



PRELIMINARY SW DRAINAGE CALCS

site co-ordinates: E 445043 N 293244
Nearest Postcode: LE10 2AY
M5-60 - 19.6mm
Ratio R - 0.41

Existing Qbar Rate = 4.3 l/s/ha
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

NETWORK 3 - WEST CATCHMENT PRELIMINARY SURFACE WATER DRAINAGE CALCS

Dev area = 2.526ha
Dev area @65% Imp Area = 1.64ha
+10% Urban Creep = 1.80ha

Existing Qbar Rate = 4.3 l/s/ha
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

Allowable discharge rate for catchment
 $1.64 \text{ (imp ha)} \times 4.3 \text{ (Qbar)} = 7.0 \text{ l/s}$

NETWORK 2 - CENTRAL CATCHMENT PRELIMINARY SURFACE WATER DRAINAGE CALCS

Dev area = 3.190ha
Dev area @65% Imp Area = 2.07ha
+10% Urban Creep = 2.28ha

Existing Qbar Rate = 4.3 l/s/ha
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

Allowable discharge rate for catchment
 $2.07 \text{ (imp ha)} \times 4.3 \text{ (Qbar)} = 8.9 \text{ l/s}$

NETWORK 1 - EAST CATCHMENT PRELIMINARY SURFACE WATER DRAINAGE CALCS

Dev area = 3.558ha
Dev area @65% Imp Area = 2.31ha
+10% Urban Creep = 2.54ha

Existing Qbar Rate = 4.3 l/s/ha
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

Allowable discharge rate for catchment
 $2.31 \text{ (imp ha)} \times 4.3 \text{ (Qbar)} = 9.9 \text{ l/s}$

PRELIMINARY ENGINEERING: General Notes.

1. Do not scale this drawing. If in doubt, ask.
2. This drawing is to be used for preliminary appraisal of proposed works only. It is not intended for construction use.
3. This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details.
4. All dimensions are in metres unless noted otherwise. All levels are in metres unless noted otherwise.
5. Highway design shown is indicative only and subject to Housing layout confirmation, planning approval and Section 38/278 technical approval.
6. Drainage design shown is indicative only and subject to Housing layout confirmation, planning approval and Section 104 technical approval.

KEY:

- NETWORK 1 - DEVELOPMENT AREA CATCHMENT
- NETWORK 2 - DEVELOPMENT AREA CATCHMENT
- NETWORK 3 - DEVELOPMENT AREA CATCHMENT
- PROPOSED SEWER

NOTE: THIS DRAWING IS
INTENDED FOR PLANNING
PURPOSES ONLY

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CLIENT

Jelison
HOMES

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT AT
SAPCOTE ROAD,
BURBAGE
SOUTH SITE

TITLE

**SURFACE WATER
DRAINAGE STRATEGY
OVERVIEW**

DRAWN	SC	DATE	29-06-26	PURPOSE OF ISSUE
SCALE	1/2000	SIZE	A1	☒ PRELIMINARY ☐ APPROVAL ☐ CONSTRUCTION
DWG NO.	E409-00-10	REV.	B	