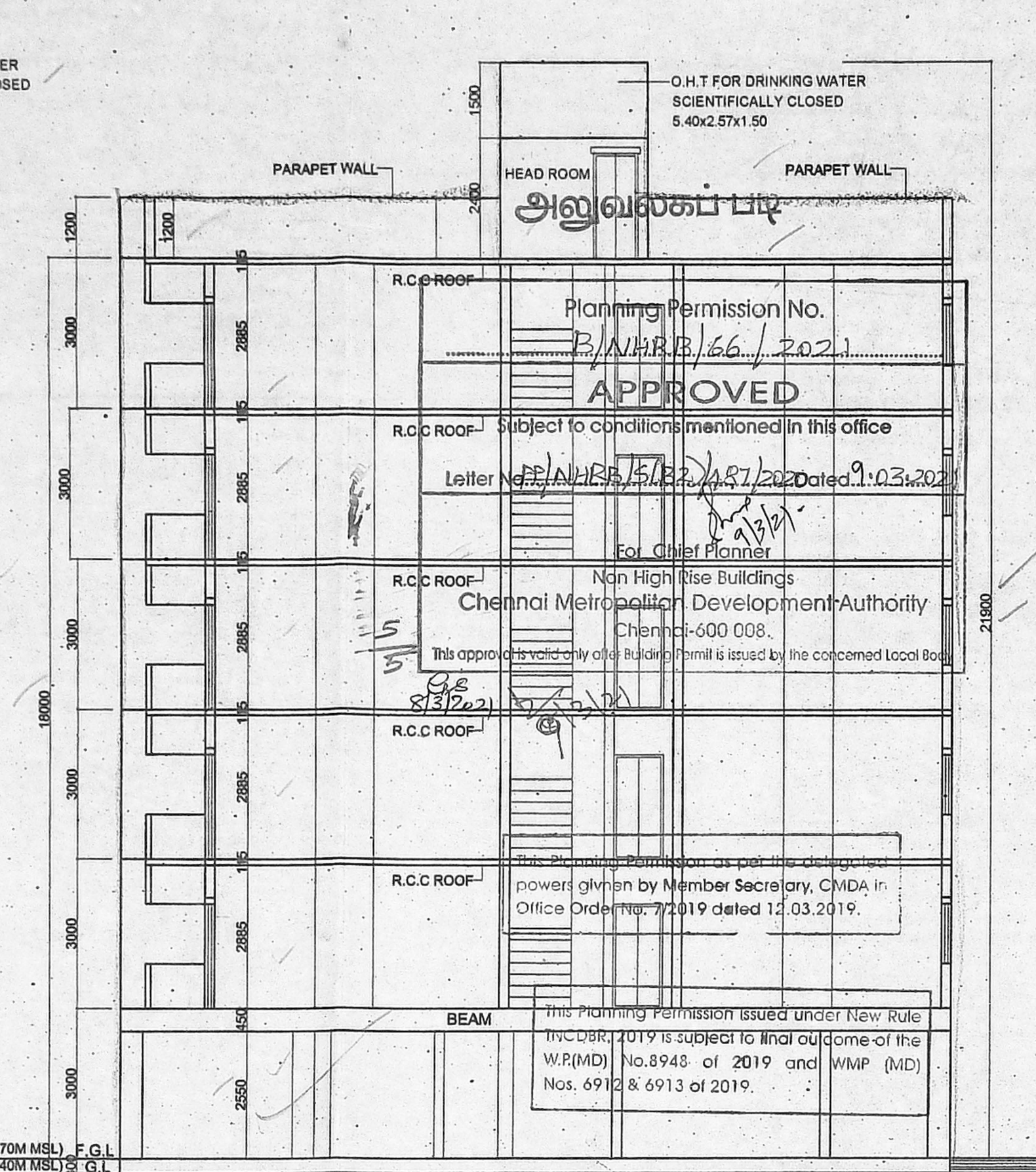
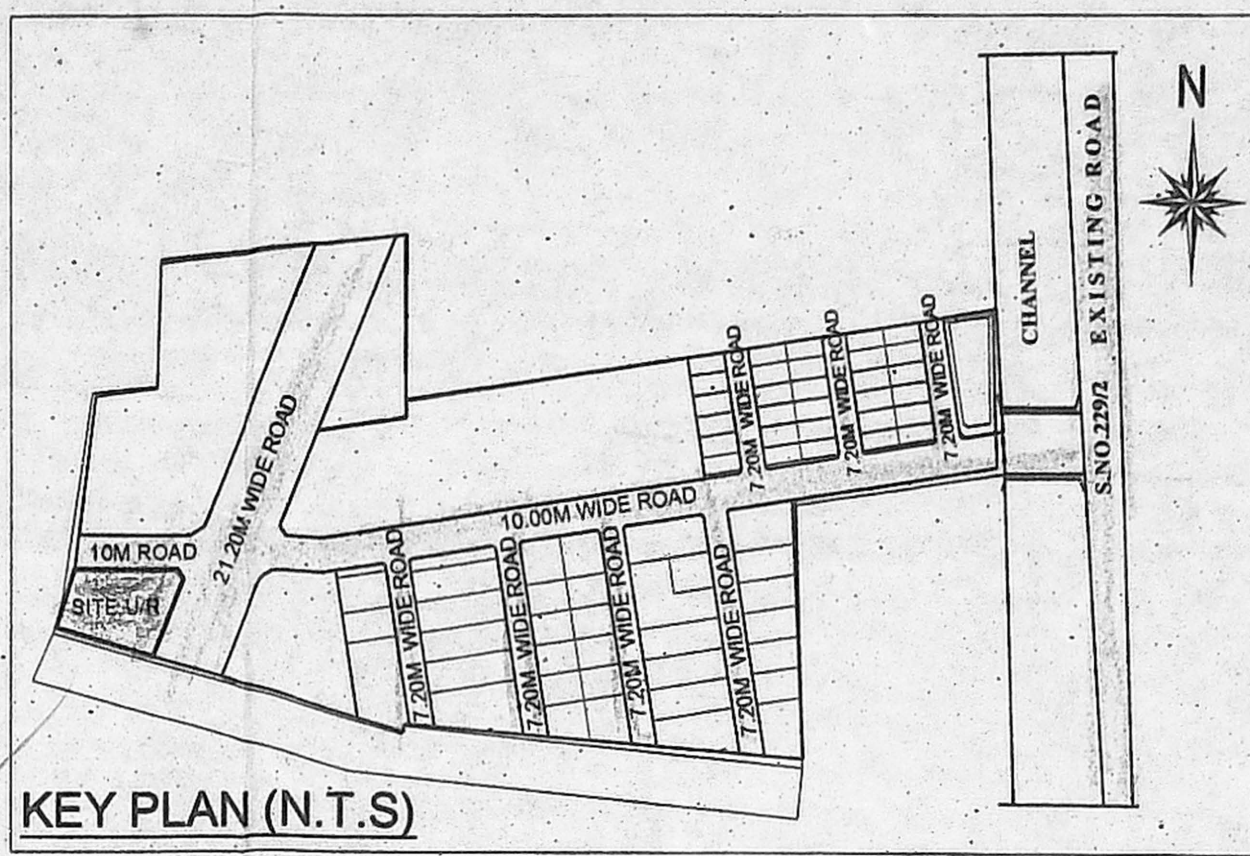


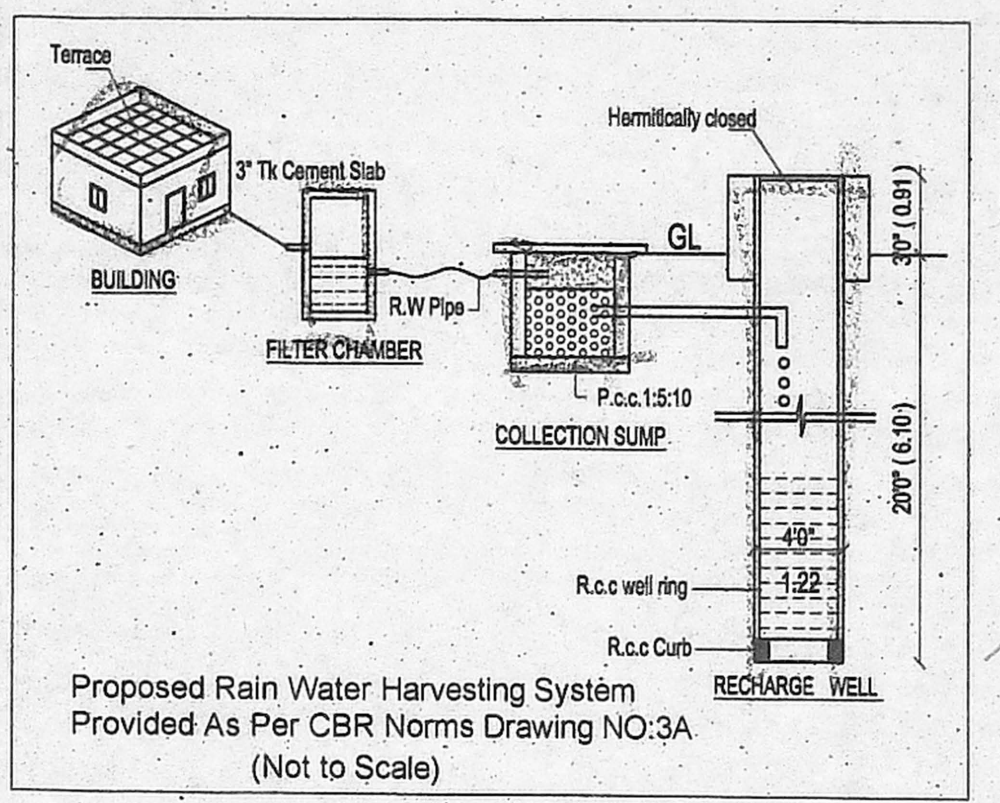
SOUTH SIDE ELEVATION



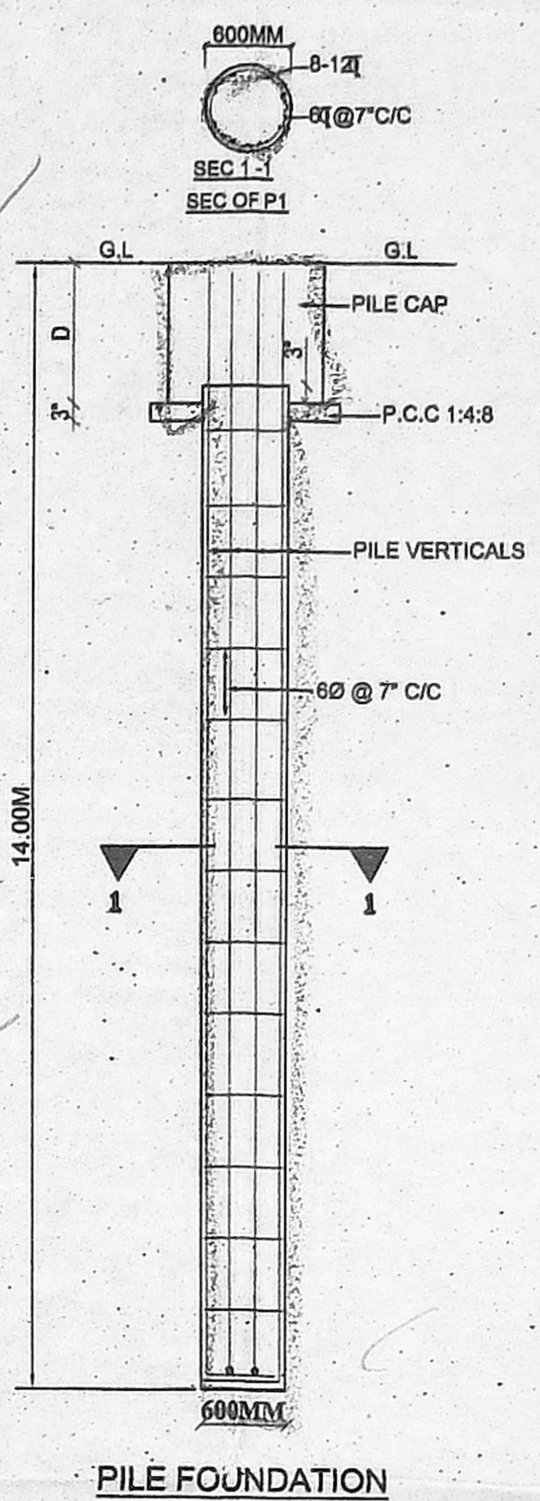
SECTION ON A-A



KEY PLAN (N.T.S)



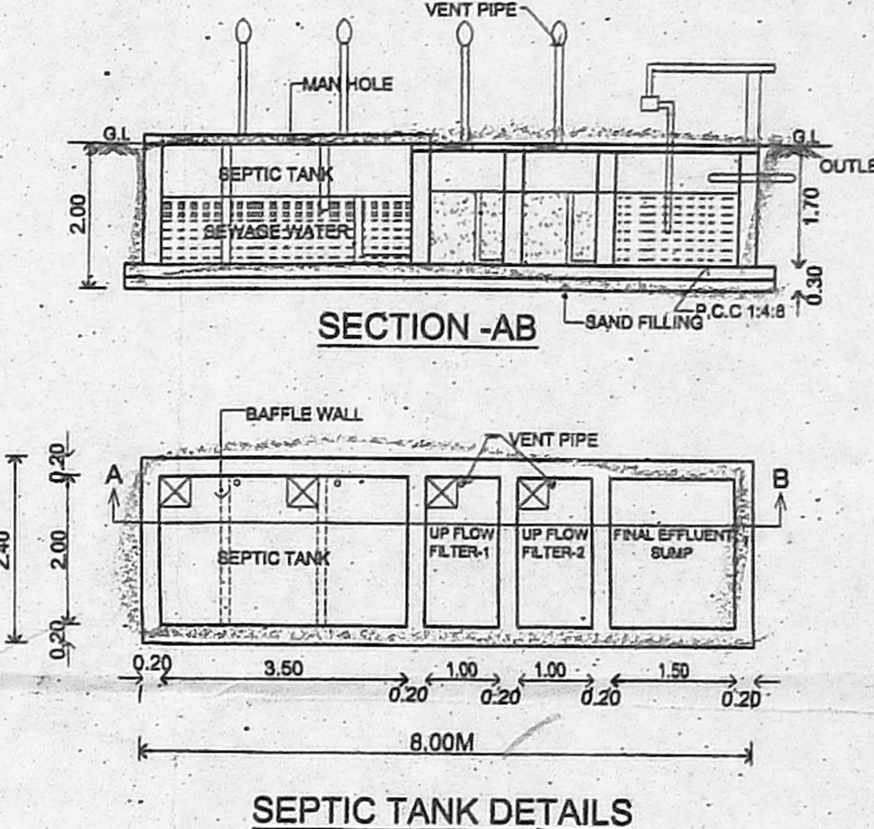
Proposed Rain Water Harvesting System Provided As Per CBR Norms Drawing NO.3A (Not to Scale)



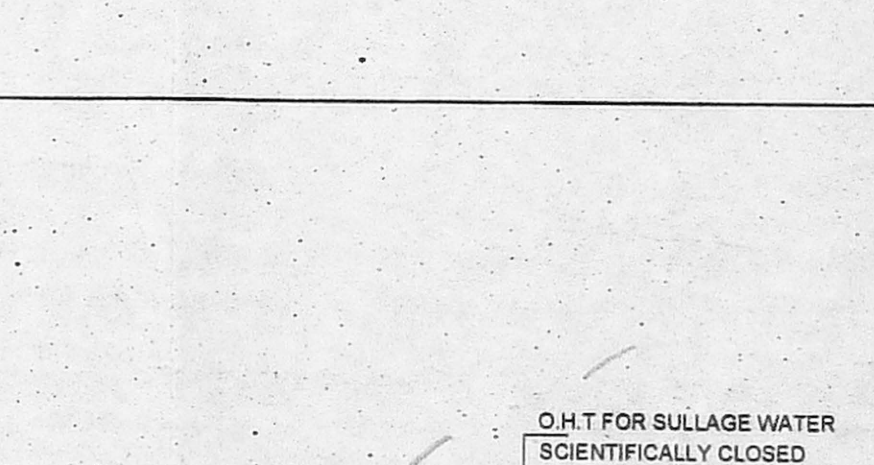
PILE FOUNDATION

DESIGN OF SEPTIC TANK WITH UPFLOW FILTER FOR 15 DWELLINGS

NO. OF FLATS OR DWELLINGS :- 15
 ASSUMING 5 PERSONS FOR FLATS :- 15X5=75
 NO. OF PERSONS :- 75
 NO OF USERS ASSUMING 2 FIXTURES PER FLAT :- 75X2=150 UNITS.
 PER HOUR DISCHARGE :- 150X8=900 LPM.
SEPTIC TANK
 SURFACE AREA NEEDED :- 900X0.92/10 = 82.80 SAY 9.00M
 VOLUME OF SEDIMENTATION:
 ASSUMING 0.30M DEPTH FOR DIGESTION 9X0.3M = 2.70M³
 1000X0.032 = 3.20M³
 FOR SLUDGE STORAGE 0.0002X365X80 = 5.84M³
 FREE BOARD FOR SLUDGE 5X0.3M = 1.50M³
 DEPTH = $\frac{\text{VOLUME}}{\text{AREA}} = \frac{7}{1.40M} = 5$
SIZE OF SEPTIC TANK 8.00X2.40X2.00
 LIQUID DEPTH OF SEPTIC TANK = 1.70M
 UPFLOW FILTER DEPTH ALLOWING 0.32M FREE BOARD 1.4 - 0.3 = 1.10M
 AREA NEEDED = 1.10 = 1.0M
 SIZE OF UPFLOW FILTER 1.50X1.50
 UPFLOW NO.-1 = 0.91X1.50X1.38M
 UPFLOW NO.-2 = 0.91X1.50X1.38M



SECTION AB



SEPTIC TANK DETAILS

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 5 FLOORS (18.0M Height) RESIDENTIAL BUILDING WITH 15 DWELLING UNITS AT PLOT RESERVED FOR SPECIAL BUILDING IN THE CMDA APPROVED LAYOUT P.P.D./L.O NO: 20/2014 IN OLD S.NO: 276/11G(P1) & 276/11H(P1), NEW S.NO: 276/11B5 OF OTTIYABAKKAM VILLAGE, TAMBARAM TALUK CHENGALPATTU DISTRICT, CHENNAI - 600 126. ST. THOMAS MOUNT PANCHAYAT UNION. SCALE 1:100.

SPECIFICATIONS:

FOUNDATION:
 R.C.C. FOUNDATION OVER A BED OF 1:4:8 SAND FILLING
 R.C. COLUMN FOUNDATION AND THE (PLINTH) BEAMS ON 1:4:8 SAND CUSHIONS.
 P.C.C 1:4:8 SAND CUSHIONS.
 SUPER STRUCTURE:
 100mm THK. INTERNAL & 200mm THK. EXTERNAL PLASTER IN C.M 1:5
 R.C.C. WORK:
 R.C. COLUMNS, BEAMS, SLABS, LINTELS, AND SILLINGS TO BE IN 1:2:4 MIX
 ADEQUATELY REINFORCED.
 FLOORING:
 CERAMIC FLOORING.
 WEATHERING COURSE:
 ONE SET OF BRICK JALLY LIME CONCRETE MIXED WITH COPPER OIL
 POINTED AND LAID TO SLOPE.
 NOTE:
 UNDER GROUND SUMP AND OVER HEAD WATER TANK ARE SCIENTIFICALLY CLOSED.

SCHEDULE OF JOINERY

SYMBOL	DESCRIPTION	DIMENSION
MD	Main Door	1100x2100
D1	Door	900x2100
D2	Door	800x2100
FD	French Door	2450x2100
W1	Window	1500x1200
W2	Window	1200x1200
V	Ventilator	650x650

LEGEND

PROPOSED [Symbol]
 BOUNDARY [Symbol]
 ROAD [Symbol]

AREA STATEMENT

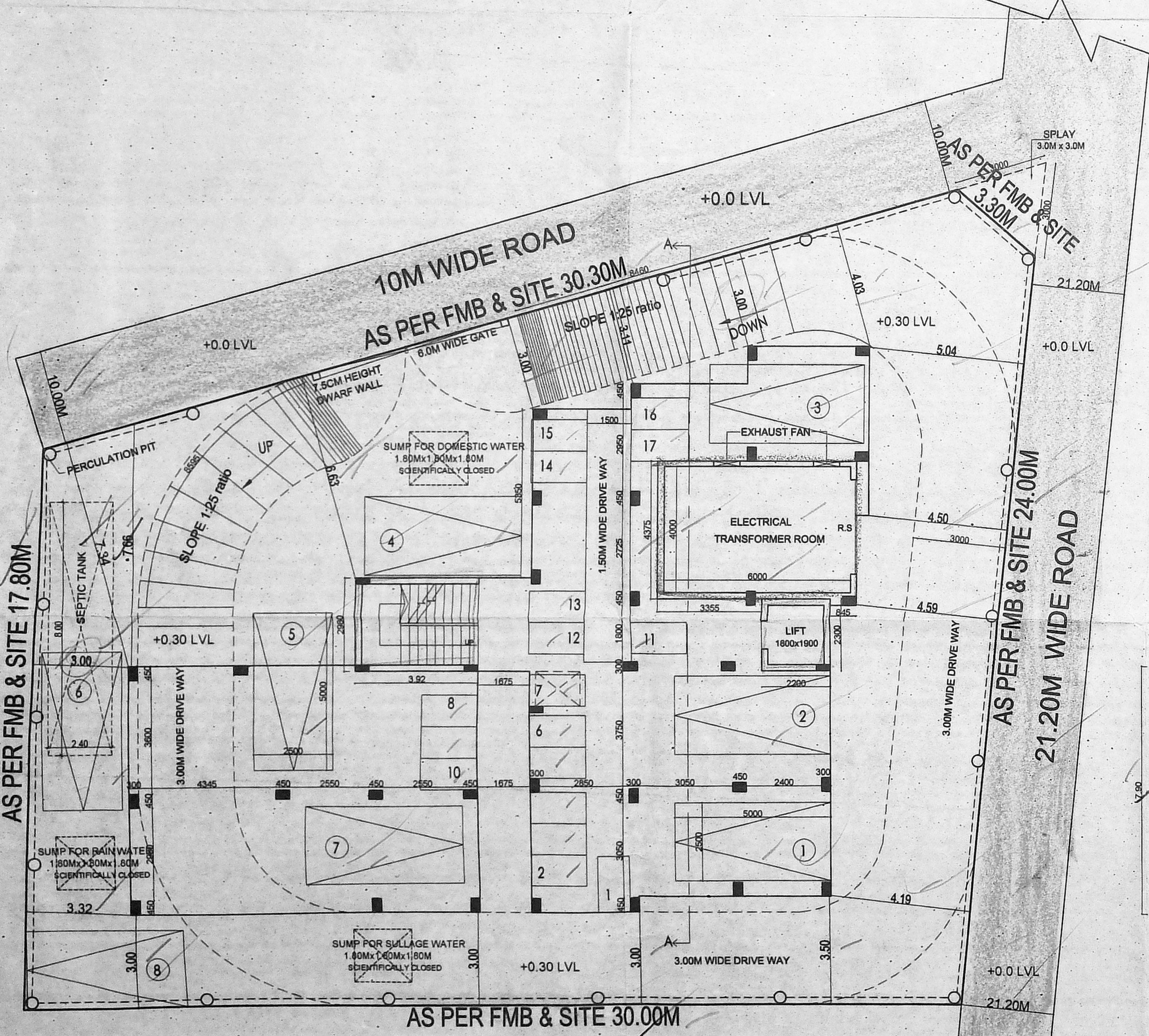
PLOT EXTENT :-
 AS PER PATTI : 685.00 SQ.M.
 AS PER DOCUMENT : 1056.22 SQ.M.
 STILT FLOOR : 28.01 SQ.M.
 FIRST FLOOR : 272.94 SQ.M.
 SECOND FLOOR : 272.94 SQ.M.
 THIRD FLOOR : 272.94 SQ.M.
 FOURTH FLOOR : 272.94 SQ.M.
 FIFTH FLOOR : 272.94 SQ.M.
 TOTAL : 1392.71 SQ.M.
 F.S.I : 2.033

CAR PARKING PROVIDED - 8 NOS.
 TWO WHEELER PROVIDED - 17 NOS.

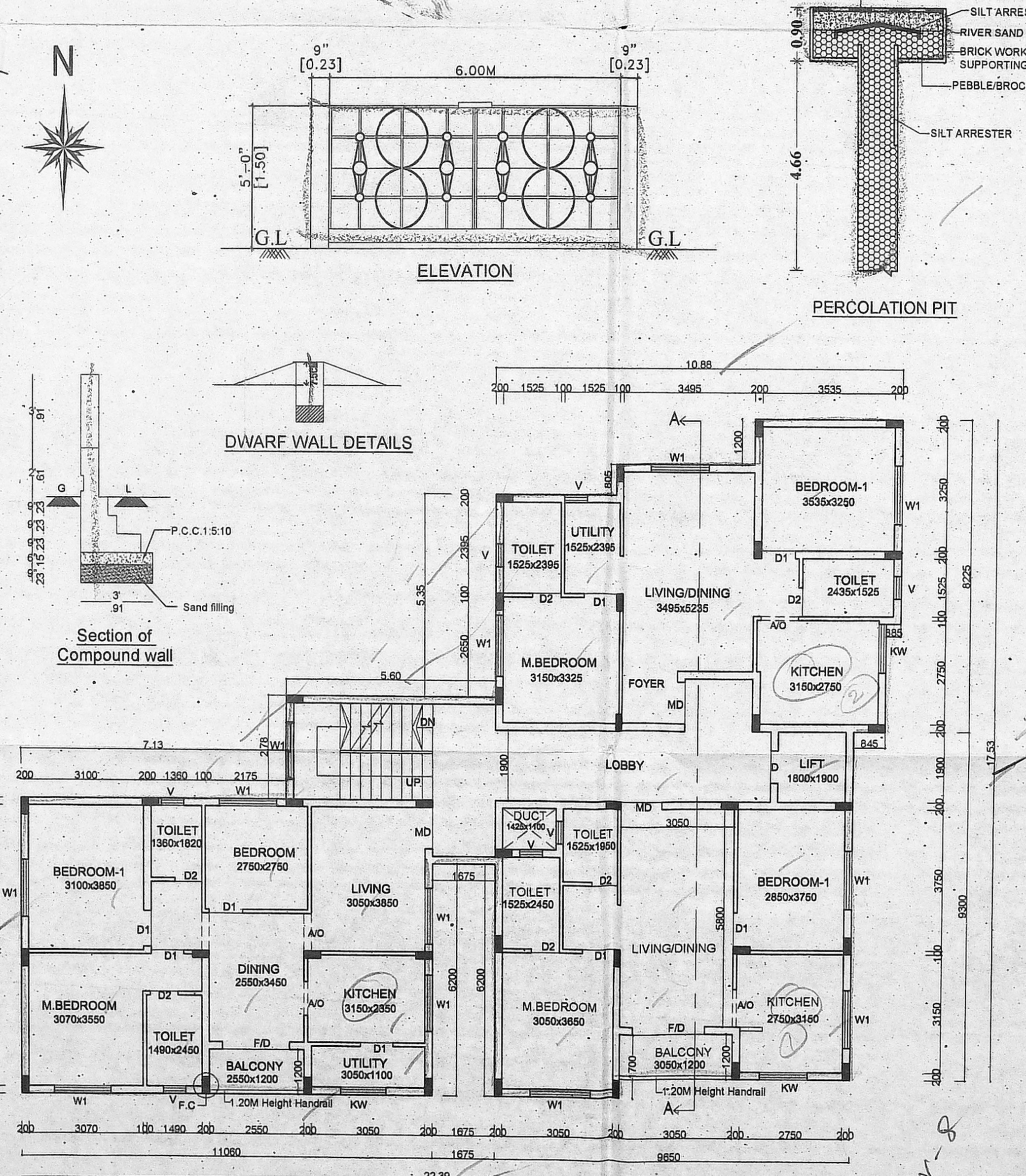
For BOLL ZED RIA PROPERTIES PVT LTD
 AUTHORIZED SIGNATORY
 SIGNATURE OF THE OWNER / GPA

STRUCTURAL ENGINEER
 R. CHANDRASEKARAN, S.E.I.(CIVIL)
 Registered Structural Engineer (Grade-III)
 Reg. No. SC-040180001
 No. 15/108, South West Road,
 Tambaram - 17, Chennai - 600 225
 Email: r.chandrasekaran@gmail.com

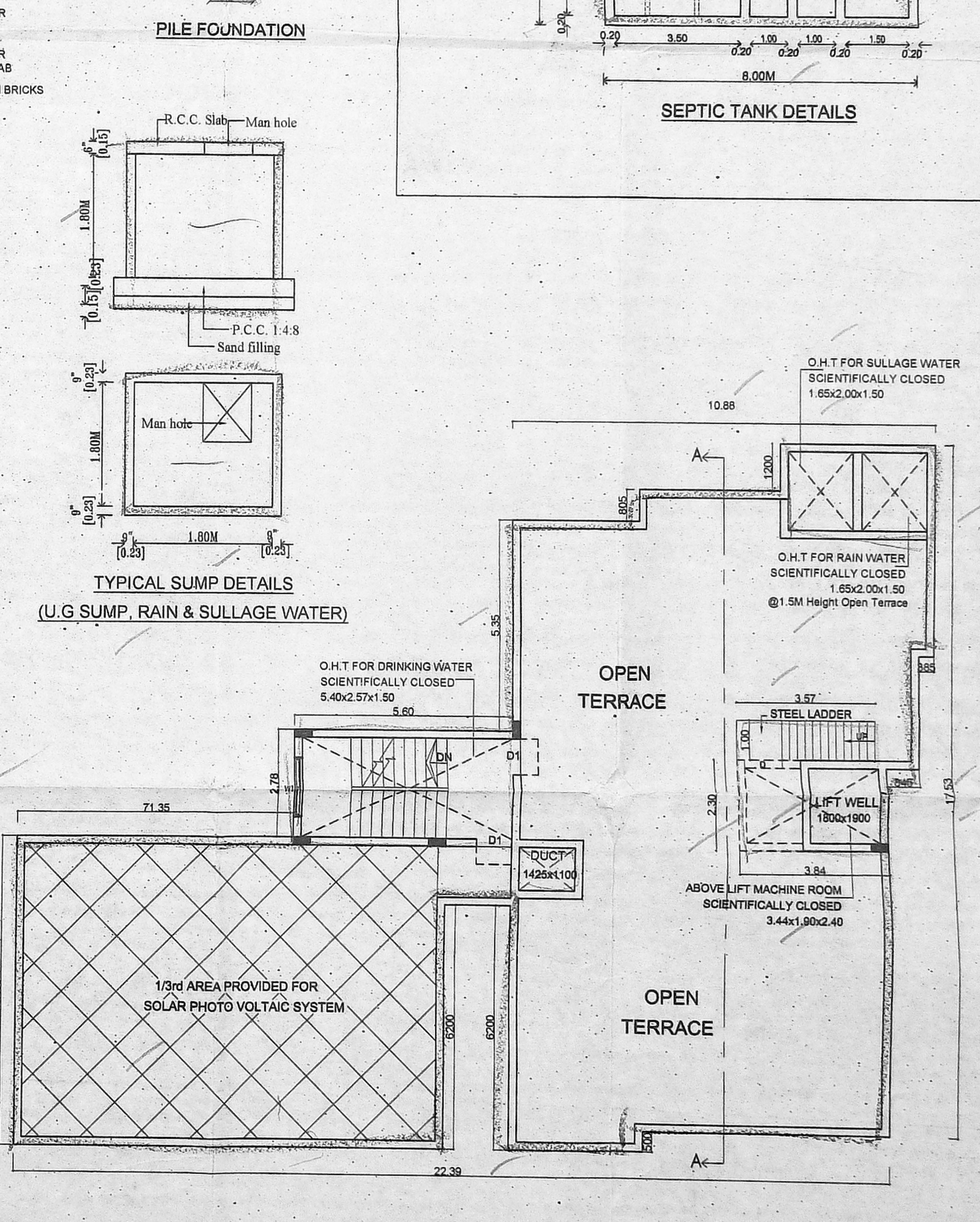
REGISTERED ENGINEER
 R. CHANDRASEKARAN, S.E.I.(CIVIL)
 Structural Engineer, Approved Valuer No. 24274,
 F.I. Lic. Nos. 119/02/005 & SE/GR.III/119/019
 Palayamkottai, Chennai-600114,
 9444992018, Email: rchandrasekaran@gmail.com



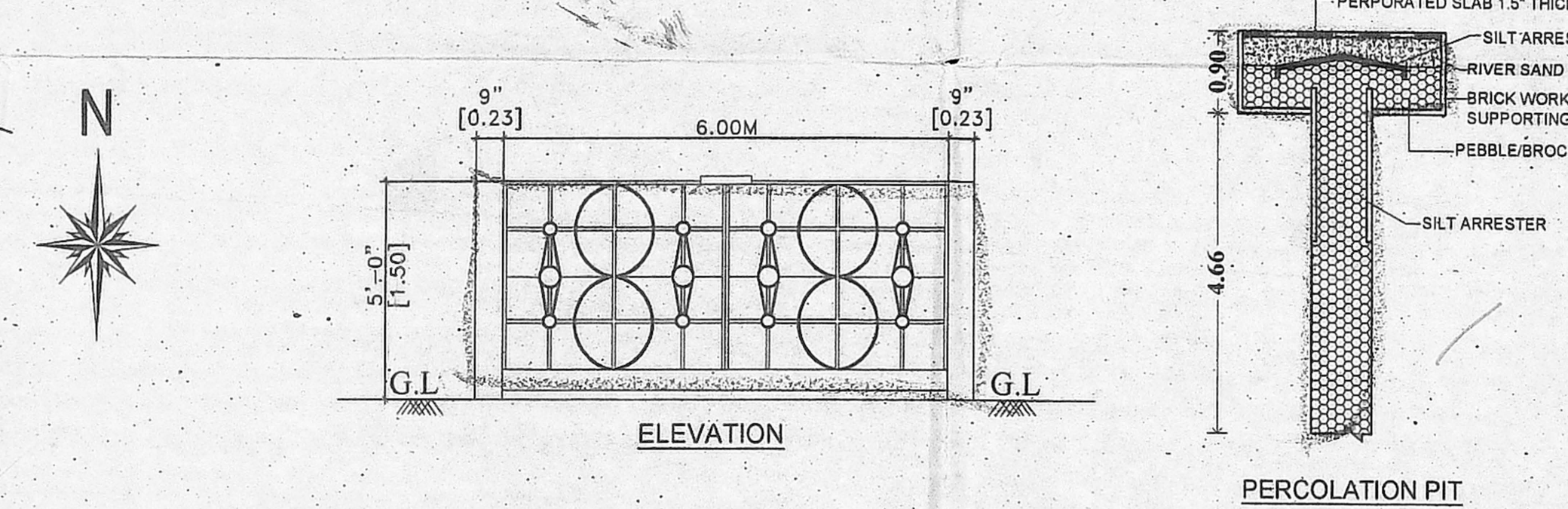
SITE CUM STILT FLOOR PLAN



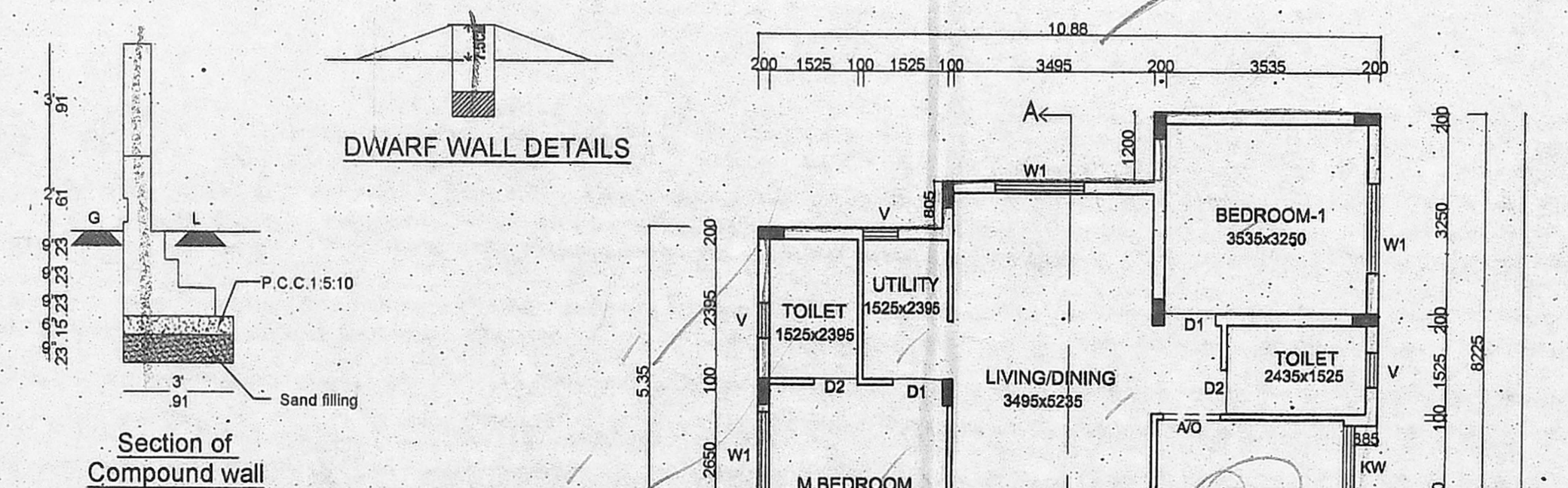
TYPICAL FLOOR PLAN (1st TO 5th FLOOR PLAN)



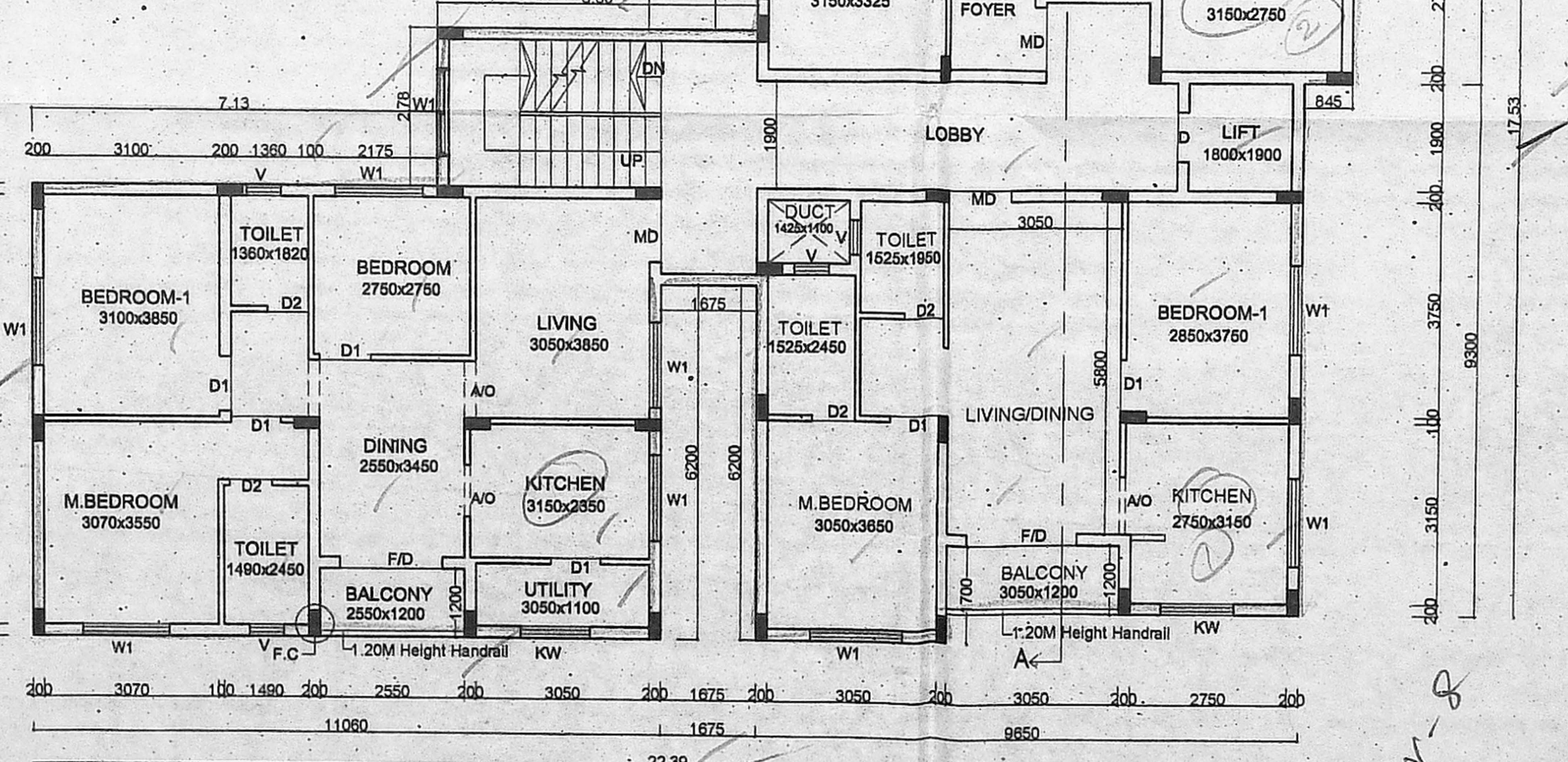
TERRACE FLOOR PLAN



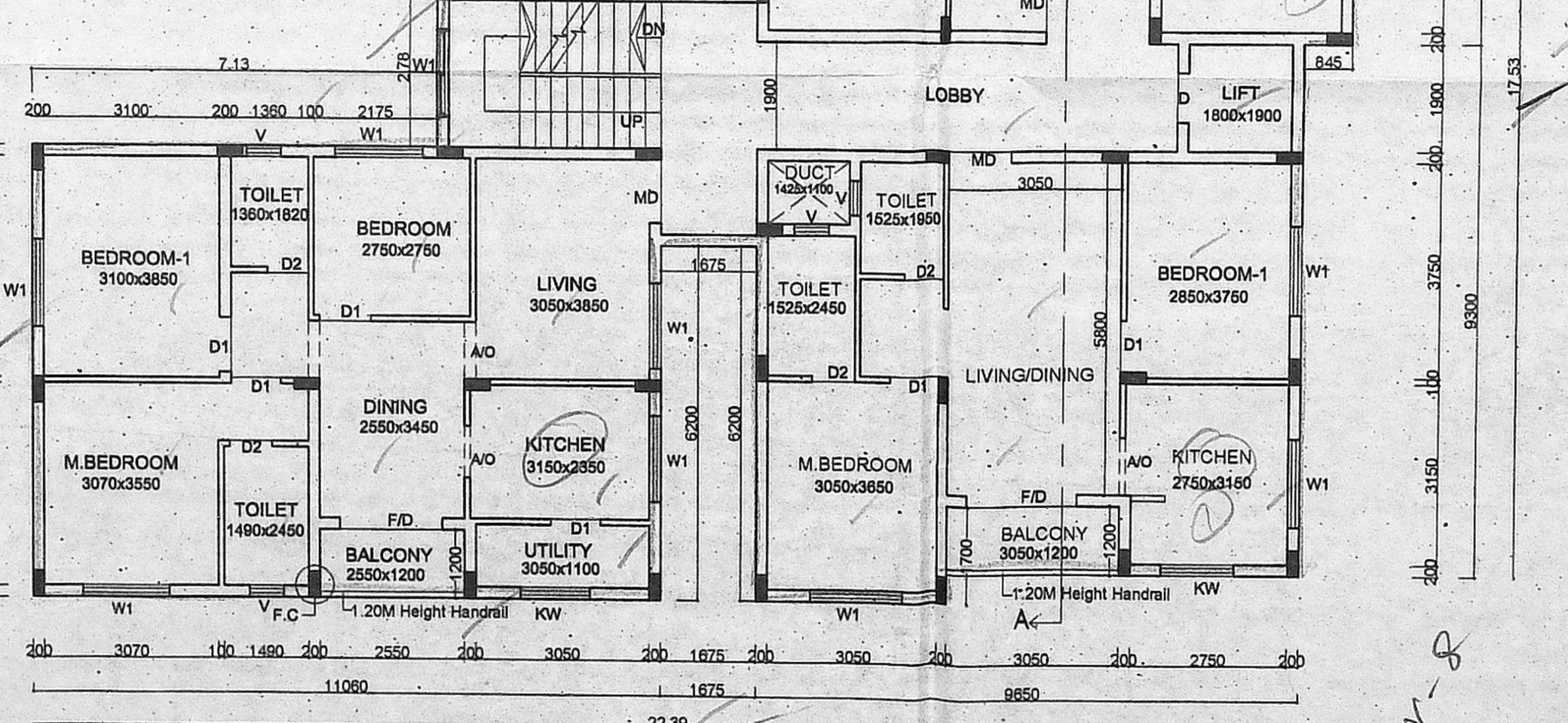
PERCOLATION PIT



TYPICAL SUMP DETAILS (U.G. SUMP, RAIN & SULLAGE WATER)



DWARF WALL DETAILS



Section of Compound wall