

DESIGN OF SEPTIC TANK WITH UP FLOW FILTERS

OFFICE : 27 NOS
 NO OF USERS : 27 x 5 = 135 PERSONS
 RATE OF WATER SUPPLY : 150 LPH/DAT
 THEN FLOW OF SEWAGE PER DAY : 135x150 = 20250 LITS
 DETENTION PERIOD IS : 18 HRS
 TANK CAPACITY : 20250x18/24 = 15200 LITS
 SO SLUDGE STORAGE CAPACITY AT THE RATE OF 15 LITS PER PERSON PER YEAR : 22500 x 360 = 22860
 WITH PROVISION FOR FUTURE EXPANSION : SAY 23000MM

LET THE TOTAL TANK CAPACITY BE 22860 LITS SAY 23000 LITS

SEPTIC TANK HAVING CAPACITY OF : SAY 23000MM

DEPTH OF LIQUID AS : 2.0M
 PLAN AREA OF THE TANK 2/0.2 : 10.50M
 THE RATIO OF LENGTH TO WIDTH OF TANK TO BE : 3
 LENGTH X BREADTH X 3 : 4.25M
 BREADTH OF TANK : 1.0M
 LENGTH OF TANK : 2.5M
 FREE BOARD OF THE TANK : 0.2M
 TOTAL DEPTH OF THE TANK (2.5+0.2) : 2.7M
 DISCHARGE FOR 100 PERSONS : 15000 LITS
 VOLUME 100 X 0.45 : 1.5M
 DEPTH 1.10 X 0.30 : 0.80M
 PLAN AREA REQUIRED 10.5/0.8 : 3.6M
 SIZE OF FINAL EFFLUENT SUMP : 2.50 X 2.0 X 2.0
 UPFLOW FILTER NO:1 : 1.40 X 1.0 X 2.0
 UPFLOW FILTER NO:2 : 1.40 X 1.0 X 2.0

SCHEDULE OF JOINERY:

TYPE	DETAIL	WIDTH	HEIGHT
M.D	C.W. PANELLED DOOR	990	2135
D	-DO-	915	2135
D1	-DO-	702	2135
W	C.W. GLAZED WINDOW	1372	1727
W1	-DO+	1220	1372
W2	-DO-	1220	1372
O	OPENING	915	2135
V	C.W. GLAZED VENTILATOR	915	915

SPECIFICATION:

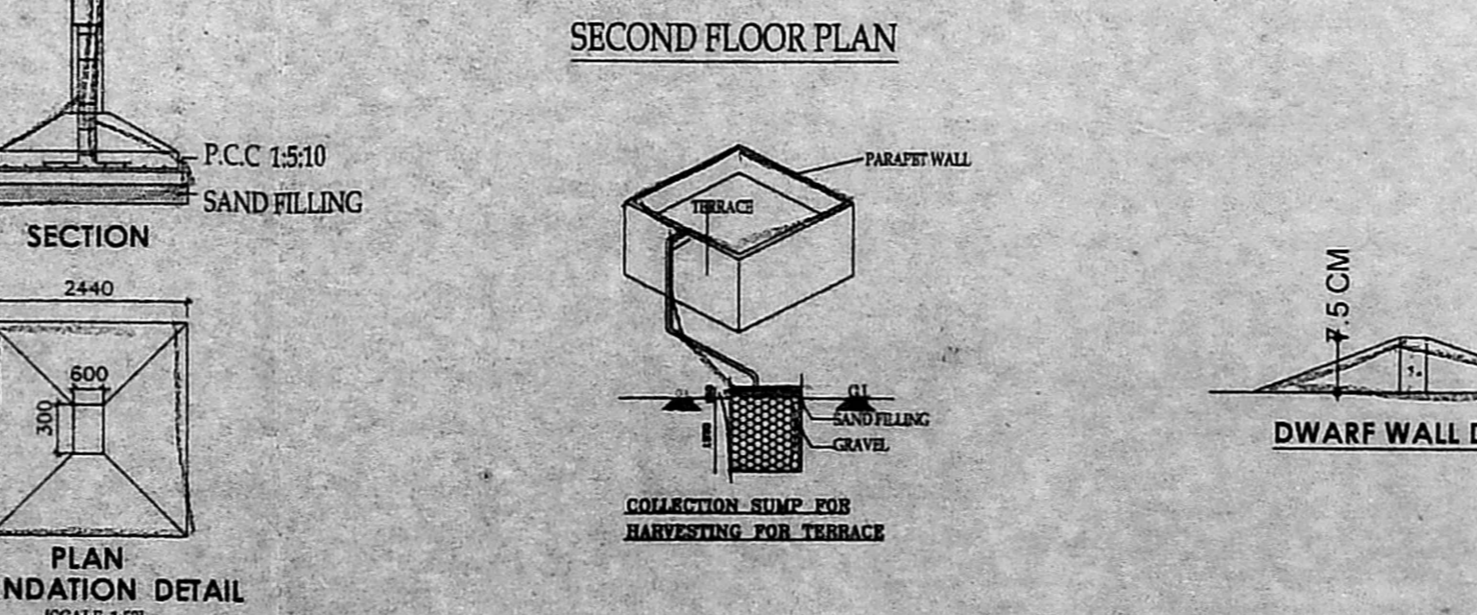
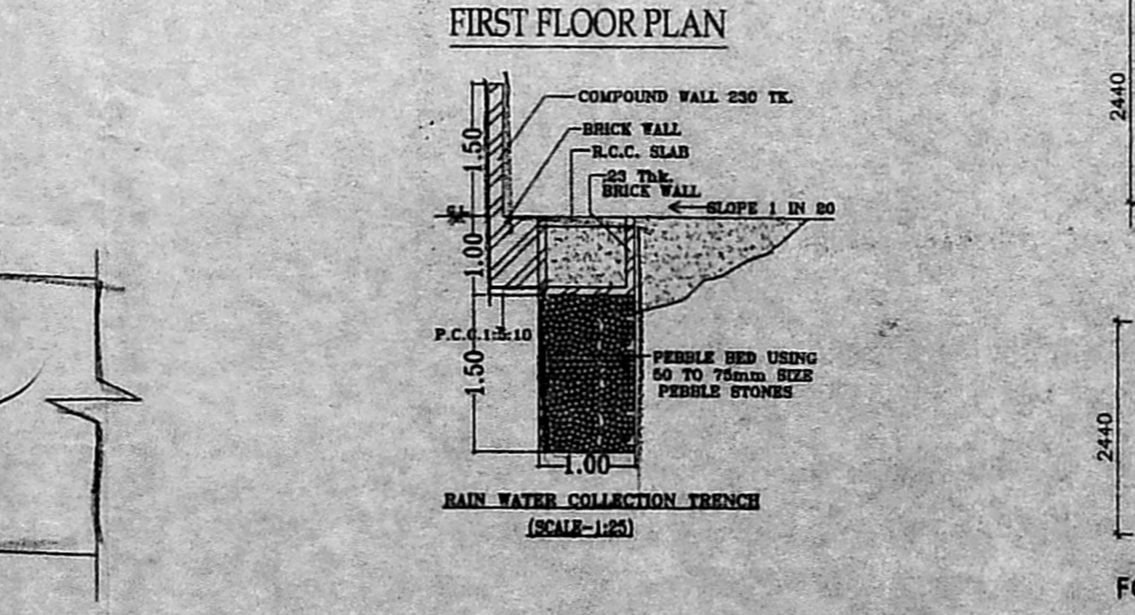
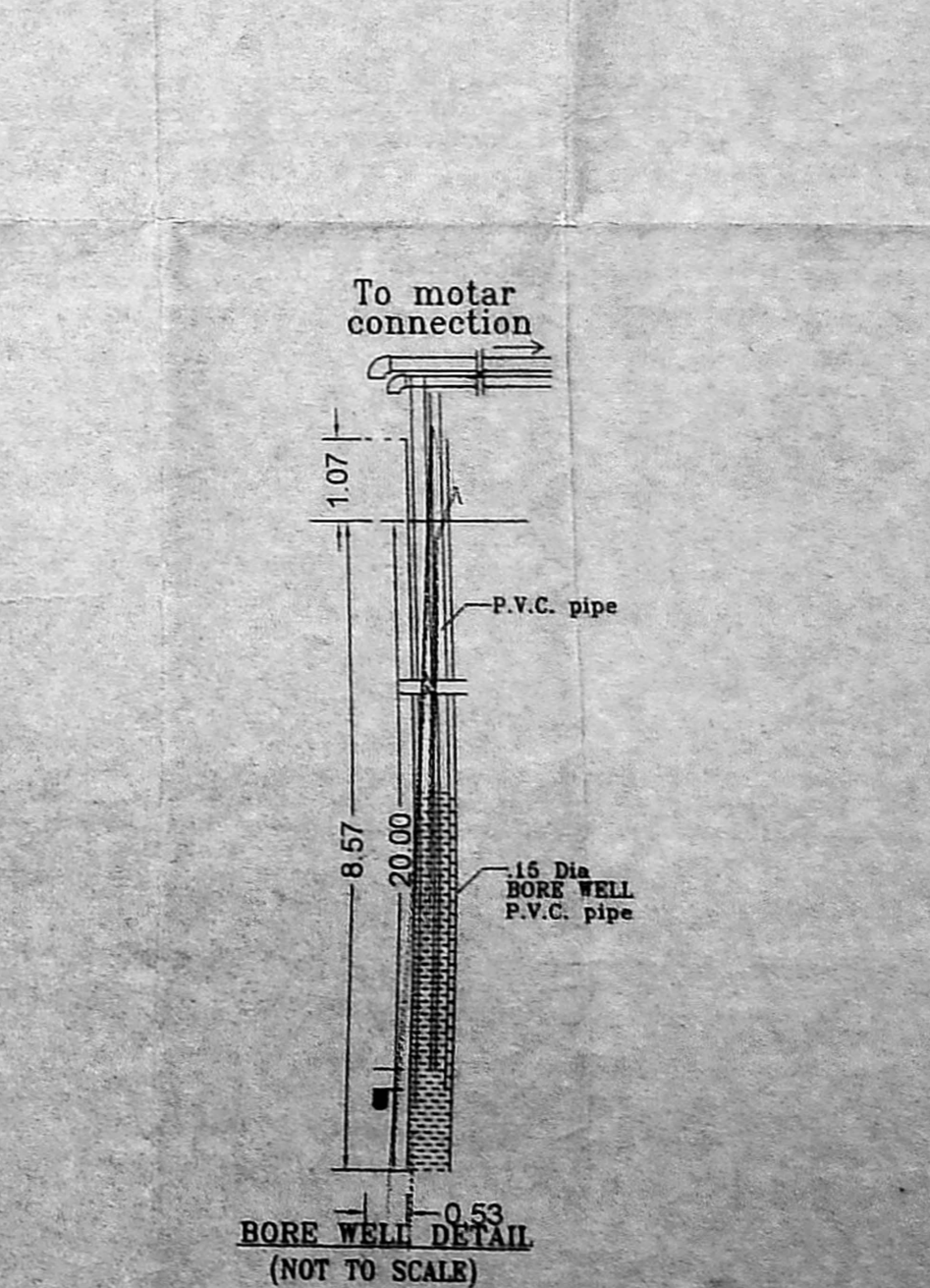
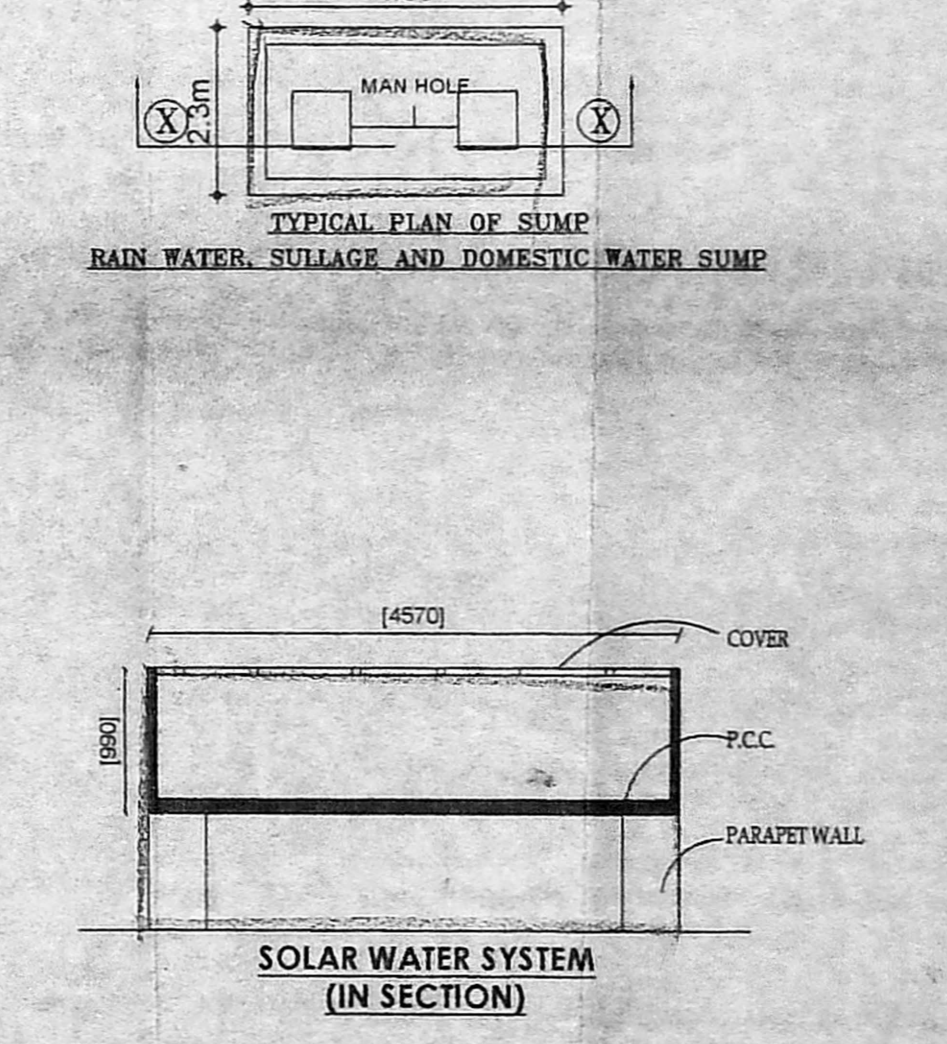
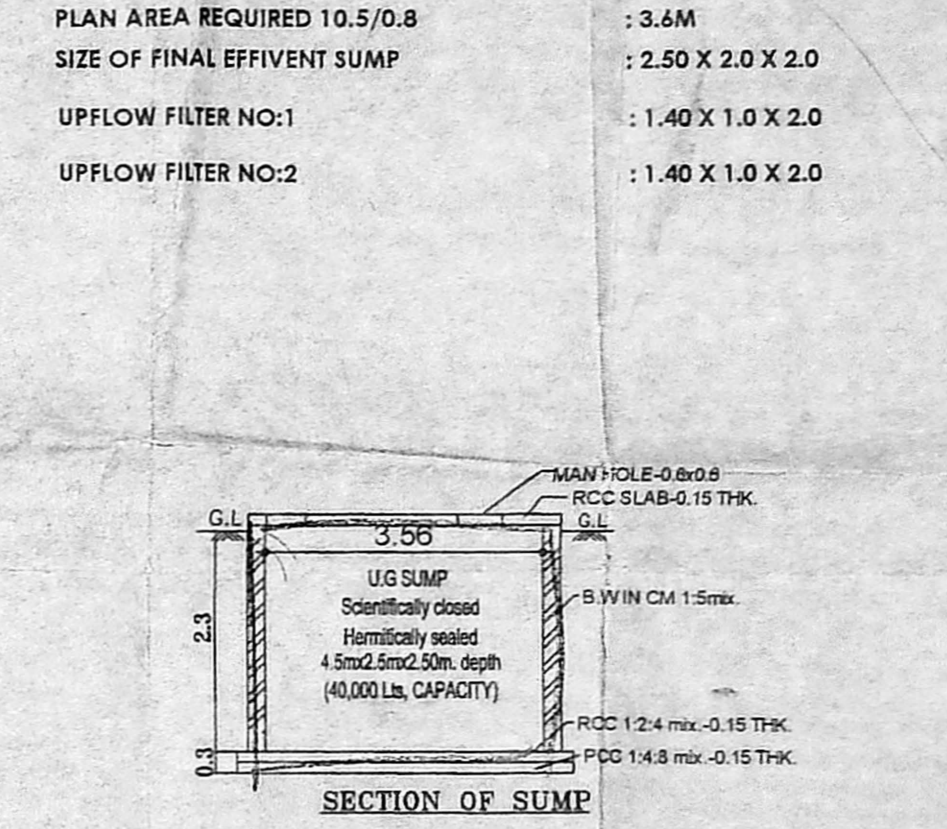
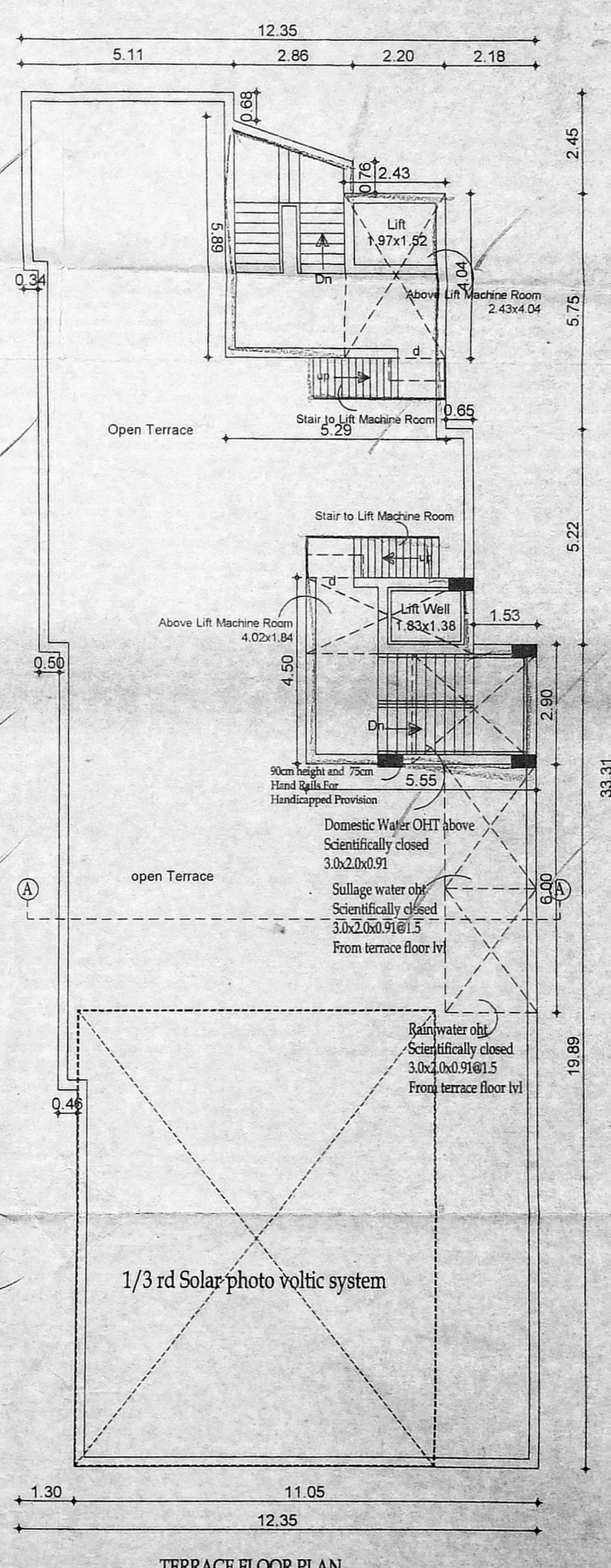
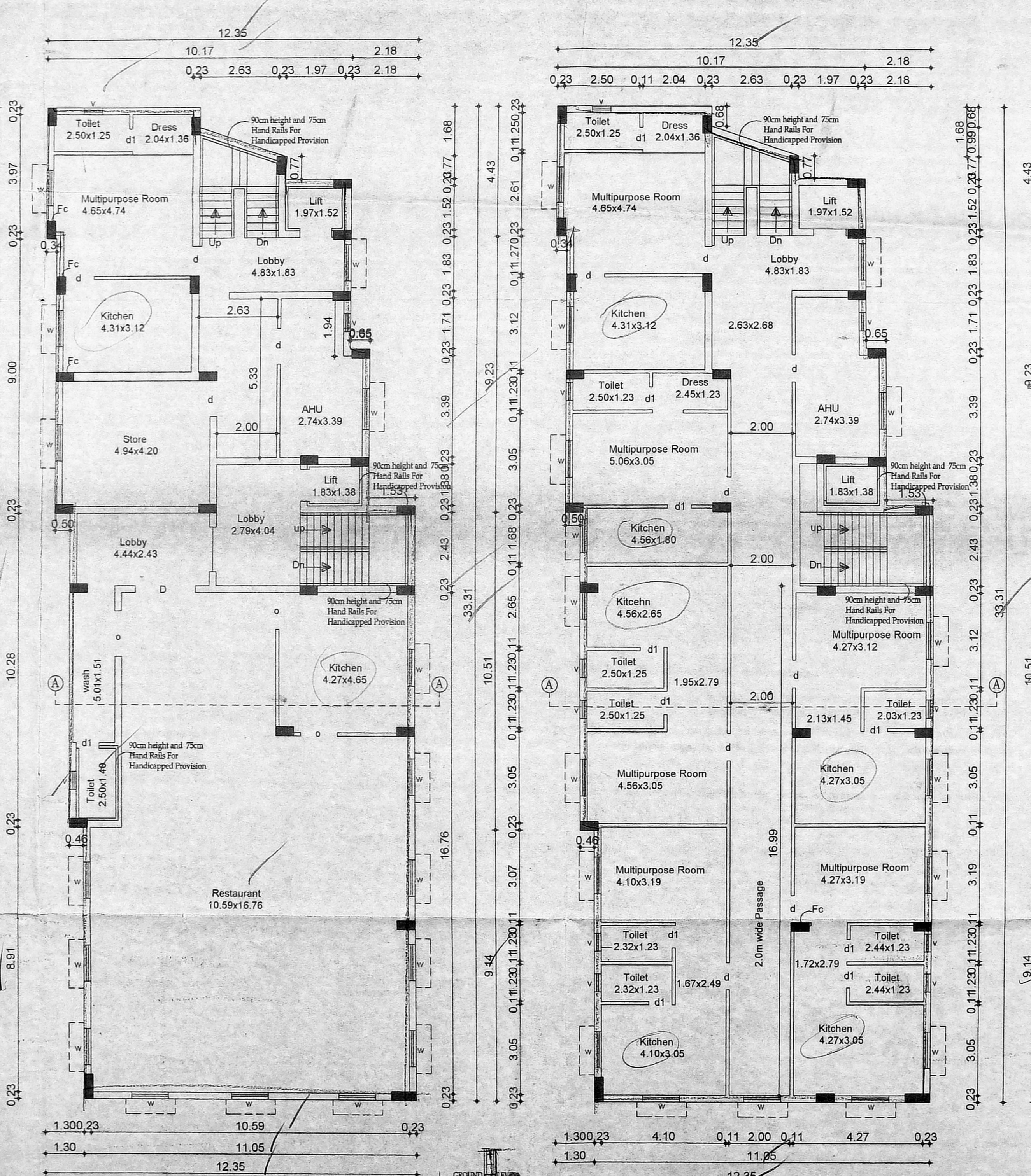
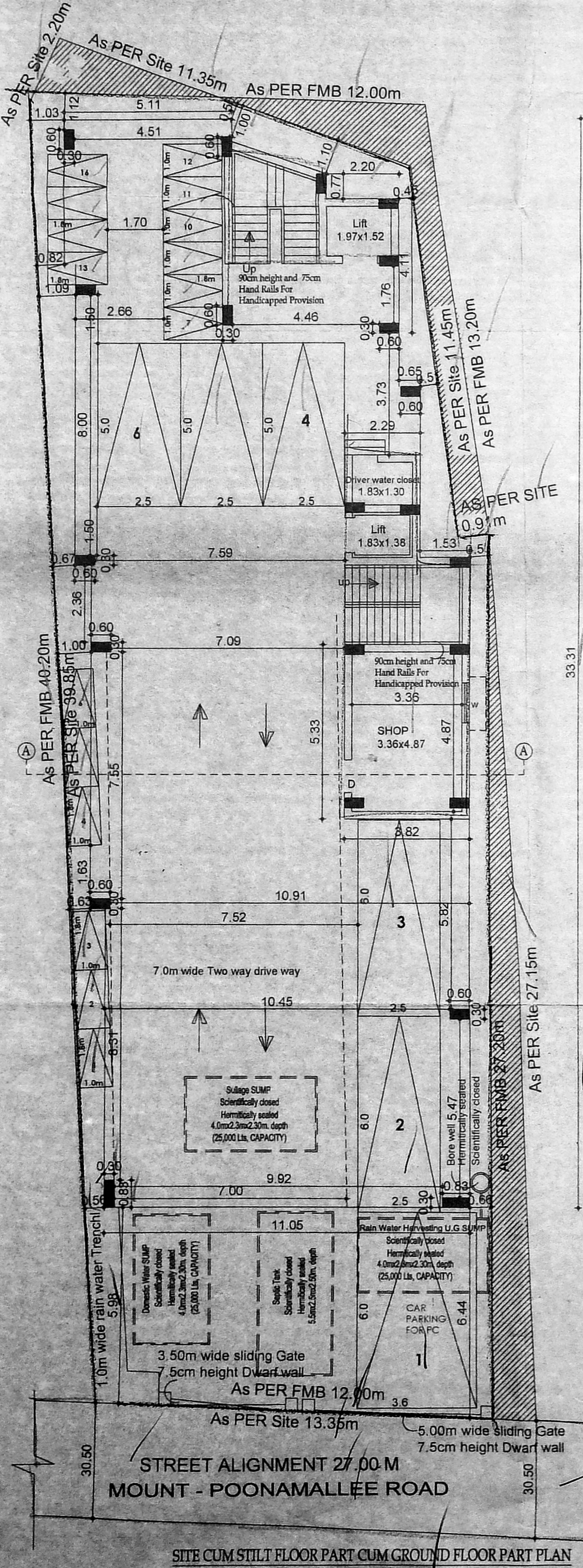
FOUNDATION : R.C.C COLUMN FOOTINGS
 BRICK WORK : C.M 1:6 FOR SUPER STRUCTURE
 PLASTERING : C.M 1:5 FOR WALLS & 1:3 FOR CEILING
 FLOORING : MOSAIC FLOORING
 CEMENT PAINT : 2 COAT FOR WALLS & 1 EXTRA COAT FOR CEILING
 R.C.C : 1:2:4 FOR SLABS & LINTELS
 WOOD WORK : ALL WOOD WORKS IN BEST QUALITY TIMBER
 WEATHERING : BUJELLY LIME MORTAR OVER ROOF COURSE
 SLAB ONE LAYER OF COUNTRY TILES

AREA STATEMENT

GROUND FLOOR PART	F.S.I COMMERCIAL	F.S.I RESIDENTIAL
	20.38 Sq. m	-
FIRST FLOOR	253.88 Sq. m	80.38 Sq. m
SECOND FLOOR	-	334.02 Sq. m
TOTAL FLOOR AREA	274.26 Sq. M	414.40 Sq. m

F.S.I 1418

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESTAURANT CUM SERVICE APARTMENTS BUILDING AT DOOR NO: 2A, NEW DOOR NO:7, MOUNT POONAMALLEE ROAD, NANDAMBAKKAM, CHENNAI - 600089 IN S.NO: 51/1/B (AS PER PATT) OF NANDAMBAKKAM VILLAGE, GREATER CHENNAI CORPORATION



zone : XII

DIV : 158

COLOUR INDEX

PROPOSED []

BOUNDARY []

ROAD []

SIGNATURE OF OWNER

S. Santh

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LICENSED SURVEYOR