

ACO HYDRAULIC DESIGN



+ DETAILED RUN REPORT - Page 1

Project Name: DES020558 W.I. Hall.

Designer: Stuart Lindsey

Project Date: 22nd January 2024

Location: April Cottage, 6 Church Rd, Ashton, Chester CH3 8AB, UK

Print Date: 22nd January 2024

Project Notes:

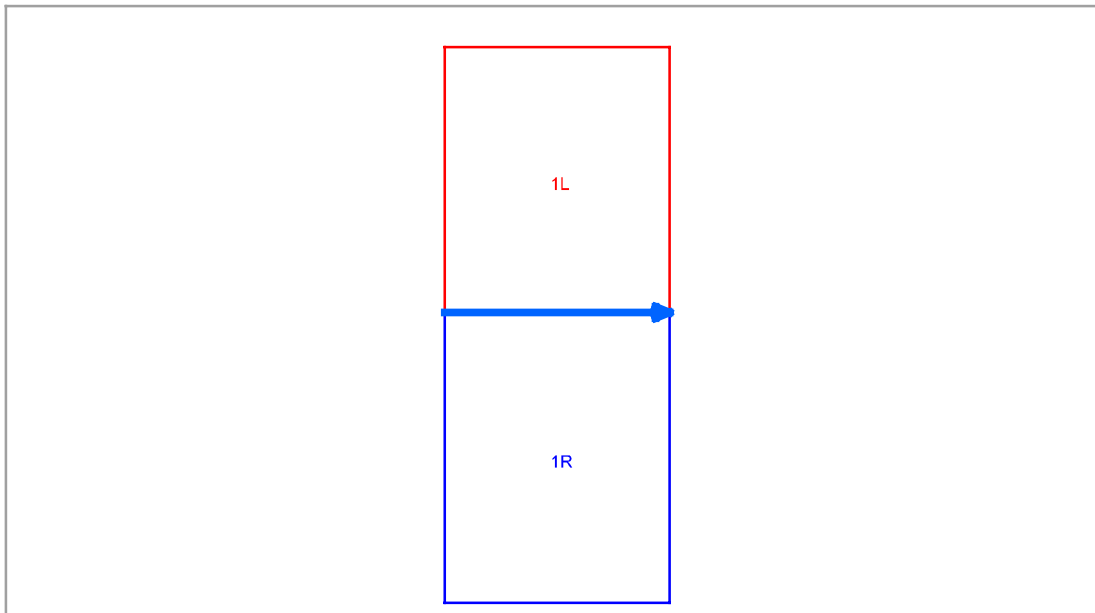
+ INPUT DATA:- Run 1: 'Run 1', Option A 'Option A'

M5-60: 18.6mm/hr

Ratio R: 0.4

LENGTH (m)	AREA (m2)	SLOPE (%)	IMPERM. FACTOR	CALC. EQUATION	RETURN PERIOD (years)	CLIMATE CHANGE (%)	STORM DURATION (mins)	RAINFALL INTENSITY (mm/hr)	INFLOW CONTROL (l/s/m)	Point Inflow Interlinked from	Cumulative Point Inflows l/s
9.50	223.25	0.00	1.00	SVF	5	0.00	15 mins	49.69	None	None	0.00

+ CHANNEL LAYOUT



+ RAINFALL DATA

Duration	Intensity (mm/h)
5 mins	79.68
10 mins	61.00
15 mins	49.69
30 mins	31.26
1 hour	19.16
2 hours	11.44
4 hours	6.73
6 hours	4.98
10 hours	3.43
24 hours	1.75
48 hours	1.02



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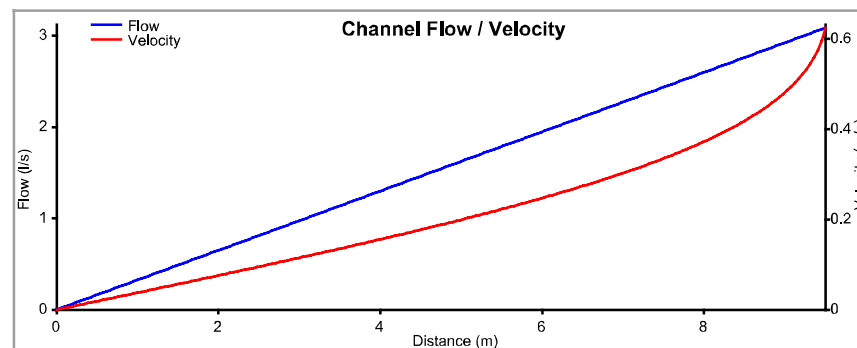
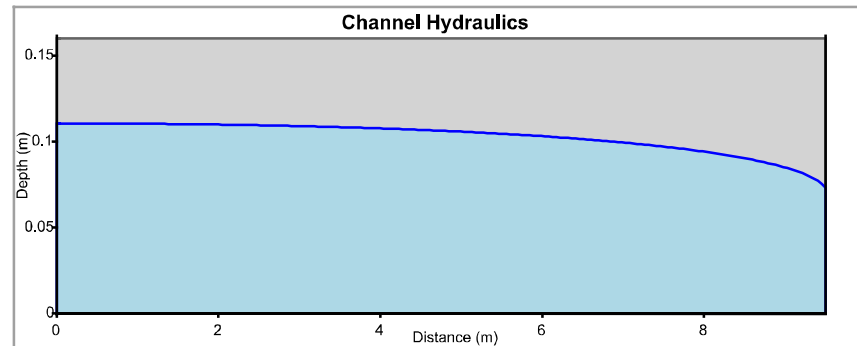
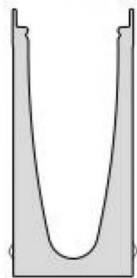
Print Date: 22nd January 2024

+ OUTPUTS:- Run 1: 'Run 1', Option A 'Option A'

OUTFLOW (l/s)	CAPACITY (%)	MAX* VELOCITY (m/s)	MIN FREEBOARD (m)	EXCAVATION VOLUME (m3)	CONCRETE VOLUME (m3)
3.08	63.49	0.62	0.05	2.05	1.80

MultiDrain MD

1	
System	M100D 10.0
W - Width (mm)	100
H - Invert (mm)	180
Length (m)	9.50



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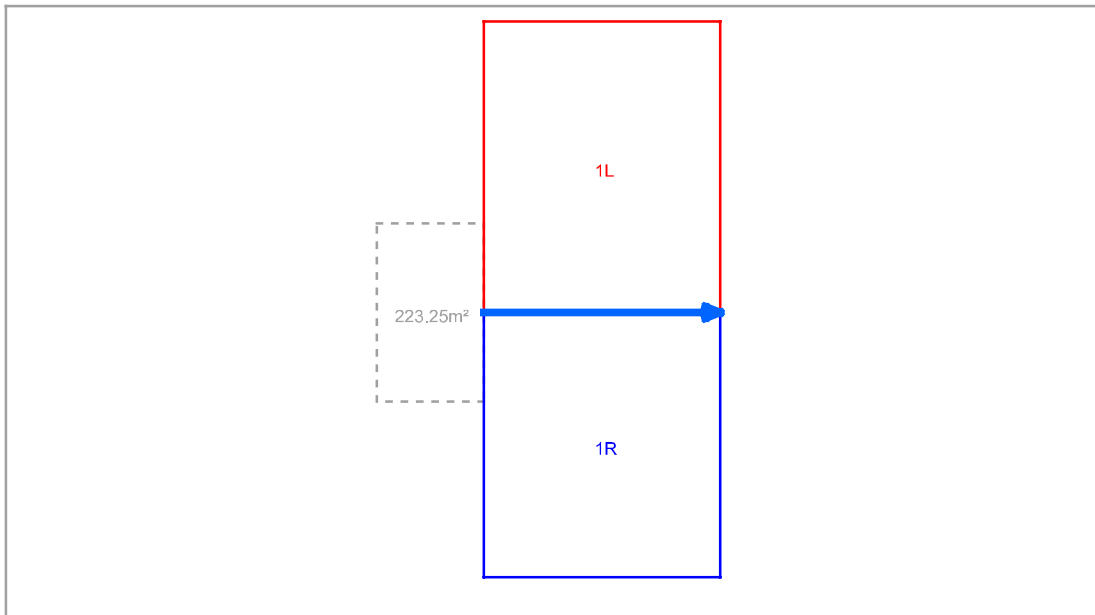
+ INPUT DATA:- Run 2: 'Run 2', Option A 'Option A'

M5-60: 18.6mm/hr

Ratio R: 0.4

LENGTH (m)	AREA (m2)	SLOPE (%)	IMPERM. FACTOR	CALC. EQUATION	RETURN PERIOD (years)	CLIMATE CHANGE (%)	STORM DURATION (mins)	RAINFALL INTENSITY (mm/hr)	INFLOW CONTROL (l/s/m)	Point Inflow Interlinked from	Cumulative Point Inflows l/s
10.00	458.25	0.00	1.00	SVF	5	0.00	15 mins	49.69	None	None	0.00

+ CHANNEL LAYOUT



+ RAINFALL DATA

Duration	Intensity (mm/h)
5 mins	79.68
10 mins	61.00
15 mins	49.69
30 mins	31.26
1 hour	19.16
2 hours	11.44
4 hours	6.73
6 hours	4.98
10 hours	3.43
24 hours	1.75
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+ OUTPUTS:- Run 2: 'Run 2', Option A 'Option A'

OUTFLOW (l/s)	CAPACITY (%)	MAX* VELOCITY (m/s)	MIN FREEBOARD (m)	EXCAVATION VOLUME (m3)	CONCRETE VOLUME (m3)
6.33	79.77	0.83	0.04	2.42	2.09

MultiDrain MD

1	
System	M100D 20.0
W - Width (mm)	100
H - Invert (mm)	230
Length (m)	10.00

