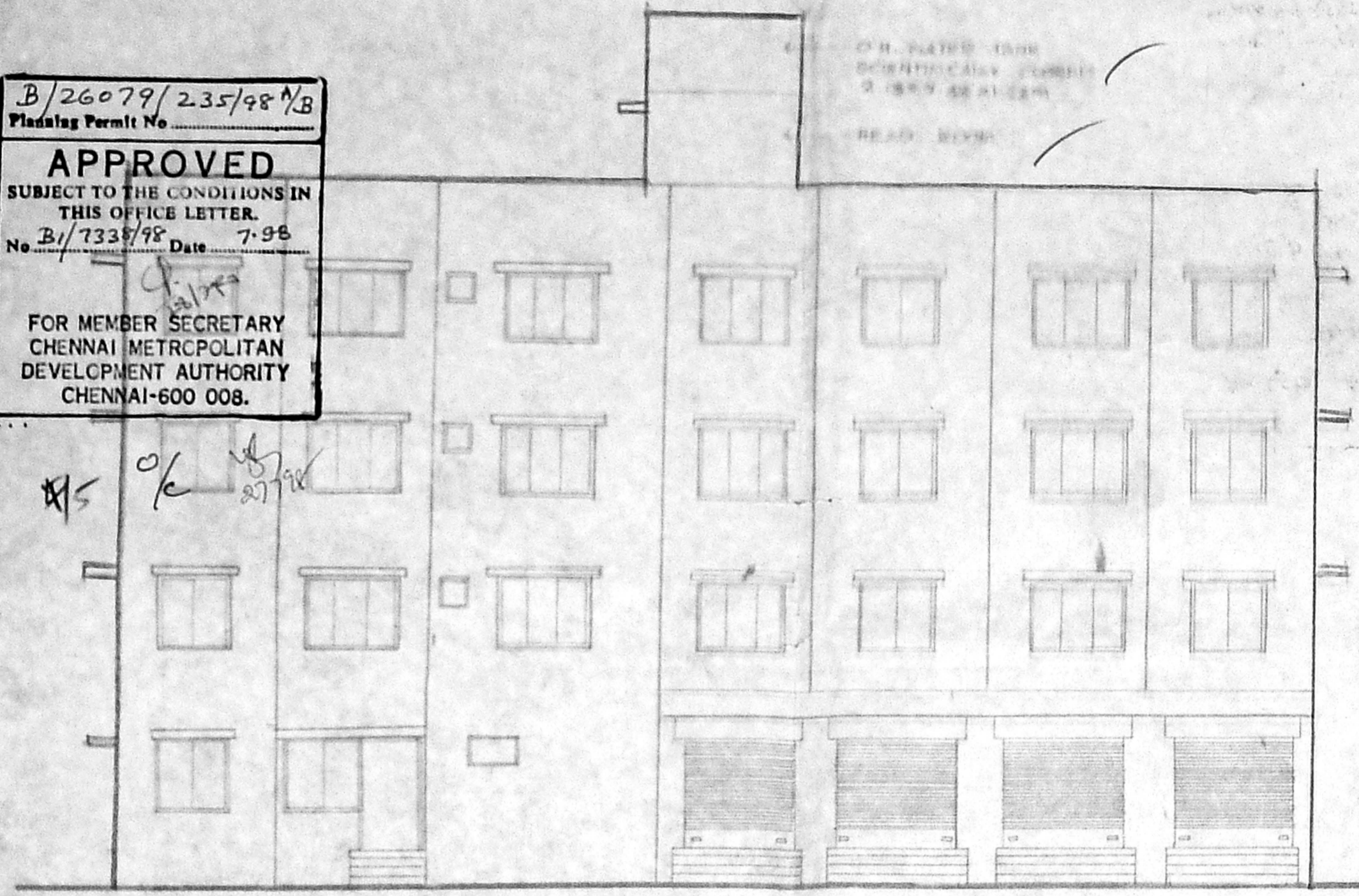
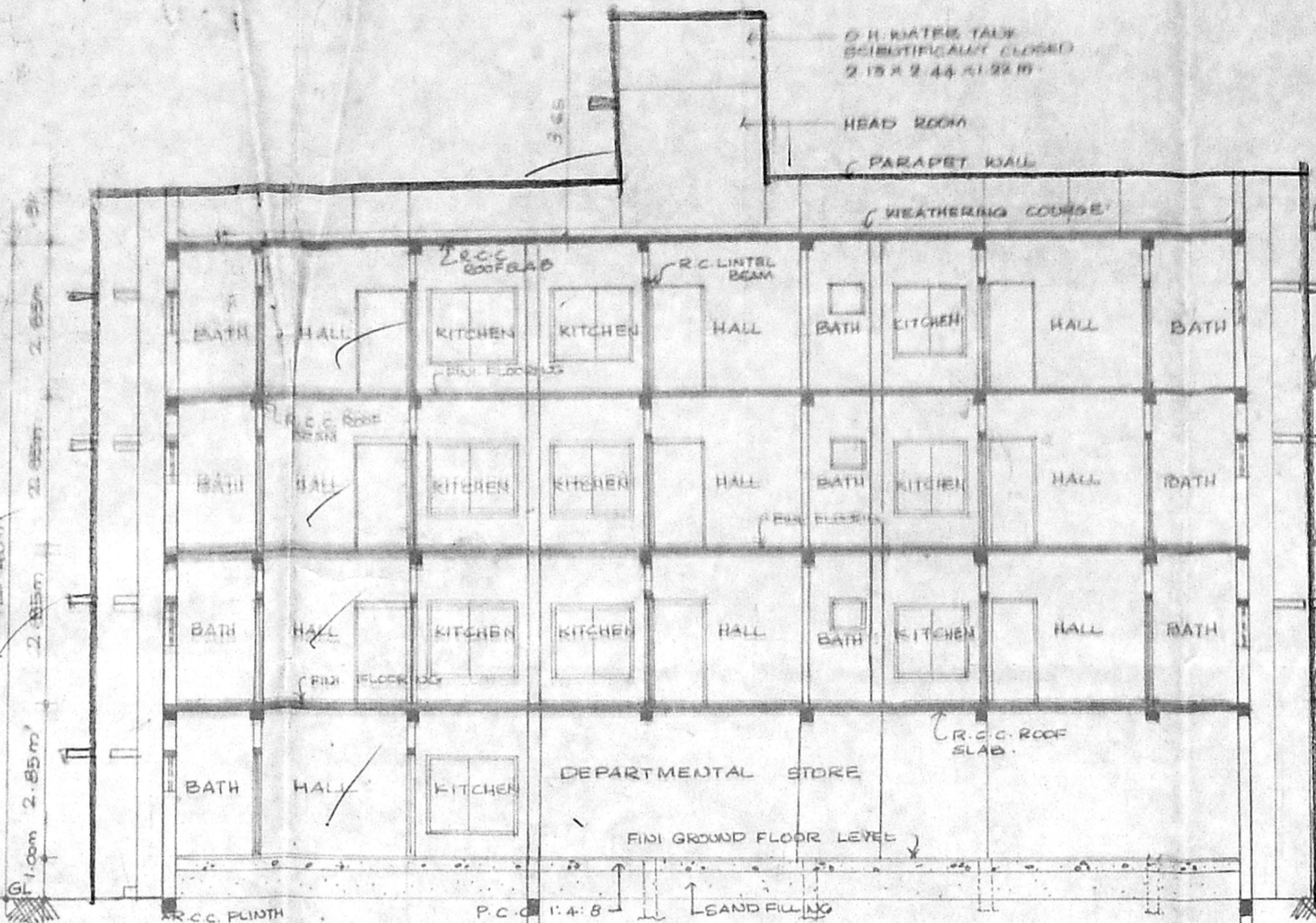


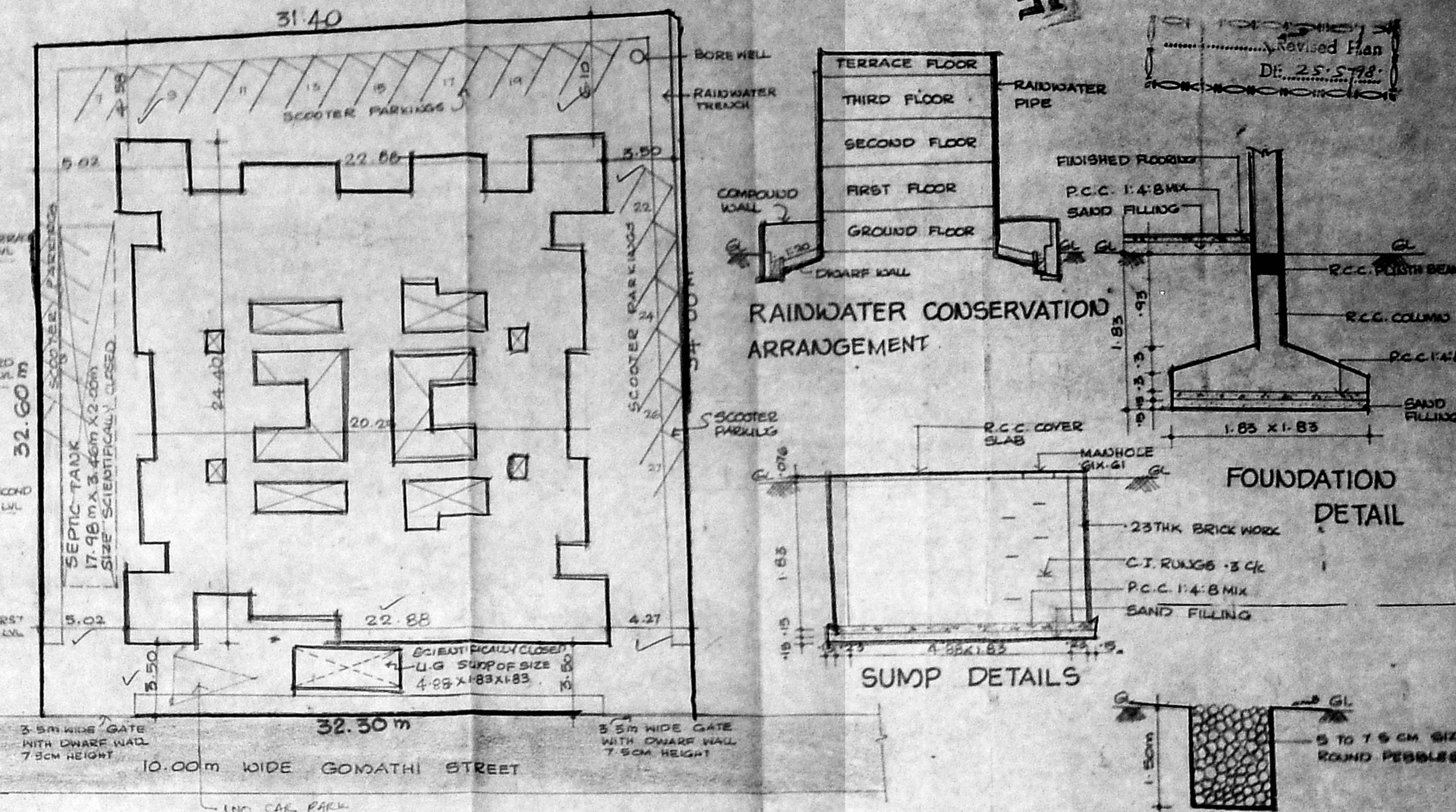
B/26079/235/98 MB
 Planning Permit No.
APPROVED
 SUBJECT TO THE CONDITIONS IN
 THIS OFFICE LETTER.
 No. B/7338/98 Date 7-98
 FOR MEMBER SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.



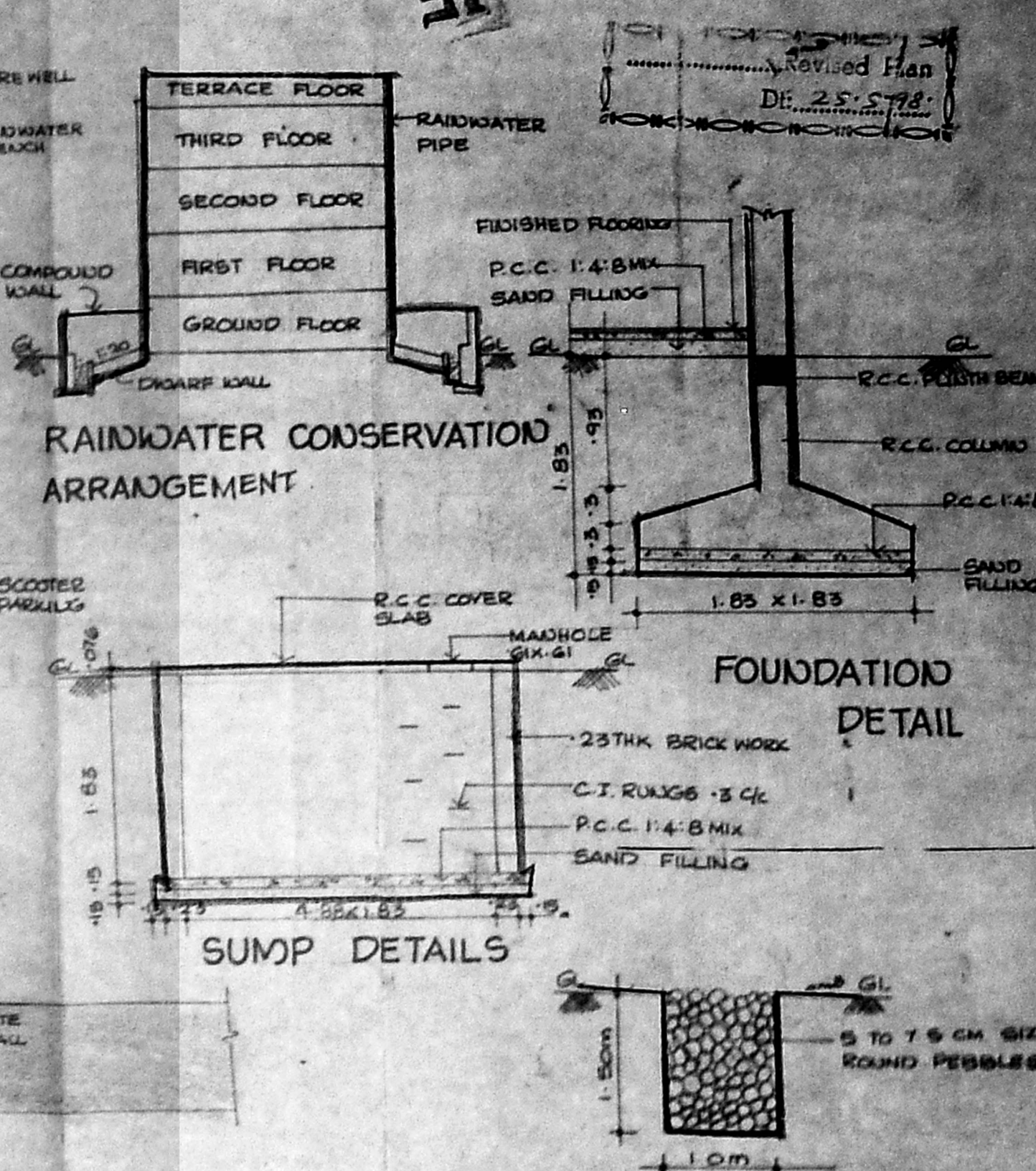
FRONT ELEVATION



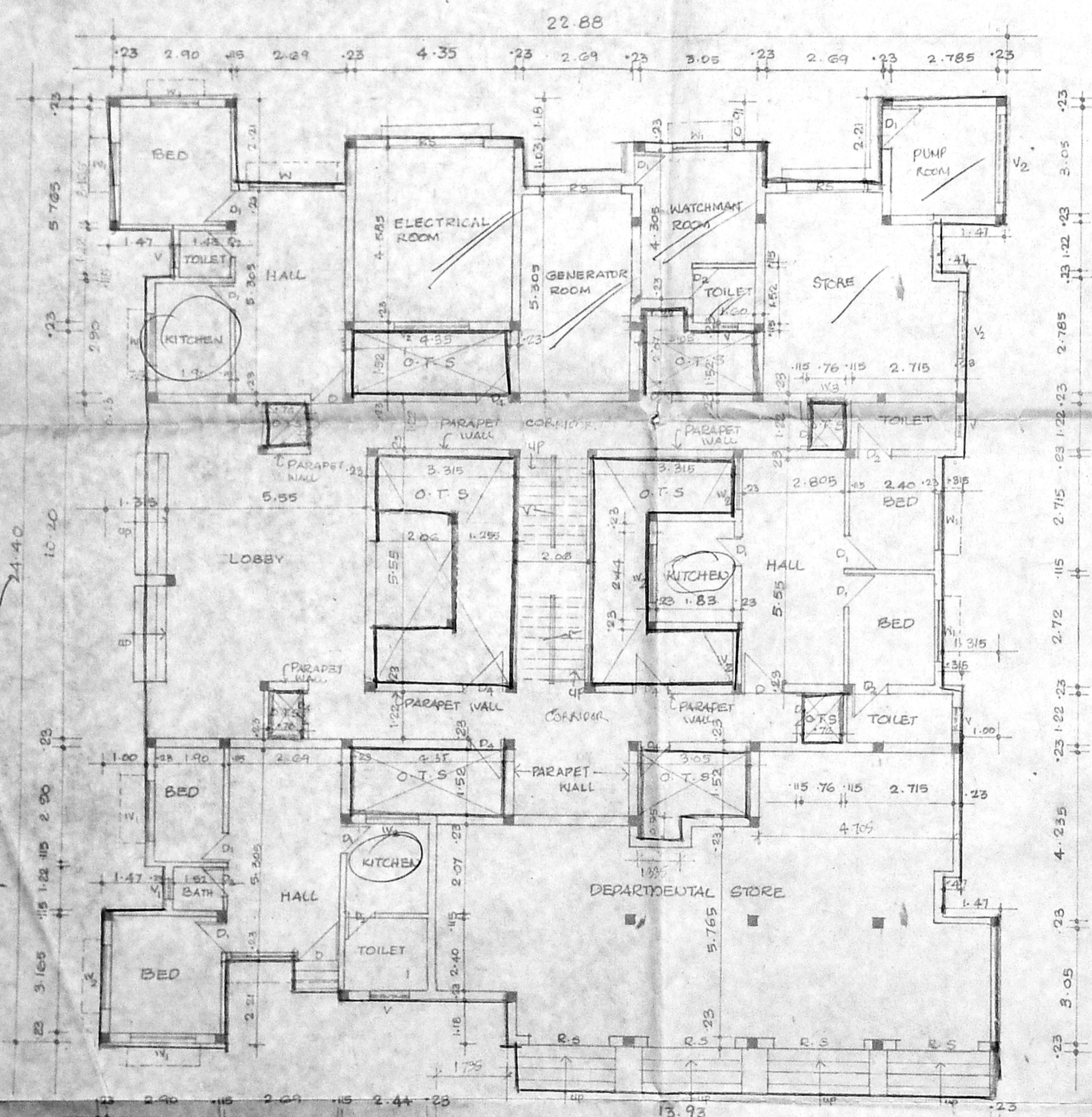
SECTION (A-A)



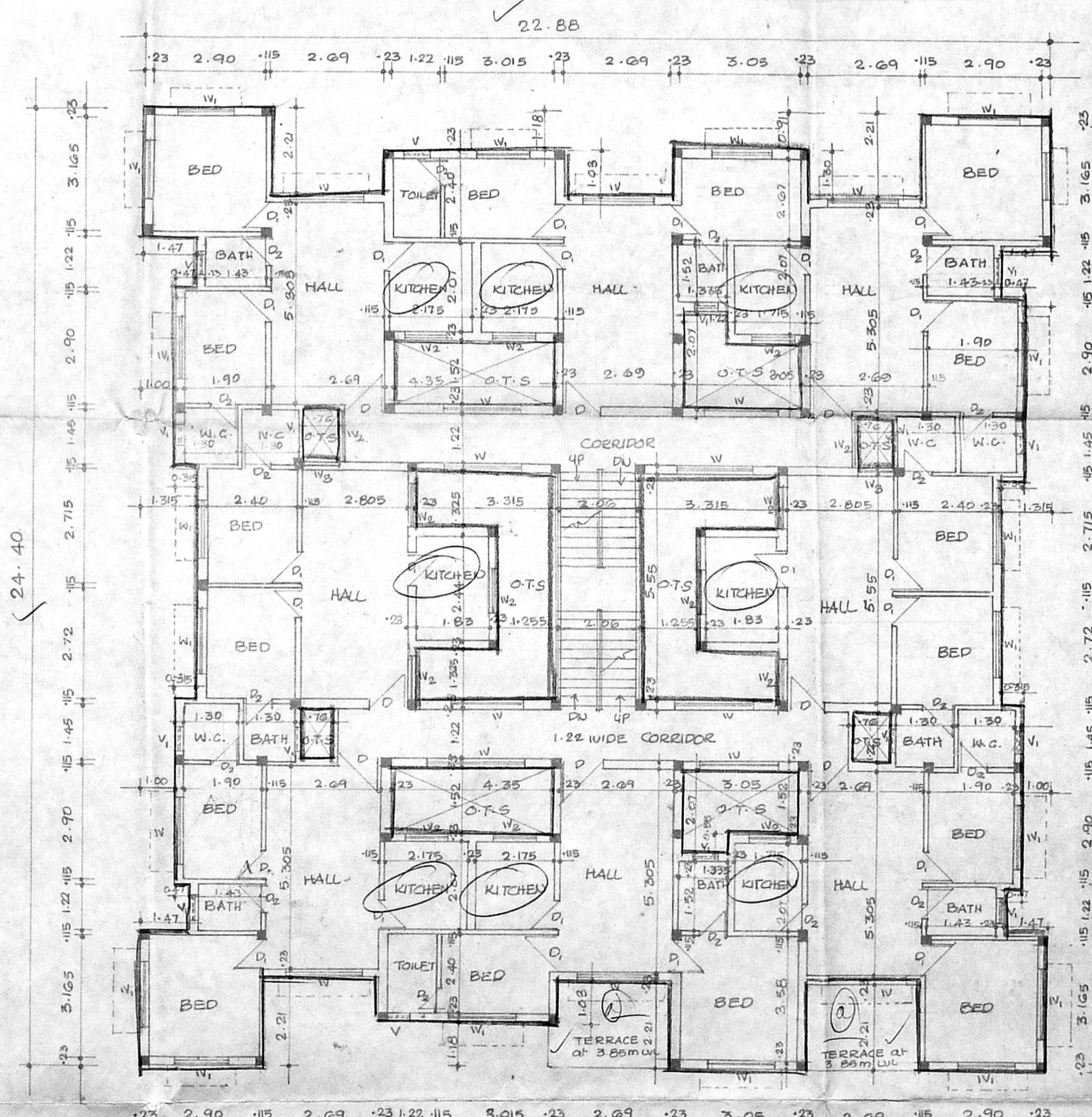
SITE PLAN
(SCALE 1:200)



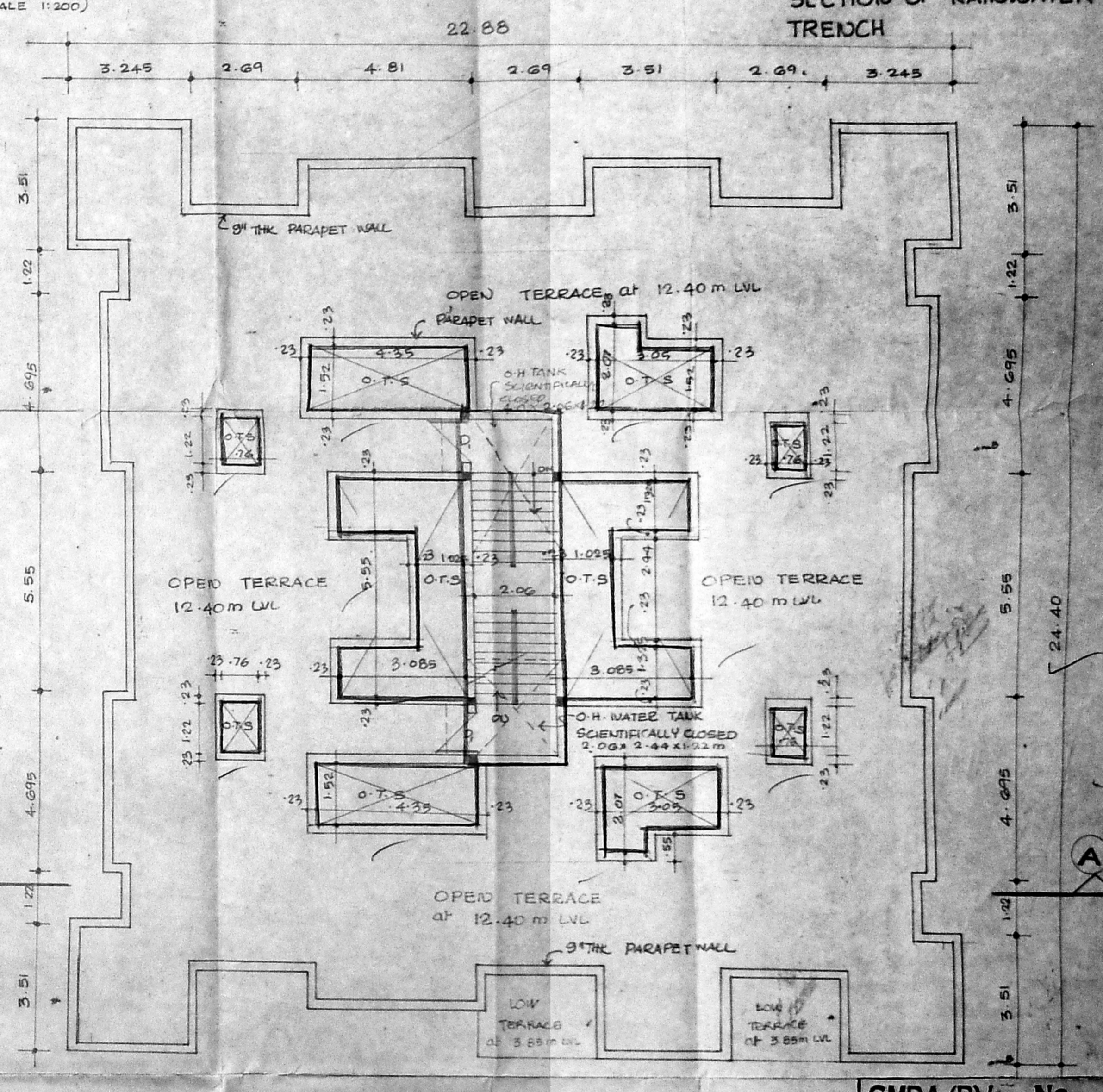
SECTION OF RAINWATER TRENCH



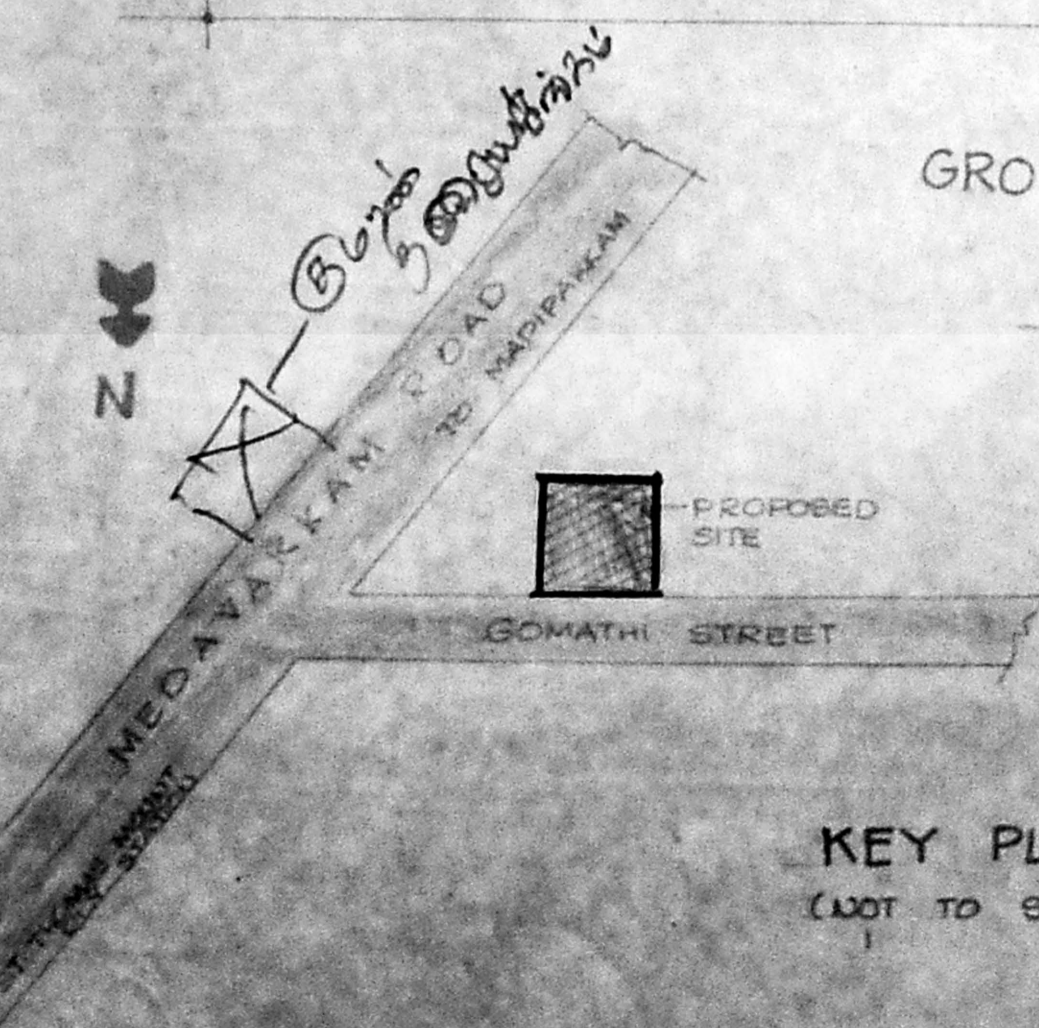
GROUND FLOOR PLAN



TYPICAL FLOOR PLAN
(1st, 2nd, 3rd FLOORS)



TERRACE FLOOR PLAN



KEY PLAN
(NOT TO SCALE)

SCHEDULE OF JOINERY

D	DOOR	1.00 x 2.13	D ₁ DOOR	0.76 x 0.91
D ₁	DOOR	0.91 x 2.13		
D ₂	DOOR	0.76 x 2.13		
W	WINDOW	1.83 x 1.37		
W ₁	WINDOW	1.37 x 1.37		
W ₂	WINDOW	1.22 x 1.22		
V	VENTILATOR	0.91 x 0.61		
V ₁	VENTILATOR	0.61 x 0.61		
R ₁	ROLLING SHUTTER	2.00 x 2.44		
V ₂	VENTILATOR	1.63 x 0.61		
W ₃	WINDOW	0.76 x 1.37		

AREA STATEMENT

PLOT AREA	1060.00 SQ.M.
GROUND FLOOR AREA (EXCLUSIVE OF NON-FSI AREA)	329.86 SQ.M.
FIRST FLOOR AREA	415.12 SQ.M.
SECOND FLOOR AREA	415.12 SQ.M.
THIRD FLOOR AREA	415.12 SQ.M.
TOTAL AREA	1575.22 SQ.M.
F.S.I	1.485
PLOT COVERAGE	39%
DOB FSI AREA IN GROUND FLOOR	97.42 SQ.M.

COLOR INDEX

[Pattern]	PROPOSED
[Pattern]	ROAD
[Pattern]	SITE BOUNDARY
ALL DIMENSIONS ARE IN METRE ONLY	
SCALE 1:100 DATE 06.02.98	

PROPOSED RESIDENTIAL BUILDING AT
 PLOT No. 9D, GOMATHI STREET, ULLAGARAM
 CHEDIDAI. 91. No. 135, ULLAGARAM VILLAGE,
 ULLAGARAM, PUZHUTHIVAKKAM TOWN
 PANCHAYAT, S. No. 86/52 A

SIGNATURE OF THE OWNER

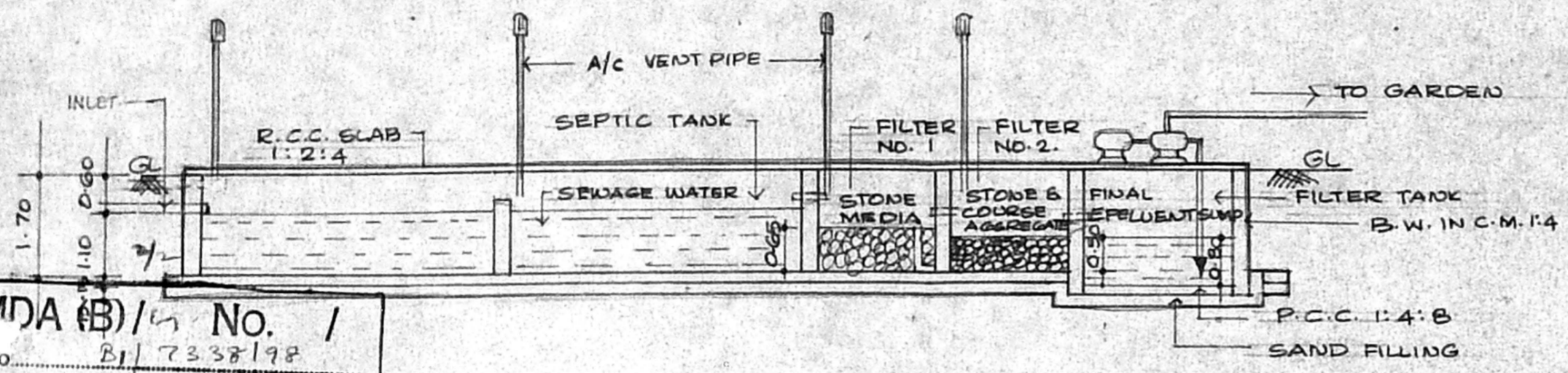
[Signature]
 (P.A. HOLDER)

SIGNATURE OF THE LICENSED SURVEYOR

[Signature]

CMDA (B) No. 1
 C.No. B/7338/98
 Asst.
 Scrutiny P.A. R. 3/4/98
 A.P.

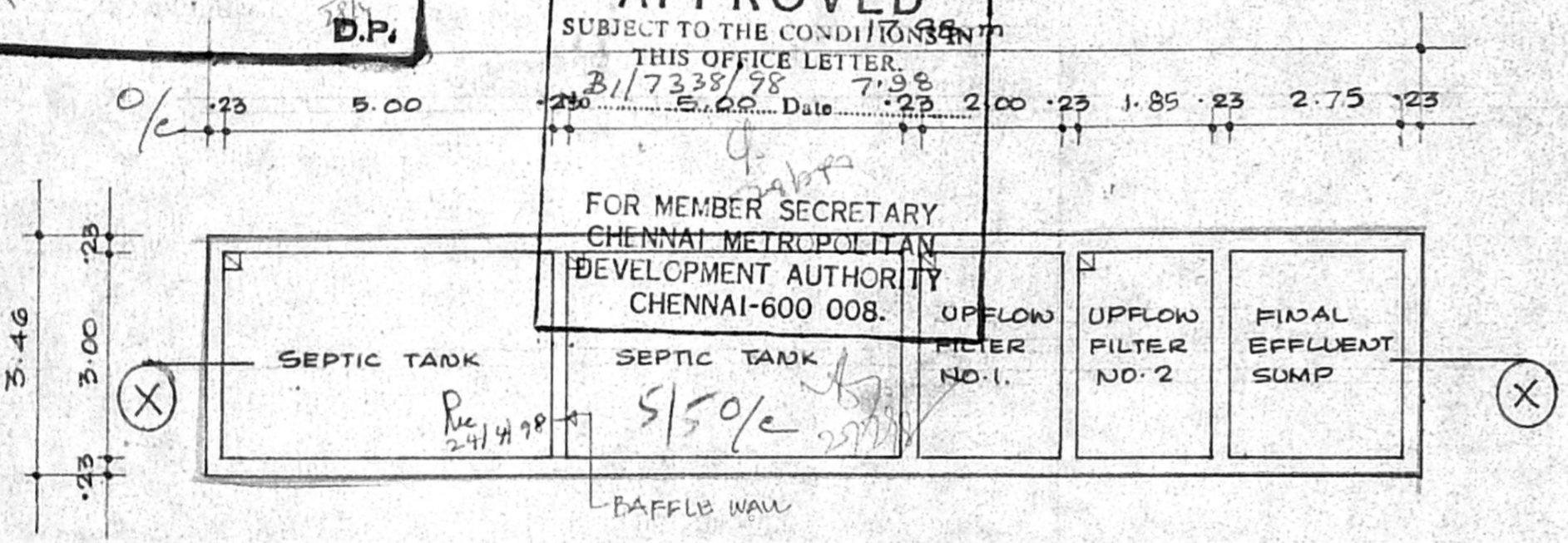
Z.N. VENUGOPAL, M.S., M.E.,
 CORPORATION OF CHENNAI
 Civil & Sanitary Engineering
 Licensed Surveyor Class-I No. 320
 Licensed Planner Class-I No. 320
 Sewerage Inspector, Water Supply Inspector,
 3, Panthasree Street, Madhavakkam, Madhavakkam
 Division of Corporation Office Higher Secondary School,
 CHENNAI - 600 034.



SECTIONAL ELEVATION ON (X) (X)

CMDA (B) No. 1
 C. No. B/7338/98
 Asst. _____
 Scrutiny P
 P. A. 27/4/98
 A.P. _____
 D.P. _____

B/26079/235/98 B/B
 Planning Permit No. _____
APPROVED
 SUBJECT TO THE CONDITIONS IN
 THIS OFFICE LETTER.
 B/7338/98 7.98
 Date 23.00
 FOR MEMBER SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.



PLAN

DESIGN CHART:

NO. OF DWELLINGS : 27 NOS (+ 2 NOS FOR DEPT. STORES)
 NO. OF USERS : 29 x 5 = 145
 ASSUME A STANDARD 2 NOS OF FIXTURE UNIT PER DWELLING

TOTAL NO. OF FIXTURE UNIT : 2 x 29 = 58 NOS
 ASSUME A PEAKING FACTOR OF G.L.P.M./FIXTURE UNIT : 58 x 6 = 348

SEPTIC TANK.

SURFACE AREA REQUIRED FOR THE SEPTIC TANK : $\frac{348 \times 0.92}{10} = 32.16 \text{ m}^2$
 VOLUME OF FREE BOARD : $32.16 \times 0.30 = 9.648 \text{ m}^3$
 VOLUME OF SEDIMENTATION : $32.16 \times 0.30 = 9.648 \text{ m}^3$
 VOLUME OF SLUDGE : $145 \times 365 \times 0.0002 = 10.585 \text{ m}^3$
 TOTAL VOLUME : 30.00 m³
 DEPTH OF SEPTIC TANK : $\frac{30.00}{32.16} = 0.93 \text{ m}$

(BUT WE ARE PROVIDING DEPTH AS 1.10 m)

SIZE OF SEPTIC TANK : 10.00m x 3.00m x 1.10m

UPFLOW FILTER

CAPACITY FOR 145 USERS : $145 \times 0.045 = 6.525 \text{ m}^3$ (PEAK GRAVITY)
 DEPTH ASSUMED : 0.80 m (MINIMUM)
 AREA OF FINAL EFFLUENT SUMP = $\frac{6.525}{0.80} = 8.15 \text{ M}^2$
 SIZE OF FINAL EFFLUENT SUMP = 2.75 x 3.00 x 0.80
 SIZE OF UPFLOW FILTER NO. 1 = 2.00 x 3.00 x 0.65
 SIZE OF UPFLOW FILTER NO. 2 = 2.00 x 3.00 x 0.50

DESIGN OF SEPTIC TANK WITH UPFLOW FILTER SYSTEM FOR PROPOSED RESIDENTIAL BUILDING AT PLOT NO. 9D, GOMATHI STREET, ULLAGARAM, CHENNAI. 91. ULLAGARAM VILLAGE, ULLAGARAM - PUZHUTHIVAKKAM TOWN. PAUCHAYAT. S. NO. 86/52 A

SCALE	1:100
SHEET. NO.	2
DATE	10.4.98
DRN	Jayanthi
COLOUR INDEX	 PROPOSED

SIGNATURE OF THE OWNER

 (P A HOLDER)

SIGNATURE OF LICENSED SURVEYOR

E. K. VENUGOPAL, Rtd., A.E.E.
 CORPORATION OF CHENNAI
 Civil & Sanitary Engineering
 Licensed Surveyor, Class-I No. 320
 Licensed Plumber Class-I Metro Water
 Sewerage No. _____ Water Supply No. _____
 3, Neelakandan Street Nungambakkam (Lake Area)
 Backside of Corporation Girls Higher Secondary School
 CHENNAI - 600 034