



Trial Pit

Sheet 1 of 1

Scale
1:25

End Date
2025-08-18

Contractor

Logger	
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MB

$$W = 0.25m$$



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Trial Pit

SA03A

Sheet 1 of 1

Hole Type TP	Easting	Northing	Ground Level (m)	Scale 1:25
Project Name Pinewood Campus, Wokingham	Project No. ICE0471	Start Date 2025-08-15	End Date 2025-08-15	

Client Dandara Southern Ltd	Consultant MB	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(0.20)		Grass over grey-brown sandy topsoil with rootlets and fine lithic gravel. [TOPSOIL]	
						0.20		Brown gravelly SAND with poorly sorted medium-cobble sized brick and aggregate gravel and subrounded lithic gravel. Occasional lenses of coarse yellow sand. Aborted due to obstructions (e.g.concrete). [MADE GROUND]	0.5
						(0.80)			
						1.00			1.0
								End of Trial Pit at 1.00m	
									1.5
									2.0
									2.5
									3.0
									3.5
									4.0
									4.5
									5.0

Remarks Refused at 1.0m depth and aborted due to obstructions (e.g.concrete).	Method, Plant, Stability, Dimensions 0.00 - 1.00m TP Mini digger Stable L = 1.00m W = 0.25m	Logger MB
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Trial Pit

SA04A

Sheet 1 of 1

Hole Type TP	Easting	Northing	Ground Level (m)	Scale 1:25
Project Name Pinewood Campus, Wokingham	Project No. ICE0471	Start Date 2025-08-15	End Date 2025-08-15	

Client Dandara Southern Ltd	Consultant MB	Contractor
--------------------------------	------------------	------------

Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(0.15) 0.15		Grass over grey-brown sandy topsoil with rootlets and fine-medium lithic gravel. Aborted due to obstructions (e.g.concrete). [MADE GROUND]	
								End of Trial Pit at 0.15m	
									0.5
									1.0
									1.5
									2.0
									2.5
									3.0
									3.5
									4.0
									4.5
									5.0

Remarks Refused at 0.15m depth and aborted due to obstructions (e.g.concrete).	Method, Plant, Stability, Dimensions 0.00 - 0.15m TP Mini digger Stable L = 1.00m W = 0.25m	Logger MB
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Trial Pit

SA04B

Sheet 1 of 1

Hole Type TP	Easting	Northing	Ground Level (m)	Scale 1:25
Project Name Pinewood Campus, Wokingham	Project No. ICE0471	Start Date 2025-08-15	End Date 2025-08-15	

Client Dandara Southern Ltd	Consultant MB	Contractor
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Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(0.20) 0.20		Grass over grey-brown sandy topsoil with rootlets and fine-medium lithic gravel. Aborted due to obstructions (e.g.concrete). [MADE GROUND]	
								End of Trial Pit at 0.20m	
									0.5
									1.0
									1.5
									2.0
									2.5
									3.0
									3.5
									4.0
									4.5
									5.0

Remarks Refused at 0.2m depth and aborted due to obstructions (e.g.concrete).	Method, Plant, Stability, Dimensions 0.00 - 0.20m TP Mini digger Stable L = 1.00m W = 0.25m	Logger MB
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Sheet 1 of 1

2025-08-15

Contractor

End of Trial Pit at 2.00m

$$W = 0.25m$$



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Trial Pit

SA06

Sheet 1 of 1

Hole Type TP	Easting	Northing	Ground Level (m)	Scale 1:25
Project Name Pinewood Campus, Wokingham	Project No. ICE0471	Start Date 2025-08-15	End Date 2025-08-15	

Client Dandara Southern Ltd	Consultant MB	Contractor
--------------------------------	------------------	------------

Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata		
		Depth (m)	Type/ Ref	Results			Legend	Description	
						(0.20)		Grass over dark brown sandy topsoil with rootlets and fine-medium lithic gravel. [MADE GROUND]	
						0.20			
						(0.30)		Pale sand with poorly sorted medium-cobble sized, subrounded-angular lithic and aggregate gravel. Aborted due to obstructions (e.g.concrete). [MADE GROUND]	
						0.50		End of Trial Pit at 0.50m	
									0.5
									1.0
									1.5
									2.0
									2.5
									3.0
									3.5
									4.0
									4.5
									5.0

Remarks Refused at 0.6m depth and aborted due to obstructions (e.g.concrete).	Method, Plant, Stability, Dimensions 0.00 - 0.50m TP Mini digger Stable L = 1.00m W = 0.25m	Logger MB
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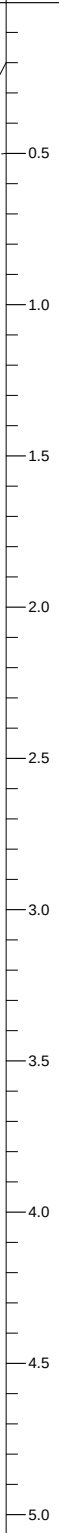
Trial Pit

SA06A

Sheet 1 of 1

Hole Type TP	Easting	Northing	Ground Level (m)	Scale 1:25
Project Name Pinewood Campus, Wokingham	Project No. ICE0471	Start Date 2025-08-15	End Date 2025-08-15	

Client Dandara Southern Ltd	Consultant MB	Contractor
--------------------------------	------------------	------------

Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata						
		Depth (m)	Type/ Ref	Results			Legend	Description					
						(0.20)		Grass over dark brown sandy topsoil with rootlets and fine-medium lithic gravel.					
						0.20		[TOPSOIL]					
						(0.30)		Pale sand with poorly sorted medium-cobble sized, subrounded-angular lithic and aggregate gravel. Aborted due to obstructions (e.g.concrete).					
						0.50		[MADE GROUND]					
----- <i>End of Trial Pit at 0.50m</i>													
								0.5					
								1.0					
								1.5					
								2.0					
								2.5					
								3.0					
								3.5					
								4.0					
								4.5					
								5.0					

Remarks Refused at 0.5m depth and aborted due to obstructions (e.g.concrete).	Method, Plant, Stability, Dimensions 0.00 - 0.50m TP Mini digger Stable L = 1.00m W = 0.25m	Logger MB
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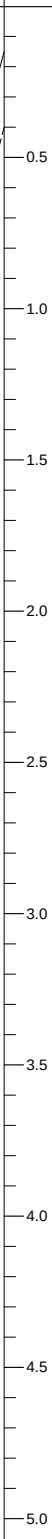
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Trial Pit

SA06B
Sheet 1 of 1

Hole Type TP	Easting	Northing	Ground Level (m)	Scale 1:25
Project Name Pinewood Campus, Wokingham	Project No. ICE0471	Start Date 2025-08-15	End Date 2025-08-15	

Client Dandara Southern Ltd	Consultant MB	Contractor
--------------------------------	------------------	------------

Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m) (thickness)	Strata					
		Depth (m)	Type/ Ref	Results			Legend	Description				
						(0.15)		Grass over dark brown sandy topsoil with rootlets and fine-medium lithic gravel.				
						0.15		[TOPSOIL]				
						(0.25)		Pale sand with poorly sorted medium-cobble sized, subrounded-angular lithic and aggregate gravel. Aborted due to obstructions (e.g.concrete).				
						0.40		[MADE GROUND]				
End of Trial Pit at 0.40m												

Remarks Refused at 0.4m depth and aborted due to obstructions (e.g.concrete).	Method, Plant, Stability, Dimensions 0.00 - 0.40m TP Mini digger Stable L = 1.00m W = 0.25m	Logger MB
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Appendix B

BRE 365 Soakage Testing Results





Soakaway Test Results (after BRE Digest 365)

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Project Name : Pinewood Campus, Nine Mile Ride, Wokingham, RG40 3EW
Client : Dandara Southern Ltd

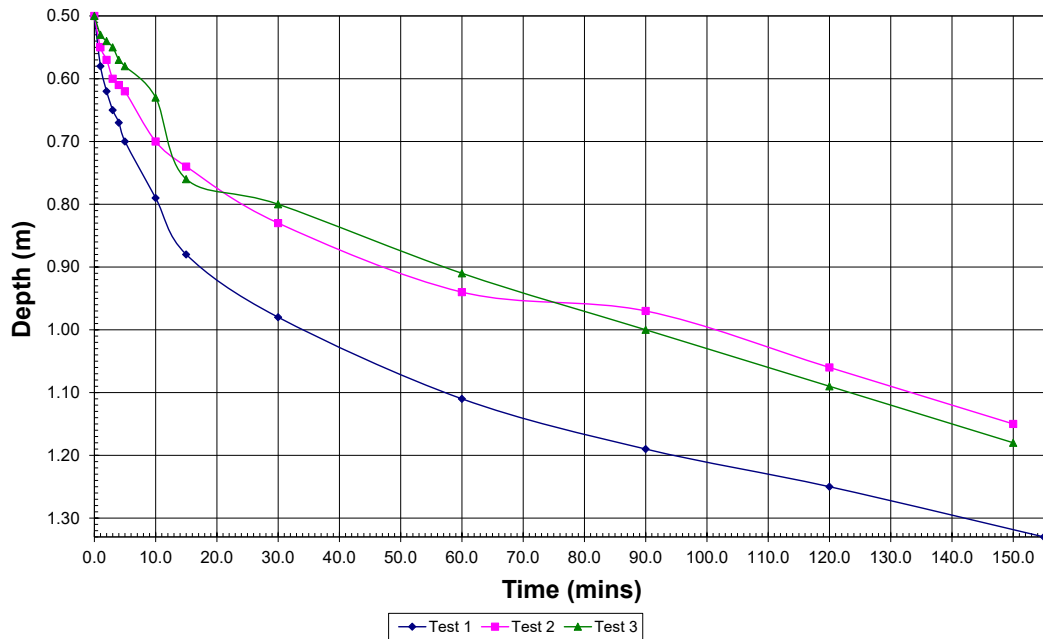
Job No. : ICE0471
Date : 19/08/2025

Pit reference	SA02
Pit depth (m)	1.60
Pit width (m)	0.30
Pit length (m)	1.20
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.50
1.0	0.58
2.0	0.62
3.0	0.65
4.0	0.67
5.0	0.70
10.0	0.79
15.0	0.88
30.0	0.98
60.0	1.11
90.0	1.19
120.0	1.25
155.0	1.33

Test 2	
Time (min)	Depth (m)
0.0	0.50
1.0	0.55
2.0	0.57
3.0	0.60
4.0	0.61
5.0	0.62
10.0	0.70
15.0	0.74
30.0	0.83
60.0	0.94
90.0	0.97
120.0	1.06
150.0	1.15

Test 3	
Time (min)	Depth (m)
0.0	0.50
1.0	0.53
2.0	0.54
3.0	0.55
4.0	0.57
5.0	0.58
10.0	0.63
15.0	0.76
30.0	0.80
60.0	0.91
90.0	1.00
120.0	1.09
150.0	1.18



Max. depth (m)	1.60	1.35	1.35
Effective depth (m)	1.10	0.85	0.85
75% effective depth (m)	0.78	0.71	0.71
50% effective depth (m)	1.05	0.93	0.93
25% effective depth (m)	1.33	1.14	1.14
t75 (min)	9.00	11.00	12.00
t50 (min)			
t25 (min)	155.00	146.50	137.00
Vp 75-25	0.20	0.15	0.15
ap 50	2.01	1.635	1.635
tp 75-25	146.00	135.50	125.00

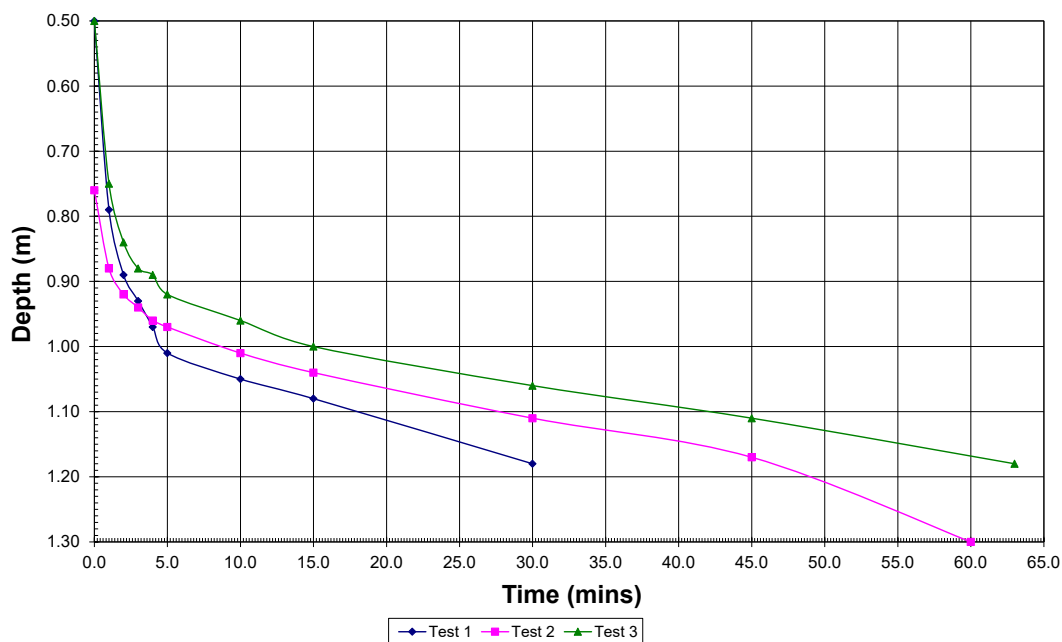
Soil infiltration rate (m/s)	1.1E-05	1.2E-05	1.2E-05
Soil infiltration rate (mm/hr)	4.05E+01	4.14E+01	4.49E+01

Notes:

- Orange cells require input data
- Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
- First line of table must be depth at time = 0

Project Name :	Pinewood Campus, Nine Mile Ride, Wokingham, RG40 3EW	Job No. :	ICE0471
Client :	Dandara Southern Ltd	Date :	19/08/2025

Pit reference	SA03
Pit depth (m)	1.40
Pit width (m)	0.30
Pit length (m)	1.10
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	1.40	1.40	1.40
Effective depth (m)	0.90	0.64	0.90
75% effective depth (m)	0.73	0.92	0.73
50% effective depth (m)	0.95	1.08	0.95
25% effective depth (m)	1.18	1.24	1.18
t75 (min)	0.80	2.00	0.80
t50 (min)			
t25 (min)	30.00	53.60	63.00
Vp 75-25	0.15	0.11	0.15
ap 50	1.59	1.226	1.59
tp 75-25	29.20	51.60	62.20

Soil infiltration rate (m/s)	5.3E-05	2.8E-05	2.5E-05
Soil infiltration rate (mm/hr)	1.92E+02	1.00E+02	9.01E+01

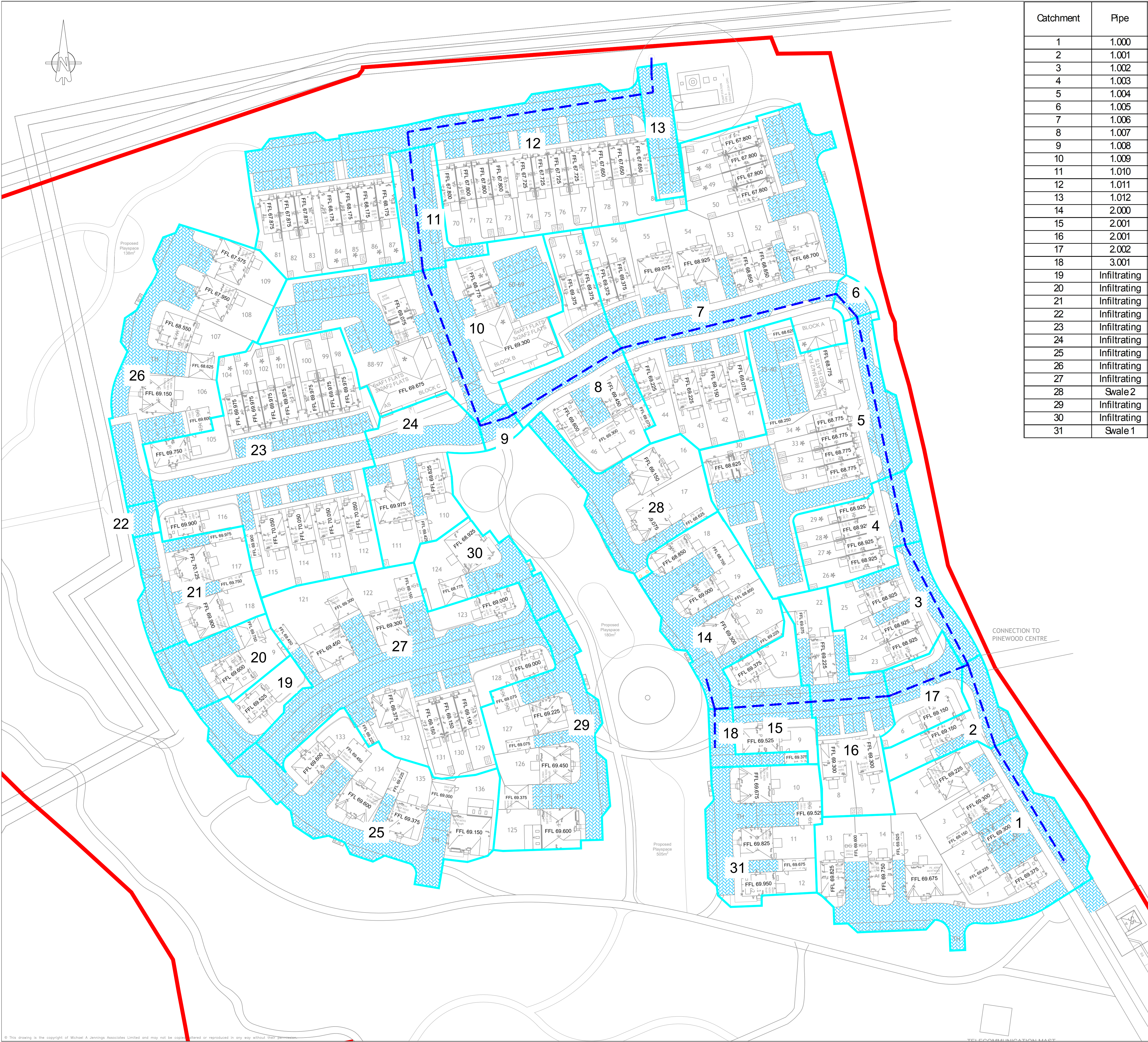
Notes:

1	Orange cells require input data
2	Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
3	First line of table must be depth at time = 0



APPENDIX E

PROPOSED INFILTRATING SURFACE WATER DRAINAGE STRATEGY – Option 1



Catchment	Pipe	Roof catchment m2	Roof catchment +10%for urban creep	Parking catchment m2	Road Catchment m2	Total Catchment m2	Ha
1	1.000	615.000	676.500	673	2114	3463.500	0.346
2	1.001	50.000	55.000	39	178	272.000	0.027
3	1.002	163.000	179.300	86	252	517.300	0.052
4	1.003	167.000	183.700	0	146	329.700	0.033
5	1.004	387.000	425.700	742	432	1599.700	0.160
6	1.005	0.000	0.000	0	91	91.000	0.009
7	1.006	900.000	990.000	691	580	2261.000	0.226
8	1.007	262.000	288.200	170	356	814.200	0.081
9	1.008	0.000	0.000	0	88	88.000	0.009
10	1.009	678.000	745.800	646	392	1783.800	0.178
11	1.010	0.000	0.000	79	307	386.000	0.039
12	1.011	813.000	894.300	541	619	2054.300	0.205
13	1.012	0.000	0.000	66	336	402.000	0.040
14	2.000	302.000	332.200	323	104	759.200	0.076
15	2.001	124.000	136.400	0	198	334.400	0.033
16	2.001	201.000	221.100	172	187	580.100	0.058
17	2.002	57.000	62.700	0	231	293.700	0.029
18	3.001	21.000	23.100	66	81	170.100	0.017
19	Infiltrating	58.000	63.800	0	133	196.800	0.020
20	Infiltrating	116.000	127.600	81	159	367.600	0.037
21	Infiltrating	210.000	231.000	85	79	395.000	0.040
22	Infiltrating	0.000	0.000	0	66	66.000	0.007
23	Infiltrating	654.000	719.400	322	573	1614.400	0.161
24	Infiltrating	159.000	174.900	85	304	563.900	0.056
25	Infiltrating	438.000	481.800	497	133	1111.800	0.111
26	Infiltrating	402.000	442.200	552	184	1178.200	0.118
27	Infiltrating	643.000	509.000	302	783	1594.000	0.159
28	Swale2	186.000	204.600	382	0	586.600	0.059
29	Infiltrating	372.000	409.200	502	86	997.200	0.100
30	Infiltrating	139.000	152.900	134	76	362.900	0.036
31	Swale 1	279.000	306.900	383	0	689.900	0.069

Notes:

1. Do not scale from this drawing.
2. All dimensions in metres unless stated otherwise.
3. All levels relate to ordnance datum.
4. This drawing shall be read in conjunction with all other contract documents.
5. Any discrepancies with the drawings shall be reported to the Engineer.

Key:

- Site Boundary
- Proposed Surface Water Pipe
- Proposed Surface Water Manhole
- Permeable Paving
- Headwall
- Catchment Boundary
- Catchment Reference

P3	19.03.2026	Updated to suit new layout	AP	TSH
P2	25.02.2026	Updated to suit new layout	AP	TSH
P1	11.12.2025	First Issue	AP	TSH
REV. No.	DATE	DESCRIPTION	DRAWN	CHECKED
Client				
Project		Pinewood Campus Nine Mile Ride		
Title		Proposed Surface Water Catchment Plan		
Scale:		1:500 @A1	Status:	Preliminary
Drawn:	Project Engineer	MJA Project No:	Date:	11/12/2025
JT	TSH	7507		
Drawing Number:		7507-MJA-SW-XX-DR-C-602	Rev:	P3



Pinewood Campus
Nine Mile Ride

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APPENDIX F

FLOW CALCULATIONS FOR INFILTRATING SURFACE WATER STRATEGY – Option 1

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	0.900
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
SW01	0.346			69.018	1200	483697.748	165900.060	1.068	67.950
SW02	0.027	5.00		68.905	1200	483679.237	165930.831	1.105	67.800
SW03	0.052	5.00		68.787	2100	483671.931	165952.827	1.087	67.700
SW17	0.029	5.00		69.033	1200	483652.009	165944.353	1.233	67.800
SW15	0.091	5.00		69.315	1200	483603.655	165939.975	1.307	68.008
SW14	0.076	5.00		69.146	1200	483601.365	165949.013	1.099	68.047
SW18	0.017	5.00		69.328	1200	483603.779	165930.434	1.228	68.100
SW04	0.033	5.00		68.629	1200	483655.084	165984.916	1.078	67.551
SW05	0.009	5.00		68.498	1200	483641.669	166046.636	1.198	67.300
SW06	0.226			68.547	1200	483636.547	166053.042	1.287	67.260
SW07	0.081	5.00		69.186	1200	483578.520	166037.968	2.183	67.003
SW08	0.009	5.00		69.176	1500	483547.945	166019.532	2.321	66.855
SW09	0.178	5.00		69.536	1200	483540.617	166017.333	2.714	66.822
SW10	0.039	5.00		68.636	1500	483525.177	166058.818	1.996	66.640
SW11	0.205	5.00		67.957	1200	483521.025	166096.233	1.479	66.478
SW12	0.040	5.00		67.538	1500	483587.030	166106.896	1.344	66.194
SW13		5.00		67.487	1200	483586.733	166111.843	1.364	66.123
OUTFALL				66.870	1200	483586.850	166116.234	0.823	66.047
Catchment 19	0.020	1.00	0.0	69.500		483470.852	165935.447	1.020	68.480
Catchment 20	0.037	1.00	0.0	70.000		483462.561	165951.632	1.430	68.570
Catchment 21	0.040	1.00	0.0	70.000		483456.528	165971.014	1.280	68.720
Catchment 22	0.007	1.00	0.0	69.750		483450.578	165992.764	0.560	69.190
Catchment 23	0.161	1.00	0.0	70.100		483486.259	166004.647	1.030	69.070
Catchment 24	0.056	1.00	0.0	69.850		483511.767	166009.098	1.470	68.380
Catchment 26	0.118	1.00	0.0	69.550		483445.566	166011.583	0.950	68.600
Catchment 27	0.159	1.00	0.0	69.300		483534.922	165957.550	0.810	68.490
Catchment 29	0.100	1.00	0.0	69.300		483562.314	165961.626	0.660	68.640
Catchment 30	0.036	1.00	0.0	69.300		483555.244	165972.053	1.010	68.290
1				69.300	1200	483600.979	165887.188	0.500	68.800
2				69.250		483599.505	165919.157	0.500	68.750
3				68.750		483570.482	165988.063	0.500	68.250
4				68.650		483583.856	165962.470	0.500	68.150
Catchment 25	0.111	1.00		69.750		483498.319	165911.456	0.890	68.860
31B	0.069	5.00		69.700		483608.360	165887.413	0.870	68.830
Catchment 28	0.059	5.00		69.500		483576.434	165990.582	0.920	68.580
SW04B	0.160			68.553		483651.283	166002.865	1.077	67.476

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
1.007	SW08	SW09	7.792	0.600	66.855	66.822	0.033	236.1	300	5.13	50.0
1.004	SW05	SW06	8.202	0.600	67.300	67.261	0.039	208.0	300	5.13	50.0
2.000	SW14	SW15	8.438	0.600	68.047	68.008	0.039	216.4	300	5.13	50.0
3.000	SW18	SW15	10.500	0.600	68.100	68.008	0.092	114.1	300	5.12	50.0
1.012	SW13	OUTFALL	18.355	0.600	66.123	66.047	0.076	241.5	300	5.30	50.0
Swale 1	1	2	32.198	0.035	68.800	68.750	0.050	644.0	500	6.33	50.0
Swale 2	3	4	28.877	0.035	68.250	68.150	0.100	288.8	500	5.74	50.0
31	31B	1	7.384	0.600	68.830	68.800	0.030	245.0	150	5.19	50.0
28	Catchment 28	3	6.463	0.600	68.580	68.250	0.330	19.6	100	5.06	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
1.007	1.019	72.0	1.2	2.021	2.414	0.009	0.0	27	0.388
1.004	1.086	76.8	1.2	0.898	0.986	0.009	0.0	26	0.402
2.000	1.065	75.3	10.3	0.799	1.007	0.076	0.0	75	0.752
3.000	1.471	104.0	2.3	0.928	1.007	0.017	0.0	31	0.609
1.012	1.007	71.2	0.0	1.064	0.523	0.000	0.0	0	0.000
Swale 1	0.474	473.9	9.4	0.000	0.000	0.069	0.0	77	0.166
Swale 2	0.708	707.7	8.0	0.000	0.000	0.059	0.0	57	0.211
31	0.637	11.3	9.4	0.720	0.350	0.069	0.0	105	0.712
28	1.753	13.8	8.0	0.820	0.400	0.059	0.0	55	1.822

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	1 year (l/s)	5.4
Rainfall Events	Singular	Drain Down Time (mins)	240	100 year (l/s)	20.4
Summer CV	0.750	Additional Storage (m³/ha)	20.0	Check Discharge Volume	✓
Winter CV	0.840	Starting Level (m)		100 year 360 minute (m³)	707
Analysis Speed	Detailed	Check Discharge Rate(s)	✓		

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
100	40	0	0

Pre-development Discharge Rate

Site Makeup	Greenfield	Growth Factor 1 year	0.85
Greenfield Method	IH124	Growth Factor 100 year	3.19
Positively Drained Area (ha)	1.411	Betterment (%)	0
SAAR (mm)	662	QBar	6.4
Soil Index	4	Q 1 year (l/s)	5.4
SPR	0.47	Q 100 year (l/s)	20.4
Region	6		

Pre-development Discharge Volume

Site Makeup	Greenfield	Return Period (years)	100
Greenfield Method	FSR/FEH	Climate Change (%)	0
Positively Drained Area (ha)	1.411	Storm Duration (mins)	360
Soil Index	4	Betterment (%)	0
SPR	0.47	PR	0.458
CWI	99.556	Runoff Volume (m ³)	466

Node SW13 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	66.123	Product Number	CTL-SHE-0124-7400-1200-7400
Design Depth (m)	1.200	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	7.4	Min Node Diameter (mm)	1200

Node SW10 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	66.640	Product Number	CTL-SHE-0128-7600-1000-7600
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	7.6	Min Node Diameter (mm)	1200

Node SW03 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	67.700	Product Number	CTL-SHE-0196-1950-1079-1950
Design Depth (m)	1.079	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	19.5	Min Node Diameter (mm)	1500

Node SW12 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	66.194	Product Number	CTL-SHE-0159-1210-1000-1210
Design Depth (m)	1.000	Min Outlet Diameter (m)	0.225
Design Flow (l/s)	12.1	Min Node Diameter (mm)	1500

Node SW04 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	36.243	Invert Level (m)	67.551
Underdrain Slope (1:X)	243.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW03

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	33.0	0.0	0.066	252.0	0.0	0.867	0.0	0.0
0.065	33.0	0.0	0.866	252.0	0.0	1.077	0.0	0.0

Node SW04B Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	18.347	Invert Level (m)	67.476
Underdrain Slope (1:X)	245.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets SW04

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	17.0	0.0	0.064	146.0	0.0	0.865	0.0	0.0
0.063	17.0	0.0	0.864	146.0	0.0	1.075	0.0	0.0

Node SW07 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.09000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	59.787	Invert Level (m)	67.003
Underdrain Slope (1:X)	233.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets SW06

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	53.8	0.0	1.069	1102.0	0.0	1.970	0.0	0.0
1.068	53.8	0.0	1.969	1102.0	0.0			

Node SW08 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.09000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	35.619	Invert Level (m)	66.855
Underdrain Slope (1:X)	240.0	Time to half empty (mins)	112
Underdrain Height above base (m)	0.000		

Inlets SW07

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	32.1	0.0	1.199	331.0	0.0	2.100	0.0	0.0
1.198	32.1	0.0	2.099	331.0	0.0			

Node SW17 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	47.091	Invert Level (m)	67.800
Underdrain Slope (1:X)	226.0	Time to half empty (mins)	150
Underdrain Height above base (m)	0.000		

Inlets SW15

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	42.0	0.0	0.362	385.0	0.0	1.023	0.0	0.0
0.361	42.0	0.0	1.022	385.0	0.0	1.232	0.0	0.0

Node Catchment 19 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.480	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	144	Depth (m)	0.810
Safety Factor	2.0	Width (m)	12.700	Inf Depth (m)	
Porosity	0.30	Length (m)	12.700		

Node SW12 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.09000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	66.947	Invert Level (m)	66.194
Underdrain Slope (1:X)	236.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets SW11

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	60.0	0.0	0.472	1166.0	0.0	1.133	0.0	0.0
0.471	60.0	0.0	1.132	1166.0	0.0	1.343	0.0	0.0

Node SW13 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.09000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	16.982	Invert Level (m)	66.123
Underdrain Slope (1:X)	240.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW12

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	15.3	0.0	0.492	191.0	0.0	1.153	0.0	0.0
0.491	15.3	0.0	1.152	191.0	0.0	1.363	0.0	0.0

Node Catchment 20 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.570	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	226	Depth (m)	1.220
Safety Factor	2.0	Width (m)	12.600	Inf Depth (m)	
Porosity	0.30	Length (m)	12.600		

Node Catchment 21 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.720	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	196	Depth (m)	1.070
Safety Factor	2.0	Width (m)	16.000	Inf Depth (m)	
Porosity	0.30	Length (m)	16.000		

Node SW11 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.09000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	37.645	Invert Level (m)	66.478
Underdrain Slope (1:X)	233.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW10

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	33.9	0.0	0.608	307.0	0.0	1.268	0.0	0.0
0.607	33.9	0.0	1.267	307.0	0.0	1.478	0.0	0.0

Node SW10 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.09000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	44.421	Invert Level (m)	66.640
Underdrain Slope (1:X)	244.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW09

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	40.0	0.0	1.124	1112.0	0.0	1.784	0.0	0.0
1.123	40.0	0.0	1.783	1112.0	0.0	1.994	0.0	0.0

Node Catchment 22 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	69.190	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	52	Depth (m)	0.350
Safety Factor	2.0	Width (m)	8.000	Inf Depth (m)	
Porosity	0.30	Length (m)	8.000		

Node Catchment 23 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	69.070	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	146	Depth (m)	0.820
Safety Factor	2.0	Width (m)	24.000	Inf Depth (m)	
Porosity	0.30	Length (m)	24.000		

Node Catchment 24 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.380	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	234	Depth (m)	1.260
Safety Factor	2.0	Width (m)	18.600	Inf Depth (m)	
Porosity	0.30	Length (m)	18.600		

Node Catchment 26 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.600	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	130	Depth (m)	0.790
Safety Factor	2.0	Width (m)	23.400	Inf Depth (m)	
Porosity	0.30	Length (m)	23.400		

Node Catchment 27 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.490	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	102	Depth (m)	0.600
Safety Factor	2.0	Width (m)	27.700	Inf Depth (m)	
Porosity	0.30	Length (m)	27.700		

Node Catchment 25 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.860	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	118	Depth (m)	0.680
Safety Factor	2.0	Width (m)	22.300	Inf Depth (m)	
Porosity	0.30	Length (m)	22.300		

Node SW02 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	35.905	Invert Level (m)	67.800
Underdrain Slope (1:X)	240.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW01

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	32.0	0.0	0.235	700.0	0.0	0.895	0.0	0.0
0.234	32.0	0.0	0.894	700.0	0.0	1.105	0.0	0.0

Node SW03 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	22.141	Invert Level (m)	67.700
Underdrain Slope (1:X)	221.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW02

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	20.0	0.0	0.207	178.0	0.0	0.867	0.0	0.0
0.206	20.0	0.0	0.866	178.0	0.0	1.077	0.0	0.0

Node SW03 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	22.845	Invert Level (m)	67.700
Underdrain Slope (1:X)	229.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets
SW17

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	18.0	0.0	0.216	227.0	0.0	0.876	0.0	0.0
0.215	18.0	0.0	0.875	227.0	0.0	1.086	0.0	0.0

Node Catchment 29 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.640	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	240	Depth (m)	0.450
Safety Factor	2.0	Width (m)	21.500	Inf Depth (m)	
Porosity	1.00	Length (m)	21.500		

Node Catchment 30 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.290	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	90	Depth (m)	0.450
Safety Factor	2.0	Width (m)	14.000	Inf Depth (m)	
Porosity	0.30	Length (m)	14.000		

Node 31B Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.830	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.660
Safety Factor	2.0	Width (m)	17.700	Inf Depth (m)	
Porosity	0.30	Length (m)	17.700		

Node Catchment 28 Carpark Storage Structure

Base Inf Coefficient (m/hr)	0.09000	Invert Level (m)	68.580	Slope (1:X)	500.0
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)	0	Depth (m)	0.920
Safety Factor	2.0	Width (m)	19.000	Inf Depth (m)	
Porosity	0.30	Length (m)	19.000		

Node SW05 Porous Paving Storage Structure

Underdrain Link Type	Circular	Base Inf Coefficient (m/hr)	0.00000
Underdrain Diameter (mm)	300	Side Inf Coefficient (m/hr)	0.00000
Underdrain Velocity	Colebrook-White	Safety Factor	2.0
Underdrain ks (mm) / n	0.600	Porosity	0.30
Underdrain Length (m)	44.578	Invert Level (m)	67.300
Underdrain Slope (1:X)	253.0	Time to half empty (mins)	
Underdrain Height above base (m)	0.000		

Inlets SW04B

Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)	Depth (m)	Area (m ²)	Inf Area (m ²)
0.000	40.1	0.0	0.086	1159.0	0.0	0.987	0.0	0.0
0.085	40.1	0.0	0.986	1159.0	0.0			

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
120 minute winter	SW01	116	68.816	0.867	81.3	0.0000	0.0000	OK
120 minute winter	SW02	118	68.802	1.002	50.8	146.5046	0.0000	OK
120 minute winter	SW03	118	68.782	1.082	37.0	81.5234	0.0000	OK
120 minute winter	SW17	118	68.794	0.994	42.1	70.6395	0.0000	OK
120 minute winter	SW15	116	68.804	0.796	42.3	0.0000	0.0000	OK
120 minute winter	SW14	116	68.804	0.757	17.9	1.9038	0.0000	SURCHARGED
120 minute winter	SW18	116	68.804	0.704	4.0	0.9916	0.0000	SURCHARGED
480 minute winter	SW04	472	68.514	0.964	18.2	56.9291	0.0000	OK
480 minute winter	SW05	472	68.492	1.192	14.2	286.8471	0.0000	FLOOD RISK
480 minute winter	SW06	472	68.491	1.231	22.6	0.0000	0.0000	OK
480 minute winter	SW07	480	68.480	1.477	25.4	117.7492	0.0000	OK
480 minute winter	SW08	480	68.466	1.611	16.0	45.4885	0.0000	SURCHARGED
480 minute winter	SW09	480	68.465	1.643	29.0	0.0000	0.0000	OK
480 minute winter	SW10	480	68.453	1.813	20.8	216.6582	0.0000	OK
1440 minute winter	SW11	1440	67.446	0.968	13.3	34.5387	0.0000	OK
1440 minute winter	SW12	1440	67.436	1.242	12.5	195.0137	0.0000	OK
1440 minute winter	SW13	1470	67.319	1.196	7.7	37.6542	0.0000	FLOOD RISK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	SW01	Porous Paving	SW02	37.8	0.551	0.529		
15 minute winter	SW02	Porous Paving	SW03	33.6	0.561	0.451		
120 minute winter	SW03	Porous Paving	SW04	15.4	0.276	0.217		
15 minute winter	SW17	Porous Paving	SW03	25.0	0.354	0.341		
15 minute winter	SW15	Porous Paving	SW17	29.3	0.424	0.398		
15 minute winter	SW14	2.000	SW15	52.6	1.407	0.700	0.5942	
15 minute winter	SW18	3.000	SW15	10.8	0.832	0.104	0.7394	
180 minute winter	SW04	Porous Paving	SW04B	17.5	0.480	0.248		
15 minute winter	SW05	1.004	SW06	-166.1	-2.358	-2.163	0.5776	
15 minute summer	SW06	Porous Paving	SW07	-17.4	-0.247	-0.240		
15 minute summer	SW07	Porous Paving	SW08	-21.4	-0.303	-0.299		
15 minute summer	SW07	Infiltration		0.0				
15 minute winter	SW08	1.007	SW09	42.9	1.347	0.596	0.5487	
15 minute summer	SW08	Infiltration		0.0				
15 minute winter	SW09	Porous Paving	SW10	28.6	0.407	0.404		
360 minute winter	SW10	Porous Paving	SW11	7.6	0.202	0.105		
15 minute summer	SW10	Infiltration		0.0				
15 minute winter	SW11	Porous Paving	SW12	21.7	0.308	0.301		
15 minute summer	SW11	Infiltration		0.0				
15 minute winter	SW12	Porous Paving	SW13	11.4	0.256	0.160		
15 minute summer	SW12	Infiltration		0.0				
30 minute winter	SW13	1.012	OUTFALL	7.4	0.650	0.104	0.2091	99.4
15 minute summer	SW13	Infiltration		0.0				

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
30 minute winter	OUTFALL	13	66.111	0.064	7.4	0.0000	0.0000	OK
60 minute winter	Catchment 19	45	68.623	0.143	7.9	6.2807	0.0000	OK
60 minute winter	Catchment 20	57	68.894	0.324	14.6	14.8991	0.0000	OK
60 minute winter	Catchment 21	48	68.912	0.192	15.7	13.6561	0.0000	OK
30 minute winter	Catchment 22	26	69.308	0.118	4.4	2.1389	0.0000	OK
60 minute winter	Catchment 23	58	69.477	0.407	63.3	67.5012	0.0000	OK
60 minute winter	Catchment 24	48	68.584	0.204	22.0	19.2789	0.0000	OK
60 minute winter	Catchment 26	57	68.895	0.295	46.4	45.3200	0.0000	OK
60 minute winter	Catchment 27	57	68.776	0.286	62.6	60.3144	0.0000	OK
60 minute winter	Catchment 29	57	68.748	0.108	39.3	40.4117	0.0000	OK
60 minute winter	Catchment 30	55	68.525	0.235	14.2	13.1765	0.0000	OK
60 minute winter	1	52	69.013	0.213	10.0	0.2408	0.0000	OK
60 minute winter	2 (Swale 1)	52	69.013	0.263	5.2	0.0000	0.0000	OK
15 minute summer	2	1	68.750	0.000	0.0	0.0000	0.0000	OK
120 minute winter	2 Filter Layer (Swale 1)	238	68.453	0.703	1.1	2.7161	0.0000	OK
60 minute winter	3	64	68.569	0.319	12.1	0.0000	0.0000	OK
60 minute winter	4 (Swale 2)	64	68.569	0.419	6.6	0.0000	0.0000	OK
15 minute summer	4	1	68.150	0.000	0.0	0.0000	0.0000	OK
15 minute summer	4 Filter Layer (Swale 2)	149	68.150	1.000	1.7	3.7212	0.0000	OK
60 minute winter	Catchment 25	57	69.167	0.307	43.7	43.2673	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	Catchment 19	Infiltration		2.0				
15 minute summer	Catchment 20	Infiltration		2.0				
15 minute summer	Catchment 21	Infiltration		3.2				
15 minute summer	Catchment 22	Infiltration		0.8				
15 minute summer	Catchment 23	Infiltration		7.2				
15 minute summer	Catchment 24	Infiltration		4.3				
15 minute summer	Catchment 26	Infiltration		6.8				
60 minute winter	Catchment 27	Infiltration		9.6				
15 minute summer	Catchment 29	Infiltration		5.8				
15 minute summer	Catchment 30	Infiltration		2.5				
15 minute winter	1	Swale 1	2	13.4	0.187	0.028	7.2288	
60 minute winter	2	Filtration (Swale 1)		1.1				
60 minute winter	2 Filter Layer	Underdrain (Swale 1)		-0.5	0.043	-0.013	2.2674	
15 minute summer	2 Filter Layer	Infiltration (Swale 1)		0.2				
15 minute winter	3	Swale 2	4	12.9	0.188	0.018	11.9394	
60 minute winter	4	Filtration (Swale 2)		1.5				
30 minute winter	4 Filter Layer	Underdrain (Swale 2)		-0.9	0.041	-0.014	2.0335	
15 minute summer	4 Filter Layer	Infiltration (Swale 2)		0.2				
15 minute summer	Catchment 25	Infiltration		6.2				

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.73%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute winter	31B	52	69.013	0.183	26.5	15.7129	0.0000	SURCHARGED
15 minute winter	Catchment 28	14	68.691	0.111	43.8	10.1230	0.0000	SURCHARGED
480 minute winter	SW04B	472	68.501	1.025	23.8	35.8050	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	31B	31	1	16.0	1.085	1.417	0.1300	
15 minute summer	31B	Infiltration		3.9				
30 minute summer	Catchment 28	28	3	14.7	2.070	1.066	0.0506	
15 minute summer	Catchment 28	Infiltration		4.5				
15 minute summer	SW04B	Porous Paving	SW05	-18.2	-0.259	-0.262		



Appendix G

ALTERNATIVE SURFACE WATER DRAINAGE STRATEGY – Option 2

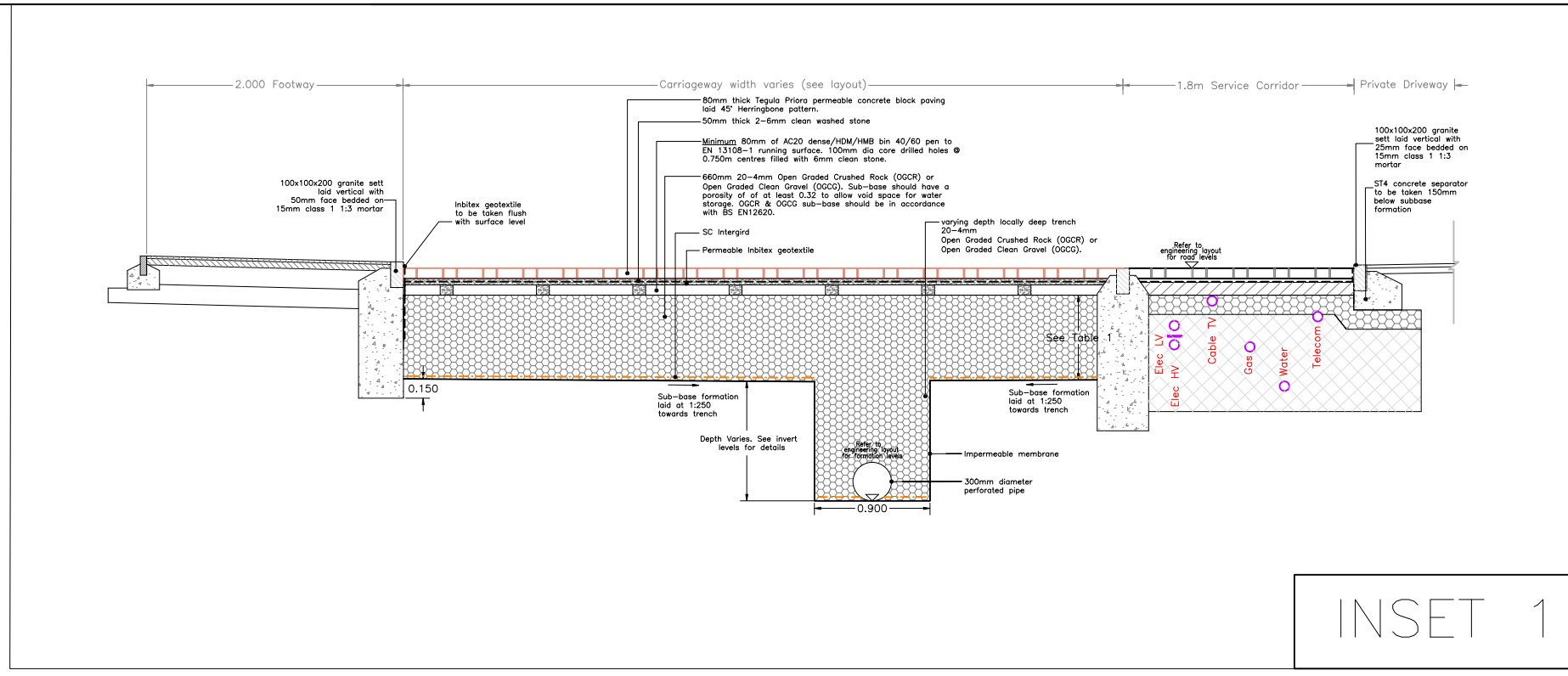
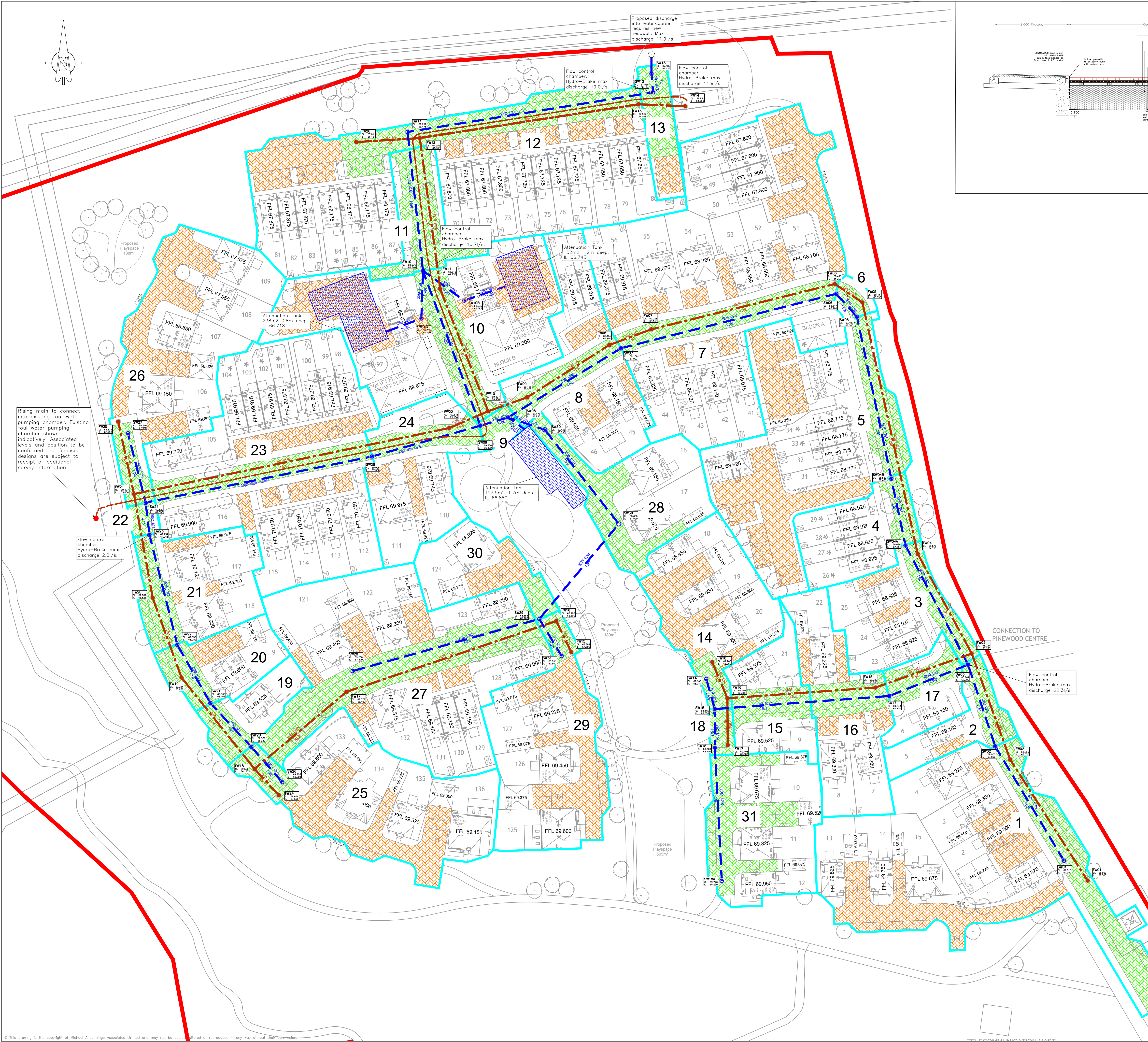


Table 1	
Catchment	Sub base depth (mm)
1	660
2	660
3	800
4	800
5	800
6	800
7	800
8	660
9	660
10	660
11	660
12	660
13	660
14	660
15	660
16	660
17	660
18	660
19	660
20	660
21	660
22	660
23	660
24	660
25	660
26	660
27	660
28	660
29	660
30	660
31	660

- Notes:
1. Do not scale from this drawing.
 2. All dimensions in metres unless stated otherwise.
 3. All levels relate to ordnance datum.
 4. This drawing shall be read in conjunction with all other contract documents.
 5. Any discrepancies with the drawings shall be reported to the Engineer.
 6. This is an alternative drainage strategy to that shown on 7507-MJA-SW-XX-DR-C-600 and is to be used if groundwater testing shows infiltration to not be suitable
 7. Table 1 sub-base depths do not account for trench and perforated pipe depths.
- Key:

- Site Boundary
- Proposed Foul Water Sewer
- Proposed Foul Water Manhole
- Proposed Foul Water Rising Main
- Proposed Surface Water Pipe
- Proposed Surface Water Manhole
- Non- Infiltrating Permeable Paving with trench - Refer to Inset 1
- Non- Infiltrating Permeable Paving without trench
- Catchment Boundary
- Proposed Attenuation Tank

P3	19.03.2026	Updated to suit new layout	AP	TSH
P2	06.03.2026	Updated to suit new layout	AP	TSH
P1	12.01.2026	First Issue	AP	TSH
REV. No.	DATE	DESCRIPTION	DRAWN	CHECKED
Client				
Project			Pinewood Campus Nine Mile Ride	
Title			Alternative Drainage Strategy	
Scale:		1:500 @A1	Status:	Preliminary
Drawn:	AP	Project Engineer	TSH	MJA Project No: 7507
Date:		12/01/2026		
Drawing Number:		7507-MJA-SW-XX-DR-C-603		
Rev:				P3