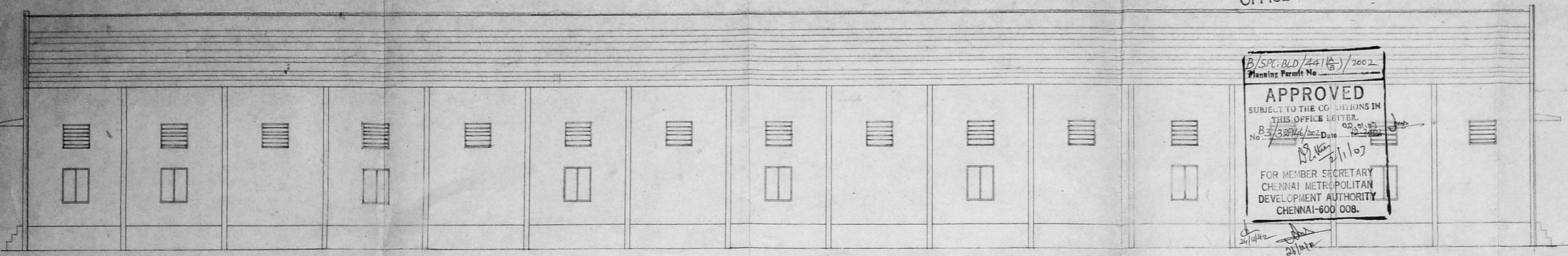


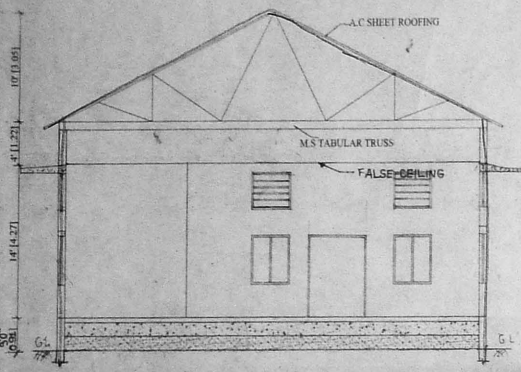
OFFICE COPY

B/S.P.C.B.D/441(A)/2002
 Planning Permit No. 441(A)/2002
APPROVED
 SUBJECT TO THE CONDITIONS IN
 THIS OFFICE LETTER.
 No. B3/32944/2012 Date 02.05.2012
 12/05/2012
 FOR MEMBER SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.

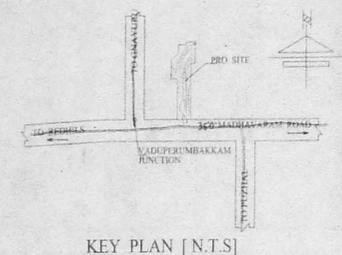
CMDA (B)/ No. 1
 C. No. B3/32944/2002
 Asst. _____
 Scrutiny _____
 P. A. 2/10/12
 A.P. _____
 D.P. _____



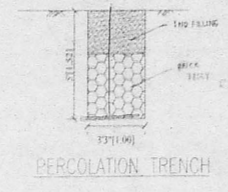
ELEVATION



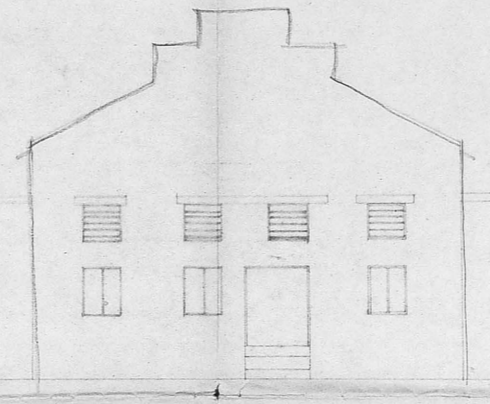
SECTION ON AB



KEY PLAN [N.T.S.]

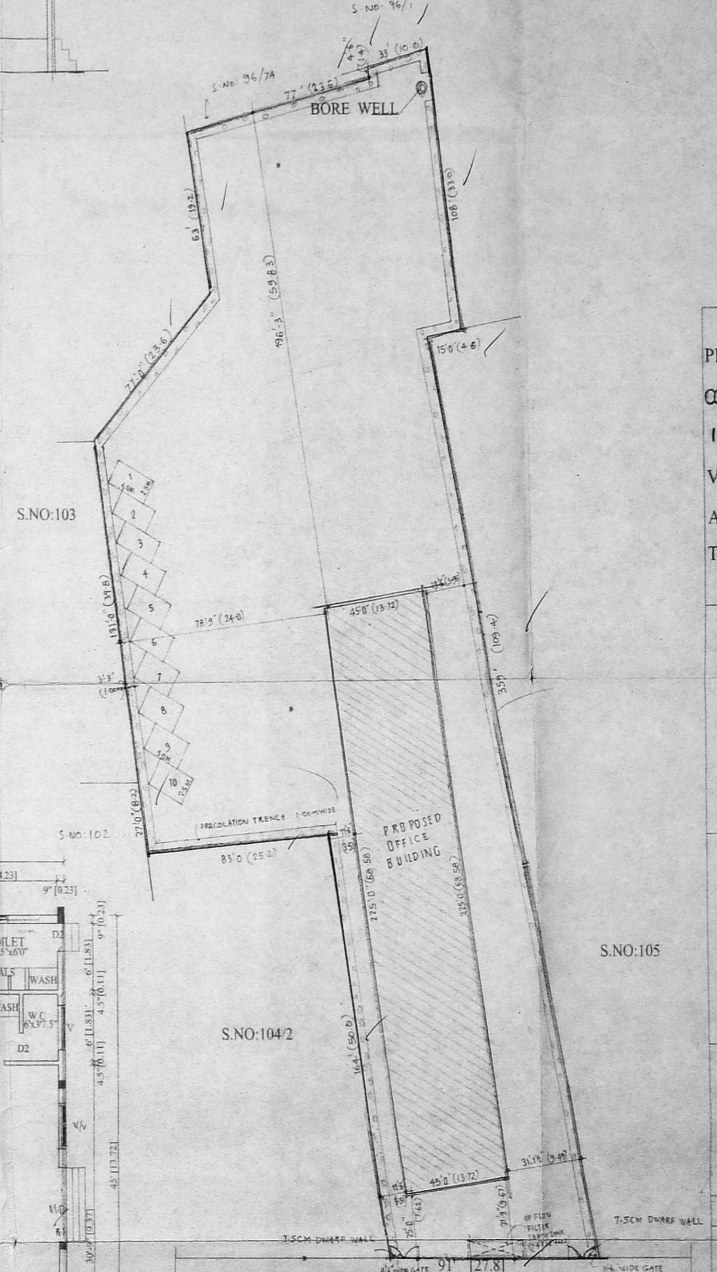


PERCOLATION TRENCH



FOUNDATION DETAIL

SOUTHERN SIDE ELEVATION



SITE PLAN

SCALE :- 1: 400

PLAN SHOWING THE PROPOSED
 CONSTRUCTION OF OFFICE BUILDING
 I.N.S.NO: 96/7B,104/1,104/3,
 VADAPERUMBAKKAM VILLAGE,
 AMBATTUR TALUK,
 THIRUVALUR DISTRICT.

SCHEDULE OF JOINERY

M.D.Rs	MAIN DOOR / ROLLING SHUTTER	33"x70"	1.00x2.13
D2	DOOR	26"x70"	0.76x2.13
W	WINDOW	40"x46"	1.22x1.37
V	VENTILATOR	40"x20"	1.22x0.61

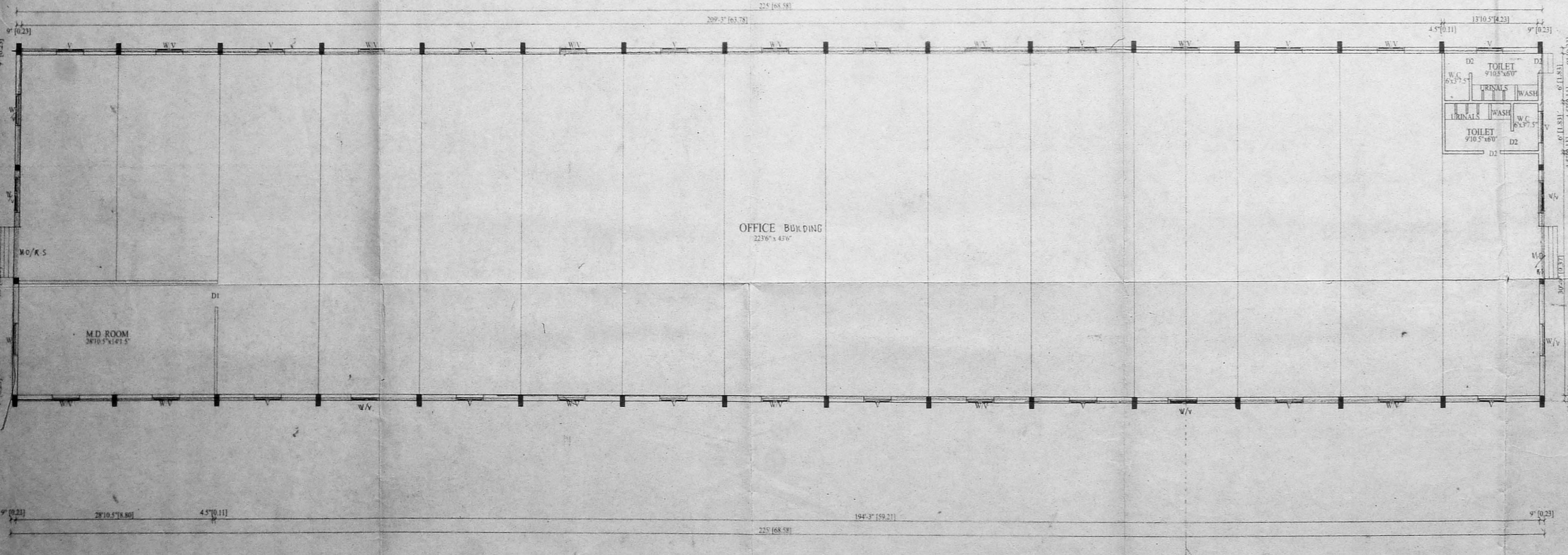
AREA DETAILS

		SQ.M
PLOT AREA	1.22 A.C	4936.00
PLINTH AREA	50 FT	
GROUND FLOOR	10,125.00	940.98
COVERAGE	19.06%	
F.S.I	0.19	

COLOUR INDEX

PROPOSED	▬▬▬
EXISTING ROAD	▬▬▬
SITE BOUNDARY	▬▬▬

SCALE - 1 : 100 (OR) 1" = 80"



GROUND FLOOR PLAN

Vanajaakmani
 OWNER'S SIGNATURE

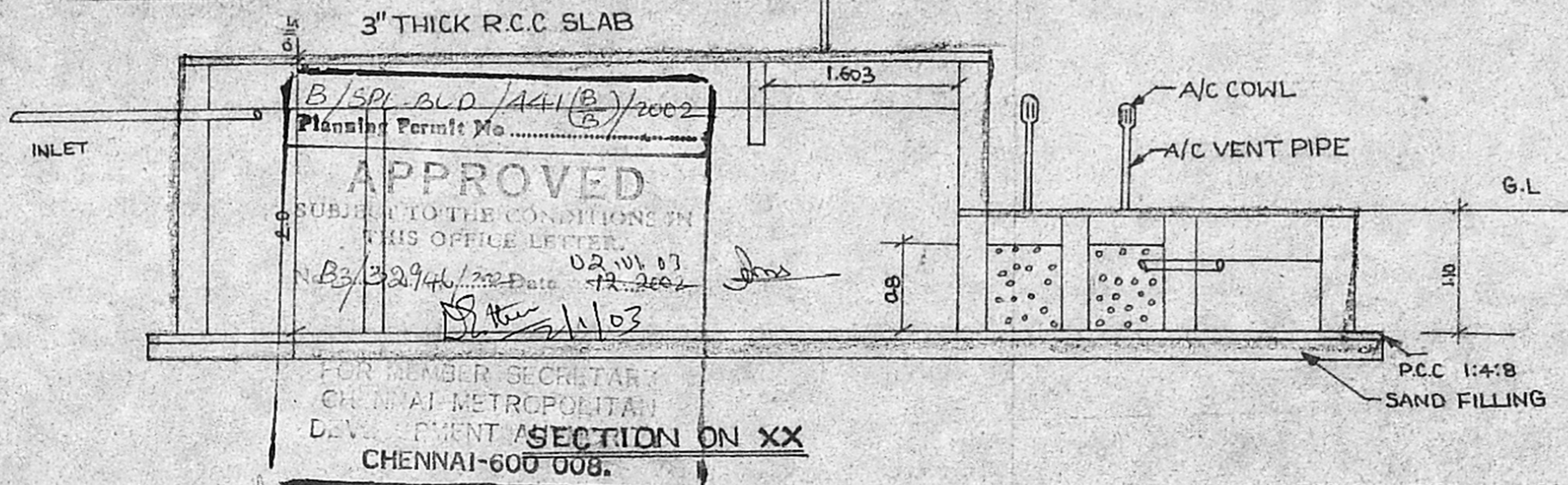
K. SELVAM, B.E., M.T.E.C. Eng (I), A.L.V.
 Consulting Civil Engineer, Chartered Engineer,
 Approved Valuer & Licensed Surveyor,
 Class-1, Reg No. 660/2002/2003
 Door No. 11/17, Thiruvalluvar Salai,
 Mogappair East, Chennai-600 050.
 Phone: 6562050

LICENSED SURVEYOR

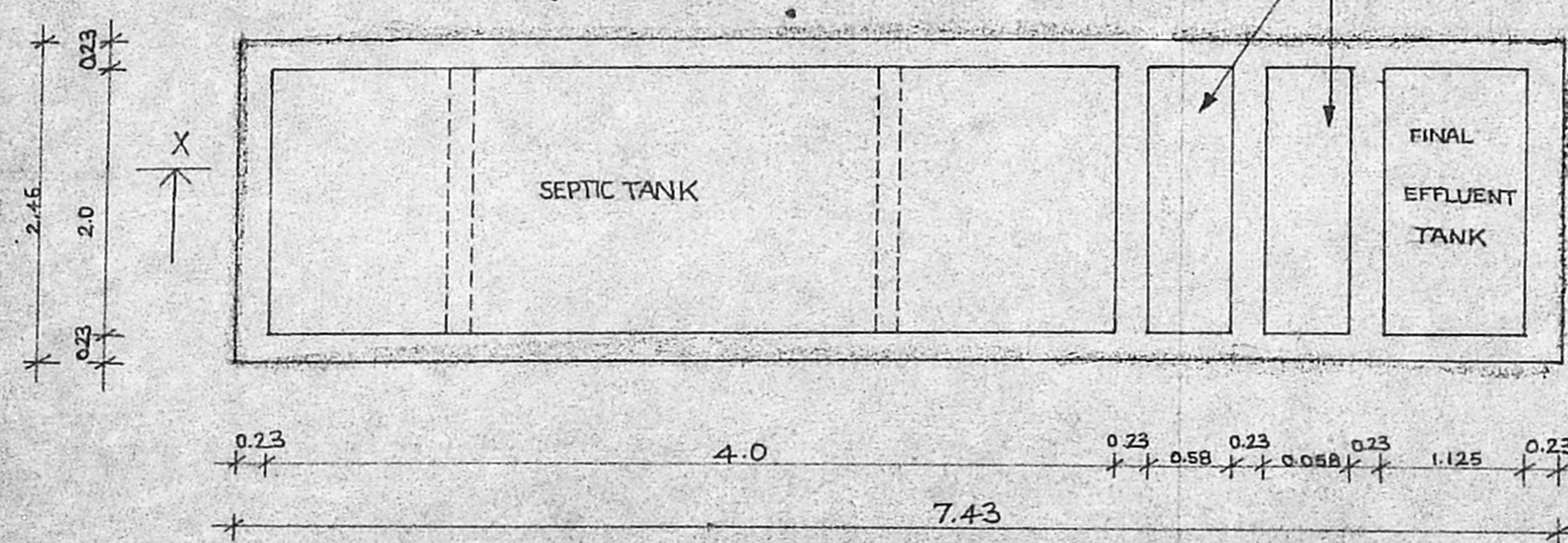
PLAN SHOWING THE PROPOSED SEPTIC TANK FOR OFFICE BUILDING IN S.NO. 96/7B,
104/1&104/3, VADAPERUMBAKKAM VILLAGE, AMBATTUR TALUK, THIRUVALLUR DISTRICT.

FOR SMT. N. VANAJA KUMARI.
SCALE :- 1:50

OFFICE COPY



B/SPL. BLD. / 441(B) / 2002
Planning Permit No.
APPROVED
SUBJECT TO THE CONDITIONS IN
THIS OFFICE LETTER.
Date 12.11.03
FOR MEMBER SECRETARY
CENTRAL METROPOLITAN
DEVELOPMENT AUTHORITY
SECTION ON XX
CHENNAI-600 008.



PLAN OF SEPTIC TANK

K. SELVAM, BE AME, C Eng (I), A.I.V.,
Consulting Civil Engineer Chartered Engineer
Approved Valuer & Licensed Surveyor
Class-1, Reg No. 601/2002 2003
Door No. 11, 17, Thiruvalluvar Salai,
Mogappair East, Chennai - 600 050.
Phone: 6562050
SIGN OF LICENCED SURVEYOR

DESIGN OF SEPTIC TANK
[TWO UP FLOW FILTERS]

ASSUME	50 M ²	1 DWELLING UNIT
TOTAL PLINTH AREA		940.61
NO. OF DWELLING UNIT		TOTAL PLINTH AREA 50 M ²

CMLA (B) / No.	18.81 / 18.81
C. No.	B3/32946/2003 DWELLING
NO. OF DWELLING	19 NOS.
NO. OF USERS	19 X 5 = 95 NOS.
RATE OF MATTER SUPPLY	95 LPH/DAY
FLOW OF SEWAGE/DAY	140 X 150 = 14250
DETENTION PERIOD	18 NOS.
TANK CAPACITY	14250 X 18 = 142500

THE TANK IS TO BE CLOSED EVERY YEAR SO
SLUDGE STORAGE CAPACITY AT THE RATE OF = 95 X 15
15LTS/PERSON/YEAR = 1425 + 1425 = 1425
= 15675
WITH PROVISION FOR FUTURE EXPENSION. LET
THE TOTAL TANK CAPACITY BE = 15000

SEPTIC TANK HAVING THE CAPACITY OF = 16 M²
DEPTH OF LIQUID IS = 2M
THE RATIO OF LENGTH TO WIDTH OF TANK BE = 3 TIMES
LENGTH X BREADTH = 8 M²
BREADTH OF TANK = 2M
LENGTH OF TANK = 4M
FREE BOARD OF TANK = 0.4 M
TOTAL DEPTH OF TANK = 2.0 + 0.4 = 2.4 M
PROVIDE SEPTIC TANK OF SIZE = 4M X 2M X 2M

UP FLOW FILTER
DISCHARGE OF 200 PERSONS = 30000 LTS
VOLUME = 200 X 0.45 = 15200 LTS (9.0 M³)
DEPTH = 1.10 - 0.30 = 0.80 M

AREA REQUIRED = 9.0 / 0.8 = 11.25 M²
SIZE OF FINAL EFFLUENT TANK = 1.125 X 2.0 X 1.10
UP FLOW FILTER [2 NOS.] EACH OF SIZE = 0.58 X 2.0 X 0.8.