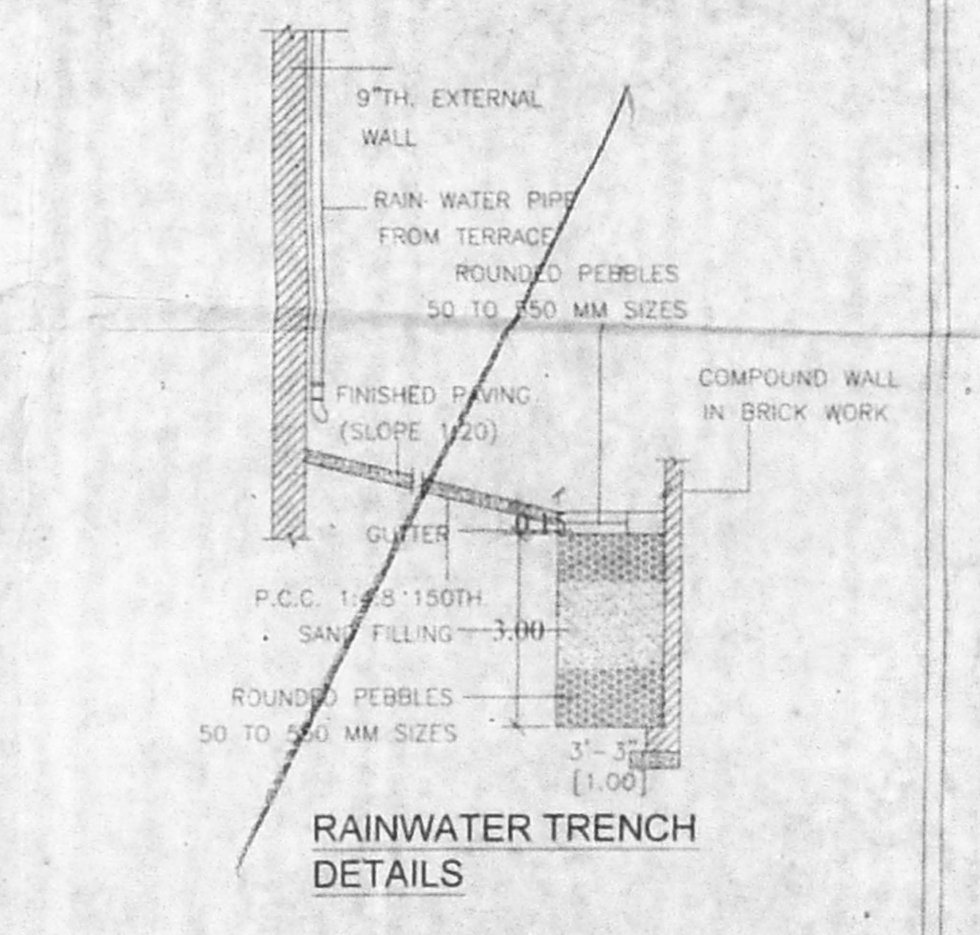
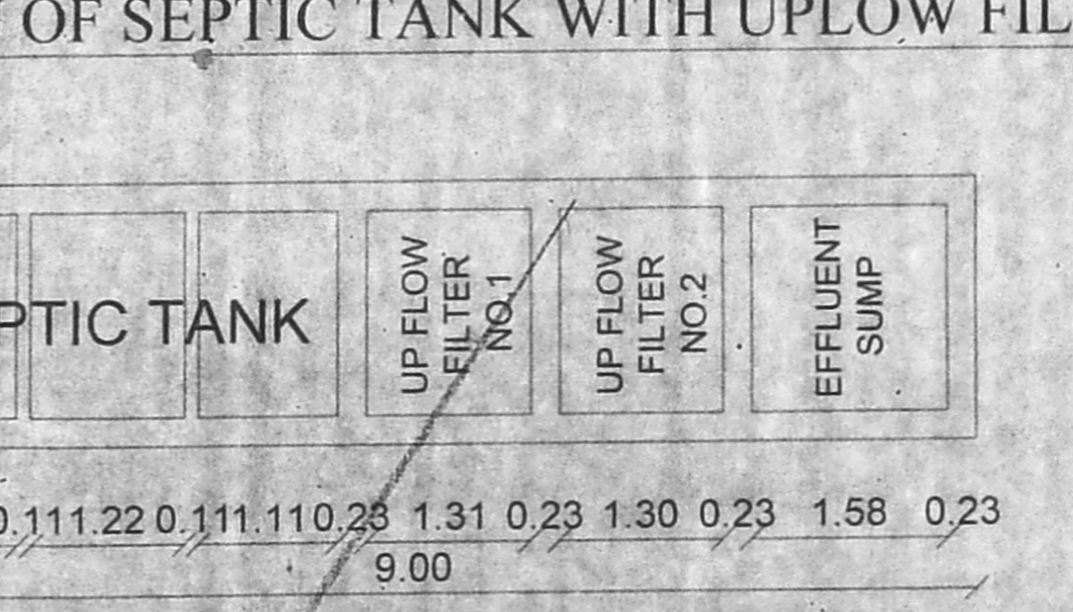
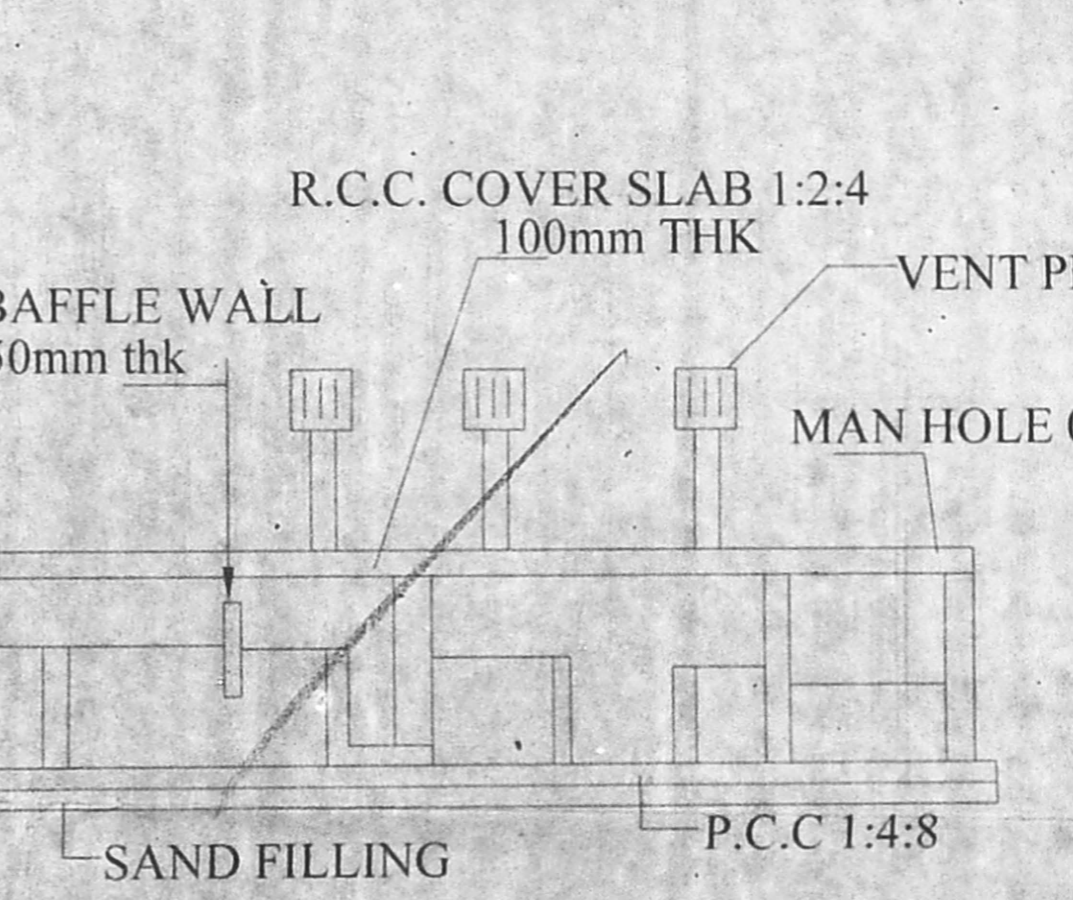
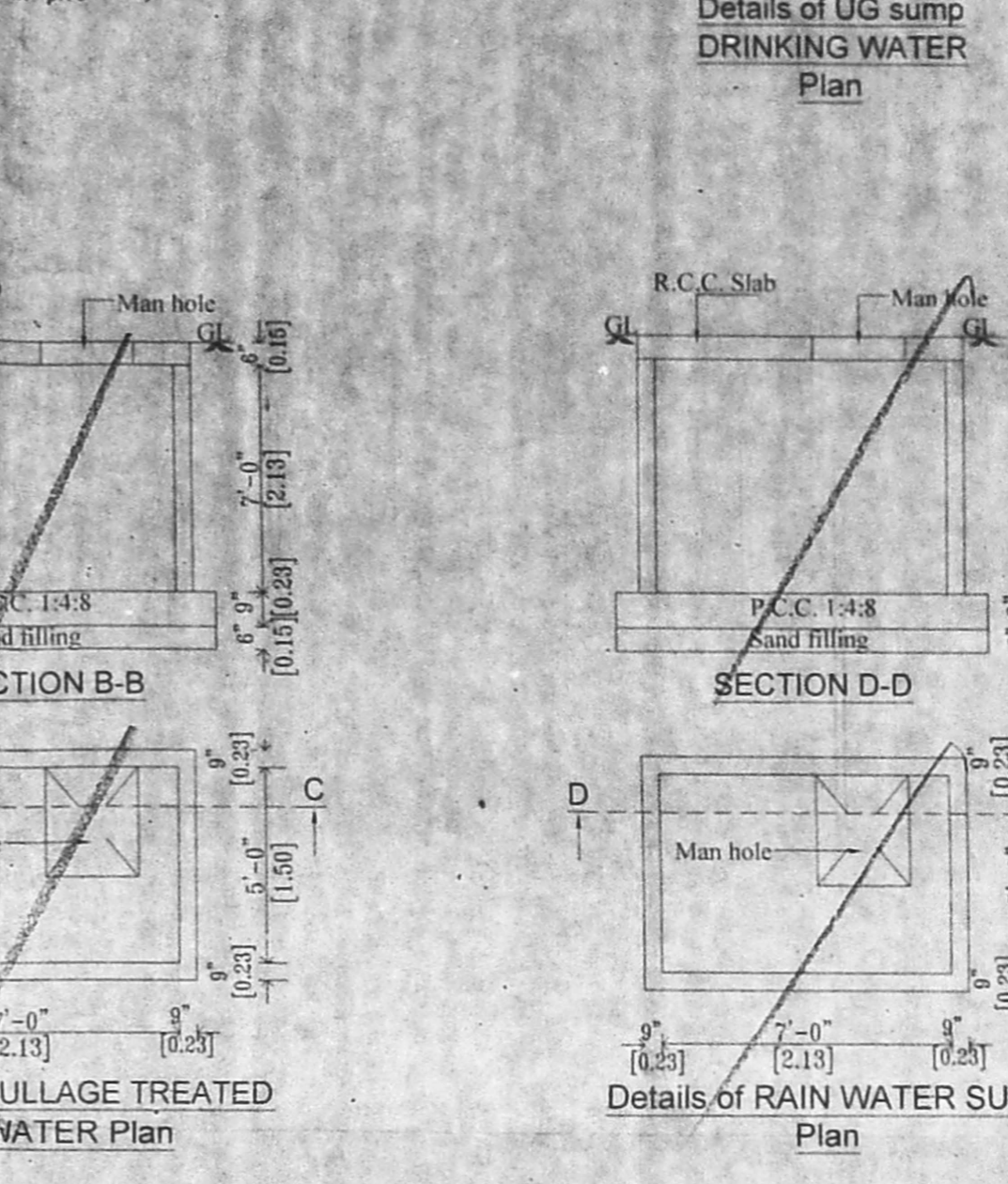
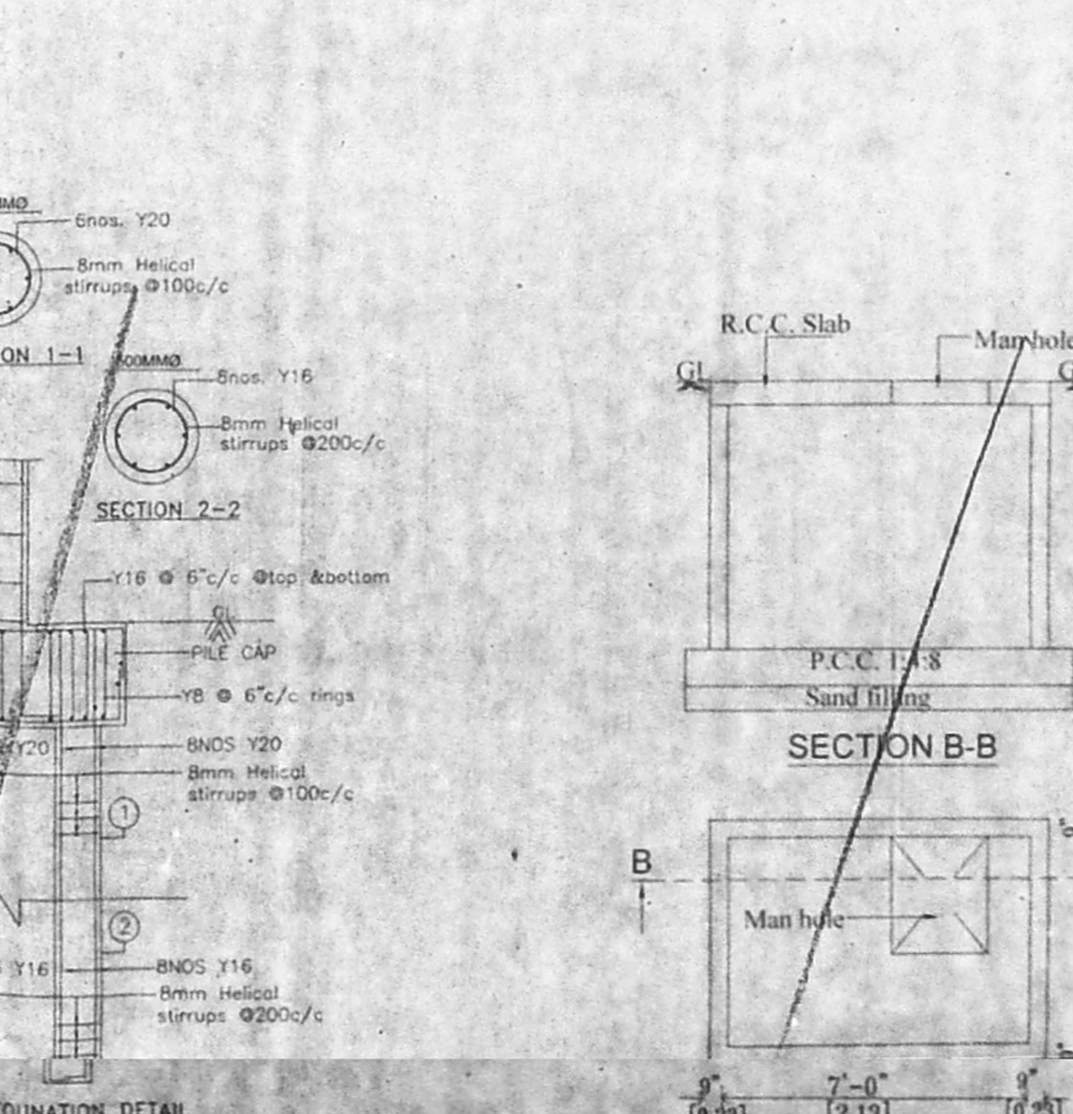
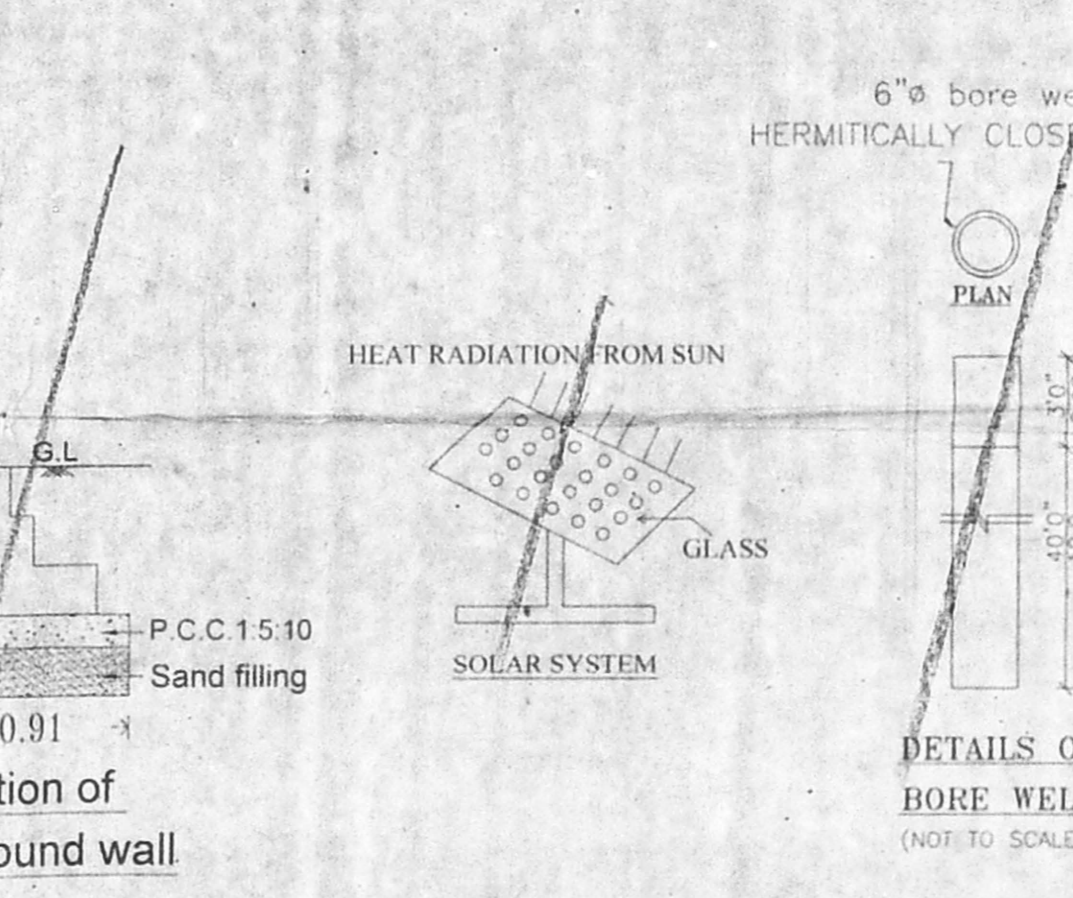
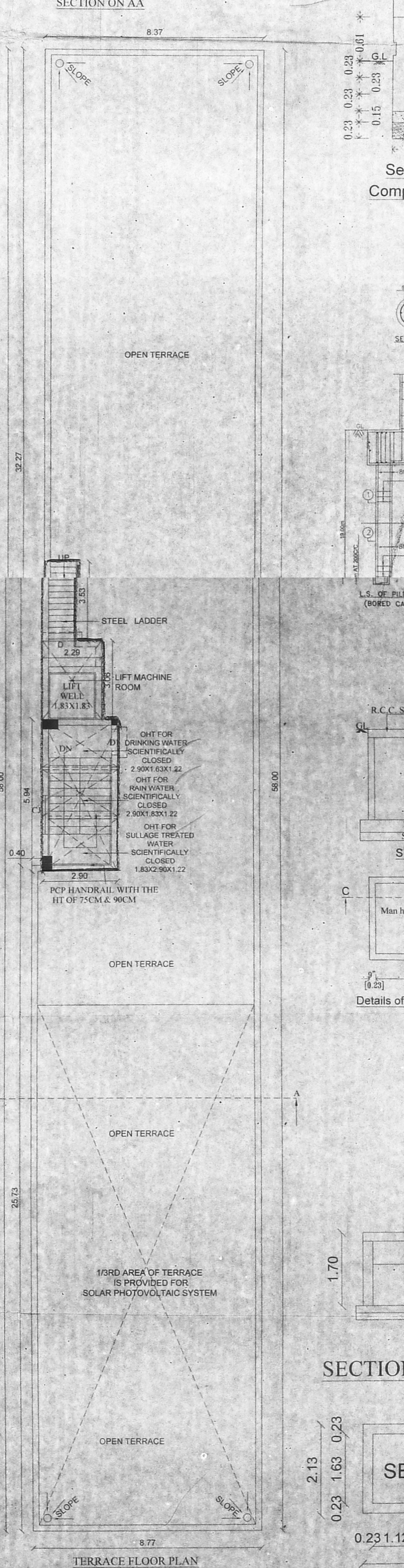
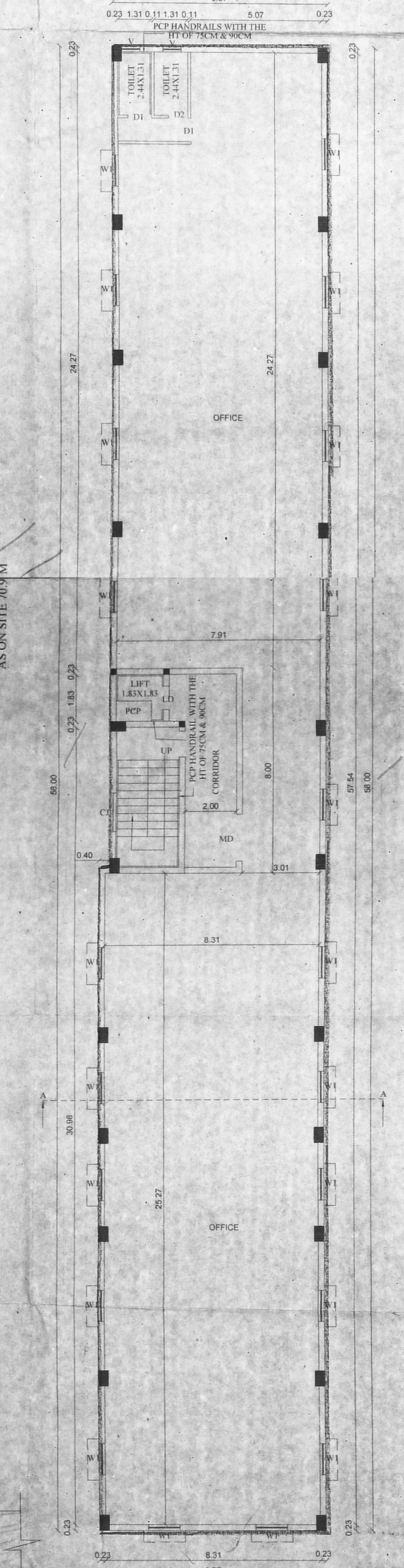
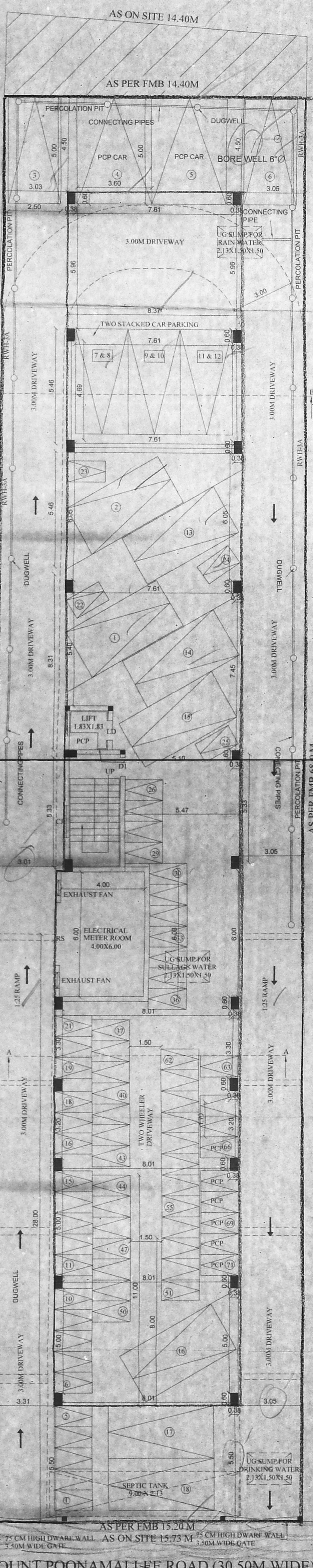
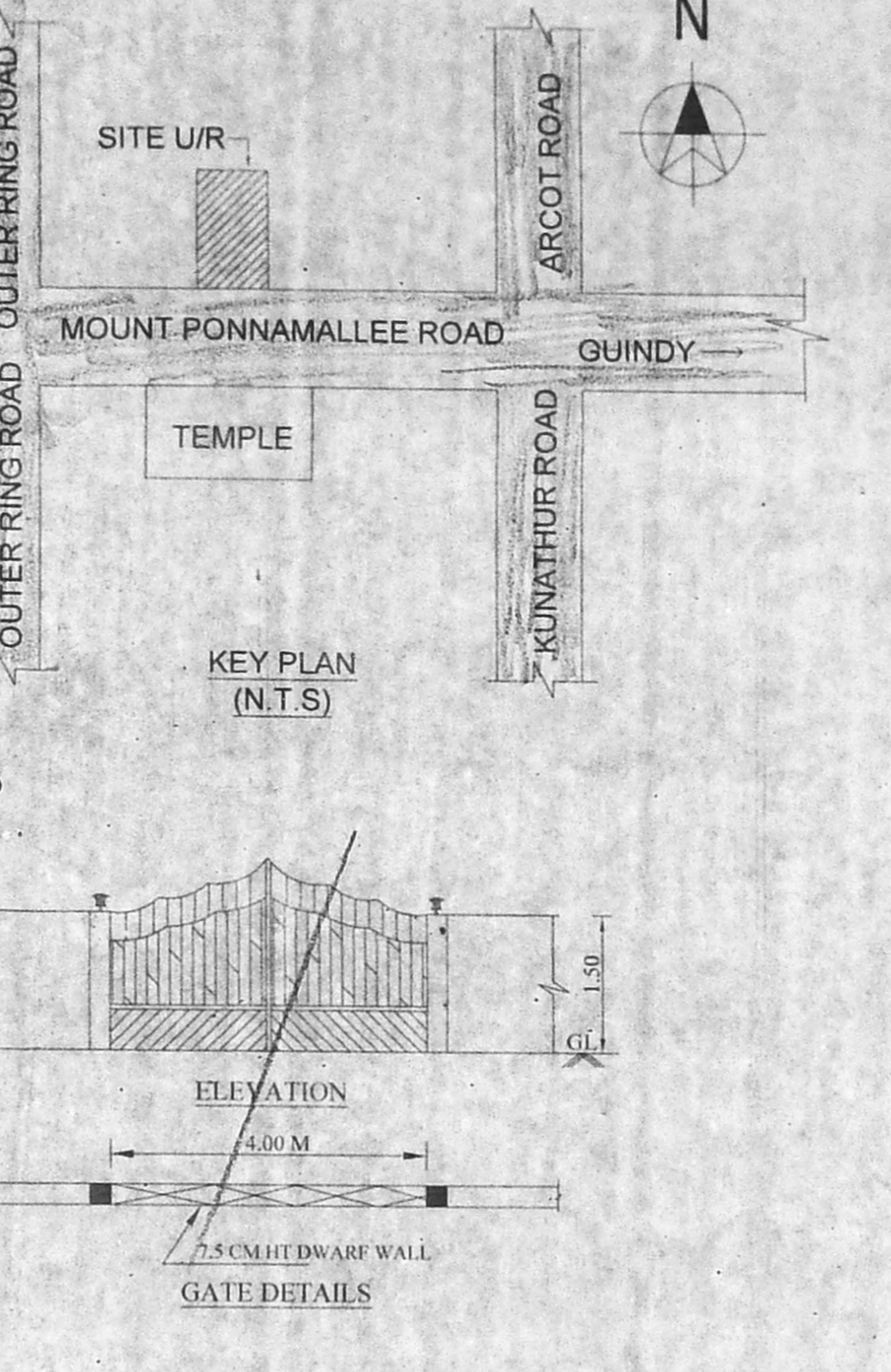
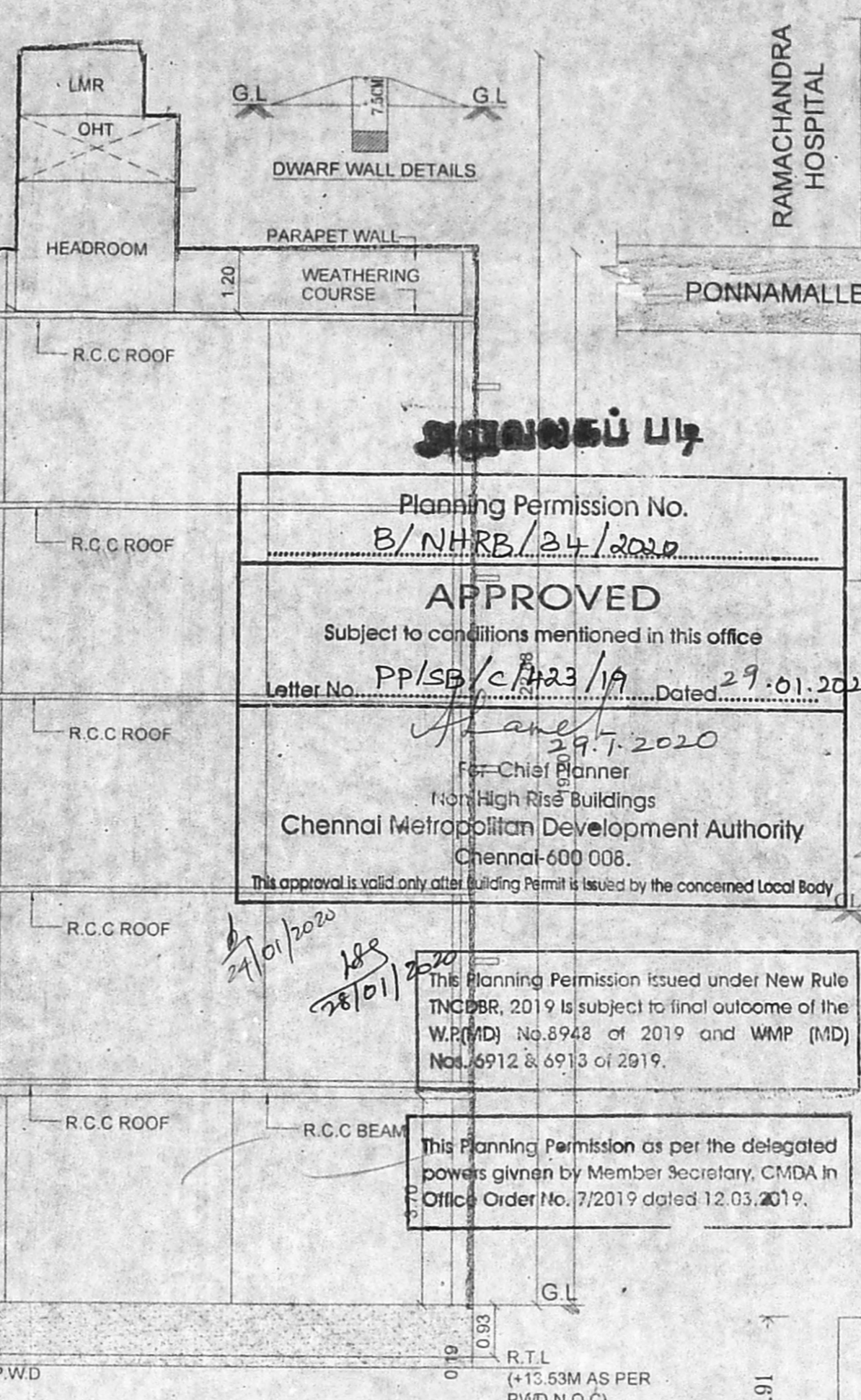
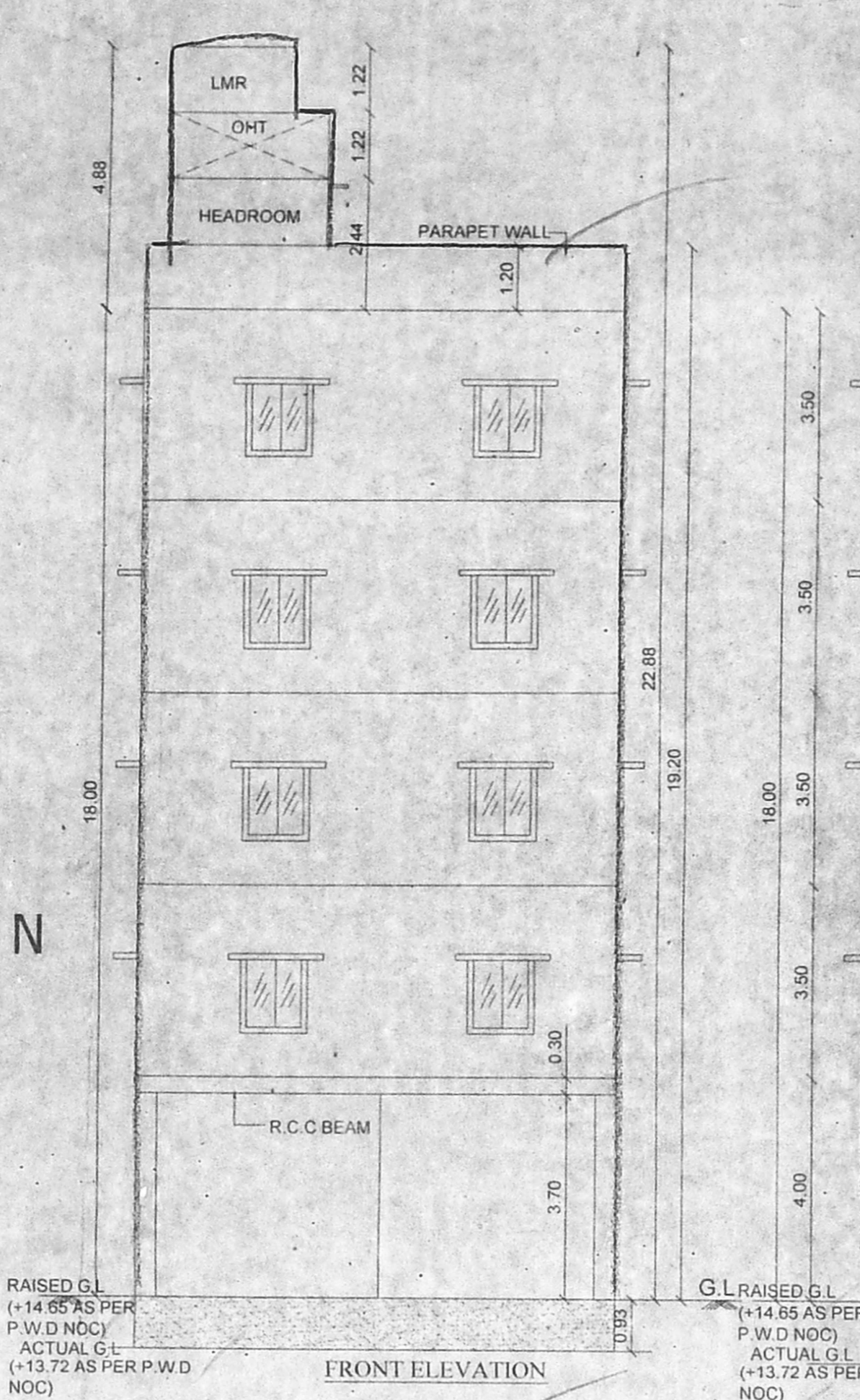
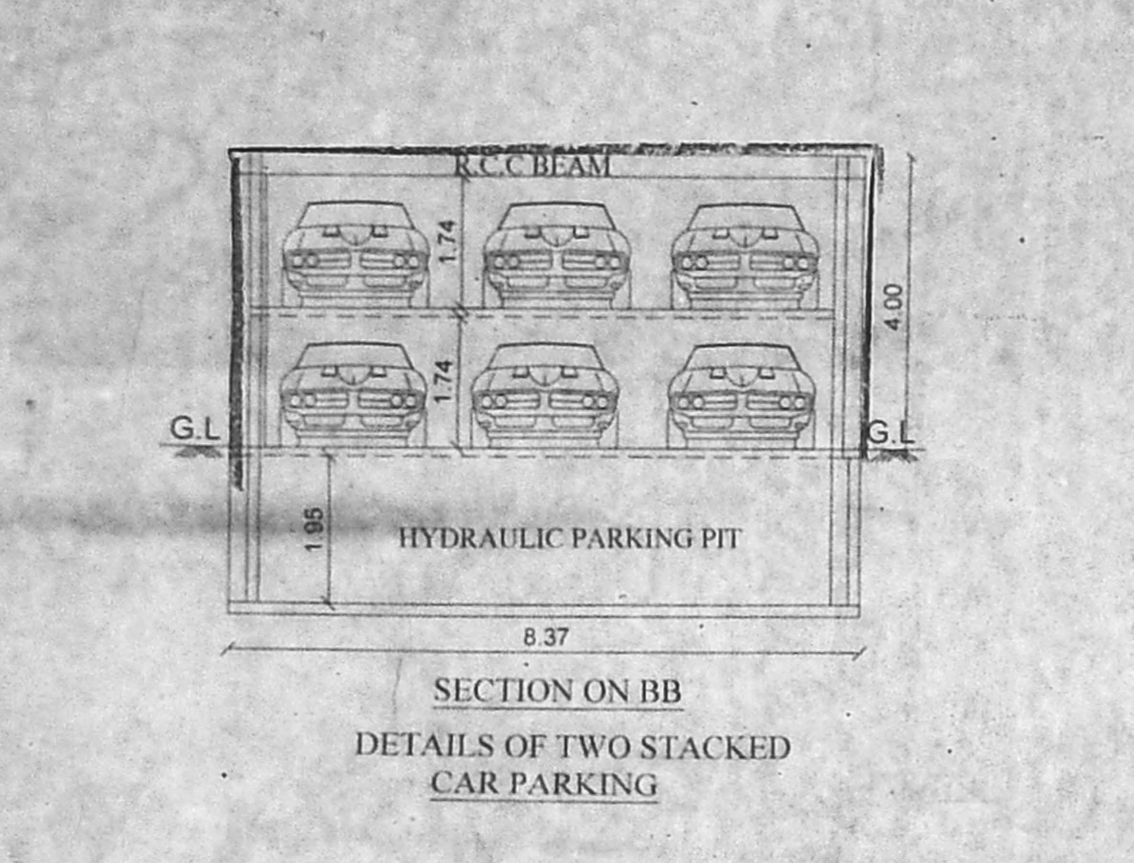


SEPTIC TANK CALCULATOR

FOR COMMERCIAL 30SQ.M (3000 LITERS) IN PWD

NO. OF USERS: 13
 AS PER GOVT OF INDIA: 40 x 3 = 120 NOS
 PEAK DISCHARGE: 1.32 LPS
 RATIO ASSUMED: 1.2
 CO. EFFICIENT: 0.92
 VOLUME OF SEPTIC TANK: 44.16 SQ.M
 DEPTH CONSIDERED: 1.70 M
 SURFACE AREA OF SEPTIC TANK: 75.07 SQ.M
 LIQUID DEPTH: 0.23 M
 VOLUME OF SEDIMENTATION: 10.25 CU.M
 VOLUME OF SLUDGE STORAGE: 200 x 0.032 = 6.4 CU.M
 VOLUME OF DIGESTION: 200 x 0.032 = 6.4 CU.M
 TOTAL VOLUME: 11.39 CU.M
 LIQUID DEPTH: 1.70 M
 SURFACE AREA: 14.71 M²

INLET PIPE INVERT LEVEL ASSUMING A GRADIENT OF 1 TO 80 STARTING FROM FIRST CHAMBER: 0.61 M
 TOTAL LIQUID DEPTH: 1.778 M
 SAY: 1.78 M
 UP FLOW FILTER: 200 NOS
 NO. OF USERS: 13
 VOLUME OF LIQUID: 200 x 0.045 x 9 = 81.0 M³
 1.80 M x 0.6 M x 1.20 M = 1.296 M³
 5.40 M x 0.6 M x 1.20 M = 3.888 M³
 AREA OF FILTERS: 4.20 M²
 SAY: 2 x 50 SQ.M
 UP FLOW FILTER I: 1.31 x 1.63 x 1.7m
 UP FLOW FILTER II: 1.30 x 1.63 x 1.7m
 OVER ALL SIZE: 9.00 x 2.13 x 1.7m



PLAN SHOWING THE PROPOSED CONSTRUCTION OF AN OFFICE BUILDING AT MOUNT PONNAMALLEE ROAD COMPRISED IN OLD S NO 69/4 PART, NEW S NO 69/6B2 (AS PER DOC), S NO 69/6B1B (AS PER PATTI) OF KARAMBAKKAM TALLUK CHENNAI DISTRICT GREATER CHENNAI CORPORATION. ZONE - XI, DIVISION NO - 150.

SCALE 1:100

SPECIFICATION	
SAND FILLING IN FOUNDATION	P.C.C 1:4:8 IN FOUNDATION
BRICK WORK IN CM 1:5	RCC WORK M25 GRADE
PLASTERING IN CM 1:4	NOTE: MINIMUM CONCRETE GRADE USED IS - M25 (1:2)

JOINERY DETAILS		
NAME	DESCRIPTION	SIZE IN MTS
MD	MAIN DOOR	1.07X2.13
GD	GRILL DOOR	1.07X2.13
D1	DOOR	0.91X2.13
D2	DOOR	0.76X2.13
W1	WINDOW	1.22X1.22
CJ	CEMENT JALLY	1.52X1.22
V	VENTILATOR	0.71X0.45
EF	EXHAUST FAN	1.00X0.45

AREA STATEMENT	
PLOT EXTENT	SQ.M
AS PER PATTI/FMB	1030.00
AS PER DOCUMENT	1031.91

NAME OF THE FLOORS	FSI AREA (SQ M)
STILT FLOOR	29.13
FIRST FLOOR	495.79
SECOND FLOOR	495.79
THIRD FLOOR	495.79
FOURTH FLOOR	495.79
TOTAL FSI AREA	2012.29

FSI = 1.954

CAR PARKING REQUIRED = 18 NOS
 CAR PARKING PROVIDED = 18 NOS
 TWO WHEELER REQUIRED = 70 NOS
 TWO WHEELER PROVIDED = 71 NOS

OWNER'S SIGNATURE: *P. Prithvi*

STRUCTURAL ENGINEER: *M. Punithan*

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