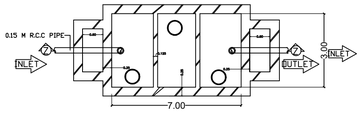
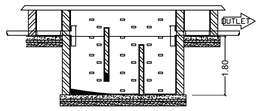
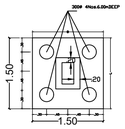


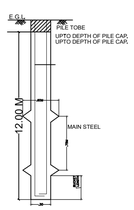
PLAN OF SEPTIC TANK.



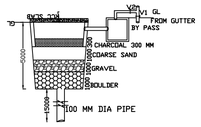
SECTION ON Z-Z



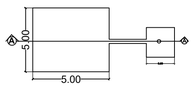
PLAN



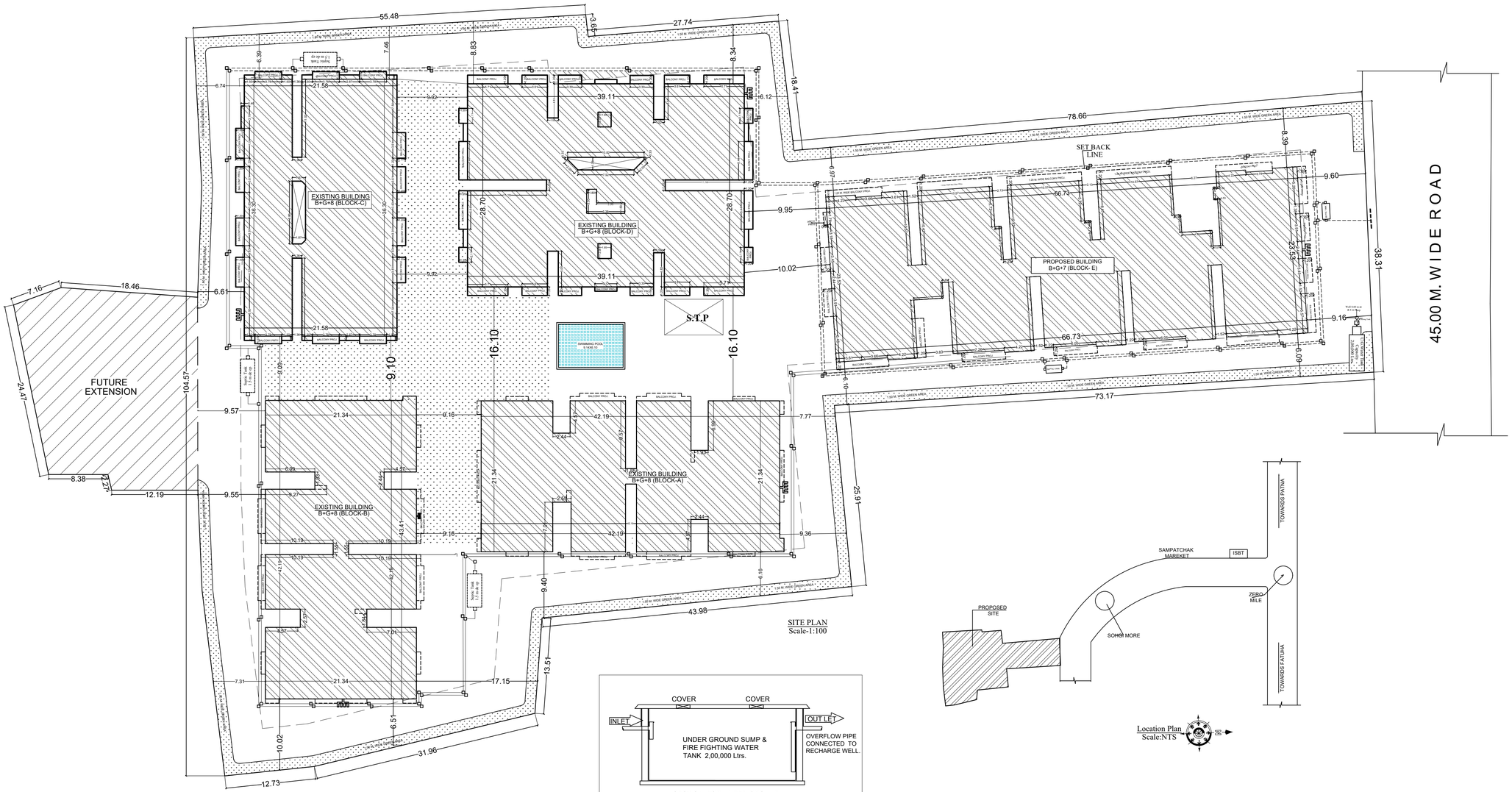
TYP. DET. OF PILE FOUNDATION.



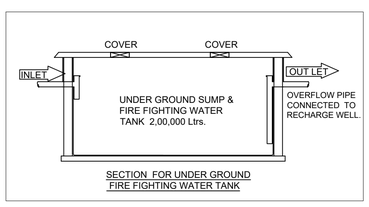
RECHARGE BORE WELL SECTION A-A



TYP.PLAN OF RECHARGE BORE WELL



SITE PLAN
Scale-1:100



SECTION FOR UNDER GROUND FIRE FIGHTING WATER TANK

Location Plan
Scale:NTS

AREA CALCULATION :-

01/012

TOTAL PLOT AREA AS/ DEED = 10733.48 sqm.
TOTAL PLOT AREA AS/ SITE = 10733.43 sqm.

B/u Area	Block-E RESIDENTIAL	Block-E COMMERCIAL	Block-A	Block-B	Block-C	Block-D
Upper Basement Floor Area	33.44 sqm.	0.00	9.50 m²	9.50 m²	8.36 m²	8.36 m²
Ground Floor Area	x x x x	1556.76 sqm	44.01 m²	44.01 m²	48.73 m²	66.90 m²
First Floor Area	x x x x	1556.76 sqm.	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Second Floor Area	x x x x	1556.76 sqm.	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Third Floor Area	x x x x	1556.76 sqm.	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Fourth Floor Area	1410.91 sqm.	x x x x	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Fifth Floor Area	1410.91 sqm.	x x x x	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Sixth Floor Area	1410.91 sqm.	x x x x	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Seventh Floor B/U Area	723.17 sqm.	x x x x	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Eighth Floor B/U Area	x x x x	x x x x	795.12 m²	795.12 m²	694.02 m²	975.39 m²
Total B/u Area	4989.34 sqm.	6227.04 sqm.	6414.47 m²	6414.47 m²	5609.25 m²	7878.38 m²

TOTAL AREA OF APPROVED BLOCK+ PRPOSED BLOCK : (A+B+C+D+ E)= 37532.95 m²

FAR= 37532.95 /10733.43=3.49

PARKING CALCULATION CALCULATION :-

TOTAL B / U AREA = 37,532.95 m²
@15 % DUDECT FOR SERVICE AREA =(37532.95-5629.94)=31,903.01m²
NET B/U AREA=31903.01m²
REQ. PARKING AREA @25 % OF NET B/U AREA
=31903.01 X 25% =7975.75 m
(REQUIRED)

Provided	Block-A	Block-B	Block- C	Block-D	BLOCK-E
Basement Floor Plan	904.36 m²	904.36 m²	801.77 m²	1093.44 m²	(1536.73 X 2) =3073.46 SQM. (Double decor parking)
Ground Floor Plan	869.85 m²	869.85 m²	761.74 m²	1035.24 m²	X X X

TOTAL PROVIDED PARKING AREA BLOCK (COMMERCIAL+A+B+C+D +DUPLEX) = 10314.07 m²
(PROVIDED)

POPULATION DENSITY CALCULATION :-

RESIDENTIAL :-

TOTAL NO. OF FLAT(BLOCK -E) = 36 NOS.
TOTAL NO. OF FLAT(BLOCK -A) = 64 NOS.
TOTAL NO. OF FLAT(BLOCK -B) = 64 NOS.
TOTAL NO. OF FLAT(BLOCK -C) = 64 NOS.
TOTAL NO. OF FLAT(BLOCK -D) = 96 NOS.

TOTAL NO. OF FLAT =324 NOS.
EACH FLAT HAVING 5 PERSON
SO TOTAL NO OF PERSON =324 x 5 = 1620 nos.

COMMERCIAL
TOTAL B/U AREA = 6227.04 SQM.
TOTAL CARPET AREA=6227.04 / 2 =3113.52 SQM.
TAKING DENSITY OF 6 SQM. CARPET AREA PER PERSON
= 3113.52 / 6 = 518.92 ,SAY 519 PERSON.
TOTAL NO OF PERSON= (COMMERCIAL + RESIDENTIAL)
=1620+519=2139 PERSON

WATER TANK CALCULATION :-

COMMERCIAL :-
TOTAL NO OF PERSON = 519 NOS.
PER PERSON NEED 45 LTRS PER DAY
TOTAL PERSON NEED =519 X45 = 23,355.00 LTRS.
(REQUIRED)

RESIDENTIAL :-
SO TOTAL NO OF PERSON =1620NOS.
PER PERSON NEED 45 LTRS PER DAY
TOTAL PERSON NEED =1620 X 135 = 2,18,700.00 LTRS.
& WATER TANK REQ. FOR FIRE FIGHTING 25,000.00 LTRS.EATCH BLOCK=25,000X5=1,25,000 Ltrs
TOTAL REQ. WATER TANK CAPACITY
=23,355+2,18,700+1,25,000 =3,67,055.00 Ltrs

PROVIDED WATER TANK
BLOCK- COMMERCIAL
(01) 5.67 x 6.03X1.40 = 47,800.00 Ltrs.
(02) 5.67 x 6.03X1.40 = 47,800.00 Ltrs.
BLOCK-A
(A1) 7.03X6.07X0.90)=38,400.00 Ltrs.
(A2) 7.03X6.07X0.90)=38,400.00Ltrs.
BLOCK-B
(B1) 7.03X6.07X0.90)=38,400.00 Ltrs.
(B2) 7.03X6.07X0.90)=38,400.00Ltrs.
BLOCK-C
(C1) = 64.72 X 2.44 X0.90 =10,300 Ltrs.
(C2) = =6.07X4.65X0.90 =25,400Ltrs.
(C3) = 76.27X5.65X0.90 =31,800 Ltrs.

BLOCK-D
(D1) 4.72X2.44X0.90 =10,300 Ltrs.
(D2) 6.07X4.65X0.90 =25,400 Ltrs.
(D3) 6.27X5.65X0.90 =31,800 Ltrs.
Total water tank = 3,84,200 Ltrs.
(Provided)

SEPTIC TANK CALCULATION :-

TOTAL NO OF PERSON =2139 PERSON.
PER PERSON NEED 0.085 CUM. CAPACITY OF
SEPTIC TANK PER DAY SO TOTAL REQ. CAPACITY
TOTAL PERSON NEED =2139 X 0.085= 181.81 CUM.

TOTAL REQ.SEPTIC TANK CAPACITY = = 181.81 CUM.
(REQUIRED)

PROVIDED

(PROVIDED)PROVIDED SEPTIC TANK SIZE 5 NOS
= (7.00 X 3.0 X 1.80)X5 = 189.00 CUL.
(PROVIDED)

FIRE LEGEND :-

01.HYDRANT OUT LET VALVE WET----------
02.HOSE REEL
03.SEMAC CONNECTED FOR FIRE BRIGADECONNECTED TO WET RISER----------
04.ELECTRICALLY INSULATED METAL STRIP ---
05.UNDER GROUND TANK OF 2,00,000 Ltrs--- 2,00,000 Ltrs
06.O.H.W.TANK FOR FIRE FIGHTING ------ 25,000 Ltrs. Ecah Block
08.FIRE ALARM CALL POINT
09.AUDIABLE ALARM CALL POINT ----------
10.LOUDSPEAKER OUTLET ----------
11.CO2 FIRE EXTINGUISHER ---------- CO2
12.FIRE RESISTANT DOOR ---------- F.D
13.AUTOMATIC SMOKE DETECTOR ---------- SD
14.AUTOMATIC SPRINKLER ----------
15.EMERGENCY LIGHT POINT ----------

GREEN SPACE CALCULATION :-

TOTAL NET PLOT AREA = 10,733.43 sqm.
GREEN AREA REQUIRED @10% OF
TOTAL PLOT AREA =1073.34 sqm.

PROVIDED GREEN SPACE AREA = 1265.32 sqm.

WATER HARVESTING SUMP CALCULATION :-

TERRACE FLOOR AREA = 5083.10 sqm.
RAIN WATER HARVESTING SUMP REQ. 6 CUM FOR EVERY 100 SQM. TERRACE AREA, SO TOTAL REQ. CAPACITY OF SUMP = 50.83x 6 = 304.98 CUM.
PROVIDED TANK SIZE(3 NOS)
=(5.00 x 5.00 X 5.00)X3 = 375.00 cum
(PROVIDED)

PLOT DETAIL:-

PROPOSED RESIDENTIAL CUM COMMERCIAL BUILDING FOR "UJJWAL HOMES PVT. LTD."
DIRECTOR- SRI ALOK KUMAR,
AT SURVEY PLOT NO.-291,292,302,&312,
THANA NO.-126,KHATA NO.- 247,252,219,206.
MAUZA- SOHAGI, THANA - PHULWARI,(OLD),
THANA - GAURICHAK(NEW) , DIST.- PATNA

SCALE.
1 :100
1 :200

NORTH.

SIGN. OF EMPANELLED STRUCT. ENGINEER.

SIGNATURE OF BUILDER / DEVELOPER

SIGN. OF EMPANELED ARCHITECT.