

HTON OLD ROAD

COVER AND INVERTS OF
EXISTING SEWERS SHOULD
BE CHECKED ON SITE
PRIOR TO CONSTRUCTION

ALL RWP AND SVP'S TO BE
CHECKED AGAINST
ARHICTECTS LAYOUT PLANS

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 4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
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 6. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ADVANT ENGINEERS DRAWINGS AND SPECIFICATIONS.

- KEY
- EXISTING COMBINED SEWER
 - PROPOSED FOUL SEWER
 - PROPOSED SW SEWER
 - PERMEABLE PAVING
 - RAIN GARDEN

C	UPDATED TO LLFA COMMENTS	MJM	31.05.24
B	LAYOUT UPDATED	MJM	29.01.24
A	INITIAL ISSUE	MJM	29.07.22
REV	AMENDMENTS	BY	DATE

FOR APPROVAL

STATUS	CHK'D
PRELIMINARY	MJM
FOR COMMENT	MJM
FOR APPROVAL	
FOR CONSTRUCTION	
AS BUILT	



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CLIENT
TRAFFORD LEARNING
VOCATION CENTRE

CONTRACT
REDBY STREET
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M11 2NP

TITLE
DRAINAGE LAYOUT PLAN

DRAWN	MJM	CHK'D	MJM
SCALE	1:125 @ A1	DATE	29.07.22

JOB No	DRG No	REV
22034	101	C

SURFACE WATER

In accordance with the SuDS Hierarchy then infiltration should be considered in the first instance, based upon the ground conditions it is expected that infiltration does not work.

As soakaways are not expected to work and then discharge to a watercourse should be the next considered point of discharge, as there are no watercourses in the vicinity it is proposed to discharge to the public sewer via a new manhole.

Discharge of the surface water is proposed to go to the United Utilities Combined Sewer located in Whitworth Street via a new manhole to be constructed on the line of the existing combined sewer, this flow will be restricted to a controlled rate with attenuation on site.

The site does have some areas of hard standing but it has not been proved that these connect into the public system, therefore the site has been treated as greenfield runoff which generates the following flows along with the equivalent orifice size to achieve those flows:

QBar = 1.72 l/s (27mm)
1 in 1 Year = 1.50 l/s (25mm)
1 in 30 Year = 2.93 l/s (36mm)
1 in 100 Year = 3.58 l/s (40mm)

In this industrial environment it is considered an orifice less than 50mm is a high risk of blockages, therefore we have utilised a 50mm orifice which allows a discharge rate of 5.0l/s.

It has been envisaged to store up the 1 in 100 year + 40% climate rainfall event on site in a cellular tank.

FOUL DRAINAGE

The foul is proposed to connect into the existing combined sewer in Ashton Old road.

