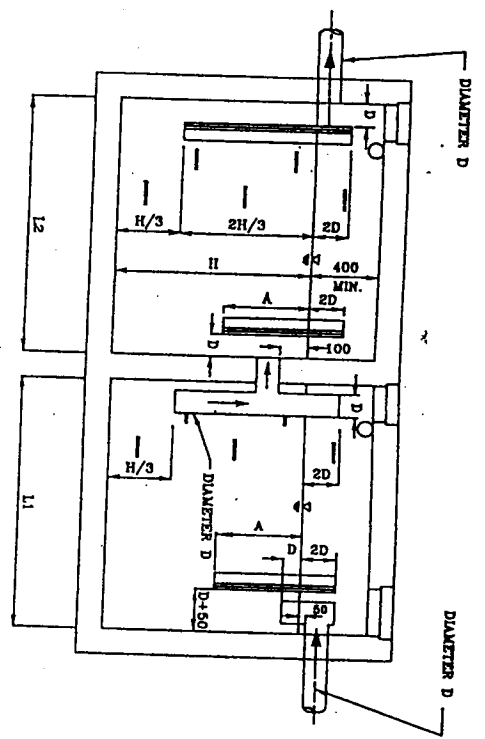


Grease Traps

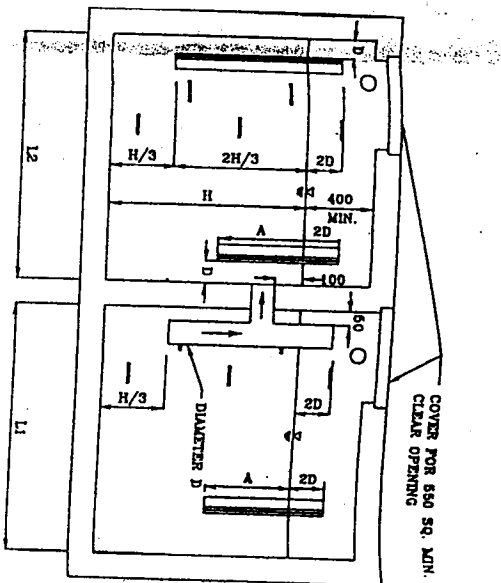
(see Drawing no. EP 50/L1/1/01A for typical details of a grease trap)

<u>Kitchen Floor Area</u> (m ²)	<u>Peaking Factor</u>	<u>Minimum Required Grease Trap Retention Volume</u> (m ³)
12	5.5	0.7
24	4.3	1.1
50	3.0	1.6
100	2.4	2.5
150		3.3
200	1.85	4.0
250		4.7
300		5.4
350		6.1
400	1.62	6.7
450		7.3
500		7.8
550		8.3
600	1.38	8.7
650		9.1
700		9.4
750		9.7
800	1.15	10.0
850		10.2
900	1.03	10.3
1000	1.0	10.4

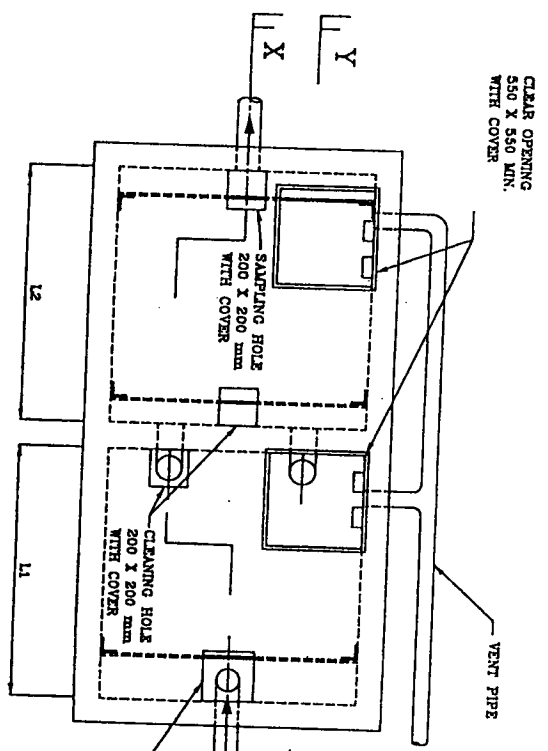
- Note
1. The minimum required grease trap retention volume tabulated above is based on an average water consumption of 0.5 m³ per day per m² of kitchen floor area, and an average working day of 16 working hours. A larger grease trap should be provided if a higher water discharge intensity is anticipated.
 2. For kitchen floor areas in between the listed values, the minimum required grease trap retention volume can be calculated pro-rata.
 3. For kitchen floor areas smaller than 12 m², a grease trap with retention volume 0.7 m³ should be provided unless the adequacy of a smaller grease trap can be demonstrated.
 4. Depending on the actual operation of the proposed food premises, additional installations might be required to meet the standards given in the Technical Memorandum issued under section 21 of the Water Pollution Control (Amendment) Ordinance 1990.



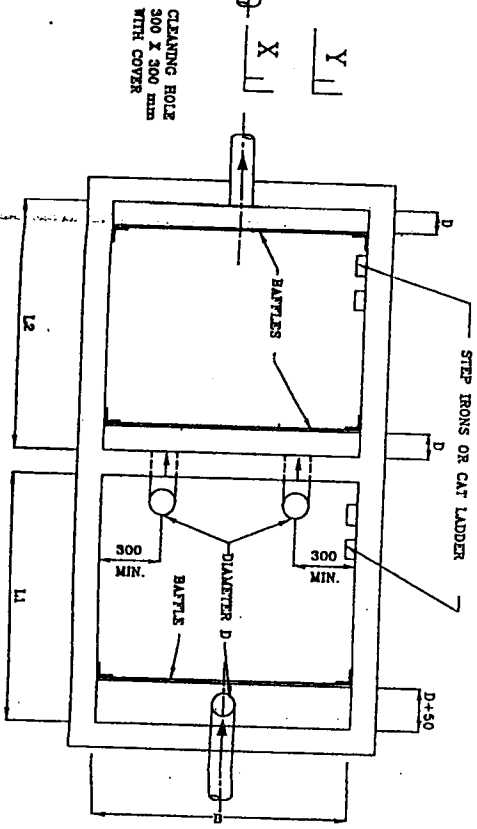
SECTION X-X



SECTION Y-Y



PLAN



SECTIONAL PLAN

TYPICAL DETAILS OF A GREASE TRAP

PROJEC PN 1/94

Notes

1. All dimensions are in millimetres unless otherwise stated
2. Volume = $B(L_1 + L_2)H$
3. $750 \leq B \leq L_1 \leq L_2 \leq 1800$
4. $600 \leq H \leq 1200$
For kitchen floor areas $\geq 50 \text{ m}^2$, H should be 900 minimum
5. $L_1 + L_2 = L_T$
 $2.0 \leq L_T/H \leq 3.0$
 $1500 \leq B \times L_T/H \leq 4000$
6. $A = H/2$ but not greater than 450
7. No. of pipes through the middle partition wall should be such that the velocity inside the pipes is not greater than 0.2 m/s
8. Gradient of inlet pipe ≥ 1 in 10
9. Horizontal pipe between the last drainage fixture and the grease trap should not be longer than 10m. Where this cannot be achieved, the gradient of the pipe should be increased and rodding eyes should also be provided
10. Minimum diameter of inlet pipes 100mm
11. Minimum diameter of vent pipes 75mm
12. Reinforced concrete grease traps should be designed as liquid retaining structure with maximum surface crack widths 0.2mm
13. Grease traps should be easily accessible, allowing covers to be lifted and accumulated materials removed
14. A prominent sign should be erected adjacent to the grease trap to signify the location of the grease trap and should also contain the following information:
 - a) overall depth of the grease trap
 - b) liquid depth of the grease trap
 - c) the grease trap needs cleaning when the top 200mm of liquid depth is occupied by grease
 - d) warning signs and safety barriers should be erected around the manhole openings during cleaning and maintenance of the grease trap

Drawing No. EP50/L1/1/01A
Scale: NTS
Group

LIQUID WASTE PROJECTS

Environmental Protection Department
Hong Kong

