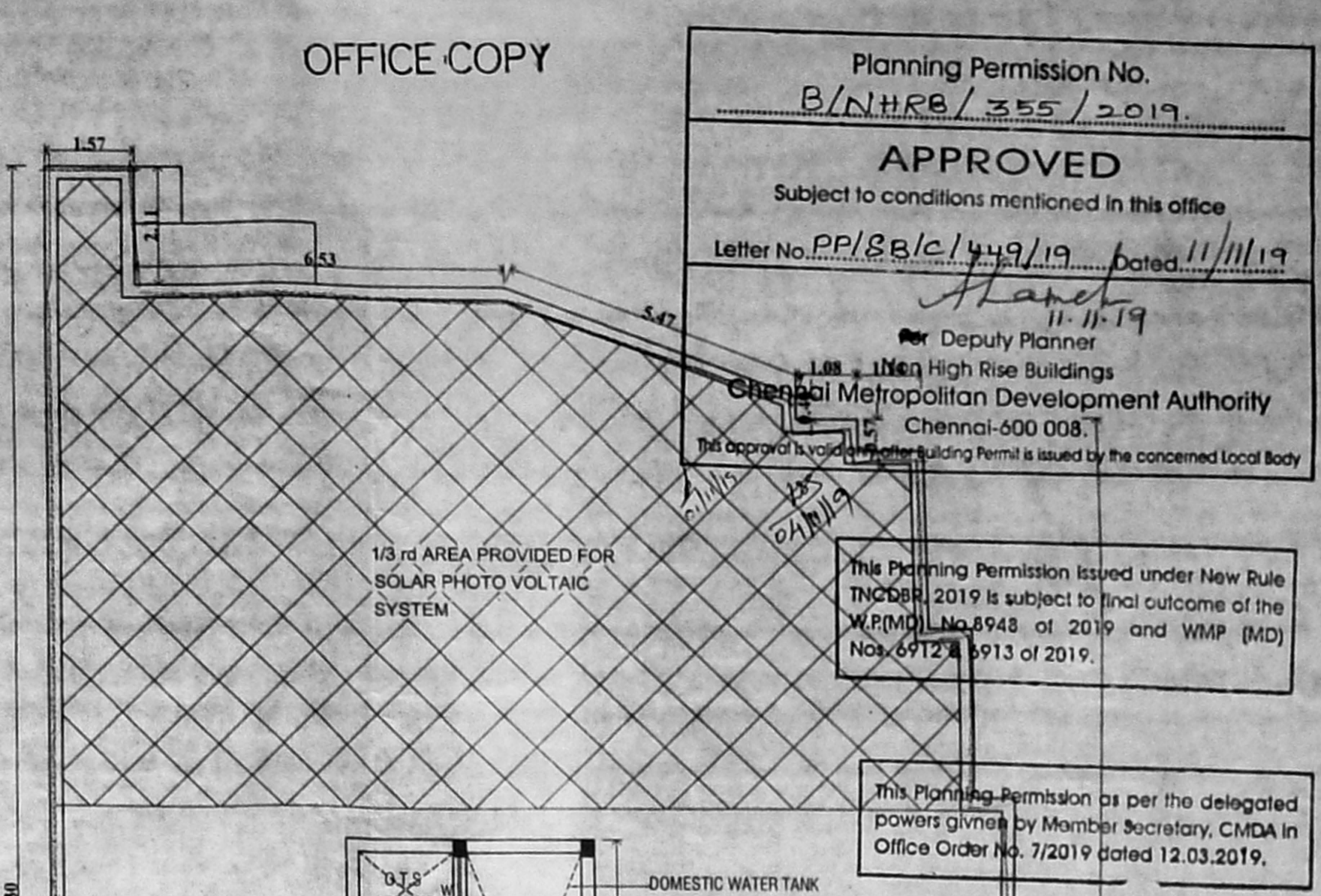
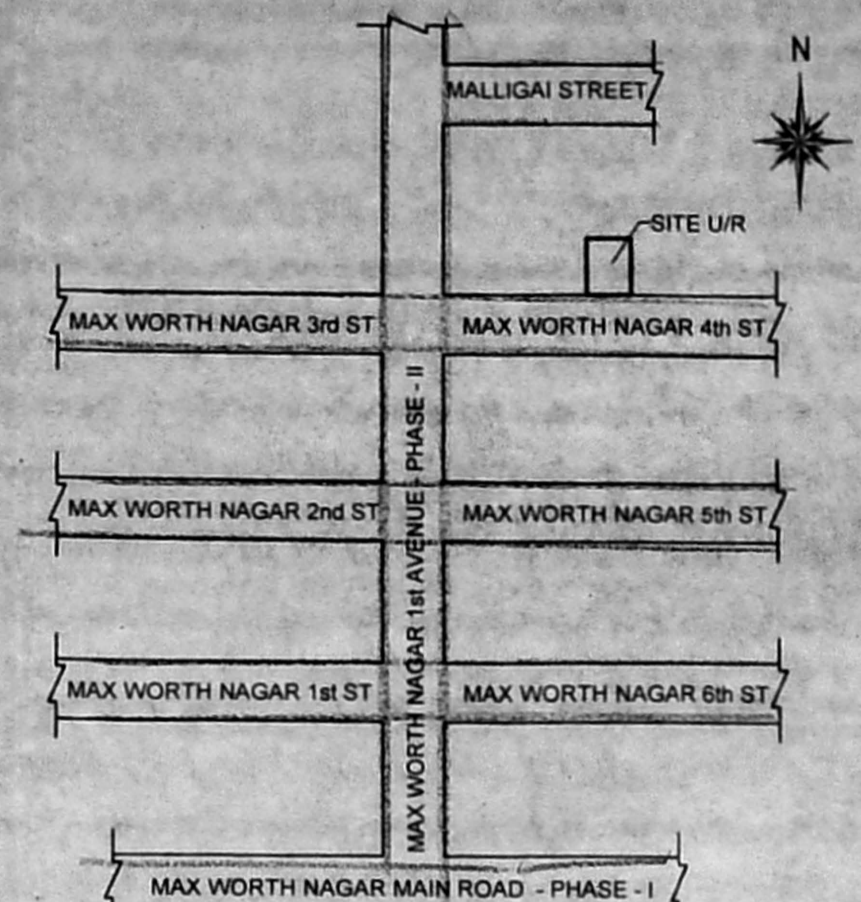
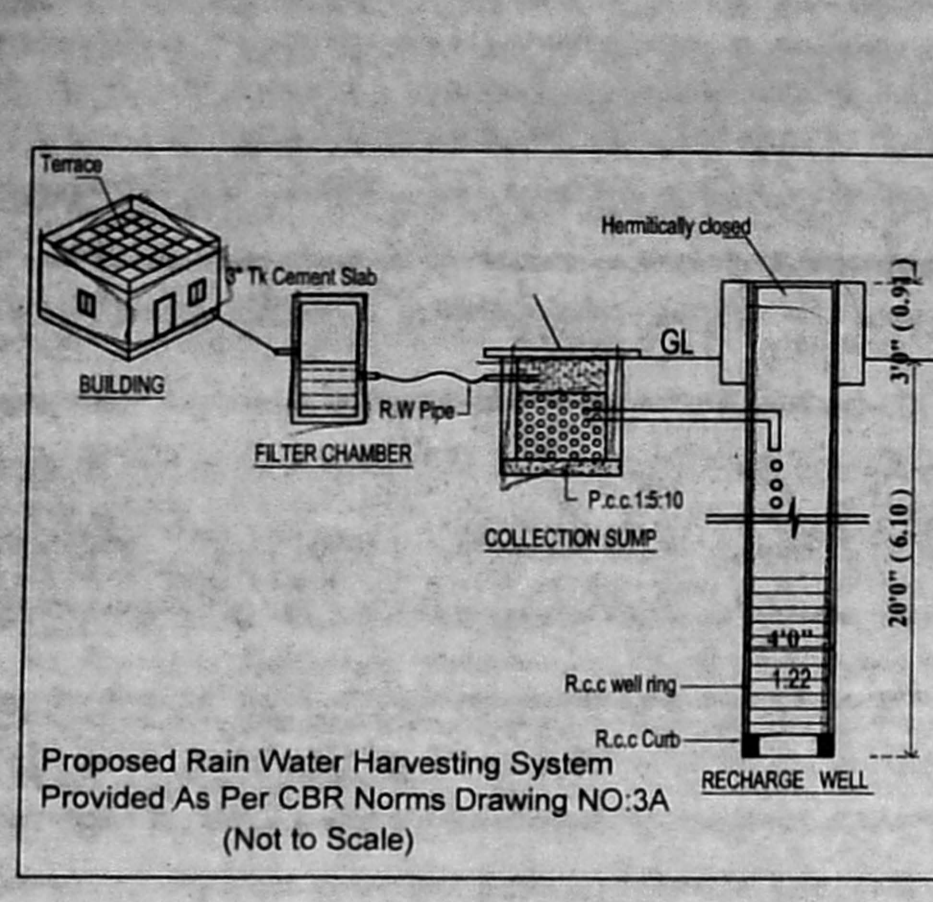
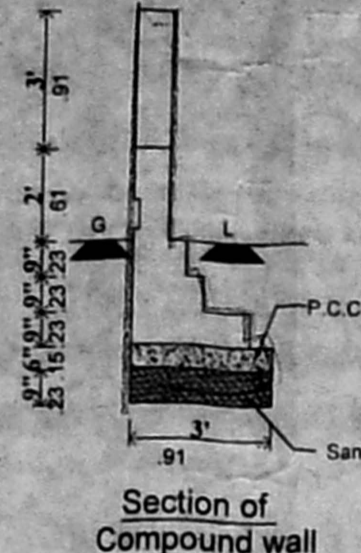
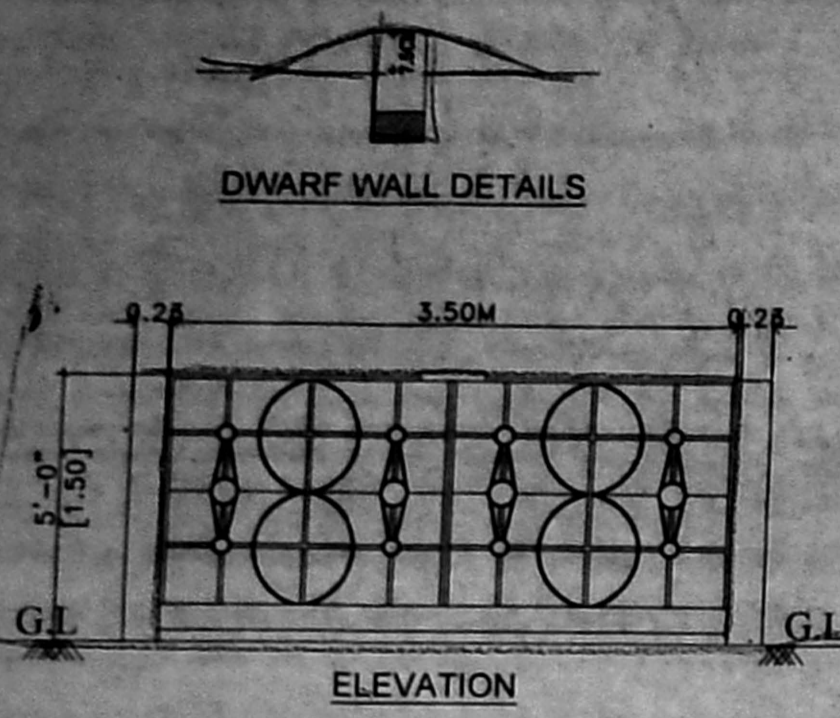


PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING AT PLOT NO:-11 & 12, MAX WORTH NAGAR 4th STREET, PHASE - II, KOLAPAKKAM, CHENNAI-600 128. COMPRISED IN OLD S.NO:-89/1(PART) - AS PER DOCUMENT, S.NOS:-89/49 & 89/53 - AS PER PATTA OF KOLAPAKKAM VILLAGE, PALLAVARAM TALUK, KANCHEEPURAM DISTRICT, KUNDRATHUR PANCHAYAT UNION LIMIT. SCALE 1:100.

REF:-
CMDA APPROVED LAYOUT NO:- PPA/O NO:-47/97.
VIDE LETTER NO:- L1/22952/97. DATED:- 17.10.97.



DESIGN OF SEPTIC TANK WITH UPFLOW FILTER FOR 15 DWELLINGS

NO. OF FLATS OR DWELLINGS: 15
ASSUMING 5 PERSONS FOR FLAT: 75
NO. OF PERSONS: 75
NO. OF USERS ASSUMING: 75
2 FIXTURES PER FLAT
PER HOUR DISCHARGE: 1.50
SEPTIC TANK
SURFACE AREA NEEDED: 5000.00
VOLUME OF SEDIMENTATION:
ASSUMING 0.30M DEPTH FOR DIGESTION: 6X0.3M = 2.70M³
75X0.032 = 2.40M³
FOR SLUDGE STORAGE: 0.0002X36X75 = 5.4M³
FREE BOARD FOR SLUDGE: 5X0.3M = 1.50M³
DEPTH = VOLUME / AREA = 1.40M
VOLUME = 5
SIZE OF SEPTIC TANK 6.00X3.00X2.00
UPFLOW FILTER
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 / 1.10 = 1.0M
SIZE OF UPFLOW FILTER 1.50X1.50
UPFLOW NO. - 1 = 0.91X1.50X1.36M
UPFLOW NO. - 2 = 0.91X1.50X1.36M

SECTION AB

SEPTIC TANK WITH UPFLOW FILTER DETAILS

SPECIFICATION:
SAND FILLING IN FOUNDATION
P.C.C 1:5:10 IN FOUNDATION
BRICK WORK IN CM 1:5
RCC WORK IN 1:2
PLASTERING IN CM 1:4

SCHEDULE OF JOINERIES

MD MAIN DOOR	1.20X2.13 (4'0"X7'0")
D1 DOOR	0.91X2.13 (3'0"X7'0")
D2 DOOR	0.75X2.13 (2'6"X7'0")
W WINDOW	1.37X1.22 (4'6"X4'0")
W1 WINDOW	0.91X1.22 (3'0"X4'0")
V VENTILATOR	0.61X0.61 (2'0"X2'0")

AREA STATEMENT

PLLOT EXTENT:-	DWELLING UNITS
AS PER PATTA	619.00 SQ.M
AS PER DOCUMENT	619.28 SQ.M
STILT FLOOR	28.81 SQ.M
FIRST FLOOR	396.55 SQ.M
SECOND FLOOR	396.55 SQ.M
THIRD FLOOR (PT)	364.79 SQ.M
TOTAL	1186.70 SQ.M
F.S.I	1.917

REQUIRED CAR PARKINGS - 5 NOS.
REQUIRED TWO WHEELERS - 15 NOS.

LEGEND
PROPOSED BOUNDARY ROAD

OWNER:
R. CHANDRASEKARAN, B.E. CIVIL
Structural Engineer, Approved Valuer No. F-2274,
REIGR-11/10/03/028
Old Door No. 49A, New Door No. 72,
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LICENSED SURVEYOR
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