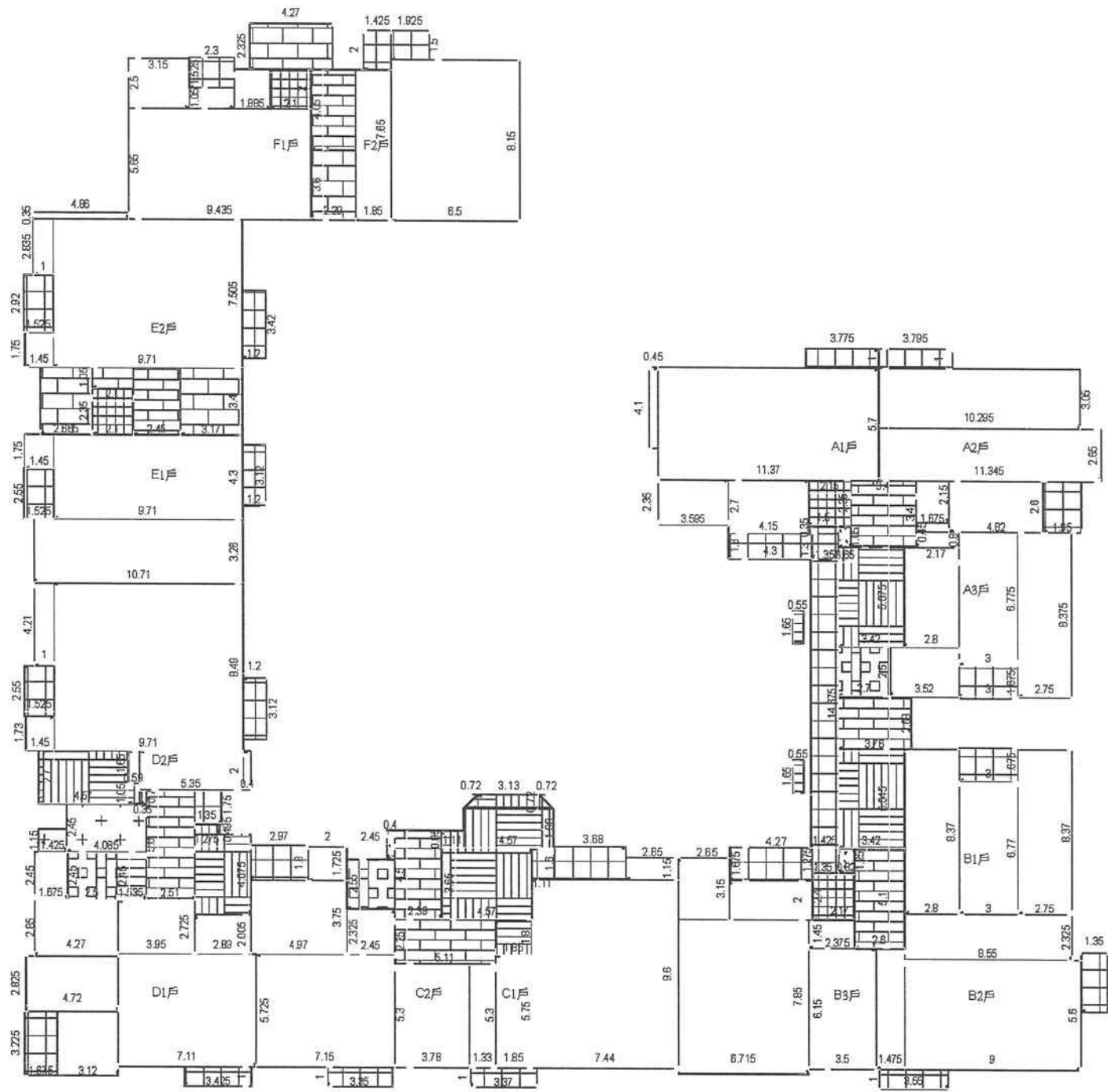




圖6-12 三層平面圖(S=1/300)

一、層面積計算圖



二、面積計算檢討
樓地板面積計算
 $1146.58+88.81+2.29+40.21+92.99+11.65+19.13+19.40+5.58=1426.64\text{m}^2$
陽台面積檢討
 $132.23\text{m}^2 < 1426.64 \times 10\% = 142.66\text{m}^2 \dots \text{OK}$
梯廳面積檢討
 $88.81\text{m}^2 < 1426.64 \times 10\% = 142.66\text{m}^2 \dots \text{OK}$
陽台+梯廳面積檢討
 $132.23+88.81=221.04\text{m}^2 > 1426.64 \times 15\% = 214.00\text{m}^2$
 $221.04 - 214.00 = 7.04\text{m}^2$ (計入容積樓地板)
設備間面積檢討
 $40.21+92.99+11.65+19.13+5.58 = 169.56\text{m}^2$
舊樓地板面積 1426.64m^2
舊層容積樓地板面積
 $1426.64-88.81-169.56+7.04 = 1175.31\text{m}^2$

三、舊層戶數檢討 14 戶
四、緊急升降機設置檢討
A,B,C 棟建築物為 21 層規劃 (檢討 11-21 層)
A,B 棟 $(86.31+77.60+68.86+66.76+79.35+94.57) \times 11 = 5207.95\text{m}^2 > 500\text{m}^2$ (設置緊急升降機)
C 棟 $(92.16+88.75) \times 11 = 1990.01\text{m}^2 > 500\text{m}^2$ (設置緊急升降機)
D 棟—棟建築物為 19 層規劃
 $(93.93+101.63) \times 9 = 1760.04\text{m}^2 > 500\text{m}^2$ (設置緊急升降機)
E,F 棟兩棟建築物為 13 層規劃
E 棟 $(79.21+79.95) \times 2 = 318.32\text{m}^2 < 500\text{m}^2$ (免設緊急升降機)
五、排煙室面積檢討
A,B 棟 $2.68 \times 3.76 = 10.08\text{m}^2 > 10.00\text{m}^2 \dots \text{OK}$ (以梯廳計算)
C 棟 $2.39 \times 4.5 + 0.4 \times 1.45 = 11.34\text{m}^2 > 10.00\text{m}^2 \dots \text{OK}$ (以梯廳計算)
D 棟 $4.085 \times 2.45 + 1.15 \times 1.425 = 11.65\text{m}^2 > 10.00\text{m}^2 \dots \text{OK}$ (以梯廳計算)

六、特別安全梯面積檢討
A,B 棟
 $(86.31+77.60+68.86+66.76+79.35+94.57) \times 3\% = 14.20\text{m}^2$
 $(17.36+17.25+10.08) = 44.69\text{m}^2 > 14.20\text{m}^2 \dots \text{OK}$
C 棟
 $(92.16+88.75) \times 3\% = 5.43\text{m}^2 \dots \text{OK}$
 $(32.77+11.34) = 44.11\text{m}^2 > 5.43\text{m}^2 \dots \text{OK}$
D 棟
 $25.61+11.65 = 37.26\text{m}^2 > (96.93+11.63) \times 3\% = 3.26\text{m}^2 \dots \text{OK}$
七、樓梯及平台寬度檢討(居室面積)
A,B 棟
 $86.31+77.60+68.86+66.76+79.35+94.57 = 473.45\text{m}^2 > 200\text{m}^2$
(樓梯寬度應達 120cm)
C 棟 $92.16+88.75 = 180.91\text{m}^2 < 200\text{m}^2$
D 棟 $96.93+101.63 = 198.56\text{m}^2 < 200\text{m}^2$
E 棟 $79.21+79.95 = 159.16\text{m}^2 < 200\text{m}^2$
F 棟 $67.37+67.13 = 134.50\text{m}^2 < 200\text{m}^2$

居室
A1: $4.15 \times 2.7 + 3.595 \times 2.35 + 11.37 \times 5.7 + 0.45 \times 4.1 = 86.31\text{m}^2$
A2: $3.05 \times 10.285 + 2.65 \times 11.345 + 2.15 \times 1.675 + 4.82 \times 2.6 = 77.60\text{m}^2$
A3: $2.75 \times 8.375 + 3 \times 6.775 + 2.5 \times 3.52 + 0.45 \times 1.675 + 0.8 \times 2.17 + 5.075 \times 2.8 = 68.86\text{m}^2$
B1: $2.8 \times 8.37 + 3 \times 6.77 + 2.75 \times 8.37 = 66.76\text{m}^2$
B2: $1.475 \times 6.15 + 9 \times 5.6 + 2.325 \times 8.55 = 79.35\text{m}^2$
B3: $3.5 \times 6.15 + 2 \times 4.27 + 3.15 \times 2.65 + 2.375 \times 1.45 + 7.85 \times 6.715 = 94.57\text{m}^2$
C1: $1.33 \times 5.3 + 1.85 \times 5.75 + 2.65 \times 1.15 + 7.44 \times 9.6 = 92.16\text{m}^2$
C2: $2 \times 1.725 + 4.97 \times 3.75 + 2.325 \times 2.45 + 3.78 \times 5.3 + 7.15 \times 5.725 = 88.75\text{m}^2$
D1: $2.005 \times 2.89 + 2.45 \times 1.675 + 3.225 \times 3.12 + 5.725 \times 7.11 + 2.85 \times 4.27 + 3.95 \times 2.725 + 2.825 \times 4.72 = 96.93\text{m}^2$
D2: $0.59 \times 1.65 + 0.4 \times 2 + 5.35 \times 2 + 1.45 \times 1.73 + 1 \times 4.21 + 9.71 \times 8.49 = 101.63\text{m}^2$
E1: $3.26 \times 10.71 + 1.45 \times 1.75 + 9.71 \times 4.3 = 79.21\text{m}^2$
E2: $0.35 \times 4.86 + 1 \times 2.835 + 1.45 \times 1.75 + 9.71 \times 7.505 = 79.95\text{m}^2$
F1: $1.885 \times 2 + 2.3 \times 1.05 + 3.15 \times 2.5 + 9.435 \times 5.65 = 67.37\text{m}^2$
F2: $1.85 \times 7.65 + 6.5 \times 8.15 = 67.13\text{m}^2$
總計: 1146.58m^2

免計容積陽台
A,B 棟: $1.275 \times 1.35 + 14.675 \times 1.425 + 1.3 \times 1.35 + 0.35 \times 1.5 = 24.91\text{m}^2$
A1: $3.775 \times 1 + 4.3 \times 1.3 = 9.37\text{m}^2$
A2: $3.795 \times 1 + 1.95 \times 2.6 = 8.87\text{m}^2$
A3: $1.675 \times 3 = 5.03\text{m}^2$
B1: $3 \times 1.675 = 5.03\text{m}^2$
B2: $1.35 \times 3 + 1 \times 3.55 = 7.60\text{m}^2$
B3: $4.27 \times 1.675 = 7.15\text{m}^2$
C1: $1.11 \times 1.6 + 3.68 \times 1.675 + 1 \times 3.37 = 11.31\text{m}^2$
C2: $1.8 \times 2.97 + 1 \times 3.35 = 8.70\text{m}^2$
D1: $1 \times 3.425 + 1.675 \times 3.225 = 8.83\text{m}^2$
D2: $1.2 \times 3.12 + 1.525 \times 2.55 = 7.63\text{m}^2$
D 棟: $1.75 \times 1.35 = 2.36\text{m}^2$
E1: $1.2 \times 3.12 + 1.525 \times 2.55 = 7.63\text{m}^2$
E2: $1.2 \times 3.42 + 1.525 \times 2.92 = 8.56\text{m}^2$
F1: $2.3 \times 1.525 = 3.51\text{m}^2$
F2: $1.425 \times 2 + 1.925 \times 1.5 = 5.74\text{m}^2$
總計: 132.23m^2

梯廳
A 棟: $3.4 \times 3.4 + 3.76 \times 2.68 = 21.64\text{m}^2$
B 棟: $2.6 \times 5.1 = 13.26\text{m}^2$
C 棟: $4.5 \times 2.39 + 2.25 \times 5.11 = 22.25\text{m}^2$
D 棟: $5.6 \times 2.51 = 14.06\text{m}^2$
E 棟: $2.45 \times 3.4 = 8.33\text{m}^2$
F 棟: $2.29 \times 4.05 = 9.27\text{m}^2$
總計: 88.81m^2

小於 2m 梯廳
A 棟: $0.65 \times 1.05 = 0.68\text{m}^2$
B 棟: $0.82 \times 1.25 = 1.03\text{m}^2$
C 棟: $0.4 \times 1.45 = 0.58\text{m}^2$
總計: 2.29m^2

安全梯
B 棟: $2.1 \times 1.05 + 2.665 \times 3.4 + 3.17 \times 3.4 = 22.04\text{m}^2$
F 棟: $4.27 \times 2.325 + 2.29 \times 3.6 = 18.17\text{m}^2$
總計: 40.21m^2

特別安全梯
A 棟: $3.42 \times 5.075 = 17.36\text{m}^2$
B 棟: $3.42 \times 5.045 = 17.25\text{m}^2$
C 棟: $1.8 \times 1.85 + 3.65 \times 4.57 + 0.85 \times 1.11 + 1.98 \times 4.57 + 3.13 \times 0.72 + (0.72 \times 0.72) / 2 + (0.72 \times 0.72) / 2 = 32.77\text{m}^2$
D 棟: $4.075 \times 2.89 + 0.495 \times 1.275 + 4.57 \times 2.7 + 0.59 \times 1.05 + 0.35 \times 0.7 = 25.61\text{m}^2$
總計: 92.99m^2

緊急升降機排煙室
D 棟: $4.085 \times 2.45 + 1.15 \times 1.425 = 11.65\text{m}^2$
總計: 11.65m^2

緊急升降機
A 棟: $2.7 \times 2.5 = 6.75\text{m}^2$
C 棟: $2.45 \times 2.55 = 6.25\text{m}^2$
D 棟: $2.45 \times 2.5 = 6.13\text{m}^2$
總計: 19.13m^2

電梯間
A 棟: $2.35 \times 2.15 = 5.05\text{m}^2$
B 棟: $2.17 \times 2.4 = 5.21\text{m}^2$
E 棟: $2.1 \times 2.35 = 4.94\text{m}^2$
F 棟: $2.1 \times 2 = 4.20\text{m}^2$
總計: 19.40m^2

管道間
A 棟: $0.55 \times 1.65 + 0.55 \times 1.65 = 1.82\text{m}^2$
D 棟: $2.45 \times 1.535 = 3.76\text{m}^2$
總計: 5.58m^2



圖 6-13 三層面積計算圖(S=1/300)

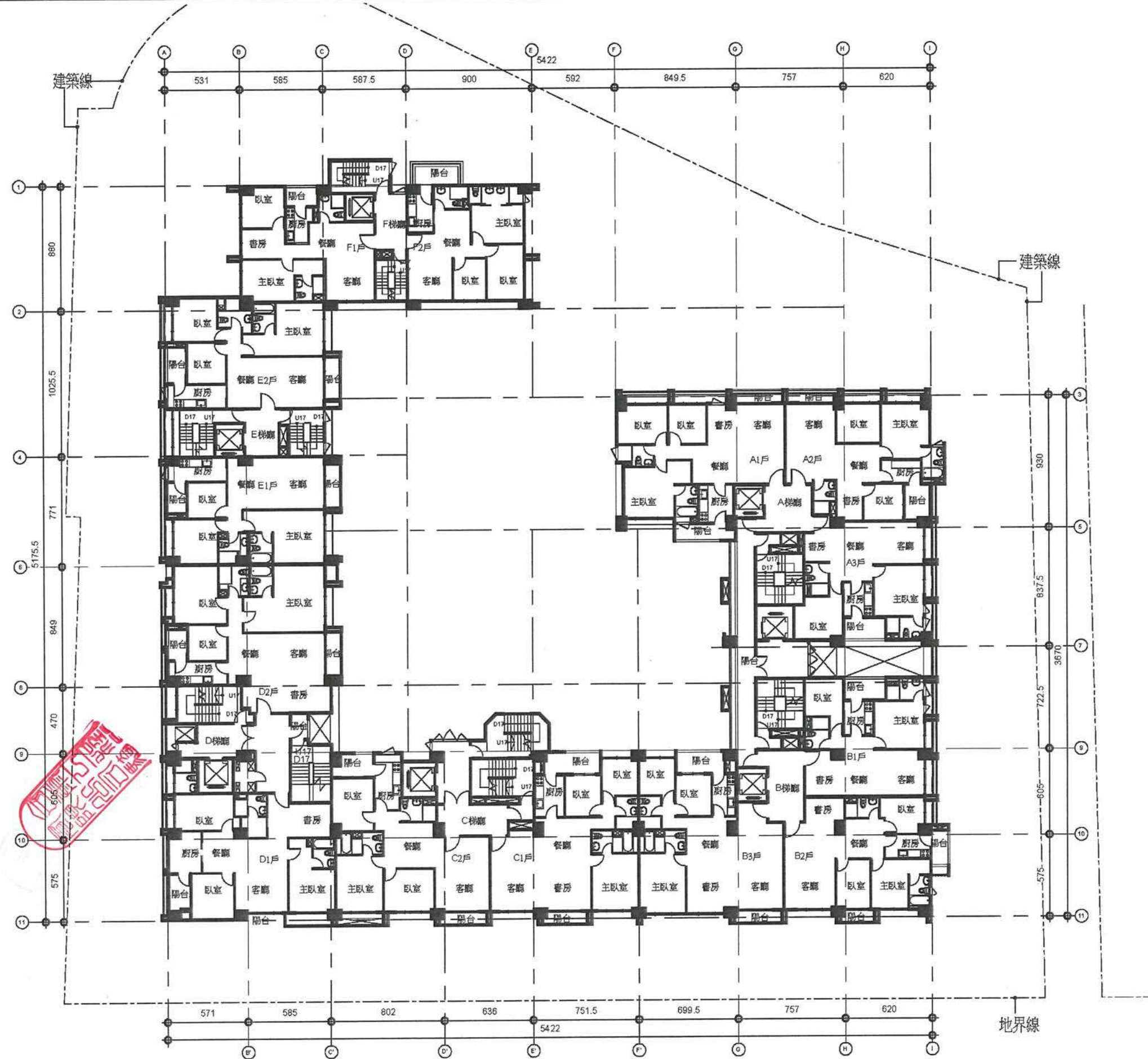
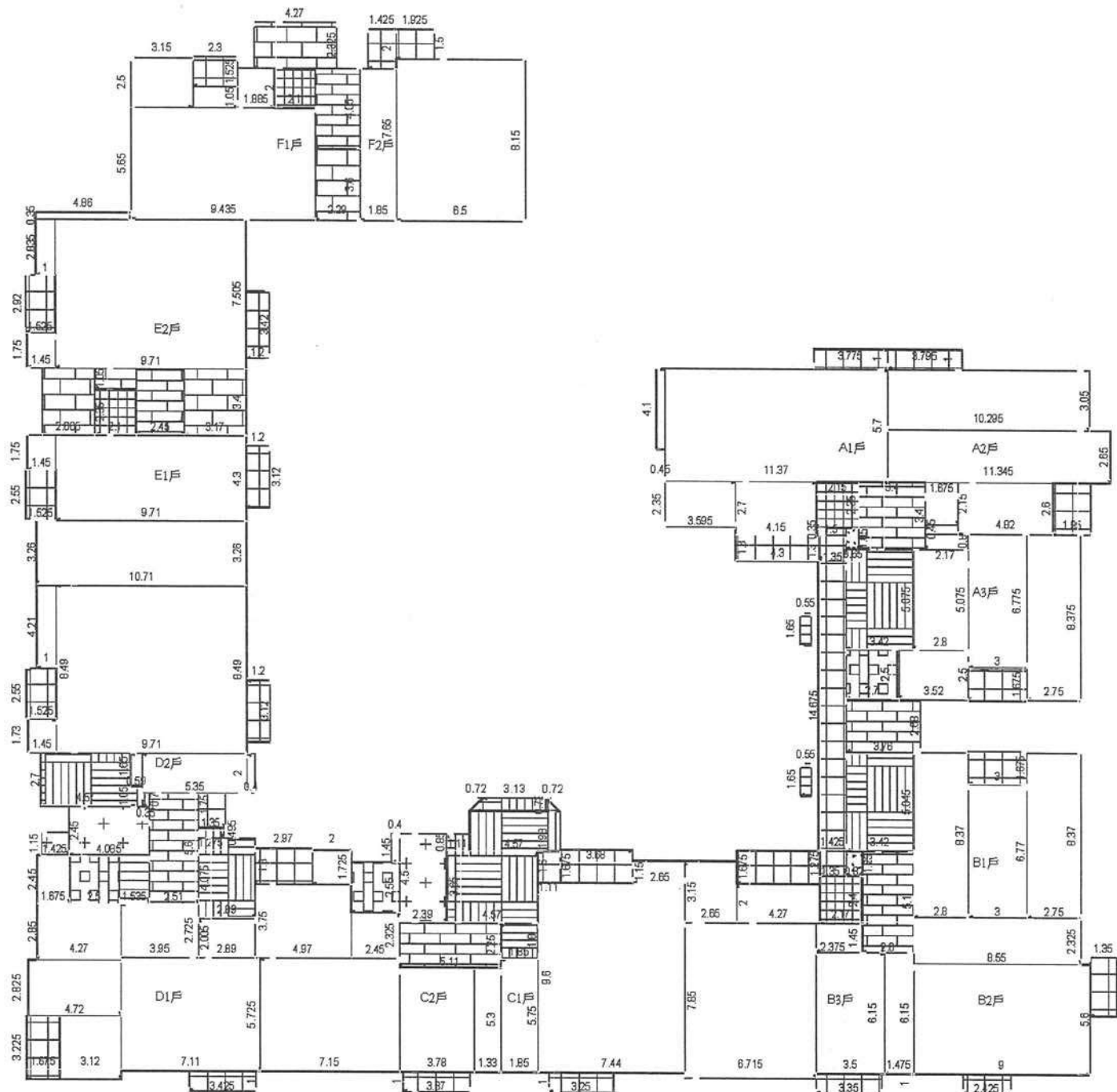


圖6-14 四層平面圖(S=1/300)



二、面積計算檢討
 樓地板面積計算
 $1146.58+78.06+1.71+40.21+92.99+22.99+19.13+19.40+5.58=1426.65\text{ m}^2$
 陽台面積檢討
 $134.36\text{ m}^2 < 1426.65 \times 10\% = 142.67\text{ m}^2$...OK
 梯廳面積檢討
 $78.06\text{ m}^2 < 1426.65 \times 10\% = 142.67\text{ m}^2$...OK
 陽台+梯廳面積檢討
 $134.36+78.06=212.42\text{ m}^2 < 1426.65 \times 15\% = 214.00\text{ m}^2$...OK
 設備間面積檢討
 $40.21+92.99+22.99+19.13+5.58 = 180.90\text{ m}^2$
 當層樓地板面積 1426.65m²
 當層容積樓地板面積
 $1426.65-78.06-180.9 = 1167.69\text{ m}^2$

三、當層戶數檢討 14戶
 四、緊急升降機設置檢討
 A,B,C三棟建築物為21層規劃(檢討11~21層)
 A,B棟 $(86.31+77.60+68.86+66.76+79.35+94.57) \times 11 = 5207.95\text{ m}^2 > 500\text{ m}^2$ (設置緊急升降機)
 C棟 $(92.16+88.75) \times 11 = 1990.01\text{ m}^2 > 500\text{ m}^2$ (設置緊急升降機)
 D棟—棟建築物為19層規劃
 $(93.93+101.63) \times 9 = 1760.04\text{ m}^2 > 500\text{ m}^2$ (設置緊急升降機)
 E,F棟兩棟建築物為13層規劃
 $(79.21+79.95) \times 2 = 318.32\text{ m}^2 < 500\text{ m}^2$ (免設緊急升降機)

五、非煙室面積檢討
 A,B棟 $2.68 \times 3.76 = 10.08\text{ m}^2 > 10.00\text{ m}^2$...OK(以梯廳計算)
 C棟 $2.39 \times 4.5 + 0.4 \times 1.45 = 11.34\text{ m}^2 > 10.00\text{ m}^2$...OK(以梯廳計算)
 D棟 $4.085 \times 2.45 + 1.15 \times 1.425 = 11.65\text{ m}^2 > 10.00\text{ m}^2$...OK(以梯廳計算)

六、特別安全梯面積檢討
 A,B棟
 $(86.31+77.60+68.86+66.76+79.35+94.57) \times 3\% = 14.20\text{ m}^2$
 $(17.36+17.25+10.08)=44.69\text{ m}^2 > 14.20\text{ m}^2$...OK
 C棟
 $(92.16+88.75) \times 3\% = 5.43\text{ m}^2$...OK
 $(32.77+11.34)=44.11\text{ m}^2 > 5.43\text{ m}^2$...OK
 D棟
 $25.61+11.65 = 37.26\text{ m}^2 > (96.93+11.63) \times 3\% = 3.26\text{ m}^2$...OK

七、樓梯及平台寬度檢討(居室面積)
 A,B棟
 $86.31+77.60+68.86+66.76+79.35+94.57 = 473.45\text{ m}^2 > 200\text{ m}^2$
 (樓梯寬度應達120cm)
 C棟 $92.16+88.75=180.91\text{ m}^2 < 200\text{ m}^2$
 D棟 $96.93+101.63 = 198.56\text{ m}^2 < 200\text{ m}^2$
 E棟 $79.21+79.95 = 159.16\text{ m}^2 < 200\text{ m}^2$
 F棟 $67.37+67.13 = 134.50\text{ m}^2 < 200\text{ m}^2$

居室
 A1: $4.15 \times 2.7 + 3.595 \times 2.35 + 11.37 \times 5.7 + 0.45 \times 4.1 = 86.31\text{ m}^2$
 A2: $3.05 \times 10.295 + 2.85 \times 11.345 + 2.15 \times 1.675 + 4.82 \times 2.6 = 77.60\text{ m}^2$
 A3: $2.75 \times 8.375 + 3 \times 6.775 + 2.5 \times 3.52 + 0.45 \times 1.675 + 0.8 \times 2.17 + 5.075 \times 2.8 = 68.86\text{ m}^2$
 B1: $2.8 \times 8.37 + 3 \times 6.77 + 2.75 \times 8.37 = 66.76\text{ m}^2$
 B2: $1.475 \times 6.15 + 9 \times 5.6 + 2.325 \times 8.55 = 79.35\text{ m}^2$
 B3: $3.5 \times 6.15 + 2 \times 4.27 + 3.15 \times 2.85 + 2.375 \times 1.45 + 7.85 \times 6.715 = 94.57\text{ m}^2$
 C1: $1.33 \times 5.3 + 1.85 \times 5.75 + 2.65 \times 1.15 + 7.44 \times 9.6 = 92.16\text{ m}^2$
 C2: $2 \times 1.725 + 4.97 \times 3.75 + 2.325 \times 2.45 + 3.78 \times 5.3 + 7.15 \times 5.725 = 88.75\text{ m}^2$
 D1: $2.005 \times 2.89 + 2.45 \times 1.675 + 3.225 \times 3.12 + 5.725 \times 7.11 + 2.85 \times 4.27 + 3.95 \times 2.725 + 2.825 \times 4.72 = 96.93\text{ m}^2$
 D2: $0.59 \times 1.65 + 0.4 \times 2 + 5.35 \times 2 + 1.45 \times 1.73 + 1 \times 4.21 + 9.71 \times 8.49 = 101.63\text{ m}^2$
 E1: $3.26 \times 10.71 + 1.45 \times 1.75 + 9.71 \times 4.3 = 79.21\text{ m}^2$
 E2: $0.35 \times 4.86 + 1 \times 2.835 + 1.45 \times 1.75 + 9.71 \times 7.505 = 79.95\text{ m}^2$
 F1: $1.885 \times 2 + 2.3 \times 1.05 + 3.15 \times 2.5 + 9.435 \times 5.65 = 67.37\text{ m}^2$
 F2: $1.85 \times 7.65 + 6.5 \times 8.15 = 67.13\text{ m}^2$
 總計: 1146.58 m^2

免計容積陽台
 AB棟: $1.275 \times 1.35 + 14.675 \times 1.425 + 1.3 \times 1.35 + 0.35 \times 1.5 = 24.91\text{ m}^2$
 A1: $4.3 \times 1.3 + 3.775 \times 1 = 9.37\text{ m}^2$
 A2: $3.795 \times 1 + 1.95 \times 2.6 = 8.87\text{ m}^2$
 A3: $1.675 \times 3 = 5.03\text{ m}^2$
 B1: $3 \times 1.675 = 5.03\text{ m}^2$
 B2: $1.35 \times 3 + 2.425 \times 1 = 6.48\text{ m}^2$
 B3: $4.27 \times 1.675 + 3.35 \times 1 = 10.50\text{ m}^2$
 C1: $1.11 \times 1.6 + 3.68 \times 1.675 + 3.25 \times 1 = 11.19\text{ m}^2$
 C2: $1.8 \times 2.97 + 3.37 \times 1 = 8.72\text{ m}^2$
 D1: $3.425 \times 1 + 1.675 \times 3.225 = 8.83\text{ m}^2$
 D2: $1.2 \times 3.12 + 1.525 \times 2.55 = 7.63\text{ m}^2$
 D棟: $1.75 \times 1.35 = 2.36\text{ m}^2$
 E1: $1.2 \times 3.12 + 1.525 \times 2.55 = 7.63\text{ m}^2$
 E2: $1.2 \times 3.42 + 1.525 \times 2.92 = 8.56\text{ m}^2$
 F1: $2.3 \times 1.525 = 3.51\text{ m}^2$
 F2: $1.425 \times 2 + 1.925 \times 1.5 = 5.74\text{ m}^2$
 總計: 134.36 m^2

梯廳
 A棟: $3.4 \times 3.4 + 3.76 \times 2.68 = 21.64\text{ m}^2$
 B棟: $2.6 \times 5.1 = 13.26\text{ m}^2$
 C棟: $2.25 \times 5.11 = 11.50\text{ m}^2$
 D棟: $5.6 \times 2.51 = 14.06\text{ m}^2$
 E棟: $2.45 \times 3.4 = 8.33\text{ m}^2$
 F棟: $2.29 \times 4.05 = 9.27\text{ m}^2$
 總計: 78.06 m^2

小於2m梯廳
 A棟: $0.65 \times 1.05 = 0.68\text{ m}^2$
 B棟: $0.82 \times 1.25 = 1.03\text{ m}^2$
 總計: 1.71 m^2

安全梯
 B棟: $2.1 \times 1.05 + 2.665 \times 3.4 + 3.17 \times 3.4 = 22.04\text{ m}^2$
 F棟: $4.27 \times 2.325 + 2.29 \times 3.6 = 18.17\text{ m}^2$
 總計: 40.21 m^2

特別安全梯
 A棟: $3.42 \times 5.075 = 17.36\text{ m}^2$
 B棟: $3.42 \times 5.045 = 17.25\text{ m}^2$
 C棟: $1.8 \times 1.85 + 3.65 \times 4.57 + 0.85 \times 1.11 + 1.98 \times 4.57 + 3.13 \times 0.72 + (0.72 \times 0.72) / 2 + (0.72 \times 0.72) / 2 = 32.77\text{ m}^2$
 D棟: $4.075 \times 2.89 + 0.495 \times 1.275 + 4.57 \times 2.7 + 0.59 \times 1.05 + 0.35 \times 0.7 = 25.61\text{ m}^2$
 總計: 92.99 m^2

緊急升降機排煙室
 C棟: $4.5 \times 2.39 + 0.4 \times 1.45 = 11.34\text{ m}^2$
 D棟: $4.085 \times 2.45 + 1.15 \times 1.425 = 11.65\text{ m}^2$
 總計: 22.99 m^2

緊急升降機
 A棟: $2.7 \times 2.5 = 6.75\text{ m}^2$
 C棟: $2.45 \times 2.55 = 6.25\text{ m}^2$
 D棟: $2.45 \times 2.5 = 6.13\text{ m}^2$
 總計: 19.13 m^2

電梯間
 A棟: $2.35 \times 2.15 = 5.05\text{ m}^2$
 B棟: $2.17 \times 2.4 = 5.21\text{ m}^2$
 E棟: $2.1 \times 2.35 = 4.94\text{ m}^2$
 F棟: $2.1 \times 2 = 4.20\text{ m}^2$
 總計: 19.40 m^2

管道間
 A棟: $0.55 \times 1.65 + 0.55 \times 1.65 = 1.82\text{ m}^2$
 D棟: $2.45 \times 1.335 = 3.76\text{ m}^2$
 總計: 5.58 m^2



- X1-19 居室
- X162 免計容積陽台
- Z1-19 管道間
- Z162 安全梯
- Z162 小於2m梯廳
- Z162 梯廳
- Z162 特別安全梯
- Z162 緊急升降機
- Z162 緊急升降機排煙室
- Z162 電梯間

圖6-15 四層面積計算圖(S=1/300)

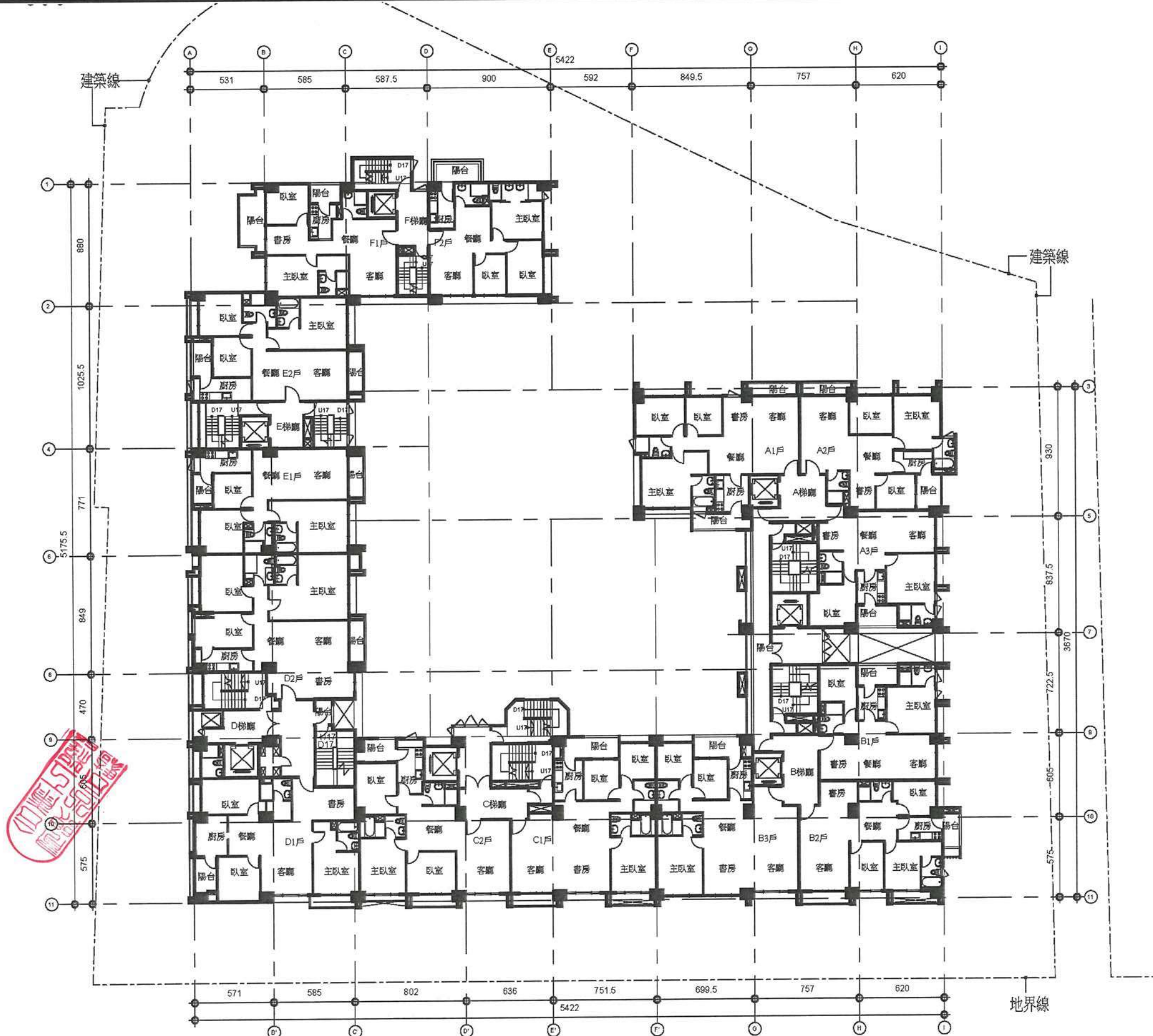
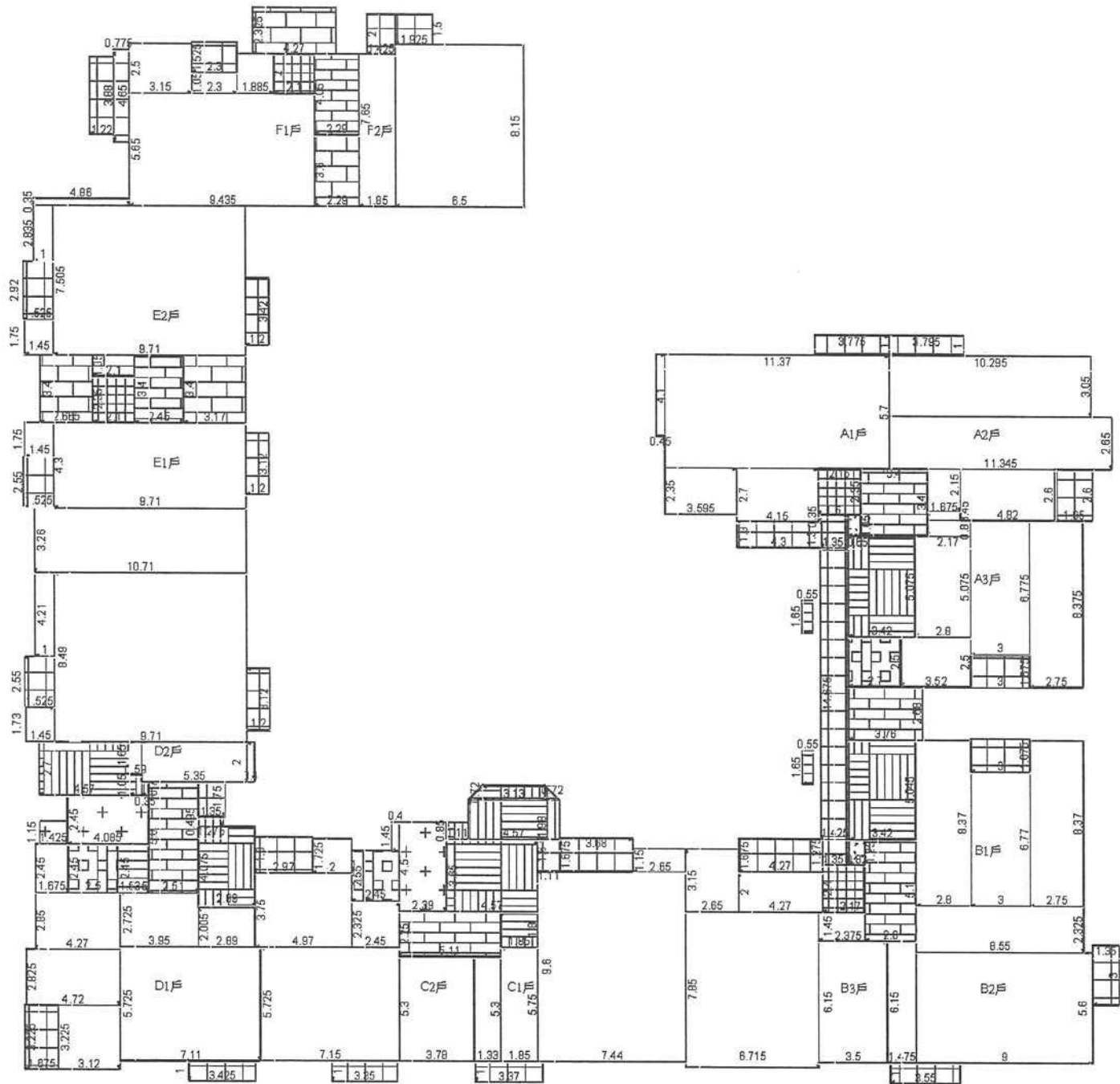


圖6-16 五層平面圖(S=1/300)



居室
 A1: $4.15 * 2.7 + 3.595 * 2.35 + 11.37 * 5.7 + 0.45 * 4.1 = 86.31 \text{ m}^2$
 A2: $3.05 * 10.295 + 2.65 * 11.345 + 2.15 * 1.675 + 4.82 * 2.6 = 77.60 \text{ m}^2$
 A3: $2.75 * 8.375 + 3 * 6.775 + 2.5 * 3.52 + 0.45 * 1.675 + 0.8 * 2.17 + 5.075 * 2.8 = 68.86 \text{ m}^2$
 B1: $2.8 * 8.37 + 3 * 6.77 + 2.75 * 8.37 = 66.76 \text{ m}^2$
 B2: $1.475 * 6.15 + 9 * 5.6 + 2.325 * 8.65 = 79.35 \text{ m}^2$
 B3: $3.5 * 6.15 + 2 * 4.27 + 3.15 * 2.65 + 2.375 * 1.45 + 7.85 * 6.715 = 94.57 \text{ m}^2$
 C1: $1.33 * 5.3 + 1.85 * 5.75 + 2.65 * 1.15 + 7.44 * 9.6 = 92.16 \text{ m}^2$
 C2: $2 * 1.725 + 4.97 * 3.75 + 2.325 * 2.45 + 3.78 * 5.3 + 7.15 * 5.725 = 88.75 \text{ m}^2$
 D1: $2.005 * 2.89 + 2.45 * 1.675 + 3.225 * 3.12 + 5.725 * 7.11 + 2.85 * 4.27 + 3.95 * 2.725 + 2.825 * 4.72 = 96.93 \text{ m}^2$
 D2: $0.59 * 1.65 + 0.4 * 2 + 5.35 * 2 + 1.45 * 1.73 + 1 * 4.21 + 9.71 * 8.49 = 101.63 \text{ m}^2$
 E1: $3.26 * 10.71 + 1.45 * 1.75 + 9.71 * 4.3 = 79.21 \text{ m}^2$
 E2: $0.35 * 4.86 + 1 * 2.835 + 1.45 * 1.75 + 9.71 * 7.505 = 79.95 \text{ m}^2$
 F1: $1.885 * 2 + 2.3 * 1.05 + 3.15 * 2.5 + 9.435 * 5.65 = 67.37 \text{ m}^2$
 F2: $1.85 * 7.65 + 6.5 * 8.15 = 67.13 \text{ m}^2$
 總計: 1146.58 m^2

免計容積陽台
 AB棟: $1.275 * 1.35 + 14.675 * 1.425 + 1.3 * 1.35 + 0.35 * 1.5 = 24.91 \text{ m}^2$
 A1: $4.3 * 1.3 + 3.775 * 1 = 9.37 \text{ m}^2$
 A2: $3.795 * 1 + 1.95 * 2.6 = 8.87 \text{ m}^2$
 A3: $1.675 * 3 = 5.03 \text{ m}^2$
 B1: $3 * 1.675 = 5.03 \text{ m}^2$
 B2: $1.35 * 3 + 3.55 * 1 = 7.60 \text{ m}^2$
 B3: $4.27 * 1.675 = 7.15 \text{ m}^2$
 C1: $1.11 * 1.6 + 3.68 * 1.675 + 1 * 3.37 = 11.31 \text{ m}^2$
 C2: $1.8 * 2.97 + 1 * 3.35 = 8.70 \text{ m}^2$
 D1: $1 * 3.425 + 1.675 * 3.225 = 8.83 \text{ m}^2$
 D2: $1.2 * 3.12 + 1.525 * 2.55 = 7.63 \text{ m}^2$
 D棟: $1.75 * 1.35 = 2.36 \text{ m}^2$
 E1: $1.2 * 3.12 + 1.525 * 2.55 = 7.63 \text{ m}^2$
 E2: $1.2 * 3.42 + 1.525 * 2.92 = 8.56 \text{ m}^2$
 F1: $4.65 * 0.775 + 1.22 * 3.88 + 2.3 * 1.525 = 11.84 \text{ m}^2$
 F2: $1.425 * 2 + 1.925 * 1.5 = 5.74 \text{ m}^2$
 總計: 140.56 m^2

梯廳
 A棟: $3.4 * 3.4 + 3.76 * 2.68 = 21.64 \text{ m}^2$
 B棟: $2.6 * 5.1 = 13.26 \text{ m}^2$
 C棟: $2.25 * 5.11 = 11.50 \text{ m}^2$
 D棟: $5.6 * 2.51 = 14.06 \text{ m}^2$
 E棟: $2.45 * 3.4 = 8.33 \text{ m}^2$
 F棟: $2.29 * 4.05 = 9.27 \text{ m}^2$
 總計: 78.06 m^2

小於2m梯廳
 A棟: $0.65 * 1.05 = 0.68 \text{ m}^2$
 B棟: $0.82 * 1.25 = 1.03 \text{ m}^2$
 總計: 1.71 m^2

安全梯
 B棟: $2.1 * 1.05 + 2.665 * 3.4 + 3.17 * 3.4 = 22.04 \text{ m}^2$
 F棟: $4.27 * 2.325 + 2.29 * 3.6 = 18.17 \text{ m}^2$
 總計: 40.21 m^2

特別安全梯
 A棟: $3.42 * 5.075 = 17.36 \text{ m}^2$
 B棟: $3.42 * 5.045 = 17.25 \text{ m}^2$
 C棟: $1.8 * 1.85 + 3.65 * 4.57 + 0.85 * 1.11 + 1.98 * 4.57 + 3.13 * 0.72 + (0.72 * 0.72) / 2 + (0.72 * 0.72) / 2 = 32.77 \text{ m}^2$
 D棟: $4.075 * 2.89 + 0.495 * 1.275 + 4.57 * 2.7 + 0.59 * 1.05 + 0.35 * 0.7 = 25.61 \text{ m}^2$
 總計: 92.99 m^2

緊急升降梯排煙室
 C棟: $4.5 * 2.39 + 0.4 * 1.45 = 11.34 \text{ m}^2$
 D棟: $4.085 * 2.45 + 1.15 * 1.425 = 11.65 \text{ m}^2$
 總計: 22.99 m^2

緊急升降梯
 A棟: $2.7 * 2.5 = 6.75 \text{ m}^2$
 C棟: $2.45 * 2.55 = 6.25 \text{ m}^2$
 D棟: $2.45 * 2.5 = 6.13 \text{ m}^2$
 總計: 19.13 m^2

電梯間
 A棟: $2.35 * 2.15 = 5.05 \text{ m}^2$
 B棟: $2.17 * 2.4 = 5.21 \text{ m}^2$
 E棟: $2.1 * 2.35 = 4.94 \text{ m}^2$
 F棟: $2.1 * 2 = 4.20 \text{ m}^2$
 總計: 19.40 m^2

管井間
 A棟: $0.55 * 1.65 + 0.55 * 1.65 = 1.82 \text{ m}^2$
 D棟: $2.45 * 1.335 = 3.76 \text{ m}^2$
 總計: 5.58 m^2

二、面積計算檢討
 樓地板面積計算
 $1146.58 + 78.06 + 1.71 + 40.21 + 92.99 + 22.99 + 19.13 + 19.40 + 5.58 = 1426.65 \text{ m}^2$
 陽台面積檢討
 $140.56 \text{ m}^2 < 1426.65 * 10\% = 142.67 \text{ m}^2 \dots \text{OK}$
 梯廳面積檢討
 $78.06 \text{ m}^2 < 1426.65 * 10\% = 142.67 \text{ m}^2 \dots \text{OK}$
 陽台+梯廳面積檢討
 $140.56 + 78.06 = 218.62 \text{ m}^2 > 1426.65 * 15\% = 214.00 \text{ m}^2$
 $218.62 - 214.00 = 4.62 \text{ m}^2$ (計入容積樓地板)
 設備間面積檢討
 $40.21 + 92.99 + 22.99 + 19.13 + 5.58 = 180.90 \text{ m}^2$
 當層樓地板面積 1426.65 m^2
 當層容積樓地板面積
 $1426.65 - 78.06 - 180.90 + 4.62 = 1172.31 \text{ m}^2$

三、當層戶數檢討 14戶
 四、緊急升降梯設置檢討
 A,B,C三棟建築物為21層規劃(檢討11-21層)
 A,B棟 $(86.31 + 77.60 + 68.86 + 66.76 + 79.35 + 94.57) * 11 = 5207.95 \text{ m}^2 > 500 \text{ m}^2$ (設置緊急升降梯)
 C棟 $(92.16 + 88.75) * 11 = 1990.01 \text{ m}^2 > 500 \text{ m}^2$ (設置緊急升降梯)
 D棟一棟建築物為19層規劃
 $(93.93 + 101.63) * 9 = 1760.04 \text{ m}^2 > 500 \text{ m}^2$ (設置緊急升降梯)
 E,F棟兩棟建築物為13層規劃
 $(79.21 + 79.95) * 2 = 318.32 \text{ m}^2 < 500 \text{ m}^2$ (免設緊急升降梯)
 五、排煙室面積檢討
 A,B棟 $2.68 * 3.76 = 10.08 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$ (以梯廳計算)
 C棟 $2.39 * 4.5 + 0.4 * 1.45 = 11.34 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$ (以梯廳計算)
 D棟 $4.085 * 2.45 + 1.15 * 1.425 = 11.65 \text{ m}^2 > 10.00 \text{ m}^2 \dots \text{OK}$ (以梯廳計算)

六、特別安全梯面積檢討
 A,B棟
 $(86.31 + 77.60 + 68.86 + 66.76 + 79.35 + 94.57) * 3\% = 142.00 \text{ m}^2$
 $(17.36 + 17.25 + 10.08) = 44.69 \text{ m}^2 > 14.20 \text{ m}^2 \dots \text{OK}$
 C棟
 $(92.16 + 88.75) * 3\% = 54.30 \text{ m}^2 \dots \text{OK}$
 $(32.77 + 11.34) = 44.11 \text{ m}^2 > 54.30 \text{ m}^2 \dots \text{OK}$
 D棟
 $25.61 + 11.65 = 37.26 \text{ m}^2 > (96.93 + 11.63) * 3\% = 3.26 \text{ m}^2 \dots \text{OK}$
 七、樓梯及平台寬度檢討(居室面積)
 A,B棟
 $86.31 + 77.60 + 68.86 + 66.76 + 79.35 + 94.57 = 473.45 \text{ m}^2 > 200 \text{ m}^2$
 (樓梯寬度應達120cm)
 C棟 $92.16 + 88.75 = 180.91 \text{ m}^2 < 200 \text{ m}^2$
 D棟 $96.93 + 101.63 = 198.56 \text{ m}^2 < 200 \text{ m}^2$
 E棟 $79.21 + 79.95 = 159.16 \text{ m}^2 < 200 \text{ m}^2$
 F棟 $67.37 + 67.13 = 134.50 \text{ m}^2 < 200 \text{ m}^2$

- X1-19 居室
- X162 免計容積陽台
- Z1-19 管井間
- Z162 安全梯
- Z162 小於2m梯廳
- Z162 梯廳
- Z162 特別安全梯
- Z162 緊急升降梯
- Z162 緊急升降梯排煙室
- Z162 電梯間

圖6-17 五層面積計算圖(S=1/300)