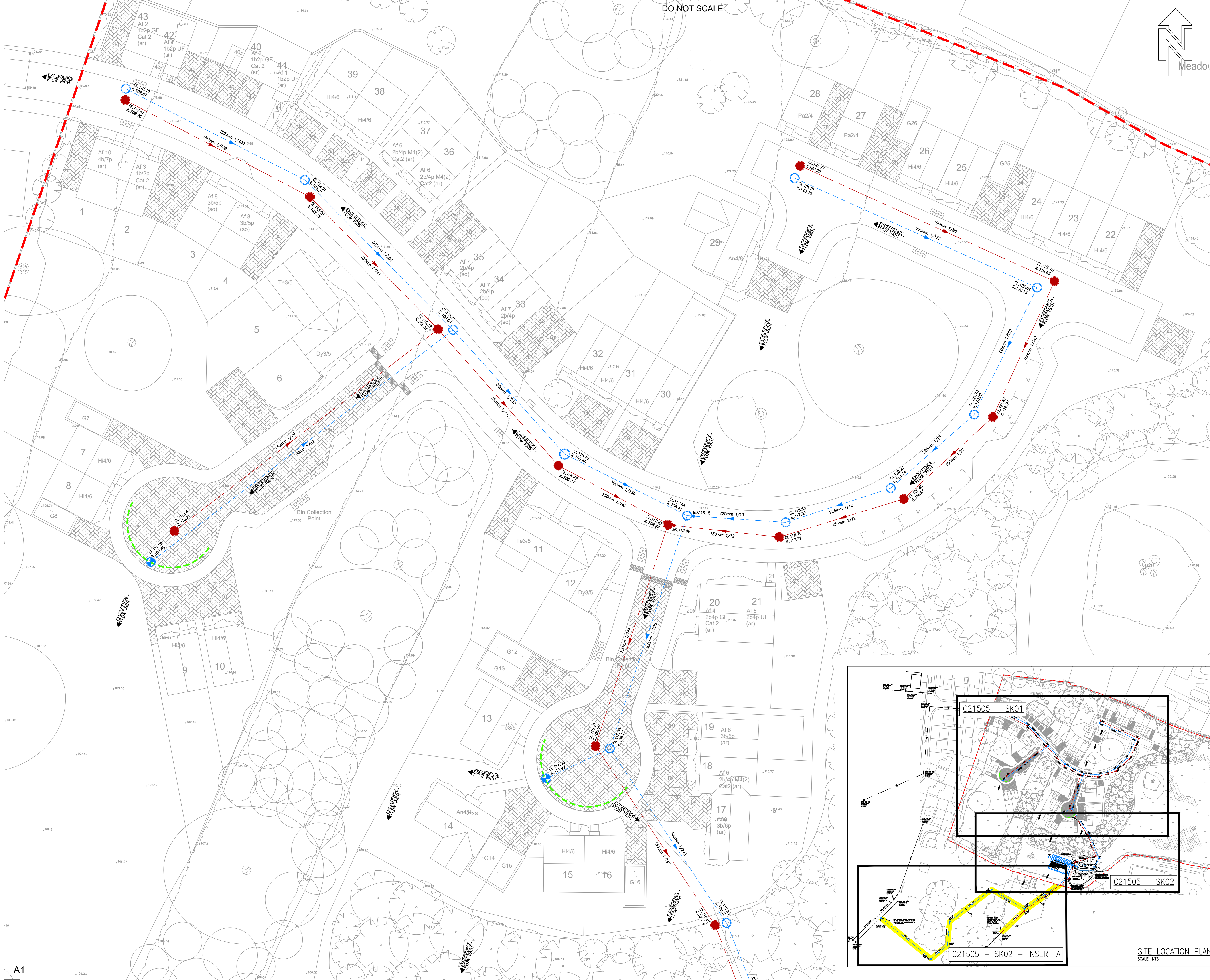




DRAINAGE LEGEND

150mm 1/100

150mm 1/100

Perforated collector pipe.

Denotes extent of permeable block paving.

Area of easement, min width of 2.5m either side of pipework

Site boundary.

SDS Aqua-swirl.

Surface water sewer

Foul water sewer

Surface water catchpit manhole

Surface water manhole

Foul water manhole

SURFACE WATER DESIGN NOTES 1

1.

It is understood that ground conditions are unsuitable for infiltration drainage techniques. Therefore, it is proposed to drain surface water runoff via a traditional network of underground pipework to an existing Severn Trent Water sewer located in Charlton Court Road.

2.

The sites greenfield runoff rate (GBAR) has been calculated as 2.5 litres / second using the IH24 method.

3.

Prior to discharging surface water flows to the surface water sewer, flows will be restricted to the sites greenfield runoff rate (GBAR) using a Hydrabrace flow control device, with excess surface water flows stored and attenuated within a below ground geocellular tank, for all return periods up to and including the 1 in 100 year design event plus a 40 allowance for climate change.

4.

Water quality improvements will be provided by the use of permeable block paving, a pond and a Hydrodynamic Vortex Separator 'Aqua-swirl' by SDS Limited.

D	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT.	JA	12.01.21
C	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT. SURFACE WATER DISCHARGE RATE DECREASED TO SUIT REDUCED IMPERMEABLE AREA.	JA	15.04.20
B	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT. SURFACE WATER DISCHARGE RATE DECREASED TO SUIT REDUCED IMPERMEABLE AREA.	LWK	22.05.19
A	DRAWING UPDATED TO SUIT LATEST SITE LAYOUT.	EL	22.10.18
MK	REVISION	BY	DATE

DRAWING STATUS
PLANNING

DRAWING TITLE
DRAINAGE LAYOUT SHEET 1 OF 2

PROJECT Project Number C21505

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CHARLTON KINGS
CHELTENHAM

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Drawn
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Chkd
ADC

Scales
1:250 @ A1

Date
OCT 2018

Purpose of Issue
PLANNING

Drawing Number
C21505 - SK01

Revision
D

A1