



115
UPNOR +
P3-115
1244sqft (304XL)

103(B)
FARRINGFORD
P3-103(B)-H0
1117sqft (305)

095
KELMSCOTT
P3-095 H0
1022sqft (306)

115
UPNOR +
P3-115
1270sqft (304XL)

Dam
CL 7.435m
IL (m) 6.940
Depth (m) 0.495

1.500
1:147.0
USIL 6.940m
Downstream Invert (m) 6.910

2.001
CL 7.435m
IL (m) 6.910
Depth (m) 0.509

2.001
USIL 6.910m
Downstream Invert (m) 6.842

3.001
CL 7.435m
IL (m) 6.820
Depth (m) 0.605

3.001
USIL 6.820m
Downstream Invert (m) 6.654

4.001
CL 7.435m
IL (m) 6.660
Depth (m) 0.775

4.001
USIL 6.660m
Downstream Invert (m) 6.440

5.001
CL 7.435m
IL (m) 6.440
Depth (m) 0.995

5.001
USIL 6.440m
Downstream Invert (m) 6.200

6.001
CL 7.435m
IL (m) 6.200
Depth (m) 1.235

6.001
USIL 6.200m
Downstream Invert (m) 5.980

7.001
CL 7.435m
IL (m) 5.980
Depth (m) 1.455

7.001
USIL 5.980m
Downstream Invert (m) 5.730

8.001
CL 7.435m
IL (m) 5.730
Depth (m) 1.705

8.001
USIL 5.730m
Downstream Invert (m) 5.498

Odyssey		Page 1																								
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45																									
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0-4	0.003	4-8	0.001															
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5.000	6.440	0.004	0.0	0.51	356.8																																																																																																																																																						
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6.000	6.200	0.004	0.0	0.43	274.3																																																																																																																																																						
6.001	5.980	0.004	0.0	1.88	236.5																																																																																																																																																						
7.000	5.980	0.004	0.0	0.48	327.1																																																																																																																																																						
7.001	5.740	0.004	0.0	1.90	238.6																																																																																																																																																						
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Tuscany House White Hart Lane Basingstoke RG21 4AF					Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45						
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX					Designed by WindesPC5 Checked by						
Innovyze					Network 2020.1.3						
<u>Manhole Schedules for Storm</u>											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	Pipe Out PN Invert Level (m)	Diameter (mm)	Pipes In PN Invert Level (m)	Diameter (mm)	Backdrop (mm)		
Dam 8	7.435	0.495	Open Manhole	250	1.000	6.940					
2	7.419	0.509	Open Manhole	250	1.001	6.910	400	1.000	6.910		
	7.419	0.515	Open Manhole	0		OUTFALL		1.001	6.904	400	
Dam 7	7.419	0.509	Open Manhole	250	2.000	6.910					
4	7.345	0.525	Open Manhole	250	2.001	6.820	400	2.000	6.820		
	7.345	0.531	Open Manhole	0		OUTFALL		2.001	6.814	400	
Dam 6	7.322	0.502	Open Manhole	250	3.000	6.820					
6	7.162	0.502	Open Manhole	250	3.001	6.660	400	3.000	6.660		
	7.162	0.509	Open Manhole	0		OUTFALL		3.001	6.653	400	
Dam 5	7.162	0.502	Open Manhole	250	4.000	6.660					
8	7.002	0.562	Open Manhole	250	4.001	6.440	400	4.000	6.440		
	7.002	0.569	Open Manhole	0		OUTFALL		4.001	6.433	400	
Dam 4	6.930	0.490	Open Manhole	250	5.000	6.440					
10	6.690	0.490	Open Manhole	250	5.001	6.200	400	5.000	6.200		
	6.690	0.503	Open Manhole	0		OUTFALL		5.001	6.187	400	
Dam 3	6.610	0.410	Open Manhole	250	6.000	6.200					
12	6.390	0.410	Open Manhole	250	6.001	5.980	400	6.000	5.980		
	6.390	0.425	Open Manhole	0		OUTFALL		6.001	5.965	400	
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Odyssey		Page 7
Tuscany House White Hart Lane Basingstoke RG21 4AF		Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX		Designed by WindesPC5 Checked by
Innovyze		Network 2020.1.3

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
Dam 2	6.390	0.410	Open Manhole	250	7.000	5.980					
Dam 1	6.238	0.498	Open Manhole	250	7.001	5.740	400	7.000	5.740		
	6.238	0.508	Open Manhole	0		OUTFALL		7.001	5.730	400	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
Dam 8	497796.258	103761.153	497796.258	103761.153	Required	
2	497800.318	103759.434	497800.318	103759.434	Required	
	497800.936	103759.589			No Entry	
Dam 7	497800.293	103759.351	497800.293	103759.351	Required	

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Innovyze			Network 2020.1.3			
<u>Manhole Schedules for Storm</u>						
MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
4	497804.537	103757.610	497804.537	103757.610	Required	
	497805.138	103757.792			No Entry	
Dam 6	497804.495	103757.555	497804.495	103757.555	Required	
6	497808.906	103755.968	497808.906	103755.968	Required	
	497809.563	103756.205			No Entry	
Dam 5	497808.878	103755.905	497808.878	103755.905	Required	
8	497813.177	103754.465	497813.177	103754.465	Required	
	497813.842	103754.702			No Entry	
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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)																																																															
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Innovyze	Network 2020.1.3	

Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.004	0.004	0.004
1.001	-	-	100	0.000	0.000	0.000
2.000	-	-	100	0.004	0.004	0.004
2.001	-	-	100	0.000	0.000	0.000
3.000	-	-	100	0.004	0.004	0.004
3.001	-	-	100	0.000	0.000	0.000
4.000	-	-	100	0.004	0.004	0.004
4.001	-	-	100	0.000	0.000	0.000
5.000	-	-	100	0.004	0.004	0.004
5.001	-	-	100	0.000	0.000	0.000
6.000	-	-	100	0.004	0.004	0.004
6.001	-	-	100	0.000	0.000	0.000
7.000	-	-	100	0.004	0.004	0.004
7.001	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.028	0.028	0.028

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.001		7.419	6.904	0.000	0	0

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Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
2.001		7.345	6.814	0.000	0	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
3.001		7.162	6.653	0.000	0	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
4.001		7.002	6.433	0.000	0	0

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Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
5.001		6.690	6.187	0.000	0	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
6.001		6.390	5.965	0.000	0	0

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
7.001		6.238	5.730	0.000	0	0

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Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Online Controls for Storm</u> <u>Pump Manhole: 2, DS/PN: 1.001, Volume (m³): 3.0</u> Invert Level (m) 6.910 <u>Pump Manhole: 4, DS/PN: 2.001, Volume (m³): 3.2</u> Invert Level (m) 6.820 <u>Pump Manhole: 6, DS/PN: 3.001, Volume (m³): 3.2</u> Invert Level (m) 6.660 <u>Pump Manhole: 8, DS/PN: 4.001, Volume (m³): 3.1</u> Invert Level (m) 6.440 <u>Pump Manhole: 10, DS/PN: 5.001, Volume (m³): 3.0</u> Invert Level (m) 6.200 <u>Pump Manhole: 12, DS/PN: 6.001, Volume (m³): 2.8</u> Invert Level (m) 5.980		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Pump Manhole: Dam 1, DS/PN: 7.001, Volume (m³): 2.6</u> Invert Level (m) 5.740		
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Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
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<u>Offline Controls for Storm</u> <u>Weir Manhole: 2, DS/PN: 1.001, Loop to PN: 2.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.418 <u>Weir Manhole: 4, DS/PN: 2.001, Loop to PN: 3.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.344 <u>Weir Manhole: 6, DS/PN: 3.001, Loop to PN: 4.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.161 <u>Weir Manhole: 8, DS/PN: 4.001, Loop to PN: 5.000</u> Discharge Coef 0.544 Width (m) 4.800 Invert Level (m) 7.001 <u>Weir Manhole: 10, DS/PN: 5.001, Loop to PN: 6.000</u> Discharge Coef 0.544 Width (m) 5.200 Invert Level (m) 6.689 <u>Weir Manhole: 12, DS/PN: 6.001, Loop to PN: 7.000</u> Discharge Coef 0.544 Width (m) 5.500 Invert Level (m) 6.389		
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<u>Storage Structures for Storm</u> <u>Porous Car Park Pipe: 1.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.940</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>5.9</td> <td>Length (m)</td> <td>4.4</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>147.0</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: 2.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.910</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>6.1</td> <td>Length (m)</td> <td>4.6</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>51.0</td> <td></td> <td></td> </tr> </table> <u>Porous Car Park Pipe: 3.000</u> <table> <tr> <td>Manning's N</td> <td>0.075</td> <td>Porosity</td> <td>0.30</td> <td>Depression Storage (mm)</td> <td>5</td> </tr> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00648</td> <td>Invert Level (m)</td> <td>6.820</td> <td>Evaporation (mm/day)</td> <td>3</td> </tr> <tr> <td>Membrane Percolation (mm/hr)</td> <td>1000</td> <td>Width (m)</td> <td>4.8</td> <td>Membrane Depth (mm)</td> <td>0</td> </tr> <tr> <td>Max Percolation (l/s)</td> <td>6.3</td> <td>Length (m)</td> <td>4.7</td> <td></td> <td></td> </tr> <tr> <td>Safety Factor</td> <td>2.0</td> <td>Slope (1:X)</td> <td>29.3</td> <td></td> <td></td> </tr> </table>			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.940	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	5.9	Length (m)	4.4			Safety Factor	2.0	Slope (1:X)	147.0			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.910	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	6.1	Length (m)	4.6			Safety Factor	2.0	Slope (1:X)	51.0			Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5	Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.820	Evaporation (mm/day)	3	Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0	Max Percolation (l/s)	6.3	Length (m)	4.7			Safety Factor	2.0	Slope (1:X)	29.3		
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Innovyze	Network 2020.1.3				
<u>Porous Car Park Pipe: 4.000</u>					
Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.660	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0
Max Percolation (l/s)	6.0	Length (m)	4.5		
Safety Factor	2.0	Slope (1:X)	20.6		
<u>Porous Car Park Pipe: 5.000</u>					
Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.440	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	4.8	Membrane Depth (mm)	0
Max Percolation (l/s)	6.0	Length (m)	4.5		
Safety Factor	2.0	Slope (1:X)	18.8		
<u>Porous Car Park Pipe: 6.000</u>					
Manning's N	0.075	Porosity	0.30	Depression Storage (mm)	5
Infiltration Coefficient Base (m/hr)	0.00648	Invert Level (m)	6.200	Evaporation (mm/day)	3
Membrane Percolation (mm/hr)	1000	Width (m)	5.2	Membrane Depth (mm)	0
Max Percolation (l/s)	6.7	Length (m)	4.7		
Safety Factor	2.0	Slope (1:X)	21.2		
<u>Porous Car Park Pipe: 7.000</u>					
Manning's N	0.075	Max Percolation (l/s)	6.2	Invert Level (m)	5.980
Infiltration Coefficient Base (m/hr)	0.00648	Safety Factor	2.0	Width (m)	5.5
Membrane Percolation (mm/hr)	1000	Porosity	0.30	Length (m)	4.0
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Odyssey		Page 19
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	
<u>Porous Car Park Pipe: 7.000</u> Slope (1:X) 16.8 Evaporation (mm/day) 3 Depression Storage (mm) 5 Membrane Depth (mm) 0		
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Odyssey		Page 20
Tuscany House White Hart Lane Basingstoke RG21 4AF	Stakers Farm, Yapton - 19-156 As built - chainage 0 to 45	
Date 19/04/2022 12:58 File Road 1_dams 1 to 8.MDX	Designed by WindesPC5 Checked by	
Innovyze	Network 2020.1.3	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Manhole Headloss Coeff (Global)	0.500	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Foul Sewage per hectare (l/s)	0.000	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Additional Flow - % of Total Flow	0.000	Flow per Person per Day (l/per/day)	0.000

Number of Input Hydrographs	0	Number of Offline Controls	6	Number of Time/Area Diagrams	0
Number of Online Controls	7	Number of Storage Structures	7	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH	Data Type	Point
FEH Rainfall Version	2013	Cv (Summer)	0.750
Site Location	GB 497682 103581 SU 97682 03581	Cv (Winter)	0.840

Margin for Flood Risk Warning (mm)	300.0	DVD Status	OFF
Analysis Timestep	2.5 Second	Increment (Extended)	Inertia Status OFF
DTS Status	ON		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960, 1440, 2160, 2880, 4320, 5760, 7200, 8640, 10080
Return Period(s) (years)	100
Climate Change (%)	40

		Water Flooded			Maximum Pipe		
US/MH	US/CL	Level	Volume	Flow /	Maximum	Velocity	Flow
PN Name Event	(m)	(m)	(m³)	Cap. Vol (m³)	(m/s)	(l/s)	Status

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Odyssey													Page 21		
Tuscany House							Stakers Farm, Yapton - 19-156								
White Hart Lane							As built - chainage 0 to 45								
Basingstoke RG21 4AF															
Date 19/04/2022 12:58							Designed by WindesPC5								
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Innovyze							Network 2020.1.3								
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>															
PN	US/MH Name	Event	US/CL (m)	Water Level (m)	Flooded Volume (m³)	Flow / Cap.	Maximum Vol (m³)	Maximum Velocity (m/s)	Pipe Flow (l/s)	Status					
1.000	Dam 8	720 minute 100 year Winter I+40%	7.435	7.360	0.000	0.00	0.020	0.0	0.2	FLOOD RISK					
1.001	2	720 minute 100 year Winter I+40%	7.419	7.360	0.000	0.00	2.598	0.0	0.0	FLOOD RISK					
2.000	Dam 7	600 minute 100 year Winter I+40%	7.419	7.284	0.000	0.00	0.018	0.0	0.2	FLOOD RISK					
2.001	4	600 minute 100 year Winter I+40%	7.345	7.284	0.000	0.00	2.606	0.0	0.0	FLOOD RISK					
3.000	Dam 6	600 minute 100 year Winter I+40%	7.322	7.150	0.000	0.00	0.016	0.0	0.2	FLOOD RISK					
3.001	6	600 minute 100 year Winter I+40%	7.162	7.150	0.000	0.00	2.612	0.0	0.0	FLOOD RISK					
4.000	Dam 5	720 minute 100 year Winter I+40%	7.162	6.989	0.000	0.00	0.016	0.0	0.2	FLOOD RISK					
4.001	8	720 minute 100 year Winter I+40%	7.002	6.989	0.000	0.00	2.644	0.0	0.0	FLOOD RISK					
5.000	Dam 4	600 minute 100 year Winter I+40%	6.930	6.690	0.000	0.00	0.012	0.0	0.2	FLOOD RISK					
5.001	10	600 minute 100 year Winter I+40%	6.690	6.690	0.350	0.00	2.612	0.0	0.0	FLOOD (x)					
6.000	Dam 3	720 minute 100 year Winter I+40%	6.610	6.391	0.000	0.00	0.009	0.0	0.4	FLOOD RISK					
6.001	12	720 minute 100 year Winter I+40%	6.390	6.391	0.626	0.00	2.673	0.0	0.0	FLOOD (x)					
7.000	Dam 2	720 minute 100 year Winter I+40%	6.390	6.233	0.000	0.00	0.012	0.0	0.2	FLOOD RISK					
7.001	Dam 1	720 minute 100 year Winter I+40%	6.238	6.233	0.000	0.00	2.222	0.0	0.0	FLOOD RISK					
(x) - FLOODING BEHIND UPSTREAM SECTION OF A DAM WILL BE ROUTED OVERLAND INTO THE NEXT PERMEABLE PAVING SECTION DOWNSTREAM WITH NO FLOODING SHOWN IN THE LAST SECTION THUS NO FLOODING OFF-SITE, THEREFORE THE SCHEME WILL WORK SATISFACTORILY															
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