Notes:

1 All dimensions are in millimetres unless noted otherwise.

2 All levels are in metres unless noted otherwise.

3 This drawing is to be read in conjunction with all relevant Architects and Service Engineers drawings.

Ex.CW DN 600

Ex.CWMH 0301
CL 73.73
IL 68.61

Ex.CW DN 225

Ex.CWMH 0302
CL 73.63
IL 72.18

Ex.CW

New saddle connection into existing sewer tba.

CW DN150

CWMH01
CL 73.61
IL 71.78
DIA 1.35

SW DN150 @ 1:100
1.008

SWMH08
HB 7.0l/s @ 1.1m head
CL 73.57
IL 71.83
DIA 1.35

SW DN225 @ 1:163
1.007

IL 71.85

Pipe IL 72.20
Tank IL 71.87

Attenuation storage up to 1in100+CC:
'Pluvial Cube Standard Duty' Modular Tank Systems by E.S.S. 6.0m wide x 7.5m long x 1.075m deep installed as a double module layer.
(Module dims: 500x500x1075mm deep)

SW DN225 @ 1:100
1.006

7.000

SWMH07
CL 73.64
IL 72.23
DIA 1.35

S
CL 73.56
IL 72.85

SW DN150 @ 1:11

FW DN150 @ 1:92

Channel drain

FWMH01
CL 73.63
IL 71.93
DIA 1.20

G

SW DN225 @ 1:121
1.003

FW DN150 @ 1:100

G
CL 73.60
IL 73.15

SW DN150
6.000

SWMH06
CL 73.67
IL 72.40
DIA 1.35

SWMH05
CL 73.80
IL 72.50
DIA 1.35

SW DN225 @ 1:116
5.002

Existing drainage to be diverted as required.

Ex.CW DN 600

Styal Road

G

SW DN225 @ 1:165
1.004

G

SWMH03
CL 73.72
IL 72.46
DIA 1.35

SW DN225 @ 1:158
5.001

SW DN150 @ 1:10
1.003

SW DN225 @ 1:163
4.002

SWMH02
CL 73.89
IL 72.55
DIA 1.35

SWIC03
CL 73.90
IL 73.07

1.002

SW DN100 @ 1:77

FWIC02
CL 73.90
IL 72.77

FW DN100 @ 1:19

RWP

FWIC05
CL 73.90
IL 72.25

SW DN100
3.000

SW DN100 @ 1:57
2.001

FW DN100 @ 1:22

SWIC06
CL 73.90
IL 72.93

SWIC05
CL 73.90
IL 73.17

SWMH04
CL 73.77
IL 72.64
DIA 1.35

SW DN100 @ 1:79
1.001

FW DN100 @ 1:76

S
CL 74.00
IL 73.39

FWIC04
CL 73.90
IL 72.87

RWP

F.F.L.
74.00 tbc

FWIC01
CL 73.90
IL 72.90

RWP

SW DN225 @ 1:166
4.001

FW DN100 @ 1:66

SW DN100 @ 1:79
2.000

SWIC02
CL 73.90
IL 73.22

SW DN100 @ 1:74
1.000

RWP

SWIC01
CL 73.90
IL 73.30

SW DN100
3.000

FWIC03
CL 73.90
IL 73.00

RWP

SWIC04
CL 73.90
IL 73.30

G

S
CL 73.86
IL 73.25

Channel drain

4.000
SW DN100

SWMH01
CL 73.76
IL 72.63
DIA 1.35

TO SURVEY DUE TO CARS PARKED

Ex.CWMH 9201
CL 75.08
IL 69.43

Below Ground Drainage Strategy Layout

Scale 1:100

0 2m 4m 6m 8m 10m
Scale 1:100

Proposed attenuation to provide storage required for 1 in 100 year plus 40% climate change event.

Proposed flow rate based on 50% betterment of existing brownfield runoff of 50mm/hr.

Location/ size etc. of RWP's, IC's, pipes indicative only subject to detailed design.

Drawing is based on Architect's drawing 'Proposed GA– Site Plan' P5759_1200 rev. 4, April 2021.

Installation of crate units in accordance with manufacturers details.

Drawing is based on topographical survey drawing number 20624:200:1:1, May 2021, by SSL.

Hydrobrake to limit the flow to 7.0l/s @ 1.1m head.

F.F.L.indicative only for drainage modelling purposes– F.F.L. to be confirmed by Architect.

Legend

- S – New sump
- G – New gully
- RE – New rodding eye
- RWP – New rain water pipe
- SWIC – New SW inspection chamber
- SWMH – New SW manhole
- FWIC – New FW inspection chamber
- FWMH – New FW manhole
- CWMH – New CW manhole
- Ex.CWMH – Existing CW manhole
- 9.999 – MicroDrainage input pipe number
- Proposed SW drain
- Proposed FW drain
- Existing CW drain
- Proposed CW drain
- Channel drain
- Site Boundary, tbc by Architect

Drawing indicative and for planning purposes only. Final design/ details by others.

Rev	Drawn	Date	Description
P1	JS	08/21	Issued for Information

Drawing Status
INFORMATION

Contract
PROPOSED DRIVE THRU
MIOC

Drawing Title
BELOW GROUND
DRAINAGE STRATEGY LAYOUT

integra consulting
Civil & Structural Engineers
Suite 4
14–32 Hewitt Street
MANCHESTER
M15 4GB
Tel : 0161 237 3400
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Scales	Date
1:100 @ A0	08/2021
Drawn JS	Checked NS
Contract No 3255	Drawing No 001 P1