Richard Jackson Plc		Page 3
26 HIGH ST. HADLEIGH	Queenswood Sch 47175	
IPSWICH SUFFOLK	Proposed rev a	4
IP7 5AP		Micro
Date 09/06/2017 14:04	Designed by MJG	Designation
File proposed 1 in 100 plus	Checked by	Diamage
Micro Drainage	Source Control 2015.1	ı

Rainfall Details

	Rainfall Model	FSR	Winter Storms	Yes
Return	Period (years)	100	Cv (Summer)	0.750
	Region	England and Wales	Cv (Winter)	0.840
	M5-60 (mm)	20.000	Shortest Storm (mins)	15
	Ratio R	0.422	Longest Storm (mins)	10080
	Summer Storms	Yes	Climate Change %	+20

<u>Pipe Network</u>

Volume in Pipe Network (m^3) 1 Dia of Outfall Pipe (m) 0.2 Slope of Outfall Pipe (1:X) 150 Roughness of Outfall Pipe (mm) 0.600

Time Area Diagram

Total Area (ha) 0.188

 Time
 (mins)
 Area

 From:
 To:
 (ha)

 0
 4
 0.188

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26 HIGH ST. HADLEIGH	Queenswood Sch 47175	
IPSWICH SUFFOLK	Proposed rev a	4
IP7 5AP		Micco
Date 09/06/2017 14:04	Designed by MJG	Desipago
File proposed 1 in 100 plus	Checked by	Dialilage
Micro Drainage	Source Control 2015.1	

Model Details

Storage is Online Cover Level (m) 49.900

Tank or Pond Structure

Invert Level (m) 49.300

Depth (m) Are	a (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.0	100	100.0	0.700	100.0	1.400	100.0	2.100	100.0
0.1		100.0	0.800	100.0	1.500	100.0	2.200	100.0
0.2	00	100.0	0.900	100.0	1.600	100.0	2.300	100.0
0.3	00	100.0	1.000	100.0	1.700	100.0	2.400	100.0
0.4	00	100.0	1.100	100.0	1.800	100.0	2.500	100.0
0.5	00	100.0	1.200	100.0	1.900	100.0		
0.6	00	100.0	1.300	100.0	2.000	100.0		

Hydro-Brake Optimum® Outflow Control

Unit Reference MD-SHE-0206-2100-0600-2100
Design Head (m) 0.600
Design Flow (1/s) 21.0
Flush-Flo™ Calculated
Objective Minimise upstream storage
Diameter (mm) 206
Invert Level (m) 49.210
Minimum Outlet Pipe Diameter (mm) 225
Suggested Manhole Diameter (mm) 1200

Control	Points	Head (m) Flor	w (1/s)
Design Point	(Calculated)	0.600	20.8
	Flush-Flo™	0.300	20.8
	Kick-Flo®	0.491	18.9
Mean Flow ove	r Head Range	_	16.2

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake Optimum® as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (1/s)	Depth (m) Flow	w (1/s)	Depth (m) Flo	ow (1/s)	Depth (m)	Flow (1/s)
0.100	7.1	1.200	28.9	3.000	45.0	7.000	67.6
0.200	19.8	1.400	31.2	3.500	48.5	7.500	70.0
0.300	20.8	1.600	33.2	4.000	51.7	8.000	72.3
0.400	20.3	1.800	35.2	4.500	54.8	8.500	74.6
0.500	19.1	2.000	37.0	5.000	57.7	9.000	76.8
0.600	20.8	2.200	38.8	5.500	60.4	9.500	78.9
0.800	23.8	2.400	40.4	6.000	63.0		
1.000	26.5	2.600	42.0	6.500	65.1		

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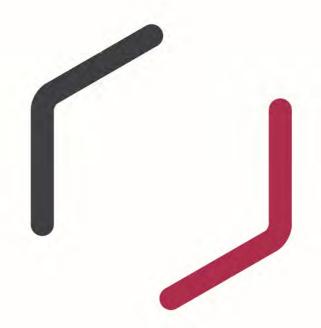
Appendix H

Proposed Maintenance Schedule

Title: SURFACE WATER DISPOSAL STRATEGY
Project: Queenswood School – Sports Hall Extension
Client: Ball Hall Ltd and Queenswood School

Project No.: 47875

SUDS Feature	Regular Maintenance Activity	Frequency	Occasional Maintenance Activity	Frequency	Responsibility
Pipes and Manholes	Visual inspection	Monthly or as required	Cleaning/jetting when silt accumulation occurs	Annually or as required	Queenswood School
Gullies	Visual inspection	Monthly or as required	Gully pots to be emptied	Annually or as required	Queenswood School
Ditches	 Remove litter Inspect inlets & outlets 	Monthly or as required	 Remove silt from channels Remove dense vegetation Inlet & outlet cleaning 	Annually or as required	Queenswood School
Control Structures	 Inspect control structures for blockages and remove blockage if found 	Monthly or as required	Maintenance in accordance with manufacturers recommendations	Annually or as required	Queenswodd School
Detention Basins	Remove litter Inspect inlets & outlets	Monthly or as required	 Mow grass to pond edges at 75-100mm Inlet & outlet cleaning Cut back pond vegetation Scrub clearance from bankside Remove silt 	Annually or as required	Queenswood School
Permeable Paving	Visual Inspection	Monthly or as required	Remove debris and sweep	Annually or as required	Queenswood School



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