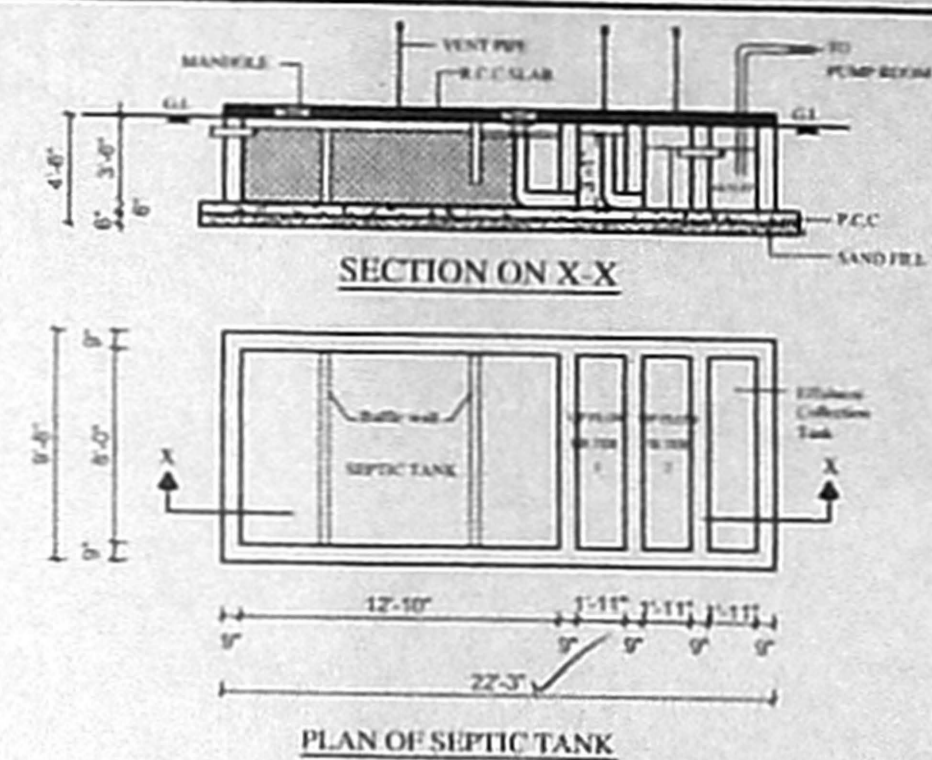
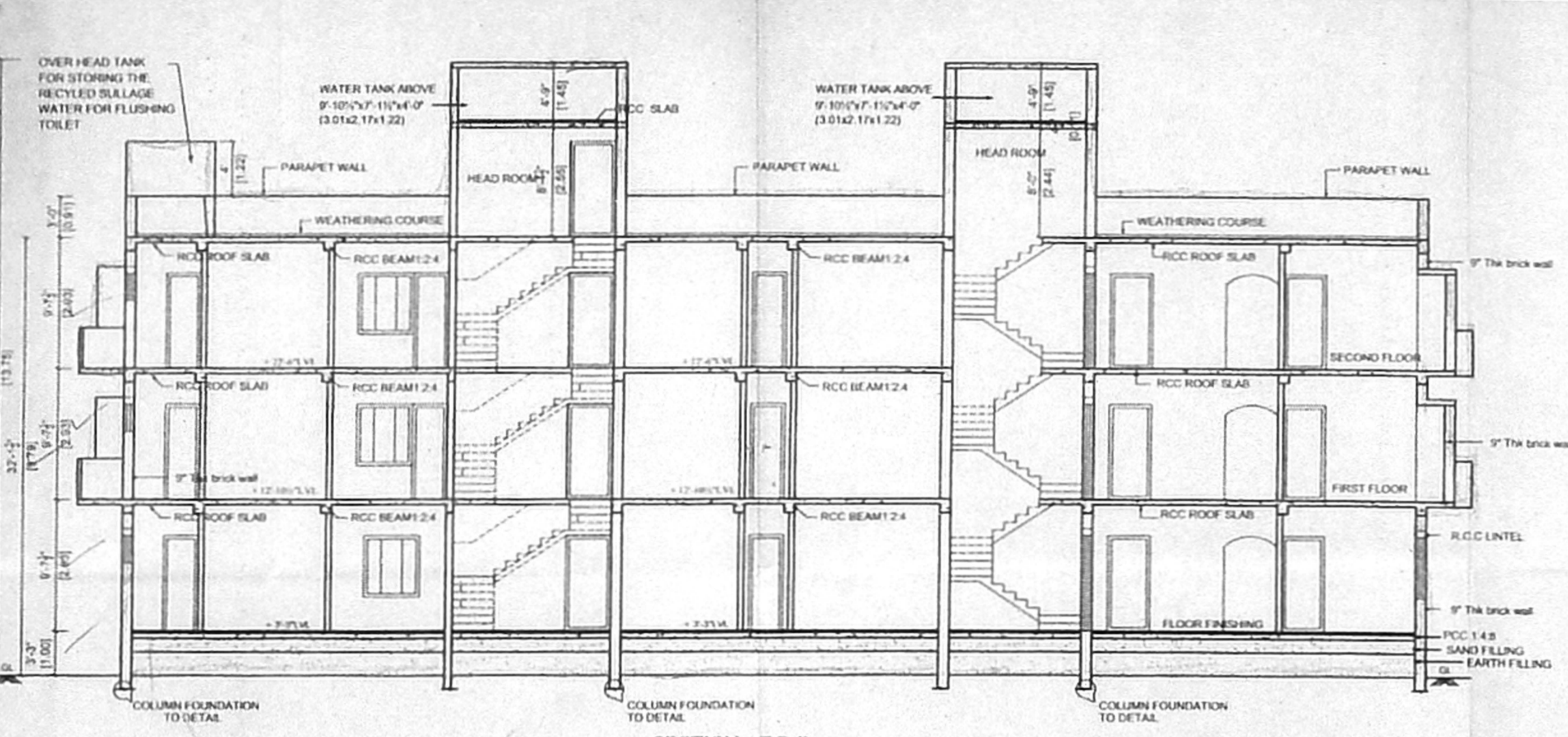
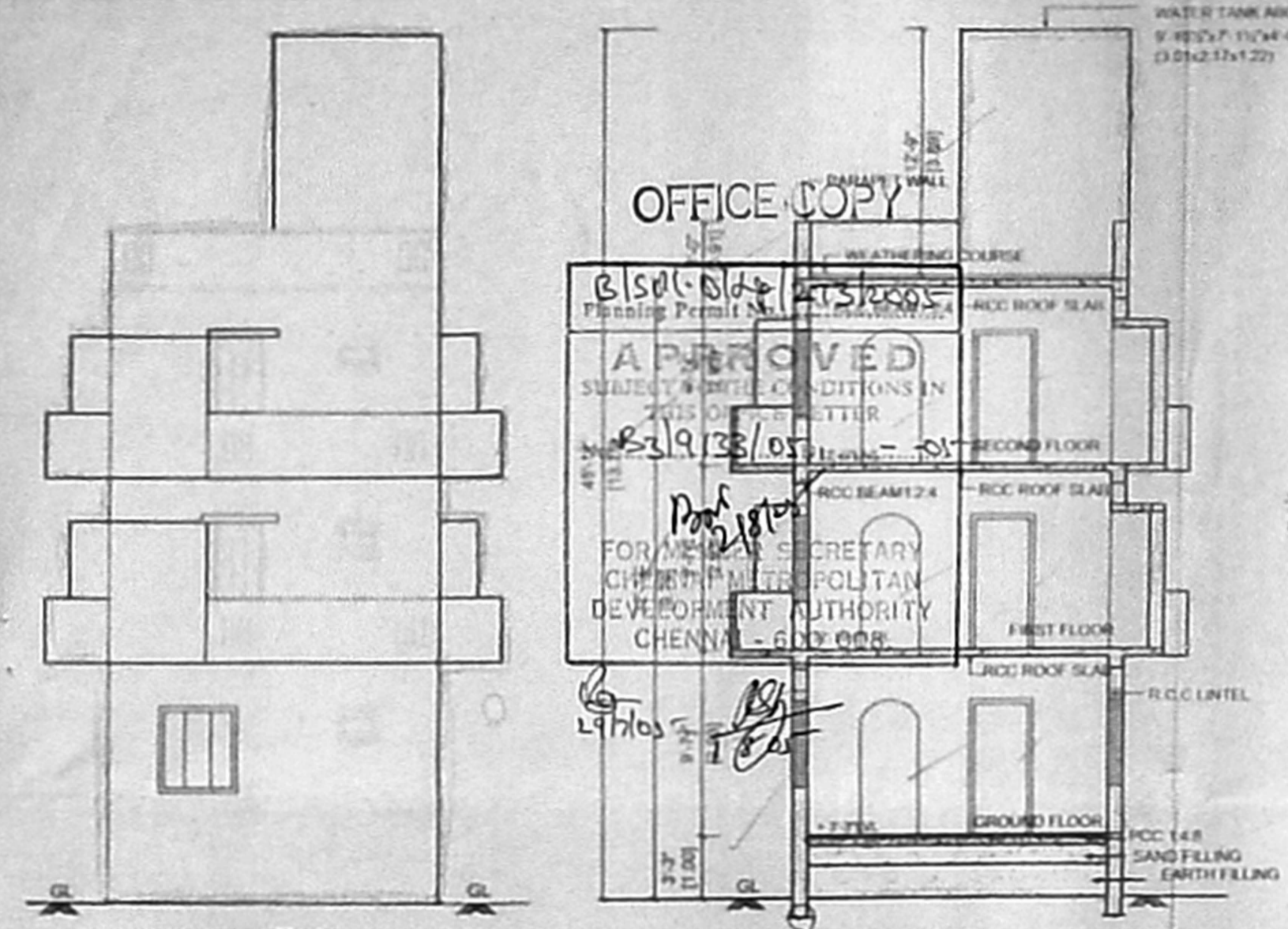


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 DEVELOPMENT AUTHORITY
 CHENNAI - 600 006



DESIGN OF SEPTIC TANK WITH UPFLOW FILTER FOR 9 DWELLING UNITS FOR PREMISES AT PLOT NO. 99, DOOR NO. 15, RAMASWAMY MUDALIAR SCHOOL ROAD, AMBATTUR, T.S. NO : 89, BLOCK NO : 16, OLD SURVEY NO: 5943 AMBATTUR VILLAGE, CHENNAI - 53.

ASSUMING 5 PERSONS PER FLAT - 9 x 5 = 45
 NO. OF PERSONS - 45
 ASSUMING 2 FIXTURES PER FLAT - 9 x 2 = 18 UNITS
 PER HOUR DISCHARGE - 18 x 6 = 108 LPM
 SEPTIC TANK
 SURFACE AREA NEEDED 108 x 0.92 = 99.0 SAY 10 sqm

VOLUME OF SEDIMENTATION - 10 x 0.5m = 5.00 cu.m
 ASSUMING 0.3m DEPTH
 FOR DIGESTION - 45 x 0.03 = 1.44 cu.m
 FOR SLUDGE STORAGE - 0.002 x 365 x 45 = 3.29 cu.m
 FREE BOARD FOR SLUDGE - 108 / 30 = 3.60 cu.m
 SAY 11.00 cu.m
 DEPTH = VOLUME / AREA = 11.00 / 1.0 = 11.0m

STORAGE - 9
 SIZE OF SEPTIC TANK = 4.00 x 2.50 x 1.1m
 UPFLOW FILTER
 LIQUID DEPTH OF SEPTIC TANK = 1.1m
 VOLUME = 45 x 0.045 = 2.025 cu.m
 UPFLOW FILTER DEPTH = 1.1 - 0.3 = 0.80 cu.m
 ALLOWING 0.3m FREE BOARD
 AREA NEEDED = 2.25 SAY 2.50 sq.m

SIZE OF UPFLOW FILTER = 2.50 x 1.20m
 UPFLOW FILTER NO.1 = 2.50 x 0.60 x 0.96m
 UPFLOW FILTER NO.2 = 2.50 x 0.60 x 0.96m

PLAN SHOWING THE PROPOSED RESIDENTIAL FLATS AT PLOT No. 99, DOOR No. 35, RAMASWAMY MUDALIAR SCHOOL ROAD, AMBATTUR, T.S. NO: 89, BLOCK No. 16, AMBATTUR, CHENNAI. OLD SURVEY NO. 5943.

FOR M. N. ARUN
 P.A. HOLDER OF ISSAC PARANJITHI

SPECIFICATION
 FOUNDATION: RCC 1:2:4 Column footing laid over concrete slab and PCC 1:4:8
 RCC WORK: RCC Column, Beams, Roof Slab, Lintel, & Sunshade are in CC 1:2:4
 BRICKWORK: B.W in Basement & Superstructure are in CM 1:5
 JOINERY: Joineries are made with Steel (or) first class teak wood.
 WEATHERING COURSE: 9" x 9" Pressed Tiles laid over the Brick Jelly with Lime mortar and sloped with water proofing compound.
 PLASTERING: Ceiling plastering with CM 1:3 Inside & Outside walls are plastering with CM 1:4.
 PAINTING: White washing with two coats over the one coat of primer for Ceiling. Colour washing with two coats over one coat of primer for all Walls.

NOTE: All 6" thick walls area r.c.c wall

AREA STATEMENT	SQ.FT	SQM
PLOT EXTEND AS PER DOCUMENT (LEAST)	4800.00	446.10
PLOT EXTEND AS PER PATTI	4852.00	450.93
GROUND FLOOR AREA	1602.95	149.11
FIRST FLOOR AREA	2052.21	190.90
SECOND FLOOR PLAN	2052.21	190.90
TOTAL BUILDUP AREA	5707.37	530.92
PLOT COVERAGE	42.75%	
F.S.1	1.189	

JOINERY DETAILS		
MD DOOR	3'3" x 7'0"	(0.96x2.13)
D DOOR	3'0" x 7'0"	(0.91x2.13)
D1 DOOR	2'6" x 7'0"	(0.76x2.13)
W WINDOW	4'0" x 4'6"	(1.22x1.37)
W1 WINDOW	3'0" x 4'6"	(0.91x1.37)
KW KITCHEN WINDOW	3'0" x 3'0"	(0.91x0.91)
V VENTILATOR	2'0" x 2'0"	(0.61x0.61)

COLOUR INDEX	
PROPOSED	[Color Box]
BOUNDARY	[Color Box]
ROAD	[Color Box]

SCALE : 1" = 8'-0" OR 1:100
 DATE : 24.12.04
 DRAWN : C.VEDA

OWNER
 M. N. ARUN

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