



ID	Type	X (Easting)	Y (Northing)	Proposed Depth (m)	Installation	Soakaway
	TP	459157.08	224654.95	4	N	Y
TP101	TP	459173.48	224647.69	4	N	N
TP102	TP	459215.18	224631.99	4	N	n
TP103	TP	459224.55	224809.33	4	N	Y
TP104	TP	459282.65	224726.4	4	n	Y
TP105	TP	459237.67	224673.92	4	n	n
TP106	TP	459304.67	224648.16	4	N	N
TP107	TP	459228.77	224762.01	4	N	N
TP108	TP	459276.09	224621.92	4	N	N
TP109	TP	459197.22	224708.28	4	N	N
RO1	RO	459253.75	224710.47	3	Y	N
RO2	RO	459240.01	224616.45	3	Y	N
RO3	RO	459211.27	224655.18	3	Y	n

KEY PLAN

- Site Boundary
- Proposed Locations
- Trial Pit
- Rotary Open
- Soakaway
- Installation

NOTES

1. Contains OS data © Crown copyright and database right (2021)

REVISIONS

REV.	DRAWN BY INITIALS	CHECKED BY INITIALS	DATE	REVISION NOTES/COMMENTS
P01	MT	AB	09/02/22	First Issue



TITLE **PROPOSED GROUND INVESTIGATION PLAN**

HYDROCK PROJECT NO. **22457** SCALE @ A3 **1:2,000**

CLIENT **Bicester Motion**

PURPOSE OF ISSUE **SUITABLE FOR INFORMATION** STATUS **S2**

PROJECT **Bicester Heritage Hotel**

DRAWING NO. **22457-HYD-XX-XX-DR-GE-1001** REVISION **P01**



### 1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: Bicester Heritage

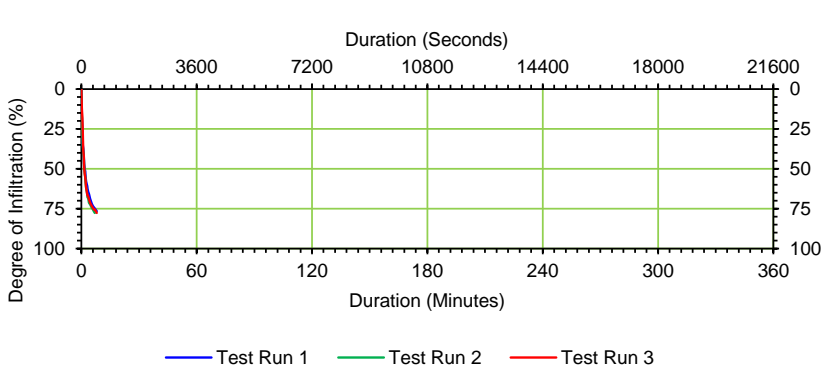
Client: IKS Consulting on behalf of Bicester Motion

Test Location TP103 Date of start 17/02/2022 Date at end 17/02/2022

Test Run 1		Test Run 2		Test Run 3	
Pit Dimensions (m)		Pit Dimensions (m)		Pit Dimensions (m)	
Trial Pit Length (L)	2.300m	Trial Pit Length (L)	2.300m	Trial Pit Length (L)	2.300m
Trial Pit Breadth / Width (B)	0.800m	Trial Pit Breadth / Width (B)	0.800m	Trial Pit Breadth / Width (B)	0.800m
Effective Depth (D)	1.800m	Effective Depth (D)	1.800m	Effective Depth (D)	1.800m
Time at Start of Filling	13.24	Time at Start of Filling	14.03	Time at Start of Filling	15.02
Time at End of Filling	13.35	Time at End of Filling	14.13	Time at End of Filling	15.12
Depth from Surface to Water ( $D_{TW}$ )	1.160m	Depth below Surface to Water ( $D_{TW}$ )	0.860m	Depth below Surface to Water ( $D_{TW}$ )	0.860m
Water Depth ( $W_D$ )	0.640m	Water Depth ( $W_D$ )	0.940m	Water Depth ( $W_D$ )	0.940m
Maximum Fill Volume ( $V_W$ )	1.178m <sup>3</sup>	Maximum Fill Volume ( $V_W$ )	1.730m <sup>3</sup>	Maximum Fill Volume ( $V_W$ )	1.730m <sup>3</sup>
Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes
Porosity of Gravel Backfill ( $P_t$ )	0.300	Porosity of Gravel Backfill ( $P_t$ )	0.300	Porosity of Gravel Backfill ( $P_t$ )	0.300
Corrected Water Volume ( $V_{WC}$ )	0.353m <sup>3</sup>	Corrected Water Volume ( $V_{WC}$ )	0.519m <sup>3</sup>	Corrected Water Volume ( $V_{WC}$ )	0.519m <sup>3</sup>

Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	13.350	1.160	0	1	14.130	0.860	0	1	15.115	0.860	0
1	13.353	1.270	15	1	14.133	1.000	15	1	15.118	0.970	15
1	13.355	1.320	30	1	14.135	1.150	30	1	15.120	1.030	30
1	13.358	1.380	45	1	14.138	1.190	45	1	15.125	1.220	60
1	13.360	1.400	60	1	14.140	1.230	60	1	15.128	1.260	75
1	13.363	1.430	75	1	14.142	1.270	74	1	15.130	1.320	90
1	13.365	1.460	90	1	14.145	1.310	90	1	15.133	1.360	105
1	13.368	1.480	105	1	14.148	1.350	105	1	15.135	1.380	120
1	13.370	1.490	120	1	14.150	1.380	120	1	15.138	1.400	135
1	13.373	1.510	135	1	14.153	1.410	135	1	15.140	1.440	150
1	13.375	1.530	150	1	14.155	1.440	150	1	15.143	1.460	165
1	13.378	1.540	165	1	14.158	1.460	165	1	15.145	1.480	180
1	13.380	1.550	180	1	14.160	1.480	180	1	15.148	1.490	195
1	13.383	1.560	195	1	14.163	1.500	195	1	15.150	1.490	210
1	13.385	1.570	210	1	14.165	1.500	210	1	15.155	1.510	240
1	13.388	1.580	225	1	14.168	1.520	225	1	15.160	1.530	270
1	13.390	1.580	240	1	14.170	1.530	240	1	15.165	1.540	300
1	13.395	1.600	270	1	14.175	1.540	270	1	15.170	1.550	330
1	13.400	1.610	300	1	14.180	1.550	300	1	15.175	1.560	360
1	13.405	1.620	330	1	14.185	1.560	330	1	15.180	1.570	390
1	13.410	1.630	360	1	14.190	1.570	360	1	15.185	1.570	420
1	13.420	1.640	420	1	14.195	1.580	390	1	15.190	1.580	450
1	13.430	1.650	480	1	14.200	1.590	420	1	15.195	1.590	480

25% water loss (75% full)	1.320m	25% water loss (75% full)	1.095m	25% water loss (75% full)	1.095m
50% water loss (50% full)	1.480m	50% water loss (50% full)	1.330m	50% water loss (50% full)	1.330m
75% water loss (25% full)	1.640m	75% water loss (25% full)	1.565m	75% water loss (25% full)	1.565m
25% time (seconds)	29 sec	25% time (seconds)	24 sec	25% time (seconds)	40 sec
75% time (seconds)	420 sec	75% time (seconds)	345 sec	75% time (seconds)	375 sec
Vp 75-25	0.177m <sup>3</sup>	Vp 75-25	0.259m <sup>3</sup>	Vp 75-25	0.259m <sup>3</sup>
ap 50 (Actual area from test)	3.824m <sup>3</sup>	ap 50 (Actual area from test)	4.754m <sup>3</sup>	ap 50 (Actual area from test)	4.754m <sup>3</sup>
tp 75 - 25	391 sec	tp 75 - 25	321 sec	tp 75 - 25	335 sec
Soil Infiltration Rate	1.18E-04m/s	Soil Infiltration Rate	1.70E-04m/s	Soil Infiltration Rate	1.63E-04m/s



Form completed by		
Tested By	PRINT	HT
	SIGN	HT
	DATE	17/02/2022
Calculated By	PRINT	HT
	SIGN	HT
	DATE	01/03/2022
Checked by	PRINT	CA
	SIGN	CA
	DATE	02/03/2022



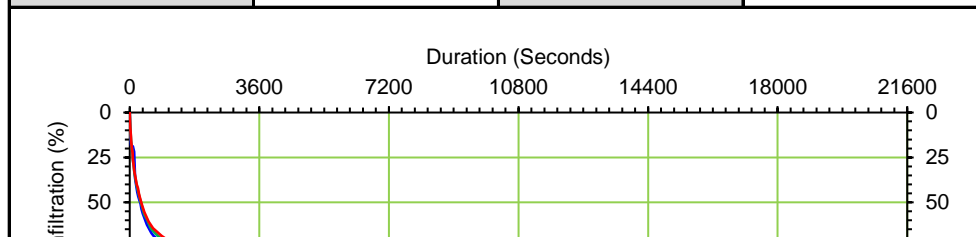
### 1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: Bicester Heritage

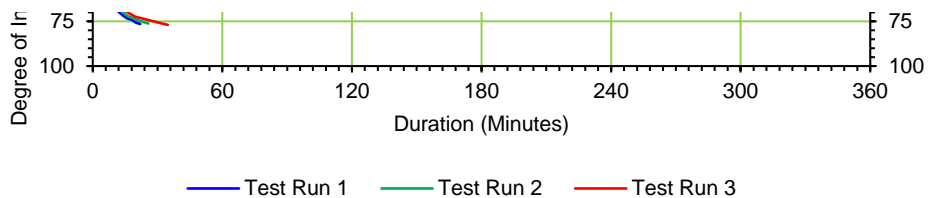
Client: IKS Consulting on behalf of Bicester Motion

Test Location: TP106      Date of start: 18/02/2022      Date at end: 18/02/2022

Test Run 1				Test Run 2				Test Run 3			
Pit Dimensions (m)				Pit Dimensions (m)				Pit Dimensions (m)			
Trial Pit Length (L)		1.800m		Trial Pit Length (L)		1.800m		Trial Pit Length (L)		1.800m	
Trial Pit Breadth / Width (B)		0.600m		Trial Pit Breadth / Width (B)		0.600m		Trial Pit Breadth / Width (B)		0.600m	
Effective Depth (D)		1.800m		Effective Depth (D)		1.800m		Effective Depth (D)		1.800m	
Time at Start of Filling		9.18		Time at Start of Filling		9.58		Time at Start of Filling		10.30	
Time at End of Filling		9.28		Time at End of Filling		10.04		Time at End of Filling		10.36	
Depth from Surface to Water ( $D_{TW}$ )		0.520m		Depth below Surface to Water ( $D_{TW}$ )		0.450m		Depth below Surface to Water ( $D_{TW}$ )		0.450m	
Water Depth ( $W_D$ )		1.280m		Water Depth ( $W_D$ )		1.350m		Water Depth ( $W_D$ )		1.350m	
Maximum Fill Volume ( $V_W$ )		1.382m <sup>3</sup>		Maximum Fill Volume ( $V_W$ )		1.458m <sup>3</sup>		Maximum Fill Volume ( $V_W$ )		1.458m <sup>3</sup>	
Gravel used to backfill Test Pit		Yes		Gravel used to backfill Test Pit		Yes		Gravel used to backfill Test Pit		Yes	
Porosity of Gravel Backfill ( $P_t$ )		0.300		Porosity of Gravel Backfill ( $P_t$ )		0.300		Porosity of Gravel Backfill ( $P_t$ )		0.300	
Corrected Water Volume ( $V_{WC}$ )		0.415m <sup>3</sup>		Corrected Water Volume ( $V_{WC}$ )		0.437m <sup>3</sup>		Corrected Water Volume ( $V_{WC}$ )		0.437m <sup>3</sup>	
Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	9.280	0.520	0	1	10.043	0.450	0	1	10.363	0.450	0
1	9.283	0.680	15	1	10.045	0.560	15	1	10.365	0.560	15
1	9.285	0.750	30	1	10.048	0.650	30	1	10.368	0.630	30
1	9.288	0.760	45	1	10.050	0.680	45	1	10.370	0.670	45
1	9.294	0.760	85	1	10.053	0.720	60	1	10.373	0.720	60
1	9.300	0.800	120	1	10.055	0.750	75	1	10.375	0.750	75
1	9.305	0.990	150	1	10.058	0.810	90	1	10.378	0.800	90
1	9.308	1.020	165	1	10.060	0.840	105	1	10.385	0.900	135
1	9.310	1.050	180	1	10.065	0.910	135	1	10.390	0.950	165
1	9.315	1.090	210	1	10.070	0.960	165	1	10.395	0.990	195
1	9.320	1.120	240	1	10.075	1.000	195	1	10.400	1.020	225
1	9.325	1.150	270	1	10.080	1.040	225	1	10.405	1.060	255
1	9.330	1.170	300	1	10.085	1.070	255	1	10.410	1.090	285
1	9.335	1.210	330	1	10.090	1.100	285	1	10.420	1.150	345
1	9.340	1.240	360	1	10.100	1.160	345	1	10.430	1.200	405
1	9.360	1.320	480	1	10.110	1.220	405	1	10.450	1.270	525
1	9.380	1.380	600	1	10.120	1.250	465	1	10.470	1.320	645
1	9.390	1.400	660	1	10.140	1.320	585	1	10.510	1.380	885
1	9.420	1.440	840	1	10.160	1.360	705	1	10.530	1.400	1005
1	9.440	1.460	960	1	10.200	1.420	945	1	10.560	1.430	1185
1	9.460	1.470	1080	1	10.240	1.450	1185	1	11.010	1.450	1485
1	9.480	1.490	1200	1	10.280	1.470	1425	1	11.060	1.470	1785
1	9.500	1.500	1320	1	10.300	1.480	1545	1	11.110	1.490	2085
25% water loss (75% full)		0.840m		25% water loss (75% full)		0.788m		25% water loss (75% full)		0.788m	
50% water loss (50% full)		1.160m		50% water loss (50% full)		1.125m		50% water loss (50% full)		1.125m	
75% water loss (25% full)		1.480m		75% water loss (25% full)		1.463m		75% water loss (25% full)		1.463m	
25% time (seconds)		126 sec		25% time (seconds)		84 sec		25% time (seconds)		86 sec	
75% time (seconds)		1140 sec		75% time (seconds)		1335 sec		75% time (seconds)		1673 sec	
Vp 75-25		0.207m <sup>3</sup>		Vp 75-25		0.219m <sup>3</sup>		Vp 75-25		0.219m <sup>3</sup>	
ap 50 (Actual area from test)		4.152m <sup>3</sup>		ap 50 (Actual area from test)		4.320m <sup>3</sup>		ap 50 (Actual area from test)		4.320m <sup>3</sup>	
tp 75 - 25		1014 sec		tp 75 - 25		1251 sec		tp 75 - 25		1586 sec	
Soil Infiltration Rate		4.93E-05m/s		Soil Infiltration Rate		4.05E-05m/s		Soil Infiltration Rate		3.19E-05m/s	



Form completed by		
Tested By	PRINT	HT
	SIGN	HT
	DATE	18/02/2022
	PRINT	HT



Calculated By	SIGN	HT
	DATE	01/03/2022
Checked by	PRINT	CA
	SIGN	CA
	DATE	02/03/2022



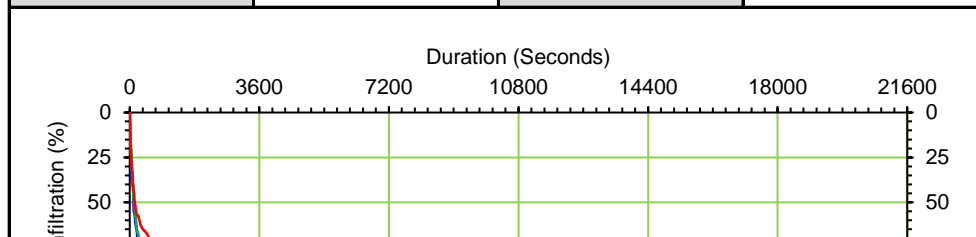
### 1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: Bicester Heritage

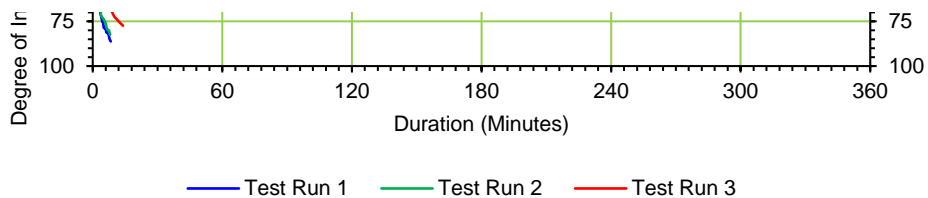
Client: IKS Consulting on behalf of Bicester Motion

Test Location: TP110 Date of start: 17/02/2022 Date at end: 17/02/2022

Test Run 1				Test Run 2				Test Run 3			
Pit Dimensions (m)				Pit Dimensions (m)				Pit Dimensions (m)			
Trial Pit Length (L)		1.800m		Trial Pit Length (L)		1.800m		Trial Pit Length (L)		1.800m	
Trial Pit Breadth / Width (B)		0.740m		Trial Pit Breadth / Width (B)		0.740m		Trial Pit Breadth / Width (B)		0.740m	
Effective Depth (D)		1.300m		Effective Depth (D)		1.300m		Effective Depth (D)		1.300m	
Time at Start of Filling		11.05		Time at Start of Filling		12.12		Time at Start of Filling		12.32	
Time at End of Filling		11.10		Time at End of Filling		12.17		Time at End of Filling		12.49	
Depth from Surface to Water (D <sub>TW</sub> )		0.500m		Depth below Surface to Water (D <sub>TW</sub> )		0.500m		Depth below Surface to Water (D <sub>TW</sub> )		0.500m	
Water Depth (W <sub>D</sub> )		0.800m		Water Depth (W <sub>D</sub> )		0.800m		Water Depth (W <sub>D</sub> )		0.800m	
Maximum Fill Volume (V <sub>W</sub> )		1.066m <sup>3</sup>		Maximum Fill Volume (V <sub>W</sub> )		1.066m <sup>3</sup>		Maximum Fill Volume (V <sub>W</sub> )		1.066m <sup>3</sup>	
Gravel used to backfill Test Pit		Yes		Gravel used to backfill Test Pit		Yes		Gravel used to backfill Test Pit		Yes	
Porosity of Gravel Backfill (P <sub>t</sub> )		0.300		Porosity of Gravel Backfill (P <sub>t</sub> )		0.300		Porosity of Gravel Backfill (P <sub>t</sub> )		0.300	
Corrected Water Volume (V <sub>WC</sub> )		0.320m <sup>3</sup>		Corrected Water Volume (V <sub>WC</sub> )		0.320m <sup>3</sup>		Corrected Water Volume (V <sub>WC</sub> )		0.320m <sup>3</sup>	
Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	11.097	0.500	0	1	12.170	0.500	0	1	12.490	0.500	0
1	11.102	0.700	30	1	12.173	0.610	17	1	12.493	0.640	15
1	11.107	0.800	60	1	12.178	0.680	47	1	12.498	0.710	45
1	11.109	0.810	75	1	12.180	0.760	62	1	12.500	0.750	60
1	11.113	0.840	95	1	12.183	0.810	77	1	12.503	0.770	75
1	11.115	0.940	110	1	12.185	0.830	92	1	12.505	0.810	90
1	11.120	0.960	140	1	12.188	0.880	107	1	12.508	0.850	105
1	11.123	0.990	155	1	12.190	0.900	122	1	12.510	0.860	120
1	11.125	1.000	170	1	12.193	0.930	137	1	12.513	0.890	135
1	11.128	1.020	185	1	12.195	0.960	152	1	12.515	0.910	150
1	11.130	1.030	200	1	12.198	0.970	167	1	12.518	0.930	165
1	11.133	1.060	215	1	12.200	1.000	182	1	12.520	0.950	180
1	11.140	1.100	260	1	12.203	1.030	197	1	12.525	0.960	210
1	11.143	1.100	275	1	12.205	1.030	212	1	12.530	0.960	240
1	11.145	1.110	290	1	12.210	1.050	242	1	12.540	1.000	300
1	11.148	1.130	305	1	12.205	1.070	212	1	12.550	1.020	360
1	11.150	1.130	320	1	12.220	1.090	302	1	12.560	1.030	420
1	11.155	1.130	350	1	12.225	1.100	332	1	12.570	1.040	480
1	11.160	1.150	380	1	12.230	1.110	362	1	12.580	1.060	540
1	11.165	1.150	410	1	12.235	1.130	392	1	12.590	1.080	600
1	11.170	1.160	440	1	12.240	1.140	422	1	13.000	1.090	660
1	11.175	1.180	470	1	12.245	1.140	452	1	13.010	1.100	720
1	11.180	1.190	500	1	12.250	1.160	482	1	13.030	1.120	840
25% water loss (75% full)		0.700m		25% water loss (75% full)		0.700m		25% water loss (75% full)		0.700m	
50% water loss (50% full)		0.900m		50% water loss (50% full)		0.900m		50% water loss (50% full)		0.900m	
75% water loss (25% full)		1.100m		75% water loss (25% full)		1.100m		75% water loss (25% full)		1.100m	
25% time (seconds)		40 sec		25% time (seconds)		51 sec		25% time (seconds)		41 sec	
75% time (seconds)		275 sec		75% time (seconds)		332 sec		75% time (seconds)		720 sec	
Vp 75-25		0.160m <sup>3</sup>		Vp 75-25		0.160m <sup>3</sup>		Vp 75-25		0.160m <sup>3</sup>	
ap 50 (Actual area from test)		3.364m <sup>3</sup>		ap 50 (Actual area from test)		3.364m <sup>3</sup>		ap 50 (Actual area from test)		3.364m <sup>3</sup>	
tp 75 - 25		235 sec		tp 75 - 25		281 sec		tp 75 - 25		679 sec	
Soil Infiltration Rate		2.02E-04m/s		Soil Infiltration Rate		1.69E-04m/s		Soil Infiltration Rate		6.99E-05m/s	




Form completed by		
Tested By	PRINT	HT
	SIGN	HT
	DATE	17/02/2022
	PRINT	HT



Calculated By	SIGN	HT
	DATE	28/02/2022
Checked by	PRINT	CA
	SIGN	CA
	DATE	02/03/2022

# APPENDIX D

## Surface Water Drainage Calculations

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



### Car Park Permeable Paving

Type : Porous Paving

#### Dimensions

Exceedence Level (m)	82.859
Depth (m)	0.300
Base Level (m)	82.559
Paving Layer Depth (mm)	100
Membrane Percolation (m/hr)	324.0
Porosity (%)	30
Length (m)	56.869
Long. Slope (1:x)	300.00
Width (m)	133.499
Total Volume (m <sup>3</sup> )	455.515

#### Inlets


##### Inlet

Inlet Type	Point Inflow
Incoming Item(s)	car park
Bypass Destination	(None)
Capacity Type	No Restriction

#### Advanced

Base Infiltration Rate (m/hr)	0.4248
Safety Factor	2.0
Conductivity (m/hr)	500.0



Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



### Building Permeable paving

Type : Porous Paving

#### Dimensions

Exceedence Level (m)	82.603
Depth (m)	0.300
Base Level (m)	82.303
Paving Layer Depth (mm)	60
Membrane Percolation (m/hr)	324.0
Porosity (%)	30
Length (m)	43.932
Long. Slope (1:x)	318.00
Width (m)	5.039
Total Volume (m <sup>3</sup> )	15.940


#### Inlets

##### Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (1)
Bypass Destination	(None)
Capacity Type	No Restriction

#### Advanced

Base Infiltration Rate (m/hr)	0.11484
Safety Factor	2.0
Conductivity (m/hr)	500.0

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



### Porous Paving

Type : Porous Paving

#### Dimensions

Exceedence Level (m)	82.703
Depth (m)	0.300
Base Level (m)	82.403
Paving Layer Depth (mm)	60
Membrane Percolation (m/hr)	346.0
Porosity (%)	30
Length (m)	68.386
Long. Slope (1:x)	500.00
Width (m)	10.289
Total Volume (m <sup>3</sup> )	50.663


#### Inlets

##### Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (7)
Bypass Destination	(None)
Capacity Type	No Restriction

#### Advanced

Base Infiltration Rate (m/hr)	0.11484
Safety Factor	2.0
Conductivity (m/hr)	500.0

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



### Porous Paving (1)

Type : Porous Paving

#### Dimensions

Exceedence Level (m)	81.948
Depth (m)	0.300
Base Level (m)	81.648
Paving Layer Depth (mm)	100
Membrane Percolation (m/hr)	346.0
Porosity (%)	30
Length (m)	13.076
Long. Slope (1:x)	30.00
Width (m)	26.257
Total Volume (m <sup>3</sup> )	20.600


#### Inlets

##### Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (8)
Bypass Destination	(None)
Capacity Type	No Restriction

#### Advanced

Base Infiltration Rate (m/hr)	0.11484
Safety Factor	2.0
Conductivity (m/hr)	500.0

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



**RS1**

Type : Swale

**Swale**

Exceedence Level (m)	82.813
Depth (m)	0.300
Base Level (m)	82.513
Top Width (m)	2.584
Side Slope (1:x)	3.00
Base Width (m)	0.784
Freeboard (mm)	10
Length (m)	20.673
Long. Slope (1:x)	60.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.033
Total Volume (m³)	9.916

**Inlets**

**Inlet**


Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (2)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

**Advanced**

Safety Factor	2.0
---------------	-----

**Swale**

Base Infiltration Rate (m/hr)	0.11484
Side Infiltration Rate (m/hr)	0.11484
Porosity (%)	100

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



**RS2**

Type : Swale

**Swale**

Exceedence Level (m)	82.933
Depth (m)	0.300
Base Level (m)	82.633
Top Width (m)	3.333
Side Slope (1:x)	3.00
Base Width (m)	1.533
Freeboard (mm)	100
Length (m)	18.705
Long. Slope (1:x)	60.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.033
Total Volume (m³)	7.981

**Inlets**

**Inlet**


Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (3)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

**Advanced**

Safety Factor	2.0
---------------	-----

**Swale**

Base Infiltration Rate (m/hr)	0.11484
Side Infiltration Rate (m/hr)	0.11484
Porosity (%)	100

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



**RS3**

Type : Swale

**Swale**

Exceedence Level (m)	82.242
Depth (m)	0.300
Base Level (m)	81.942
Top Width (m)	6.000
Side Slope (1:x)	3.00
Base Width (m)	4.200
Freeboard (mm)	0
Length (m)	33.287
Long. Slope (1:x)	150.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.033
Total Volume (m³)	50.929

**Inlets**

**Inlet**

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (6)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

**Inlet (1)**


Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (4)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

**Advanced**

Safety Factor	2.0
---------------	-----

**Swale**

Base Infiltration Rate (m/hr)	0.11484
Porosity (%)	100

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



**RS4**

Type : Swale

**Swale**

Exceedence Level (m)	82.474
Depth (m)	0.300
Base Level (m)	82.174
Top Width (m)	5.874
Side Slope (1:x)	3.00
Base Width (m)	4.074
Freeboard (mm)	10
Length (m)	33.108
Long. Slope (1:x)	450.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.033
Total Volume (m³)	47.469

**Inlets**

**Inlet**


Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (5)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

**Advanced**

Safety Factor	2.0
---------------	-----

**Swale**

Base Infiltration Rate (m/hr)	0.11484
Porosity (%)	100

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



### Main Building Soakaway

Type : Cellular Storage

#### Dimensions

Exceedence Level (m)	83.000
Depth (m)	0.800
Base Level (m)	82.000
Number of Crates Long	42
Number of Crates Wide	18
Number of Crates High	2
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m <sup>3</sup> )	287.480

#### Inlets

##### Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

#### Advanced


Base Infiltration Rate (m/hr)	0.11484
Side Infiltration Rate (m/hr)	0.11484
Safety Factor	2.0



Project:	Date: 27/04/2022		
	Designed by: tomclark	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Company Address:		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
car park	Car Park Permeable Paving		Time of Concentration	0.792	100	0	100	0.792
Catchment Area	Main Building Soakaway		Time of Concentration	0.541	100	0	100	0.541
Catchment Area (1)	Building Permeable paving		Time of Concentration	0.022	100	0	100	0.022
Catchment Area (2)	RS1		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (3)	RS2		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (4)	RS3		Time of Concentration	0.069	100	0	100	0.069
Catchment Area (5)	RS4		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (6)	RS3		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (7)	Porous Paving		Time of Concentration	0.090	100	0	100	0.090
Catchment Area (8)	Porous Paving (1)		Time of Concentration	0.039	100	0	100	0.039
<b>TOTAL</b>		<b>0.0</b>		<b>1.586</b>				<b>1.586</b>

Project:	Date: 27/04/2022		
	Designed by: tomclark	Checked by:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:		

### Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

### Pipe Options


Lock Slope Options	None
Design Level	Level Inverts
Min. Cover Depth (m)	1.200
Min. Slope (1:x)	500.00
Max. Slope (1:x)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	<input type="checkbox"/>
Reduce Channel Depths	<input type="checkbox"/>

### Pipe Size Library

#### Default

Add. Increment (mm)	75
---------------------	----

Diameter (mm)	Min. Slope (1:x)	Max. Slope (1:x)
100	0.00	0.00
150	0.00	0.00

Project:	Date: 27/04/2022		
	Designed by: tomclark	Checked by:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:		

### Manhole Options

Apply Offset	<input type="checkbox"/>
Synchronise Manhole Invert Levels	<input checked="" type="checkbox"/>

### Manhole Size Library

#### Default

#### Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

#### Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	0.000

#### Depth


Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

#### Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

#### Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

Project:	Date: 27/04/2022		
	Designed by: tomclark	Checked by:	
Report Title: Rainfall Analysis Criteria	Company Address:		

Runoff Type	Dynamic
Output Interval (mins)	1
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	<input type="checkbox"/>

**Rainfall**

**FSR**

Type: FSR


Region	England and Wales
M5-60 (mm)	20.0
Ratio R	0.411
Summer	<input checked="" type="checkbox"/>
Winter	<input checked="" type="checkbox"/>

**Return Period**

Return Period (years)	Increase Rainfall (%)
1.0	0
30.0	0
100.0	0
100.0	40


**Storm Durations**

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880


Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			



**FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item**


Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Car Park Permeable Paving	FSR: 1 years: +0 %: 15 mins: Winter	82.756	82.559	0.007	0.000	111.4	3.196	0.000	52.049	0.0	0.000	0	99	OK
Main Building Soakaway	FSR: 1 years: +0 %: 60 mins: Winter	82.103	82.103	0.103	0.103	39.7	37.106	0.000	42.697	0.0	0.000	53	87	OK
Building Permeable paving	FSR: 1 years: +0 %: 30 mins: Winter	82.503	82.303	0.063	0.000	2.4	0.831	0.000	1.903	0.0	0.000	10	95	OK
RS1	FSR: 1 years: +0 %: 15 mins: Winter	82.865	82.558	0.008	0.045	1.0	0.247	0.000	0.301	0.0	0.000	9	98	OK
RS2	FSR: 1 years: +0 %: 15 mins: Winter	82.951	82.640	0.006	0.007	0.8	0.115	0.000	0.364	0.0	0.000	2	99	OK
RS3	FSR: 1 years: +0 %: 30 mins: Winter	82.178	82.028	0.014	0.085	8.7	3.790	0.000	4.926	0.0	0.000	14	93	OK
RS4	FSR: 1 years: +0 %: 15 mins: Winter	82.255	82.174	0.007	0.000	1.4	0.192	0.000	0.651	0.0	0.000	2	100	OK
Porous Paving	FSR: 1 years: +0 %: 30 mins: Winter	82.634	82.403	0.095	0.000	9.9	3.996	0.000	7.696	0.0	0.000	16	92	OK
Porous Paving (1)	FSR: 1 years: +0 %: 15 mins: Winter	82.112	81.648	0.028	0.000	5.5	0.969	0.000	2.554	0.0	0.000	5	95	OK

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			




**FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item**

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			


Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Car Park Permeable Paving	FSR: 30 years: +0 %: 15 mins: Winter	82.870	82.559	0.121	0.000	274.3	55.379	0.000	126.946	0.0	0.000	5	88	OK
Main Building Soakaway	FSR: 30 years: +0 %: 120 mins: Winter	82.346	82.346	0.346	0.346	58.6	124.119	0.000	90.524	0.0	0.000	164	57	OK
Building Permeable paving	FSR: 30 years: +0 %: 30 mins: Winter	82.667	82.303	0.226	0.000	6.0	2.999	0.000	3.369	0.0	0.000	24	81	OK
RS1	FSR: 30 years: +0 %: 30 mins: Winter	82.869	82.646	0.011	0.133	1.8	0.918	0.000	0.818	0.0	0.000	24	91	OK
RS2	FSR: 30 years: +0 %: 30 mins: Winter	82.952	82.679	0.007	0.046	1.5	0.531	0.000	1.005	0.0	0.000	9	93	OK
RS3	FSR: 30 years: +0 %: 60 mins: Winter	82.183	82.133	0.019	0.191	14.0	13.367	0.000	12.713	0.0	0.000	51	74	OK
RS4	FSR: 30 years: +0 %: 15 mins: Winter	82.261	82.175	0.013	0.000	3.4	0.751	0.000	1.590	0.0	0.000	4	98	OK
Porous Paving	FSR: 30 years: +0 %: 60 mins: Winter	82.860	82.403	0.320	0.000	15.9	13.359	2.863	21.226	0.0	0.000	33	74	Flood
Porous Paving (1)	FSR: 30 years: +0 %: 30 mins: Winter	82.187	81.648	0.103	0.000	10.4	3.749	0.000	8.099	0.0	0.000	11	82	OK




Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			



**FSR: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item**

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Car Park Permeable Paving	FSR: 100 years: +0 %: 15 mins: Winter	82.939	82.559	0.190	0.000	356.3	86.466	0.000	150.911	0.0	0.000	7	81	OK
Main Building Soakaway	FSR: 100 years: +0 %: 120 mins: Winter	82.489	82.489	0.489	0.489	77.1	175.711	0.000	93.215	0.0	0.000	225	39	OK
Building Permeable paving	FSR: 100 years: +0 %: 30 mins: Winter	82.757	82.303	0.316	0.000	7.8	4.190	0.725	4.308	0.0	0.000	29	74	Flood
RS1	FSR: 100 years: +0 %: 60 mins: Winter	82.868	82.675	0.010	0.161	1.6	1.312	0.000	1.752	0.0	0.000	34	87	OK
RS2	FSR: 100 years: +0 %: 30 mins: Winter	82.953	82.703	0.008	0.070	1.9	0.811	0.000	1.094	0.0	0.000	14	90	OK
RS3	FSR: 100 years: +0 %: 60 mins: Winter	82.186	82.178	0.022	0.236	18.4	19.582	0.000	14.037	0.0	0.000	76	62	OK
RS4	FSR: 100 years: +0 %: 15 mins: Winter	82.263	82.187	0.015	0.012	4.5	1.072	0.000	1.967	0.0	0.000	6	98	OK
Porous Paving	FSR: 100 years: +0 %: 30 mins: Winter	82.879	82.403	0.339	0.000	31.6	18.373	5.540	13.917	0.0	0.000	41	64	Flood
Porous Paving (1)	FSR: 100 years: +0 %: 30 mins: Winter	82.226	81.648	0.143	0.000	13.6	5.650	0.000	10.598	0.0	0.000	14	73	OK

Project:	Date: 27/04/2022			
	Designed by: tomclark	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			



**FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item**

Project:	Date: 27/04/2022		
	Designed by: tomclark	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:		



Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
Car Park Permeable Paving	FSR: 100 years: +40 mins: Winter	83.077	82.559	0.328	0.000	387.5	133.755	42.625	302.158	0.0	0.000	10	71	Flood
Main Building Soakaway	FSR: 100 years: +40 mins: Winter	82.750	82.750	0.750	0.750	63.5	269.290	0.000	194.399	0.0	0.000	329	6	OK
Building Permeable paving	FSR: 100 years: +40 mins: Winter	82.777	82.303	0.336	0.000	10.9	6.356	1.591	4.974	0.0	0.000	35	60	Flood
RS1	FSR: 100 years: +40 mins: Winter	82.871	82.722	0.013	0.209	2.2	2.077	0.000	2.113	0.0	0.000	48	79	OK
RS2	FSR: 100 years: +40 mins: Winter	82.955	82.742	0.010	0.109	2.7	1.321	0.000	1.209	0.0	0.000	22	83	OK
RS3	FSR: 100 years: +40 mins: Winter	82.242	82.242	0.078	0.300	15.8	30.584	0.001	30.326	0.0	0.000	116	40	OK
RS4	FSR: 100 years: +40 mins: Winter	82.264	82.203	0.016	0.029	6.3	1.677	0.000	2.334	0.0	0.000	9	96	OK
Porous Paving	FSR: 100 years: +40 mins: Winter	82.902	82.403	0.363	0.000	44.2	27.319	8.859	17.626	0.0	0.000	41	46	Flood
Porous Paving (1)	FSR: 100 years: +40 mins: Winter	82.385	81.665	0.301	0.017	19.1	8.954	0.168	14.637	0.0	0.000	19	57	Flood

# APPENDIX E

## Proposed Levels Drawing



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REV	DESCRIPTION	DATE	DRAWN
-	PRELIMINARY ISSUE	28/04/2022	CL

ORIGINATOR:



PARTNERSHIP HOUSE  
 MOORSIDE ROAD  
 WINCHESTER  
 SO23 7FX  
 TEL: 01962 834400  
 WWW.RIDGE.CO.UK

CLIENT:  
**BICESTER MOTION LTD**

IN ASSOCIATION WITH:

PROJECT:  
**HOTEL  
 PRE-COMMENCEMENT CONDITIONS**

TITLE:  
**PROPOSED LEVELS STRATEGY**

TECH: JM    CSE:    ICSE:    SCALE: 1:500    @ A1

STATUS: **PRELIMINARY**

DRAWING No:

PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:	ROLE:	NUMBER:	REV:
5017396	RDG	XX	ST	DR	C	1100	-

# **APPENDIX F**

## **PROPOSED Overland Flow Drawing**





# **APPENDIX G**

## **PROPOSED Drainage Layout**



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- ALL DIMENSIONS MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY RELATED WORKS.
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**DRAWING NOTES:**

CDM REGULATIONS 2015  
 SIGNIFICANT OR NON-OBVIOUS RISKS AND RISKS WHICH ARE DIFFICULT TO MANAGE ARE IDENTIFIED ON THIS DRAWING USING THE FOLLOWING SYMBOL IDENTIFIED TO THE RIGHT WITH BRIEF ACCOMPANYING TEXT. FOR FURTHER DETAILS OF THE RISKS IDENTIFIED BY DESIGNERS, REFERENCE SHOULD BE MADE TO CDM HAZARD REGISTER.

- LEGEND**
- PROPOSED PRIVATE FOUL DRAIN
  - PROPOSED FOUL PUMPING MAIN
  - PROPOSED PRIVATE S.W. DRAIN
  - EXISTING SEWER
  - PROPOSED 1200mm $\phi$  MANHOLE
  - MH/IC
  - PROPOSED PRIVATE MANHOLE/INSPECTION CHAMBER depth > 600mm - 450mm $\phi$  (SEE PLAN FOR TYPE)
  - PROPOSED GEOCELLULAR SOAKAWAY
  - PROPOSED SWALE
  - PROPOSED PERMEABLE PAVED FOOTPATH - BASE 300mm BELOW PROPOSED GROUND LEVEL WITH 30% MIN. NO FINES AGGREGATE
  - PROPOSED PERMEABLE PAVING - BASE 300mm BELOW PROPOSED GROUND LEVEL WITH 30% MIN. NO FINES AGGREGATE
  - PROPOSED GRASSCRETE PAVING - BASE 300mm BELOW PROPOSED GROUND LEVEL WITH 30% MIN. NO FINES AGGREGATE
  - PROPOSED PERMEABLE SUB-BASE - BASE 300mm BELOW PROPOSED GROUND LEVEL WITH 30% MIN. NO FINES AGGREGATE

ISSUE	DATE	DRAWN
PRELIMINARY ISSUE	28/04/2022	JM
REV	DESCRIPTION	DATE
ORIGINATOR:		



PARTNERSHIP HOUSE  
 MOORSIDE ROAD  
 WINCHESTER  
 SO23 7FX  
 TEL: 01962 834400  
 WWW.RIDGE.CO.UK

CLIENT:  
**BICESTER MOTION LTD**

IN ASSOCIATION WITH:

PROJECT:  
**HOTEL  
 PRE-COMMENCEMENT CONDITIONS**

TITLE:  
**PROPOSED DRAINAGE STRATEGY**

TECH:	CSE:	ICSE:	SCALE: 1:500	@ A1
JM			INITIAL ISSUE: 28/04/2022	
STATUS: <b>PRELIMINARY</b>				
DRAWING No:				
PROJECT:	ORG:	ZONE:	LEVEL:	TYPE:
5017396	RDG	XX	ST	DR
ROLE:	NUMBER:	REV:		
C	0500	-		