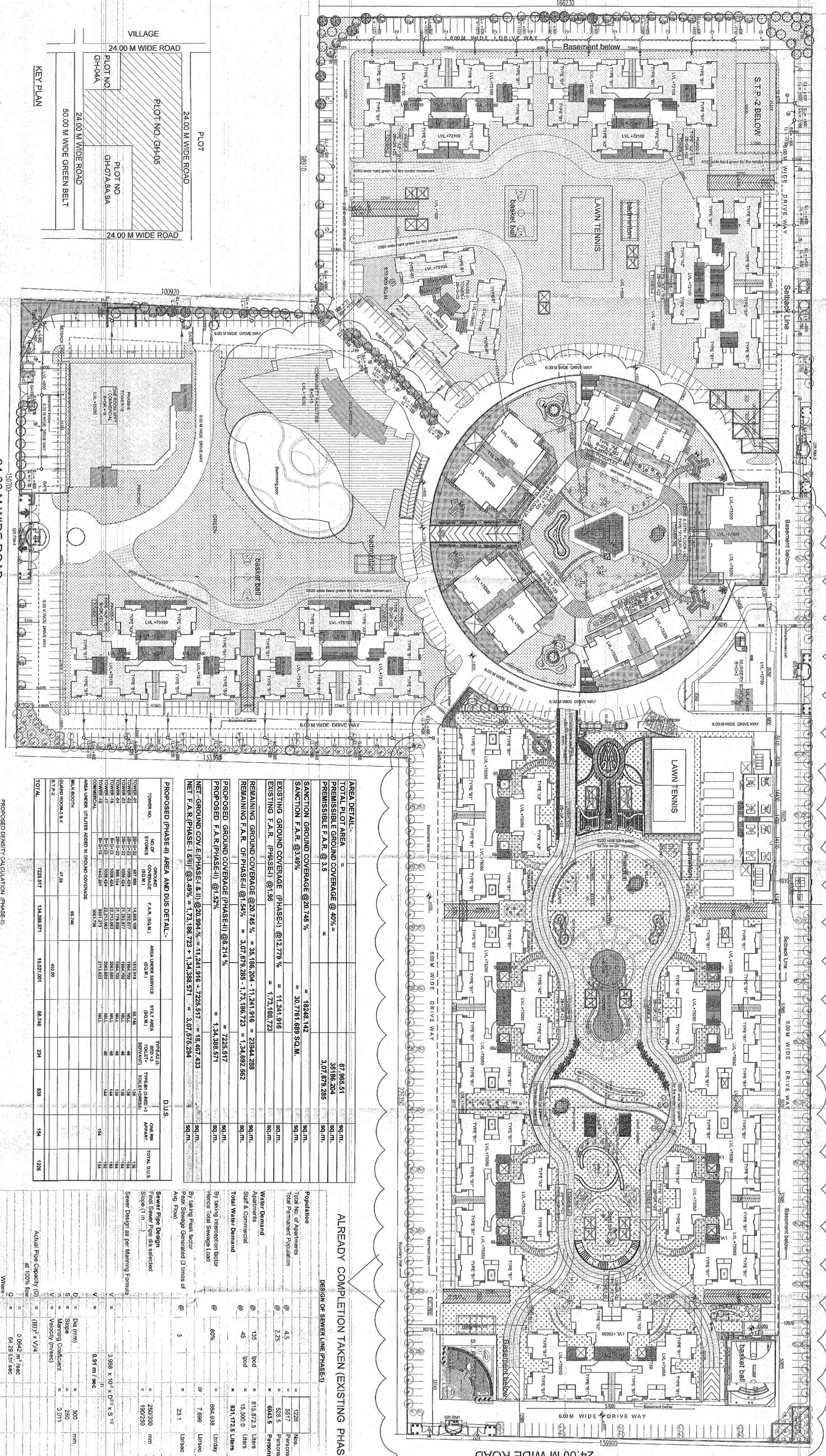


24.00 M WIDE ROAD

24.00 M WIDE ROAD



SHEET NO. - 06B

EXTERNAL SEWER LAYOUT PLAN

S.NO.	DESCRIPTION	SYM.
1.	2500 R.C.C SEWERAGE PIPE (SLOPE 1:100)	①
2.	3000 R.C.C SEWERAGE PIPE (SLOPE 1:200)	②
3.	4500 R.C.C SEWERAGE PIPE (SLOPE 1:300)	③
4.	GROUND LEVEL	GL
5.	INVERT LEVEL	ILL
6.	CONNECTION INVERT LEVEL	ICLL
7.	CIRCULAR MANHOLE 900mm dia	○

ALREADY COMPLETION TAKEN (EXISTING PHASE-I)

DESIGN OF SEWER LINE (PHASE-II)

Population	1226	Nos.
Total No. of Apartments	5517	Persons
Total Permanent Population	6043.5	Persons
Water Demand	815.872.5	Liters
Staff & Commercial	15,300.0	Liters
Total Water Demand	831,172.5	Liters
By taking interception factor	694,138	Litres
Hence Total Sewerage Load	7,895	Litres
By taking Peak factor	23.1	Litres
Peak Sewerage Generated @ times of Avg Flow	180,653	Litres

PROPOSED (PHASE-II) AREA AND DIS DETAIL:-

TOWER NO.	NO. OF COVERAGE	GROUND F.A.R. (SQ.M.)	AREA UNDER SERVICE (SQ.M.)	STREET AREA (SQ.M.)	TOTAL D.U.S. (SERVANT)	TOTAL D.U.S. (ONE BIN APART.)	TOTAL D.U.S.
TOWER 01	28	871.88	14,554.10	83.28	46	46	132
TOWER 02	28	1008.24	16,524.00	111.12	58	58	162
TOWER 03	28	1008.24	16,524.00	111.12	58	58	162
TOWER 04	28	1008.24	16,524.00	111.12	58	58	162
TOWER 05	28	1008.24	16,524.00	111.12	58	58	162
TOWER 06	28	1008.24	16,524.00	111.12	58	58	162
TOWER 07	28	1008.24	16,524.00	111.12	58	58	162
TOWER 08	28	1008.24	16,524.00	111.12	58	58	162
TOWER 09	28	1008.24	16,524.00	111.12	58	58	162
TOWER 10	28	1008.24	16,524.00	111.12	58	58	162
TOWER 11	28	1008.24	16,524.00	111.12	58	58	162
TOWER 12	28	1008.24	16,524.00	111.12	58	58	162
TOWER 13	28	1008.24	16,524.00	111.12	58	58	162
TOWER 14	28	1008.24	16,524.00	111.12	58	58	162
TOWER 15	28	1008.24	16,524.00	111.12	58	58	162
TOWER 16	28	1008.24	16,524.00	111.12	58	58	162
TOWER 17	28	1008.24	16,524.00	111.12	58	58	162
TOWER 18	28	1008.24	16,524.00	111.12	58	58	162
TOWER 19	28	1008.24	16,524.00	111.12	58	58	162
TOWER 20	28	1008.24	16,524.00	111.12	58	58	162
TOWER 21	28	1008.24	16,524.00	111.12	58	58	162
TOWER 22	28	1008.24	16,524.00	111.12	58	58	162
TOWER 23	28	1008.24	16,524.00	111.12	58	58	162
TOWER 24	28	1008.24	16,524.00	111.12	58	58	162
TOWER 25	28	1008.24	16,524.00	111.12	58	58	162
TOWER 26	28	1008.24	16,524.00	111.12	58	58	162
TOWER 27	28	1008.24	16,524.00	111.12	58	58	162
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TOWER 38	28	1008.24	16,524.00	111.12	58	58	162
TOWER 39	28	1008.24	16,524.00	111.12	58	58	162
TOWER 40	28	1008.24	16,524.00	111.12	58	58	162
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TOWER 42	28	1008.24	16,524.00	111.12	58	58	162
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TOWER 83	28	1008.24	16,524.00	111.12	58	58	162
TOWER 84	28	1008.24	16,524.00	111.12	58	58	162
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TOWER 86	28	1008.24	16,524.00	111.12	58	58	162
TOWER 87	28	1008.24	16,524.00	111.12	58	58	162
TOWER 88	28	1008.24	16,524.00	111.12	58	58	162
TOWER 89	28	1008.24	16,524.00	111.12	58	58	162
TOWER 90	28	1008.24	16,524.00	111.12	58	58	162
TOWER 91	28	1008.24	16,524.00	111.12	58	58	162
TOWER 92	28	1008.24	16,524.00	111.12	58	58	162
TOWER 93	28	1008.24	16,524.00	111.12	58	58	162
TOWER 94	28	1008.24	16,524.00	111.12	58	58	162
TOWER 95	28	1008.24	16,524.00	111.12	58	58	162
TOWER 96	28	1008.24	16,524.00	111.12	58	58	162
TOWER 97	28	1008.24	16,524.00	111.12	58	58	162
TOWER 98	28	1008.24	16,524.00	111.12	58	58	162
TOWER 99	28	1008.24	16,524.00	111.12	58	58	162
TOWER 100	28	1008.24	16,524.00	111.12	58	58	162

PROPOSED DENSITY CALCULATION (PHASE-II)
 DENSITY @ 4.5 PERSON IN ONE D.U.S = 1226 X 4.5 = 5517 PERSONS
 DENSITY @ 2.25 PERSON IN SERVANT QUARTER = 234 X 2.25 = 526.50 PERSONS
 TOTAL = 6043.50 PERSONS
 PROPOSED DENSITY (PHASE-II) 6043.50 / 8796 = 6.87 (07.22) P/A

SEWER PIPE DESIGN

Actual Pipe Capacity (Q) = $(\frac{D}{4})^2 \times V \times 3.14$

Where -
 Q = Pipe Capacity (lit/sec)
 D = Dia (mm)
 V = Velocity (m/sec)

Actual Pipe Capacity at 100% flow = 64.29 Litres/sec
 Site peak discharge is less than 50% of pipe capacity, hence 300mm Pipe Dia is OK

REVISION SUBMISSION DRAWING (PHASE-II)

EXTERNAL SEWER LAYOUT PLAN

ARCHITECT:
 DEVELOPMENTS CONSULTANT
 ARCHITECTS ENGINEERS & PLANNERS
 209-C, MASILU MOUTH, OPP. R.R. BLOCK (N.D.S.E. II)
 PHONE: 011-2625880/4906894

PROPOSED GROUP HOUSING
 FOR PURANJAL PROJECTS PVT.LTD.
 ON PLOT NO. GH-03, SECTOR - CHV,
 GREATER NOIDA, U.P.

SCALE 1:500
 DATE: 17-12-18

ASPECT'S SIGNATURE

OWNERS SIGNATURE

