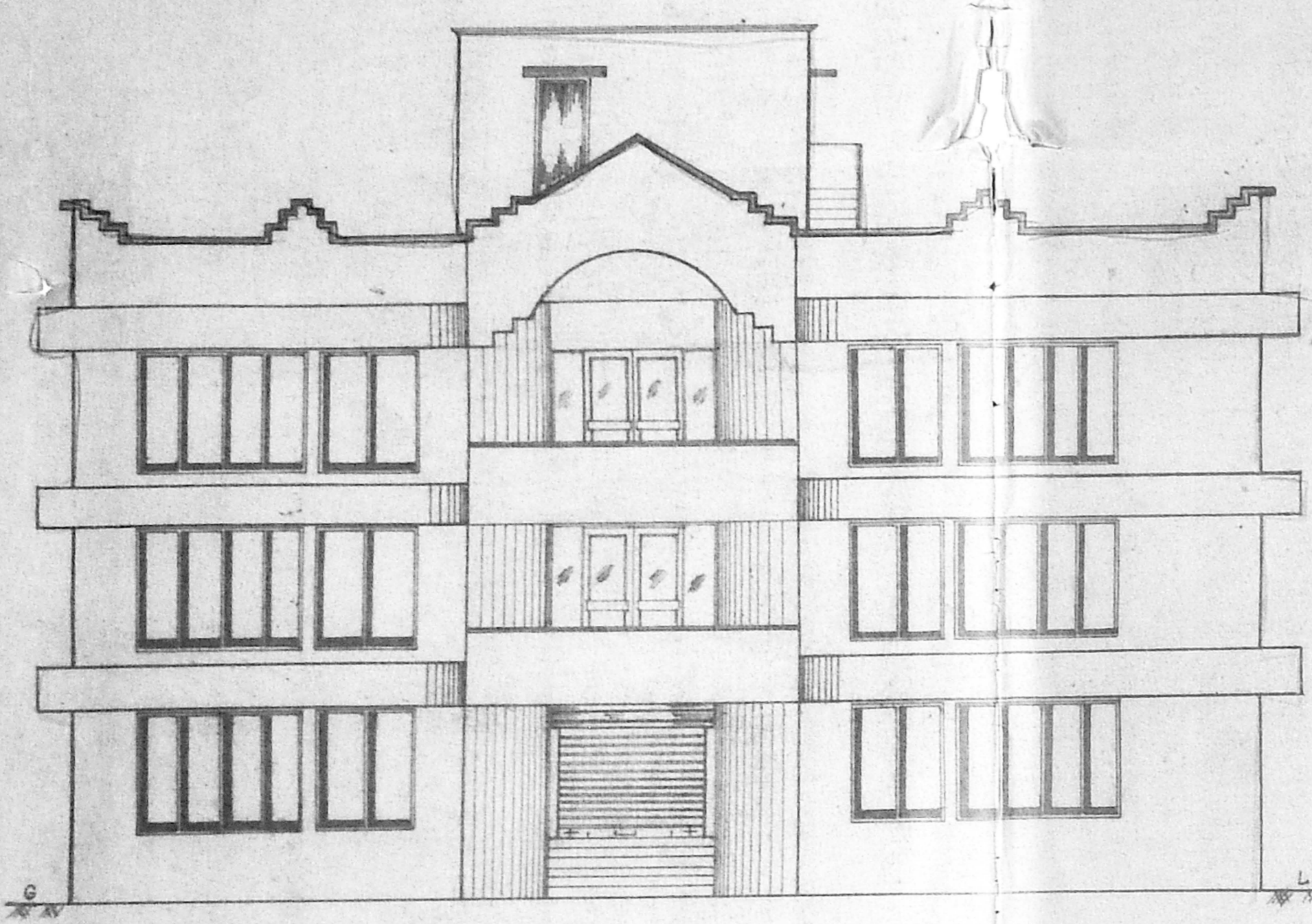
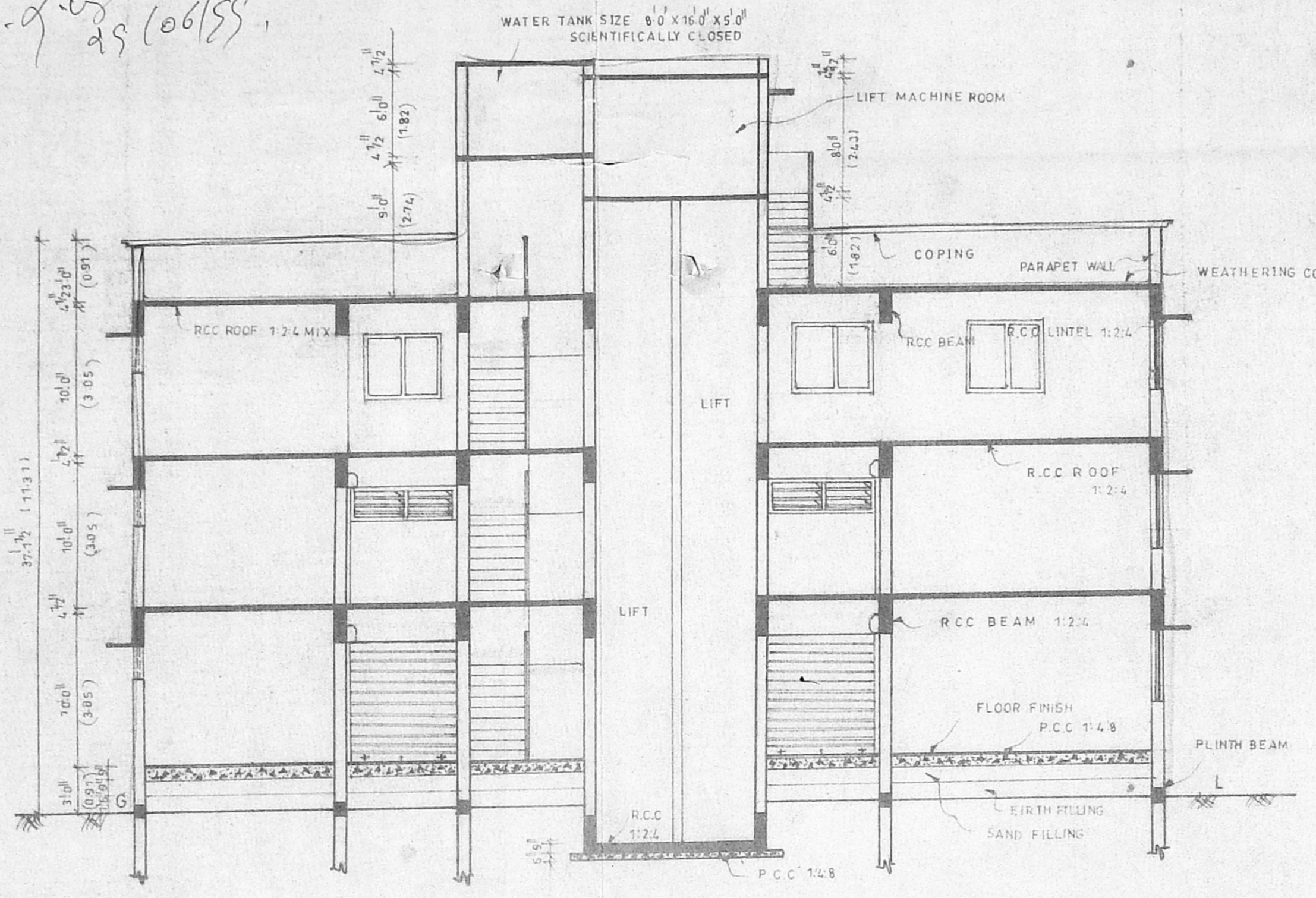


CMDA (B) No. 1
 C. No. Bg/122/83
 Asst.
 Surveying
 P. A.
 AP.

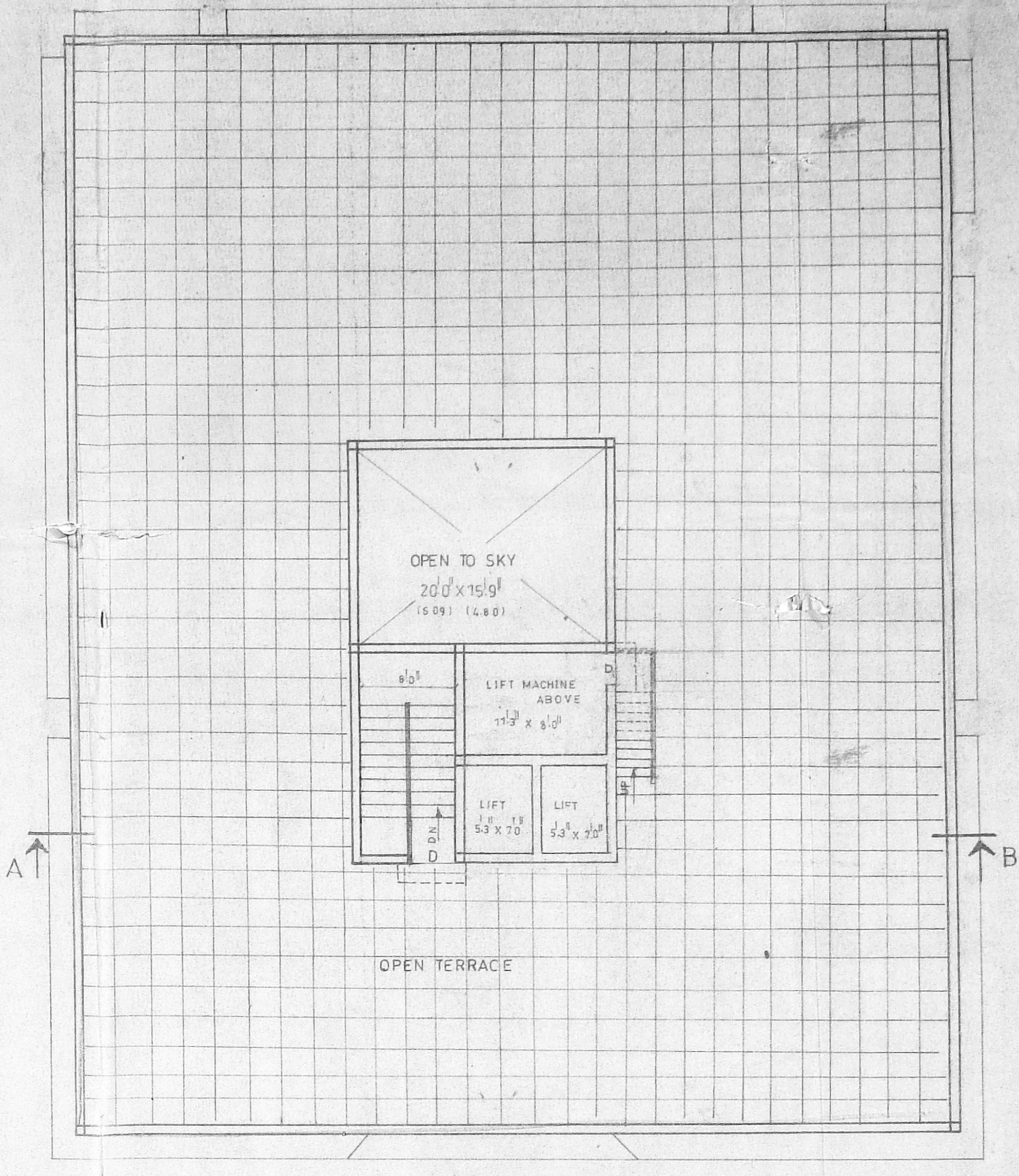
Engg Plan
no. 9/25/106/83



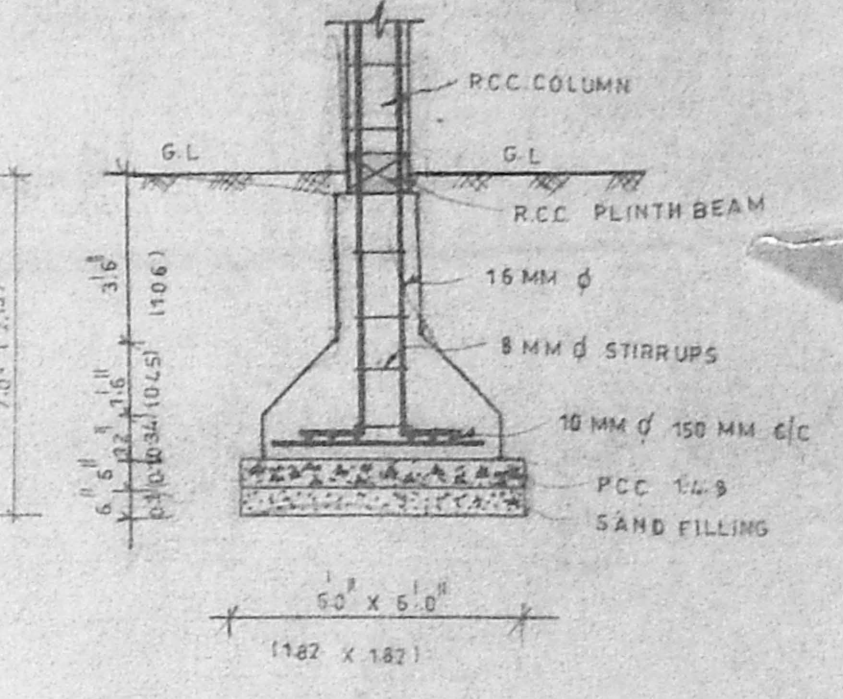
ELEVATION



SECTION ON A-B



TERRACE PLAN



FOUNDATION DETAILS

SCHEDULE OF JOINERY

ROLLING SHUTTER	RS	10'0" x 8'0"	3.05 X 2.43
	RS ₁	8'0" x 8'0"	2.43 X 2.43
	RS ₂	5'6" x 8'0"	1.98 X 2.43
FLOOR WINDOW	FD ₂	10'0" x 8'0"	3.05 X 2.43
	SW	10'0" x 7'0"	3.05 X 2.13
	D	3'0" x 5'0"	1.67 X 1.52
DOOR	D	3'0" x 7'0"	0.91 X 2.13
	D ₁	2'6" x 7'0"	0.60 X 2.13
VENTILATOR	V	8'0" x 2'6"	2.43 X 0.76
	V ₁	2'6" x 2'6"	0.76 X 0.60
JALLY	J	5'0" x 3'0"	1.52 X 0.91

AREA DETAILS

SRIL	SRM
PLOT AREA = 21090.00	1960.00
GF AREA = 6021.00	560.00
FF AREA = 6021.00	560.00
SE AREA = 6021.00	560.00
TOTAL AREA = 18063.00	1680.00
COVERAGE =	28.5%
F.S.I =	0.86

COLOUR INDEX

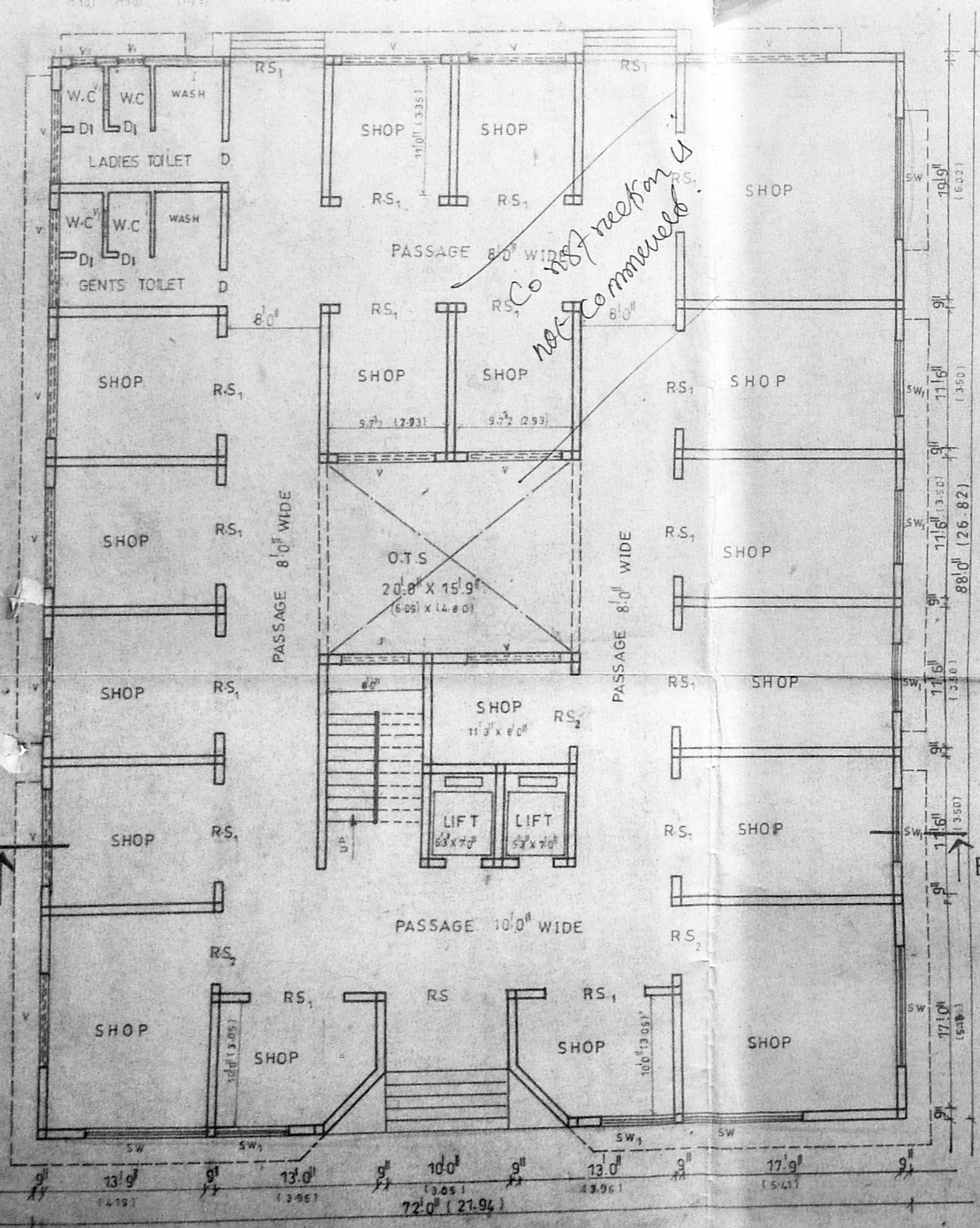
PROPOSED	[Symbol]
ROAD	[Symbol]
BOUNDARY	[Symbol]
EXISTING	[Symbol]

SCALE 1:100
 DRAWN BY RAVIKUMAR R

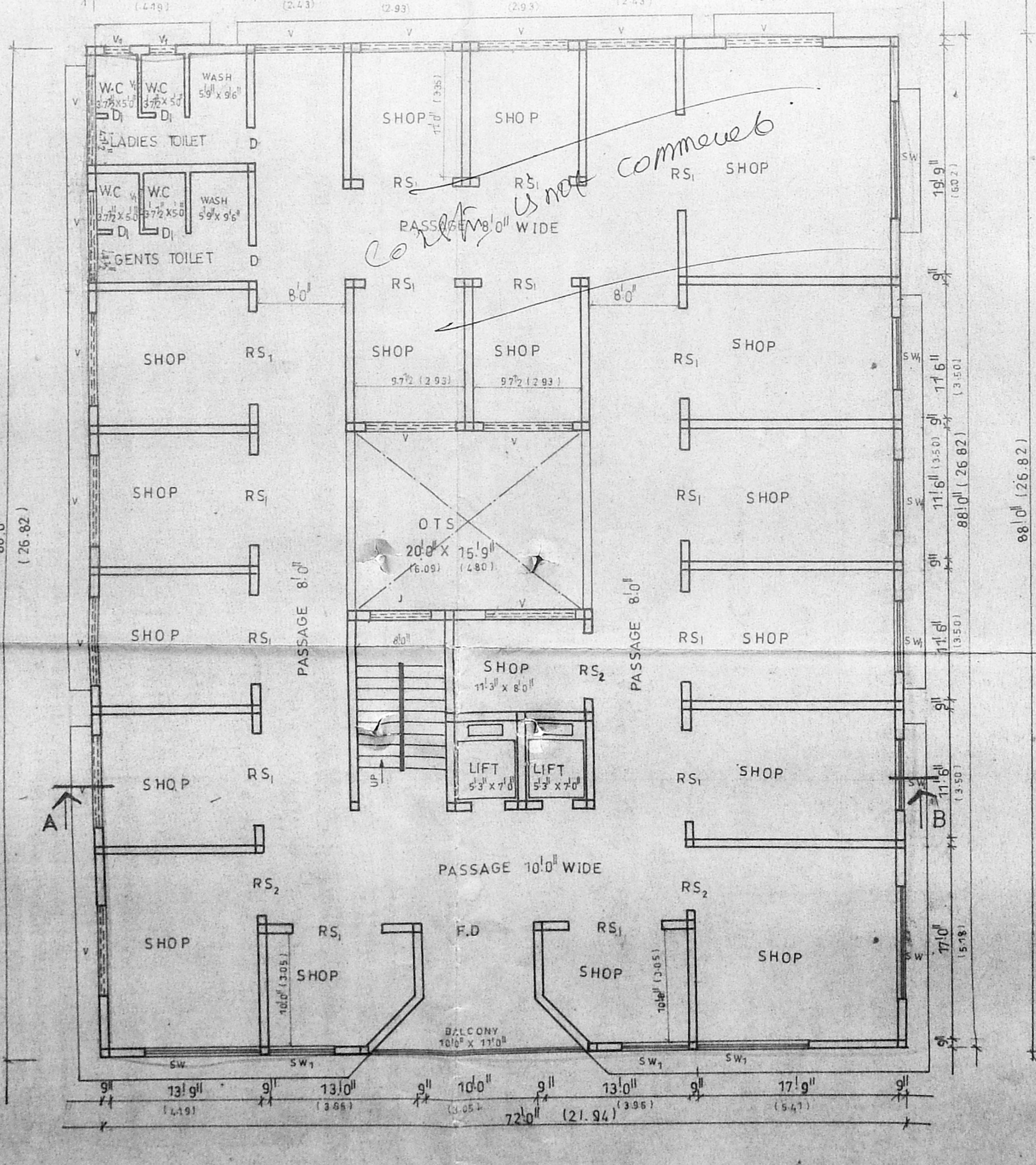
PLAN SHOWING THE PROPOSED COMMERCIAL COMPLEX AT S.NO 29/3A OF PADI VILLAGE IN M.T.H. ROAD - PADI CHENNAI 600050 (AMBATTUR MUNICIPALITY)

RELIANCE CONSULTANTS & CONSTRUCTIONS
 P.O. CHENNAI - 600050
 PHONE NO - 5254515

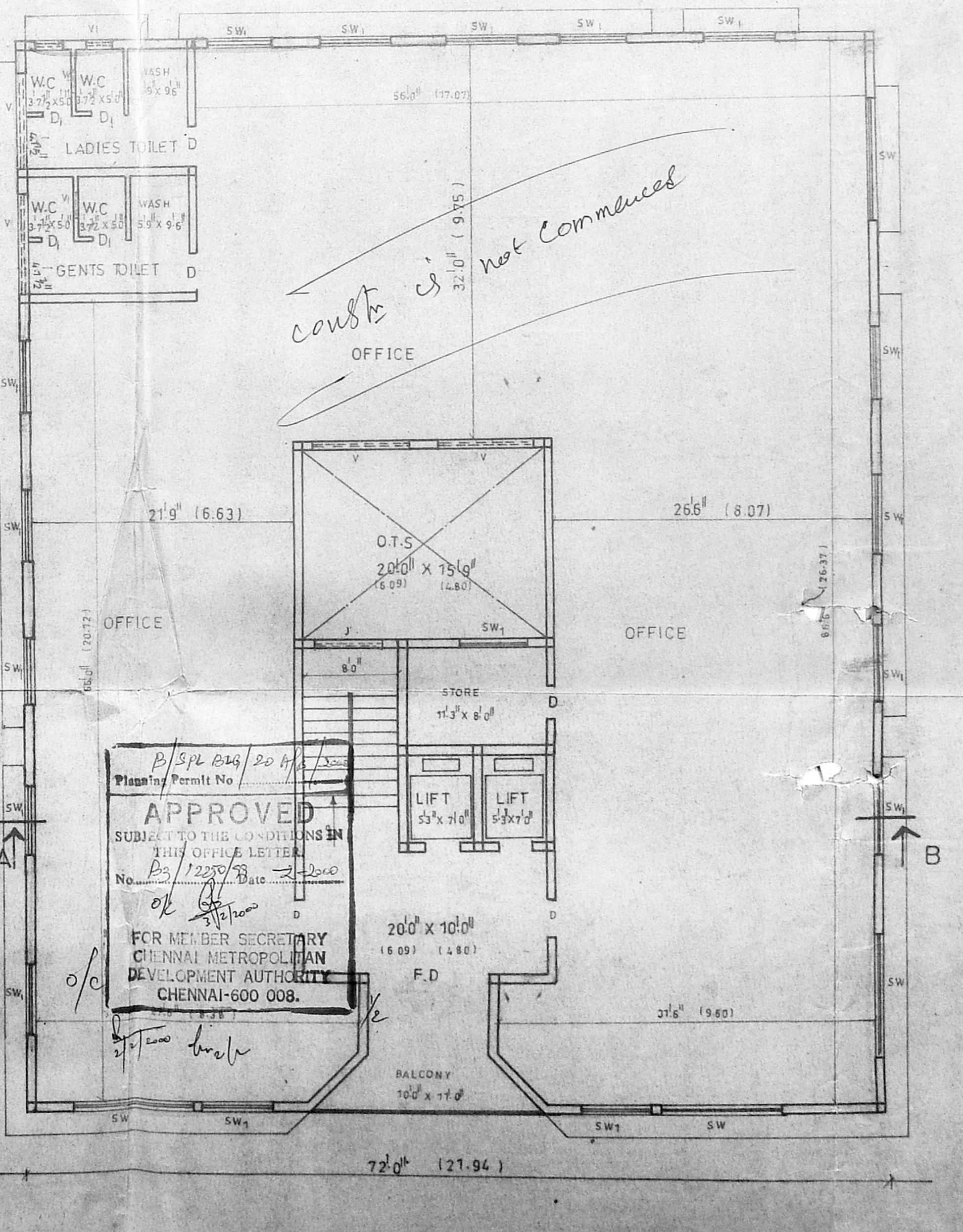
For SRI BHAVANI INDUSTRIES
 P. Balakrishnan
 P. BALAKRISHNAN B.E. (Mech)
 Consulting Civil Engineer
 Licensed Surveyor Class 1/1st S3
 Corporation of Madras
 No. 877/11, M. T. H. Road, Padi
 MADRAS - 600 050
 (LICENCED SURVEYOR)



GROUND FLOOR PLAN

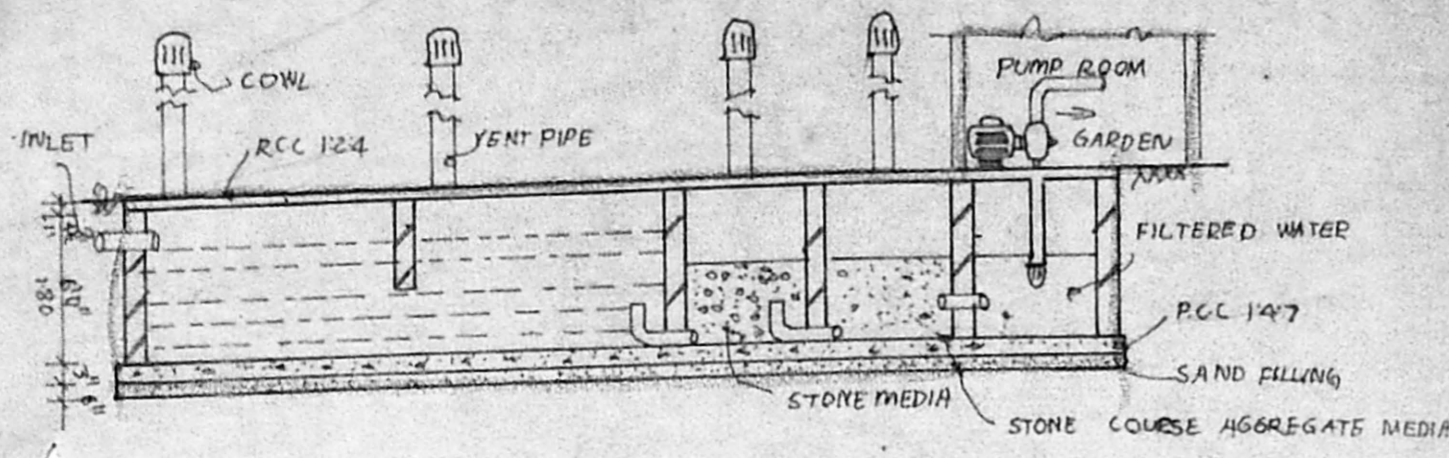


FIRST FLOOR PLAN

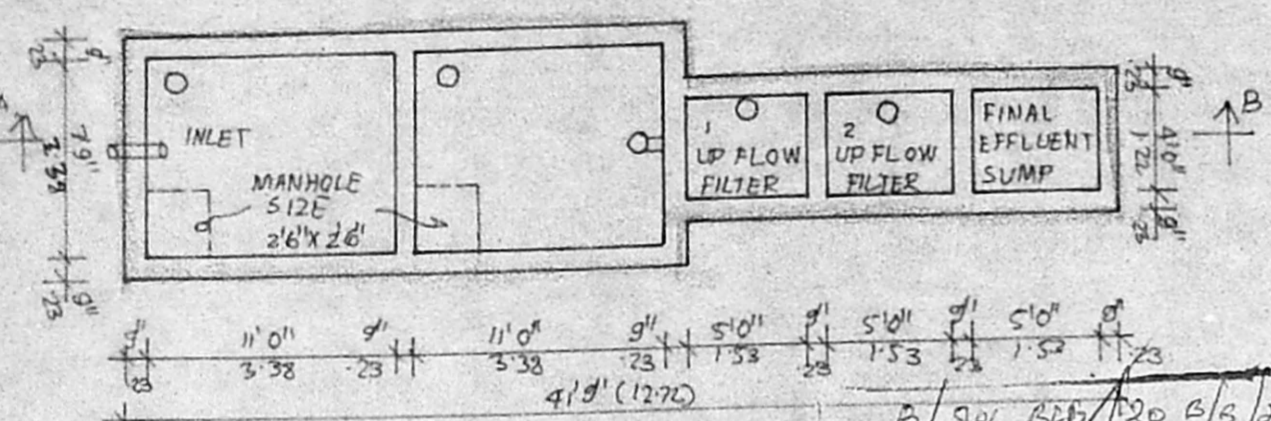


SECOND FLOOR PLAN

APPROVED
 SUBJECT TO THE CONDITIONS IN THIS OFFICE LETTER
 No. Bg/122/83
 FOR MEMBER SECRETARY
 CHENNAI METROPOLITAN
 DEVELOPMENT AUTHORITY
 CHENNAI-600 008.



SECTION ON-A-B



SEPTIC TANK DETAILS PLAN

APPROVED
SUBJECT TO THE CONDITIONS
THIS OFFICE LETTER.
Date: 12/12/99
FOR MEMBER SECRETARY
CHENNAI METROPOLITAN
DEVELOPMENT AUTHORITY
CHENNAI-600 008.

DESIGN OF SEPTIC TANK

Assume no of persons as 100 and
average daily sewage flow of 100 litres
per head per day
Assuming a detention period of 10 hours

Flow of sewage per head per day $100 \times 100 = 10000$ lit/day
Tank capacity required $= 10 \times \frac{10000}{24} = 75 \text{ m}^3$

1. space required for storage of sludge
 $= 0.070 \text{ m}^3/\text{capita}$
 $= 100 \times 0.070 = 7.0 \text{ m}^3$

2. space required for scum storage
 $= 0.01 \text{ m}^3/\text{capita}$
 $= 0.01 \times 100 = 1.0 \text{ m}^3$

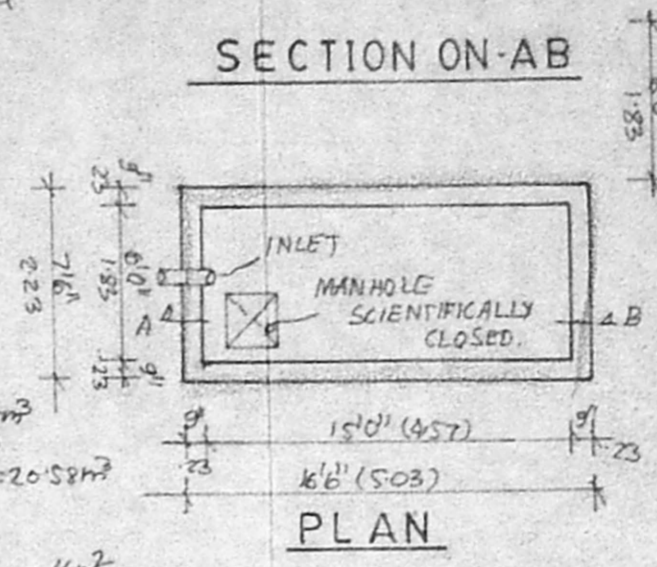
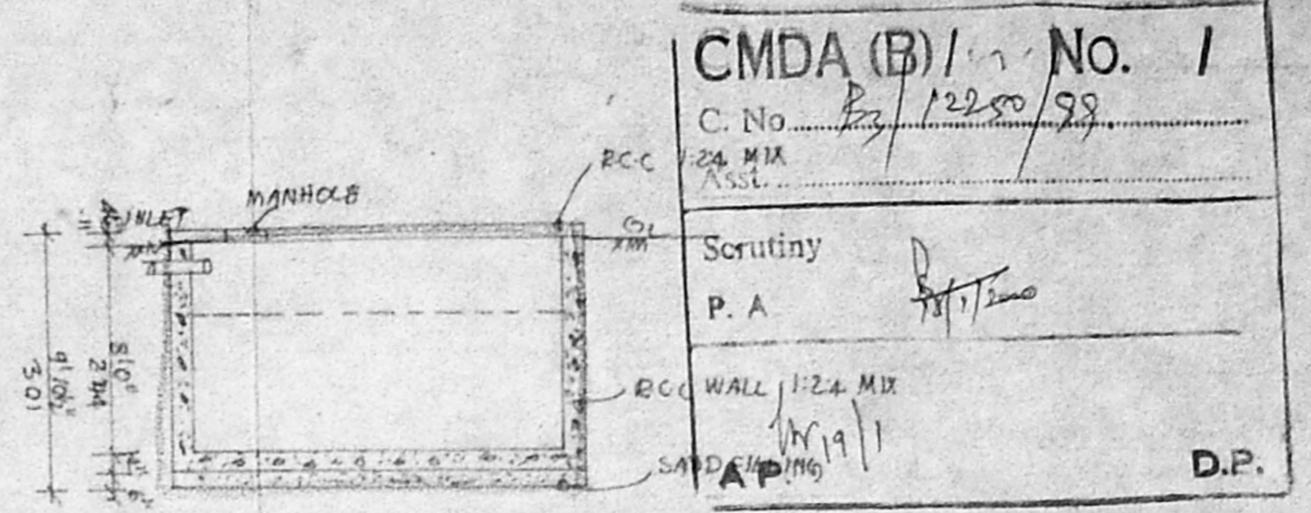
3. space required for sludge digestion $= 0.03 \text{ m}^3/\text{capita}$
 $= 100 \times 0.03 = 3.0 \text{ m}^3$
Add as extra for future extension $\frac{25}{100} \times 75 = 18.75 \text{ m}^3$
Total capacity of tank $= 7.5 + 1.0 + 3.0 + 18.75 = 30.25 \text{ m}^3$

Let the depth of liquid = 1.3m
plan area of the tank $\frac{30.25}{1.3} = 23.27 \text{ m}^2$ say 16m²

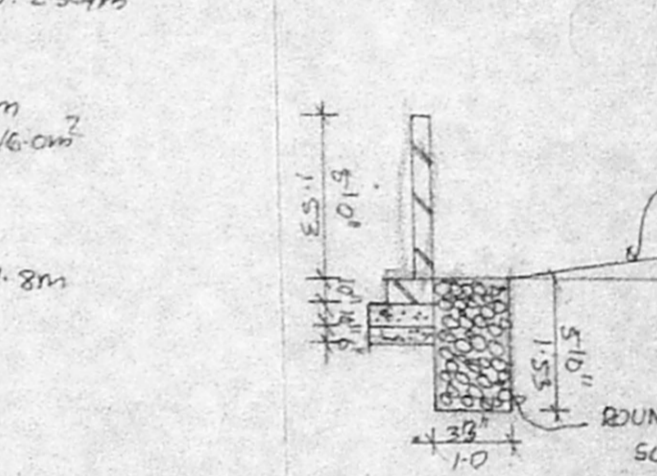
Let the length of the tank = 3 times the width (b)
 $3b \times b = 16 \text{ m}^2 \Rightarrow 3b^2 = 16 \Rightarrow b^2 = \frac{16}{3} \Rightarrow b = 2.309 \text{ m}$
Length of the tank $3b = 2.309 \times 3 = 6.927 \text{ m}$

Let length of the tank = 7m² width of the tank = 2.35m
Area of the tank provided $= 7 \times 2.35 = 16.45 \text{ m}^2 > 16 \text{ m}^2$

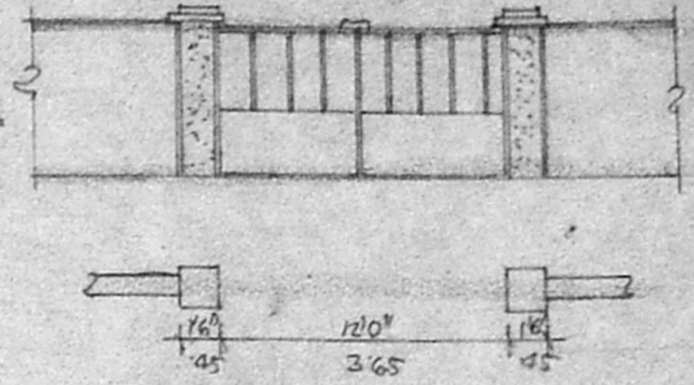
Assume free board = 0.5m
Total depth = 1.3 + 0.5 = 1.8m
Size of the tank provided = 7m x 2.35m x 1.8m
provide two up flow filters
Discharge = 50,000 litres
Volume = $50000 \times 0.045 = 22.5 \text{ m}^3$
Let depth = 0.8m
plan area required $= \frac{22.5}{0.8} = 28.125 \text{ m}^2$
Size of the final effluent sump = 2.3 x 1.4 x 1.75m
first flow filter = 1.4 x 0.7 x 0.8



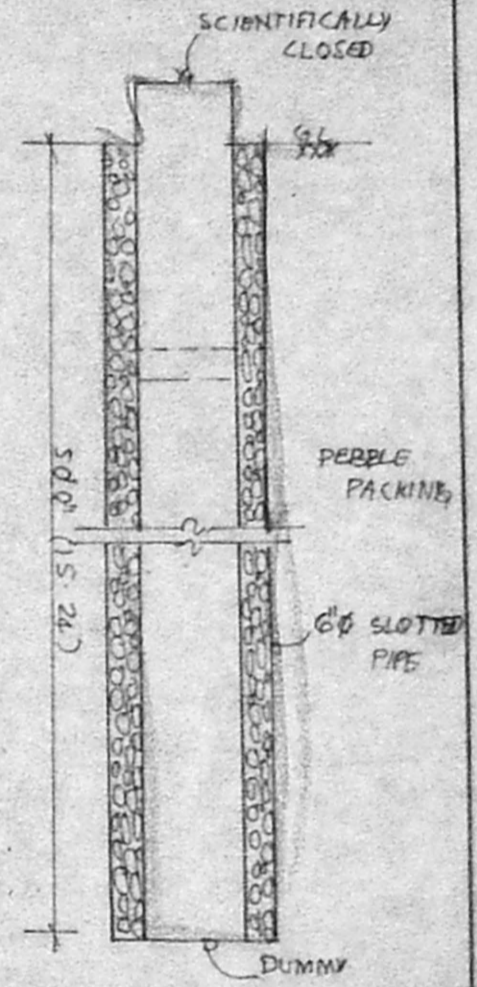
SECTION ON-A-B



SUMP DETAILS

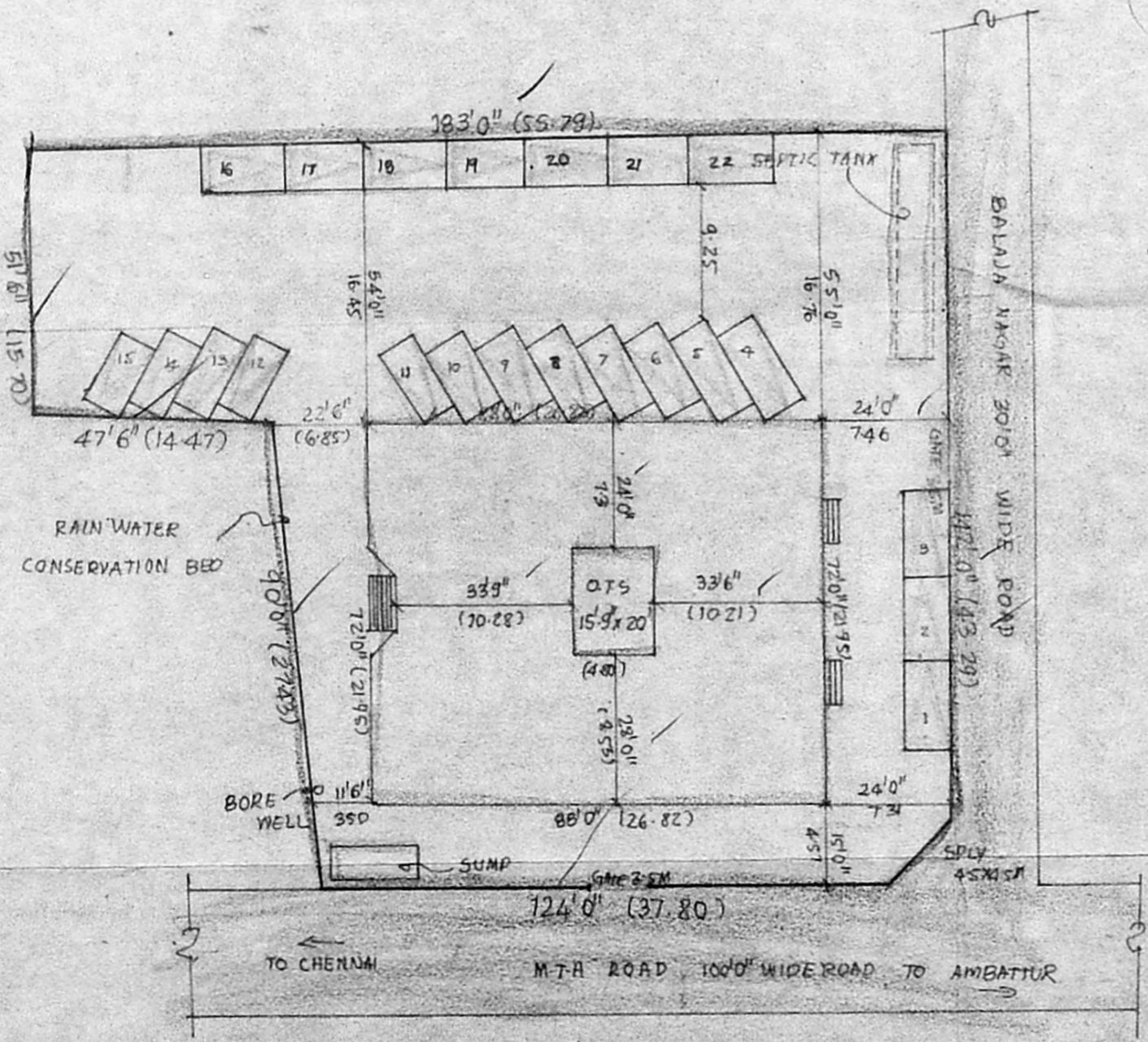


COMPOUND WALL DETAILS

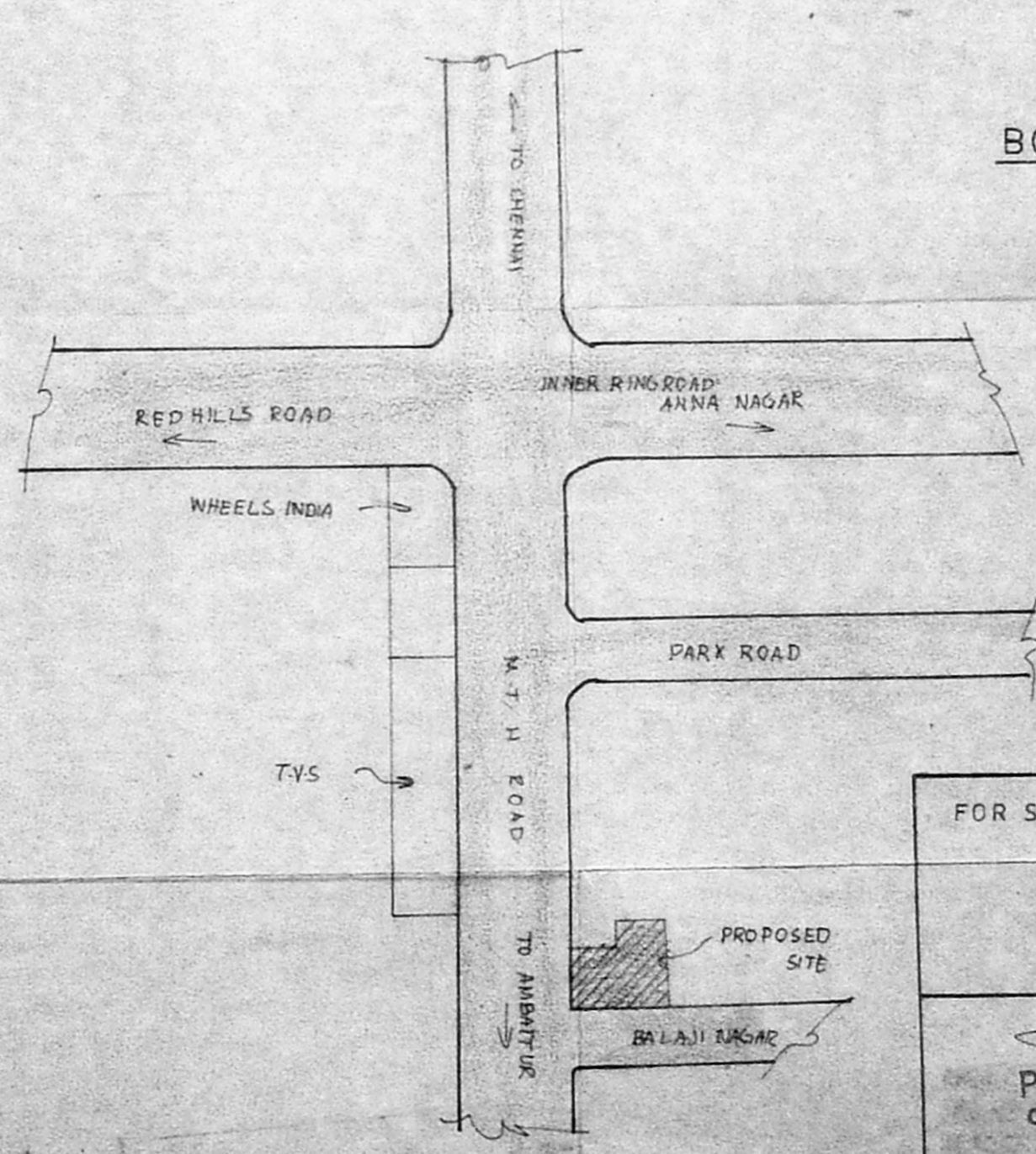


RAIN WATER CONSERVATION BED

BORE WELL DETAILS



SITE PLAN
(SCALE-1:400)



KEY PLAN (N.T.S)

FOR SRI BHAVANI INDUSTRIES
PARTNER
(OWNER)
P. BALAKRISHNAN, B.E. A.I.V.
CHARTERED ENGINEER REGD VALUER
CONSULTING CIVIL ENGINEER.
LICENSED SURVEYOR CLASS-I NO. 20587
CORPORATION OF CHENNAI.
NO. 877/11, M.T.H. ROAD,
PADI, CHENNAI-600 050.