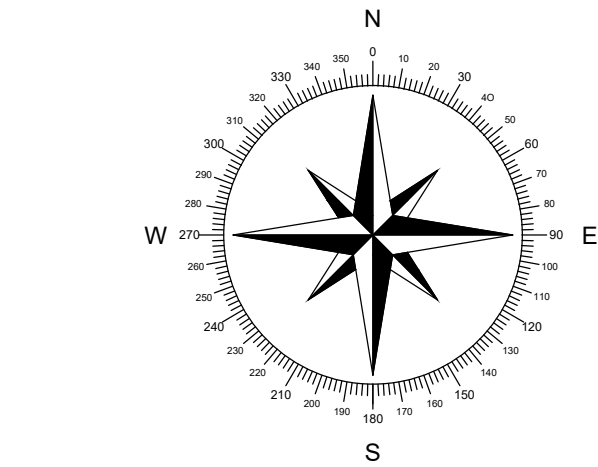
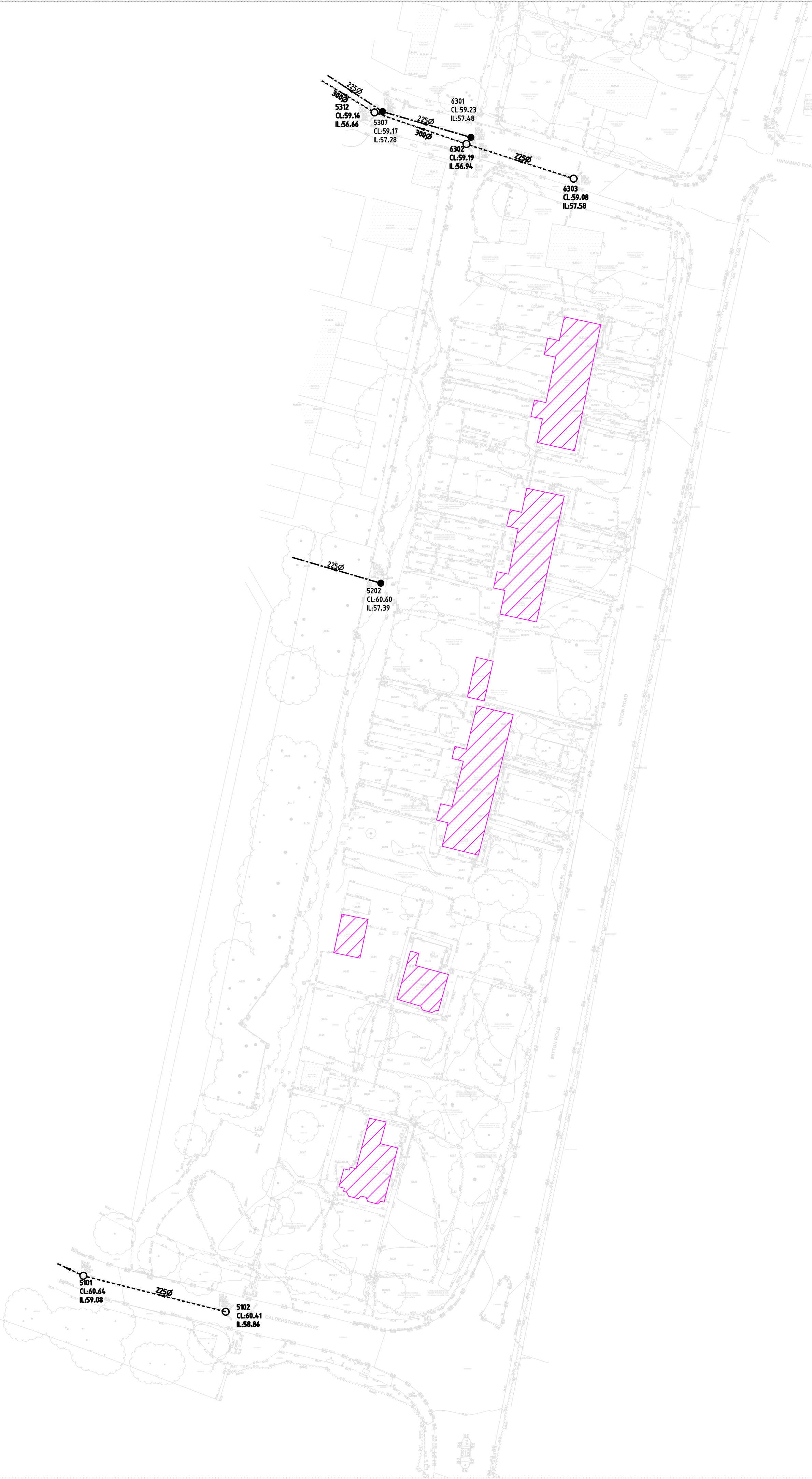
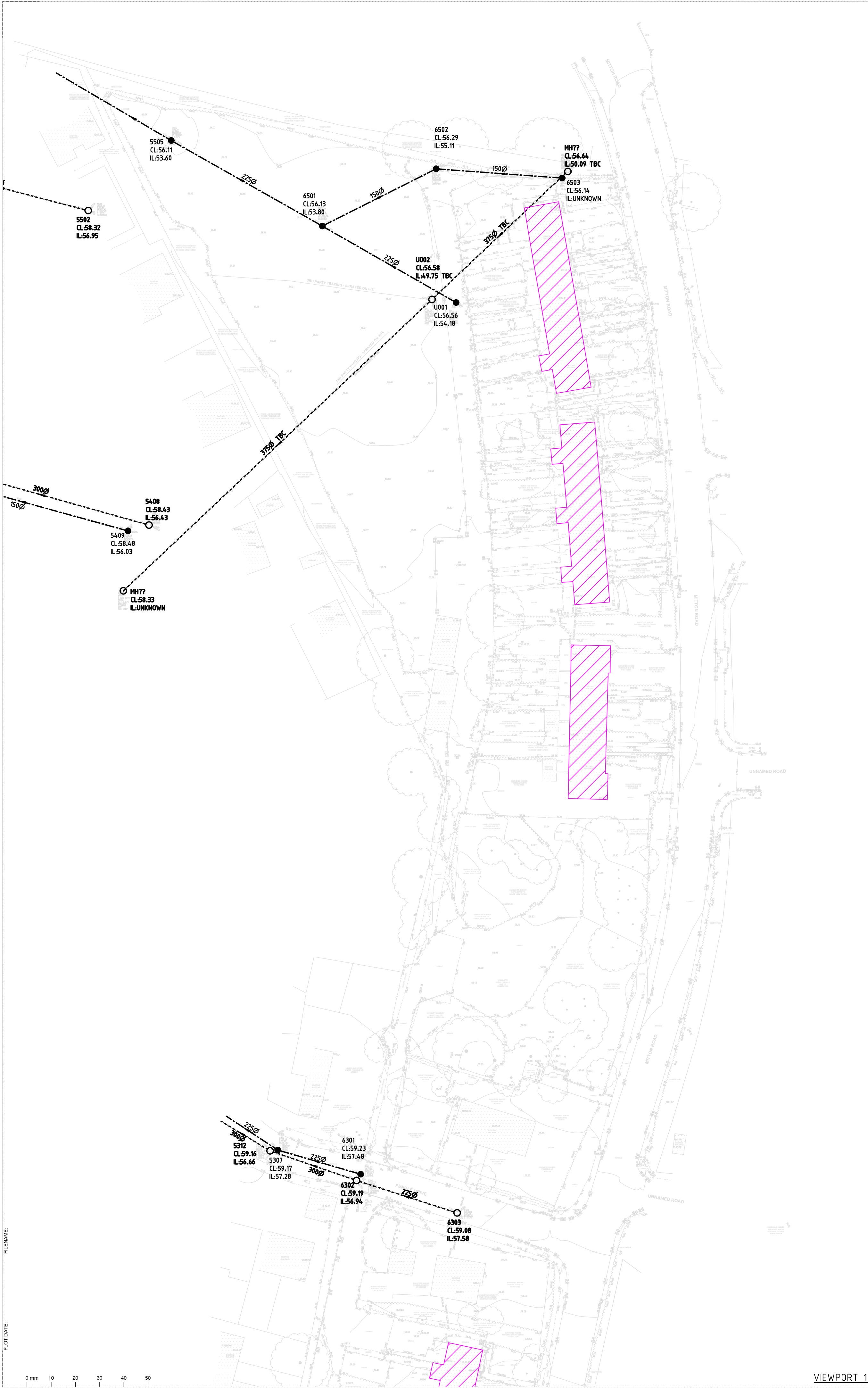




NOTES:

THE WALLINGFORD PROCEDURE HAS BEEN USED TO CALCULATE THE ESTIMATED RUNOFF FROM THE EXISTING HOUSES.

DR = 2.78 X A X I

WHERE:

DR = DISCHARGE RATE (LITRES PER SECOND)

A = AREA (HECTARES)

I = RAINFALL INTENSITY (MM/HR)

EXISTING IMPERMEABLE AREA TAKEN FROM TOPOGRAPHIC SURVEY IS 1671M². AVERAGE RAINFALL INTENSITY ASSUMED AT 50MM/HR.

50 EXISTING RUN OFF =

2.78 X 0.1671 X 50 = 23.2 LITRES PER SECOND. A BETTERMENT OF 20% IS PROPOSED TO REDUCE THE BROWNFIELD ELEMENT OF THE SITE TO 16.24 L/S.

THE REMAINING GREENFIELD AREA (22748M²/10F THE SITES RUNOFF RATE OF 17.83 HAS BEEN CALCULATED USING THE GREENFIELD RUNOFF TOLL FROM THEIR WALLINGFORDS UK SUDS WEBSITE.

TOTAL EXISTING QBAR RUNOFF RATE FROM THE SITE IS CALCULATED AS 34.07 L/S.

GREENFIELD RATE PROPOSED AT 19.3 LITRES PER SECOND OFFERING A 44% REDUCTION IN RUNOFF RATE.



VIEWPORT LOCATION PLAN
NOT TO SCALE

P03	22.03.21	Calculations updated		J.C	R.A
P02	11.02.21	Additional existing surface and foul water runs added		J.C	R.A
P01	08.12.20	PRELIMINARY - Issued for Information		J.C	R.A
Rev	Date	Description		By	CHK
 Manchester . UK 3rd Floor, Canavan Court, 12 Blackfriars Street, Manchester, M3 5BQ, United Kingdom T: +44 (0) 161 834 1938 E: manchester@edgece.com The concepts + information contained in this document are the copyright of EDGE Consulting Engineers. Use or copying of this document in whole or in part without the written permission of EDGE Consulting Engineers constitutes an infringement of copyright. DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!					
Project Name MITTON ROAD WHALLEY					
Client PROSPECT HOMES					
Designed	Drawn	Checked	Scale @ A1		
R.A	J.C	R.A	1:500		
Drawing Title EXISTING DRAINAGE AREAS AND RUNOFF RATES					
Project No. 200903					
PRELIMINARY NOT FOR CONSTRUCTION Revision 200903-EDGE-XX-XX-DR-C-2003 P03					