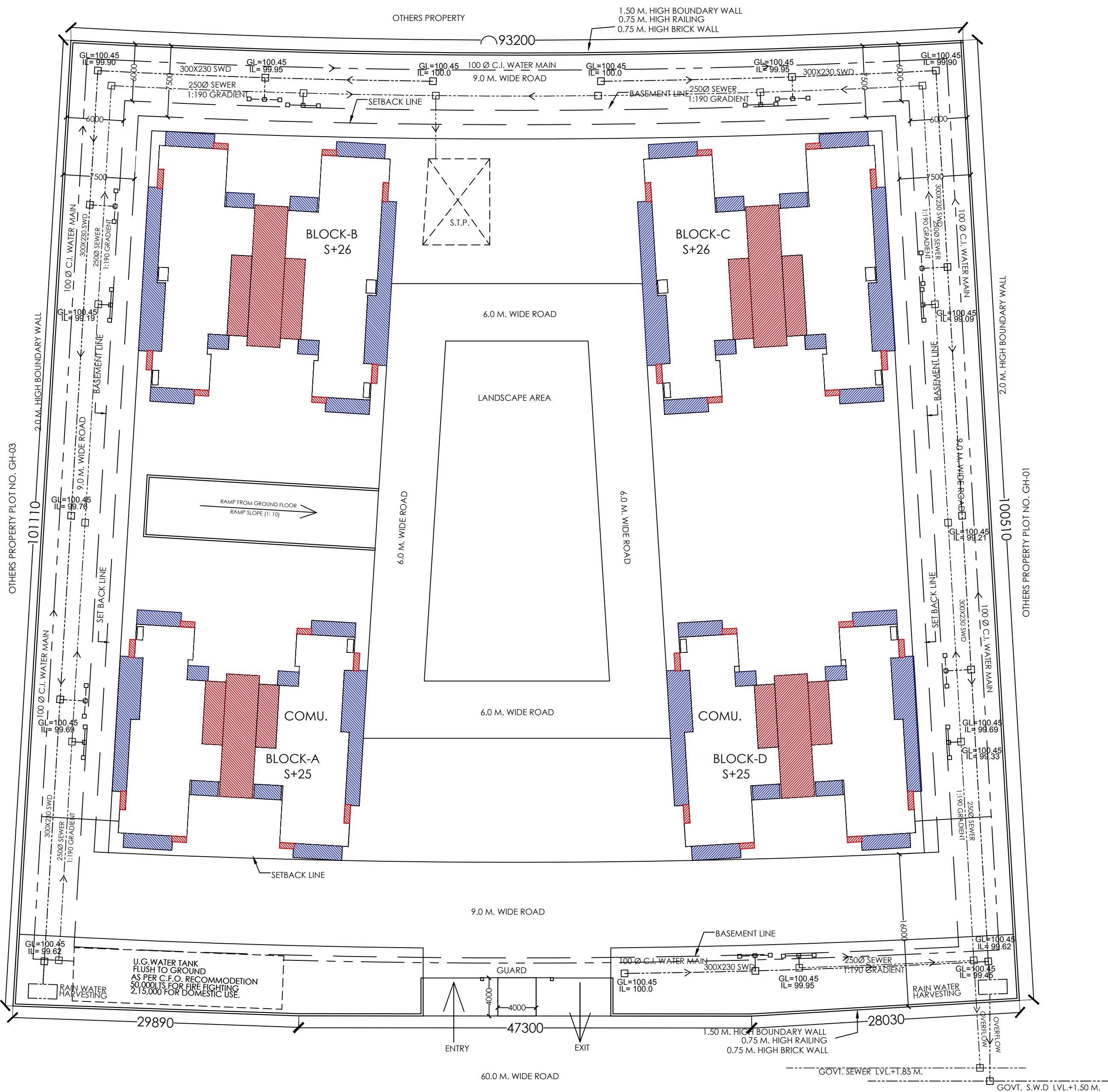




250 Ø SEWER LINE 1:190 -----
150 Ø SEWER LINE 1:100 -----
100 Ø SEWER LINE 1:150 -----

AREA CALCULATIONS:-

TOTAL PLOT AREA = 10000 SQ.M.

NUMBER OF DWELLING UNITS = 366

TOTAL POPULATIONS =1647 PERSONS

SEWERAGE:-

TOTAL POPULATION = 1647

AVG. DISCHARGE @ 135 LIT/HEAD/DAY

= 1647 X 135 = 2,22,345 LIT.

PEAK DISCHARGE = 3 X 2,22,345 = 667035 LIT.

SUBSOIL FILTRATION = 45 X 1647 = 74115 LIT.

TOTAL = 741150 LIT.

= 7.41 x 10⁻³ m /sec.

CAPACITY OF 250 MM Ø SEWER :-

$S = 1:190, m = \frac{2\pi d^2}{8\sqrt{xd}} = \frac{d}{4} = 0.25 m, n = 0.015$

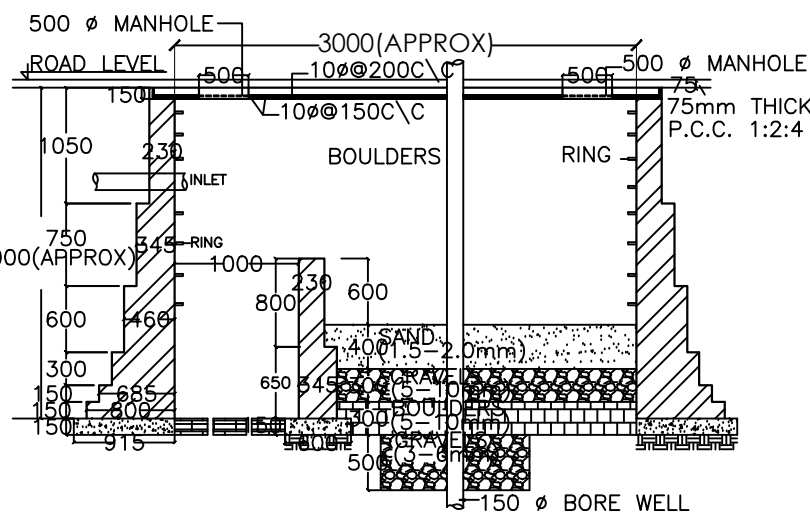
$v = \frac{1}{n} \times m^{\frac{2}{3}} \times 5^{\frac{1}{2}} = \frac{1}{0.015} \times (0.0625)^{\frac{2}{3}} \times \frac{1}{190}^{\frac{1}{2}}$

= 0.76 m /sec

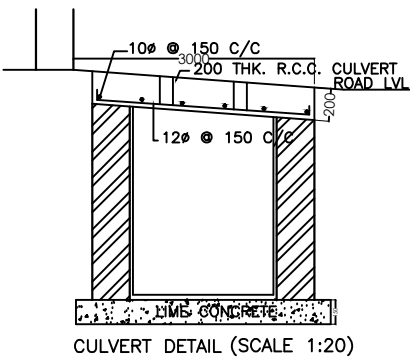
$c = av = \frac{\pi d}{8} \times 0.76 = \frac{\pi \times 0.25^2}{4} \times 0.76$

= 0.0373 cu.m/sec. > 0.0038 cu.m/sec.

- 250 mm Ø SEWER PIPE IS O.K.



PART SECTION OF RECHARGE STRUCTURE



PROJECT:-
GROUP HOUSING FOR
M/s. DEVSAI CONSTRUCTION PVT. LTD.
SPORTS CITY PLOT NO.GH-02, SECTOR-ADJOINING TECHZONE-IV, GREATER NOIDA. (U.P.)

SIGNING AUTHORITY

ARCHITECT'S SIGN

SUBMISSION DRAWING

DRG. TITLE: DEVELOPMENT PLAN

SCALE:-1:250

DIT.BY:-

DRG. NO.: 18

DATE:-27/08/2014

NORTH

ARCHITECTS:-

P. N. ANDLEY B.Arch. A.J.A.

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