

Henley Road

1 in 30 year + 40% Climate Change

Adoptable Road Area to Soakaway

Date:

13/03/2023

Designed by:

SL

Checked by:

Approved by:

Report Details:

Nimbus Engineering Consultants Ltd

Type: Junctions

Kemp House, 124 City Road

Storm Phase: Phase

London

EC1V 2NX



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)	Lock
SA1	Manhole	590.539	338.943	39.000	0.600	38.400	Circular	1.200	None
SA2	Manhole	606.317	331.386	38.950	0.750	38.200	Circular	1.200	None
SA3	Manhole	635.454	332.354	38.900	0.900	38.000	Circular	1.200	None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
SA1	Inlet	Catchment Area	(None)	No Restriction
SA2	Inlet	Catchment Area (1)	(None)	No Restriction
SA3	Inlet	Catchment Area (3)	(None)	No Restriction
	Inlet (1)	Catchment Area (4)	(None)	No Restriction
	Inlet (2)	SA2-SA3	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
SA1	Outlet	SA1-SA2	Free Discharge
SA2	Outlet	SA2-SA3	Free Discharge
SA3	Outlet	SA3-SKY	Free Discharge

Henley Road 1 in 30 year + 40% Climate Change Adoptable Road Area to Soakaway	Date: 13/03/2023		
	Designed by: SL	Checked by:	Approved by:
	Report Details: Type: Stormwater Controls Storm Phase: Phase		
Nimbus Engineering Consultants Ltd Kemp House, 124 City Road London EC1V 2NX			



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	39.000
Depth (m)	1.200
Base Level (m)	37.800
Freeboard (mm)	400
Soakaway Shape	Rectangular
Diameter / Width (m)	6.000
Length (m)	6.000
Porosity (%)	95
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.38
Side Infiltration Rate (m/hr)	0.38
Safety Factor	2.0
Total Volume (m³)	27.360

Inlets

Inlet (1)

Incoming Item(s)	SA3-SKY
Bypass Destination	(None)
Capacity Type	No Restriction

Henley Road: 1 in 30 year + 40% Climate Change Adoptable Road Area to Soakaway		Date: 13/03/2023			
Report Details: Type: Inflow Summary Storm Phase: Phase		Designed by: SL	Checked by:		Approved by:
		Nimbus Engineering Consultants Ltd: Kemp House, 124 City Road London EC1V 2NX			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	SA1		Time of Concentration	0.018	100	0	100	0.018
Catchment Area (1)	SA2		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (3)	SA3		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (4)	SA3		Time of Concentration	0.018	100	0	100	0.018
TOTAL		0.0		0.057				0.057

Hemley Road: 1 in 30 year + 40% Climate Change Adoptable Road Area to Soakaway		Date: 13/03/2023			
		Designed by: SL	Checked by:		Approved by:
Report Title: Rainfall Analysis Criteria		Nimbus Engineering Consultants Ltd Kemp House, 124 City Road London EC1V 2NX			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall		
FSR		Type: FSR
Region	England And Wales	
M5-60 (mm)	20.0	
Ratio R	0.400	
Summer	☐	
Winter	☒	

Return Period	
Return Period (years)	Increase Rainfall (%)
30.0	40.000
Storm Durations	

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200