

Keytech Development Design Ltd				Page 1																																																																																																																																																																																																																			
Riverside Offices Mountbatten Way Congleton, CW12 1DY		K24-032 LILAC GROVE porous road																																																																																																																																																																																																																					
Date 18/07/2024 File PERMEABLE ROAD.SRCX		Designed by HB Checked by																																																																																																																																																																																																																					
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Summary of Results for 100 year Return Period (+40%) Half Drain Time : 104 minutes. <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>99.380</td><td>0.680</td><td>0.8</td><td>5.5</td><td>O K</td></tr><tr><td>30 min Summer</td><td>99.481</td><td>0.781</td><td>0.9</td><td>7.3</td><td>O K</td></tr><tr><td>60 min Summer</td><td>99.554</td><td>0.854</td><td>1.0</td><td>8.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>99.587</td><td>0.887</td><td>1.0</td><td>9.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>99.592</td><td>0.892</td><td>1.0</td><td>9.6</td><td>O K</td></tr><tr><td>240 min Summer</td><td>99.587</td><td>0.887</td><td>1.0</td><td>9.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>99.564</td><td>0.864</td><td>1.0</td><td>9.0</td><td>O K</td></tr><tr><td>480 min Summer</td><td>99.534</td><td>0.834</td><td>0.9</td><td>8.3</td><td>O K</td></tr><tr><td>600 min Summer</td><td>99.503</td><td>0.803</td><td>0.9</td><td>7.7</td><td>O K</td></tr><tr><td>720 min Summer</td><td>99.475</td><td>0.775</td><td>0.9</td><td>7.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>99.423</td><td>0.723</td><td>0.8</td><td>6.3</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>99.337</td><td>0.637</td><td>0.7</td><td>4.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>99.241</td><td>0.541</td><td>0.6</td><td>3.5</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>99.170</td><td>0.470</td><td>0.5</td><td>2.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>99.072</td><td>0.372</td><td>0.4</td><td>1.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>99.008</td><td>0.308</td><td>0.3</td><td>1.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>98.964</td><td>0.264</td><td>0.3</td><td>0.8</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>98.930</td><td>0.230</td><td>0.3</td><td>0.6</td><td>O 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Summer	99.587	0.887	1.0	9.4	O K	180 min Summer	99.592	0.892	1.0	9.6	O K	240 min Summer	99.587	0.887	1.0	9.4	O K	360 min Summer	99.564	0.864	1.0	9.0	O K	480 min Summer	99.534	0.834	0.9	8.3	O K	600 min Summer	99.503	0.803	0.9	7.7	O K	720 min Summer	99.475	0.775	0.9	7.2	O K	960 min Summer	99.423	0.723	0.8	6.3	O K	1440 min Summer	99.337	0.637	0.7	4.9	O K	2160 min Summer	99.241	0.541	0.6	3.5	O K	2880 min Summer	99.170	0.470	0.5	2.6	O K	4320 min Summer	99.072	0.372	0.4	1.7	O K	5760 min Summer	99.008	0.308	0.3	1.1	O K	7200 min Summer	98.964	0.264	0.3	0.8	O K	8640 min Summer	98.930	0.230	0.3	0.6	O K	10080 min Summer	98.904	0.204	0.2	0.5	O K	15 min Winter	99.428	0.728	0.8	6.4	O K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	15 min Summer	115.584	0.0	24	30 min Summer	76.054	0.0	37	60 min Summer	47.821	0.0	62	120 min Summer	29.168	0.0	98	180 min Summer	21.604	0.0	132	240 min Summer	17.380	0.0	166	360 min Summer	12.705	0.0	234	480 min Summer	10.119	0.0	302	600 min Summer	8.477	0.0	368	720 min Summer	7.340	0.0	434	960 min Summer	5.844	0.0	560	1440 min Summer	4.232	0.0	808	2160 min Summer	3.059	0.0	1172	2880 min Summer	2.428	0.0	1528	4320 min Summer	1.751	0.0	2248	5760 min Summer	1.387	0.0	2944	7200 min Summer	1.157	0.0	3672	8640 min Summer	0.998	0.0	4408	10080 min Summer	0.880	0.0	5136	15 min Winter	115.584	0.0	24
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Date 18/07/2024 File PERMEABLE ROAD.SRCX		Designed by HB Checked by				
Innovyze		Source Control 2020.1.3				
<u>Summary of Results for 100 year Return Period (+40%)</u>						
	Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
	30 min Winter	99.535	0.835	0.9	8.4	O K
	60 min Winter	99.614	0.914	1.0	10.0	O K
	120 min Winter	99.647	0.947	1.1	10.8	O K
	180 min Winter	99.649	0.949	1.1	10.8	O K
	240 min Winter	99.638	0.938	1.1	10.6	O K
	360 min Winter	99.601	0.901	1.0	9.7	O K
	480 min Winter	99.558	0.858	1.0	8.8	O K
	600 min Winter	99.515	0.815	0.9	8.0	O K
	720 min Winter	99.476	0.776	0.9	7.2	O K
	960 min Winter	99.405	0.705	0.8	6.0	O K
	1440 min Winter	99.291	0.591	0.7	4.2	O K
	2160 min Winter	99.173	0.473	0.5	2.7	O K
	2880 min Winter	99.092	0.392	0.4	1.8	O K
	4320 min Winter	98.991	0.291	0.3	1.0	O K
	5760 min Winter	98.932	0.232	0.3	0.6	O K
	7200 min Winter	98.894	0.194	0.2	0.5	O K
	8640 min Winter	98.867	0.167	0.2	0.3	O K
	10080 min Winter	98.846	0.146	0.2	0.3	O K
	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
	30 min Winter	76.054	0.0	37		
	60 min Winter	47.821	0.0	62		
	120 min Winter	29.168	0.0	104		
	180 min Winter	21.604	0.0	140		
	240 min Winter	17.380	0.0	178		
	360 min Winter	12.705	0.0	252		
	480 min Winter	10.119	0.0	322		
	600 min Winter	8.477	0.0	392		
	720 min Winter	7.340	0.0	458		
	960 min Winter	5.844	0.0	588		
	1440 min Winter	4.232	0.0	836		
	2160 min Winter	3.059	0.0	1192		
	2880 min Winter	2.428	0.0	1540		
	4320 min Winter	1.751	0.0	2252		
	5760 min Winter	1.387	0.0	2944		
	7200 min Winter	1.157	0.0	3672		
	8640 min Winter	0.998	0.0	4408		
	10080 min Winter	0.880	0.0	5136		
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