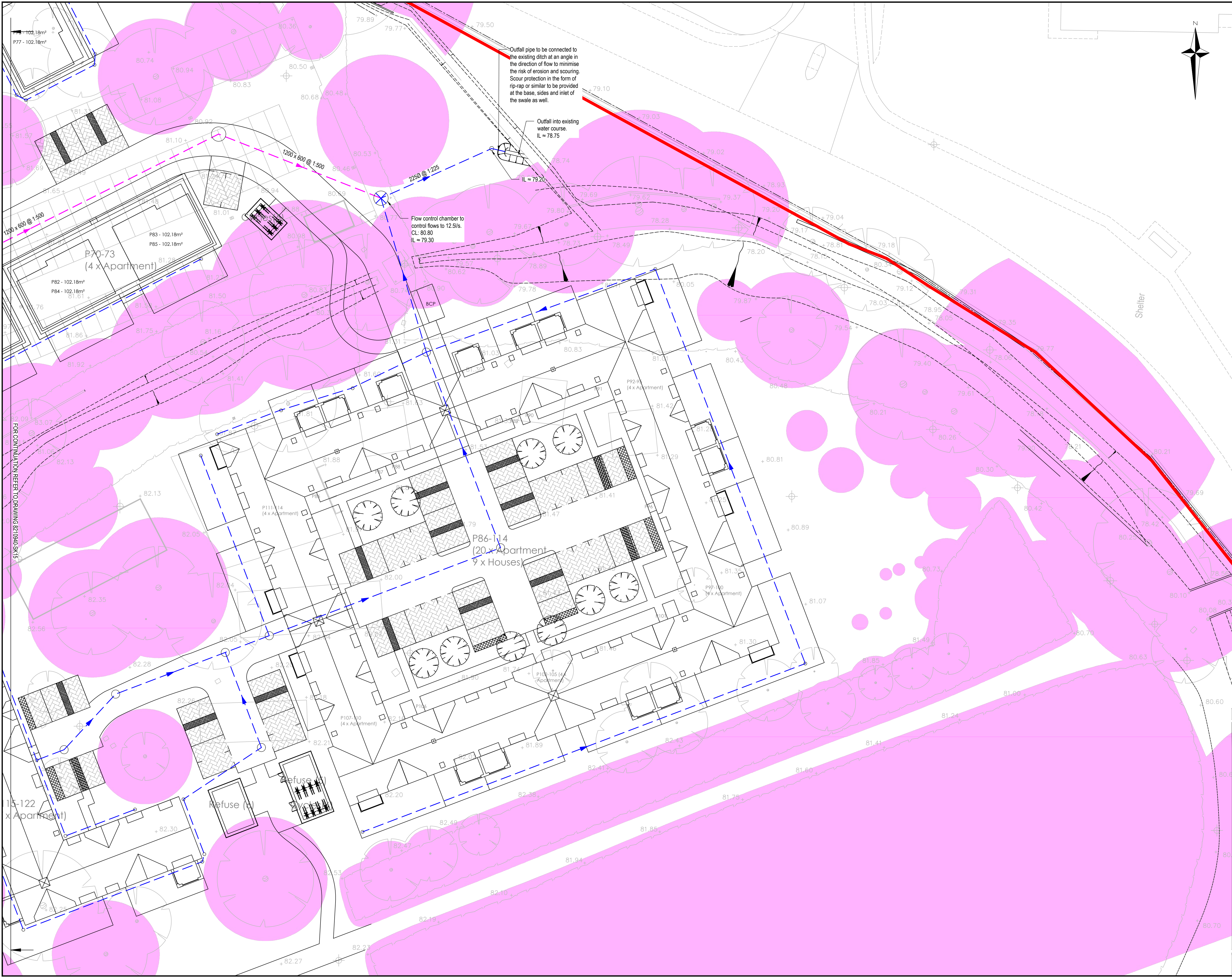






KEY PLAN

NOTES

1. This drawing to be read in conjunction with all relevant documents and specifications.
2. Dimensions are scalable for 'Planning' purposes only.
3. Any discrepancies found between information shown on this or any other drawing shall be reported to the Engineer immediately and prior to works commencing on site.
4. Site layout provided by BHP Harwood Architects, drawing no. 3251-P-101, Rev X, dated February 2022.
5. Topographical survey provided by Midland Survey Ltd.
6. Drainage installed through root protection area to consider utilisation of thrust bore techniques / air spade or as agreed with arboriculturalist.

KEY

PROPOSED DRAINAGE

- Surface water (SW) sewer
- 1.2m x 0.6m deep concrete box culvert
- SW flow control chamber
- SW manholes
- SW inspection chamber
- SW catchpit
- Permeable block paving with lined sub-base
- Tree root protection area

| P5   | Updated in line with Client's comments.        | 30/06/2023<br>A. Persins | JH   |
|------|------------------------------------------------|--------------------------|------|
| P4   | Updated to suit the Architect's latest layout. | 16/06/2023<br>A. Persins | JH   |
| P3   | Updated to suit the Architect's latest layout. | 06/12/2022<br>A. Persins | JH   |
| P2   | Updated to suit the Architect's latest layout. | 08/03/2022<br>A. Persins | JH   |
| P1   | First issue for PLANNING.                      | 10/12/2021<br>A. Persins | JH   |
| Rev. | Description                                    | Date                     | Chkd |

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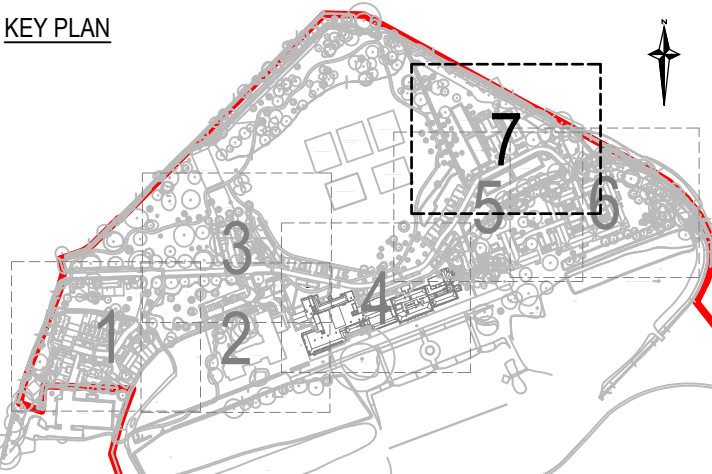
Client :  
Beechcroft Developments Ltd

Project :  
Caversham Park  
Peppard Road, Reading  
RG4 8TZ

Title :  
Indicative Surface Water Drainage Strategy  
Eastern Catchment  
Sheet 6

Project Engineer : A. Persins Scale : 1:250 @ A1  
Project Director : J. Hanlon Date : December 2021  
Status : PLANNING

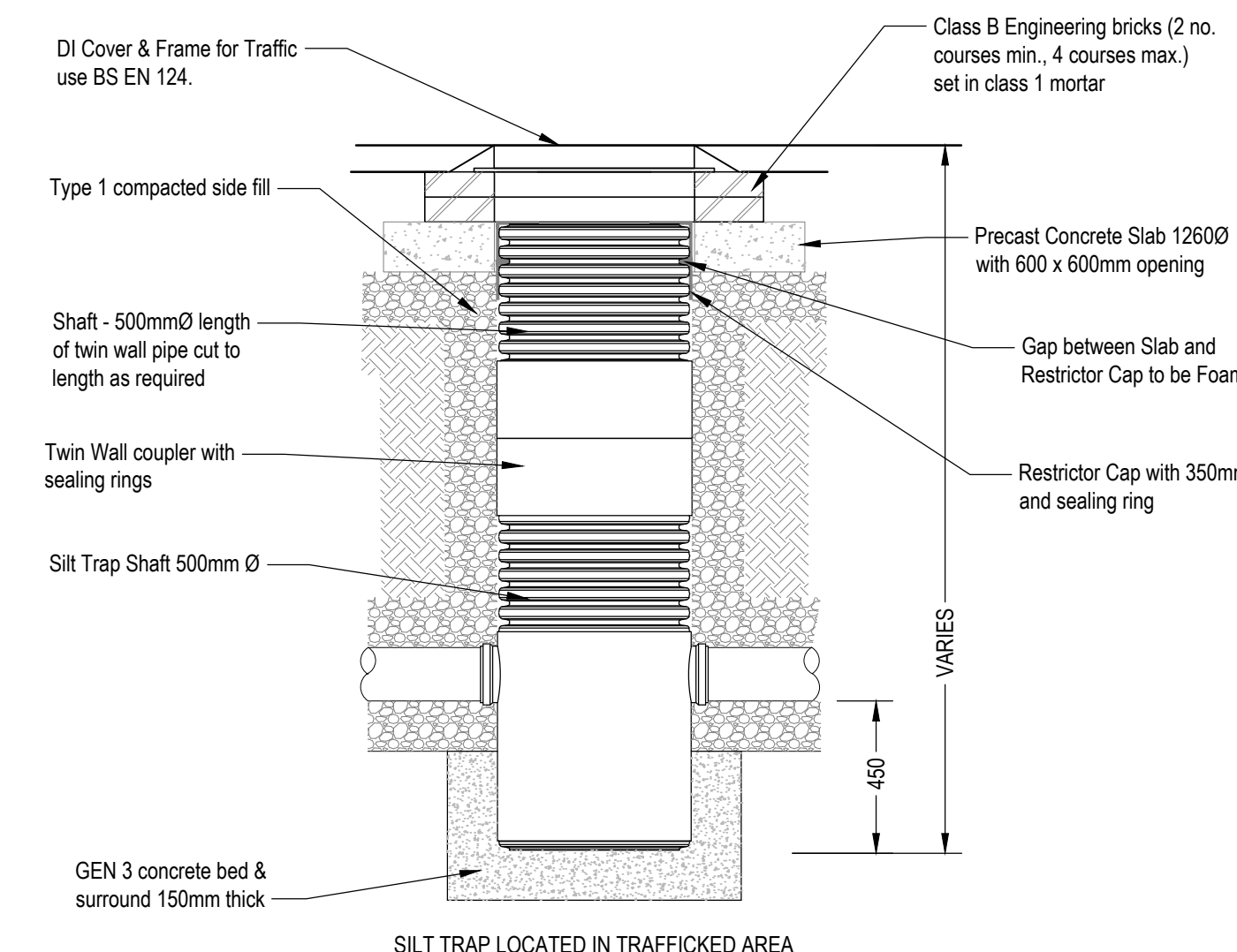
Drawing No. 8210940-SK16 Rev P5



- KEY**
- PROPOSED DRAINAGE**
- |                                                                                     |                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------|
|  | Surface water (SW) sewer                   |
|  | 1.2m x 0.6m deep concrete box culvert      |
|  | SW flow control chamber                    |
|  | SW manholes                                |
|  | SW inspection chamber                      |
|  | SW catchpit                                |
|  | Permeable block paving with lined sub-base |
|  | Tree root protection area                  |

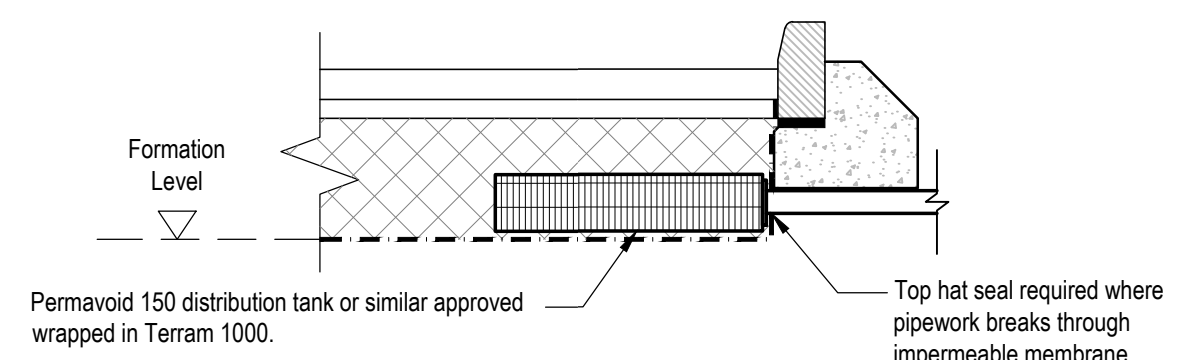
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|------|------------------------------------------------|--------------------------|------|
| P5   | Updated in line with Client's comments.        | 30/06/2023<br>A. Persins | JH   |
| P2   | Updated to suit the Architect's latest layout. | 16/06/2023<br>A. Persins | JH   |
| P1   | First issue for PLANNING.                      | 06/12/2022<br>A. Persins | JH   |
| Rev. | Description                                    | Date                     | Chkd |

|                                                                                       |  |                                                                                                                                                                           |  |
|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |  | <h1>Glanville</h1>                                                                                                                                                        |  |
| <p>Client :</p>                                                                       |  | <p>Cornerstone House<br/>62 Foxhall Road, Didcot<br/>Oxon, OX11 7AD<br/>Tel: (01235) 515550 Fax: (01235) 817799<br/>postbox@glanvillegroup.com www.glanvillegroup.com</p> |  |
| <p>Beechcroft Developments Ltd</p>                                                    |  |                                                                                                                                                                           |  |
| <p>Project :</p>                                                                      |  | <p>Caversham Park<br/>Peppard Road, Reading<br/>RG4 8TZ</p>                                                                                                               |  |
| <p>Title:</p>                                                                         |  |                                                                                                                                                                           |  |
| <p>Indicative Surface Water Drainage Strategy<br/>Eastern Catchment<br/>Sheet 7</p>   |  |                                                                                                                                                                           |  |
| <p>Project Engineer : A. Persins</p>                                                  |  | <p>Scale : 1:250 @ A1</p>                                                                                                                                                 |  |
| <p>Project Director : J. Hanlon</p>                                                   |  | <p>Date : December 2022</p>                                                                                                                                               |  |
| <p>Status :</p>                                                                       |  | <p>PLANNING</p>                                                                                                                                                           |  |
| <p>Drawing No.</p>                                                                    |  | <p>8210940-SK17</p>                                                                                                                                                       |  |
|                                                                                       |  | <p>Rev<br/>P3</p>                                                                                                                                                         |  |

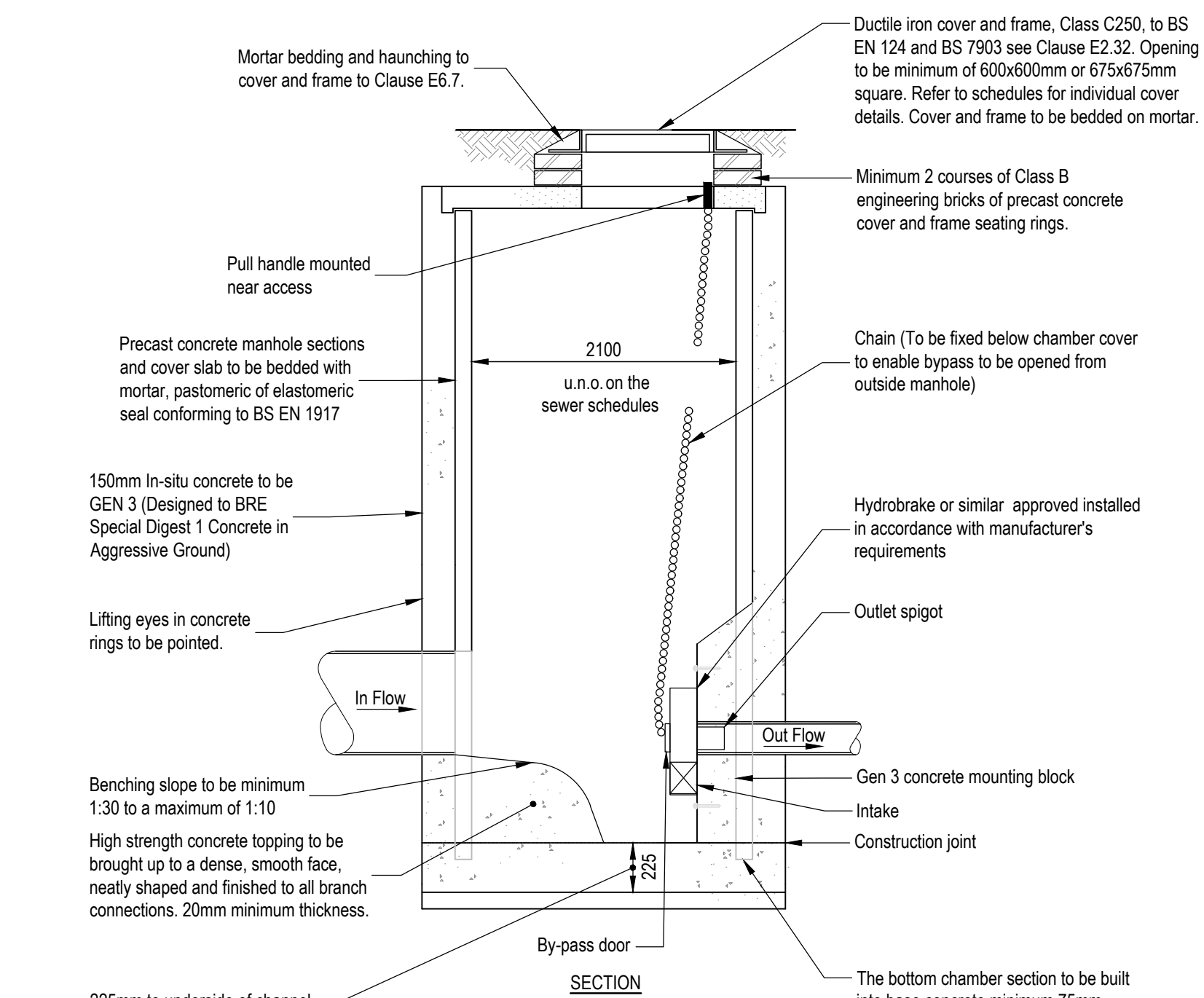


SILT TRAP LOCATED IN TRAFFICKED AREA

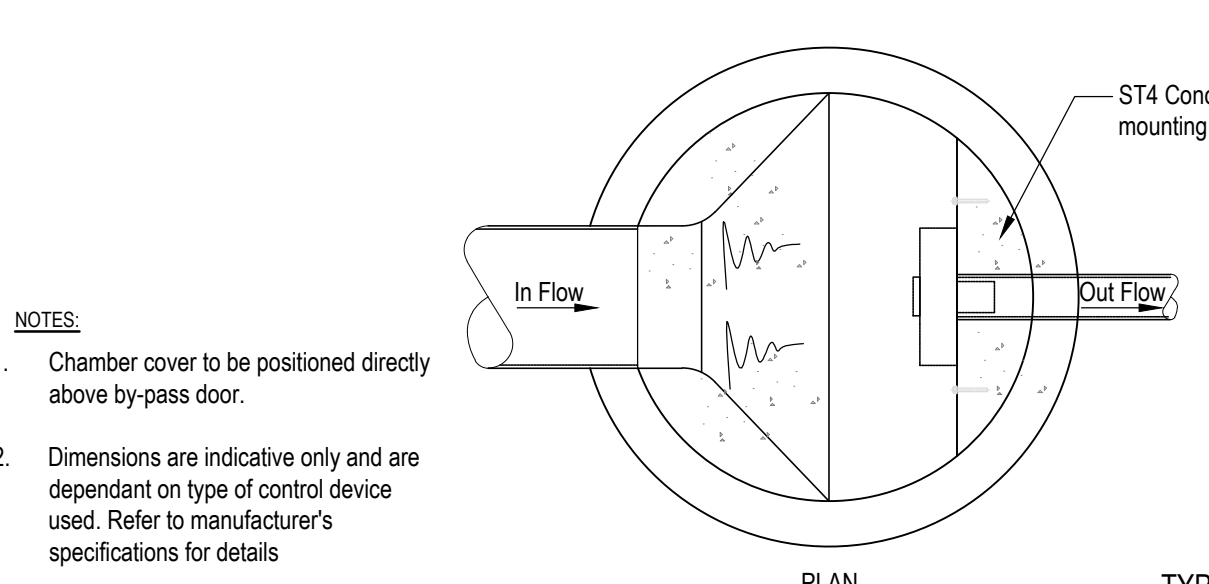
TYPICAL CATCHPIT / SILT TRAP DETAIL  
Scale 1:20



TYPICAL SECTION THROUGH DISTRIBUTION TANK  
WITHIN DRIVEWAY SUB-BASE  
Scale 1:20



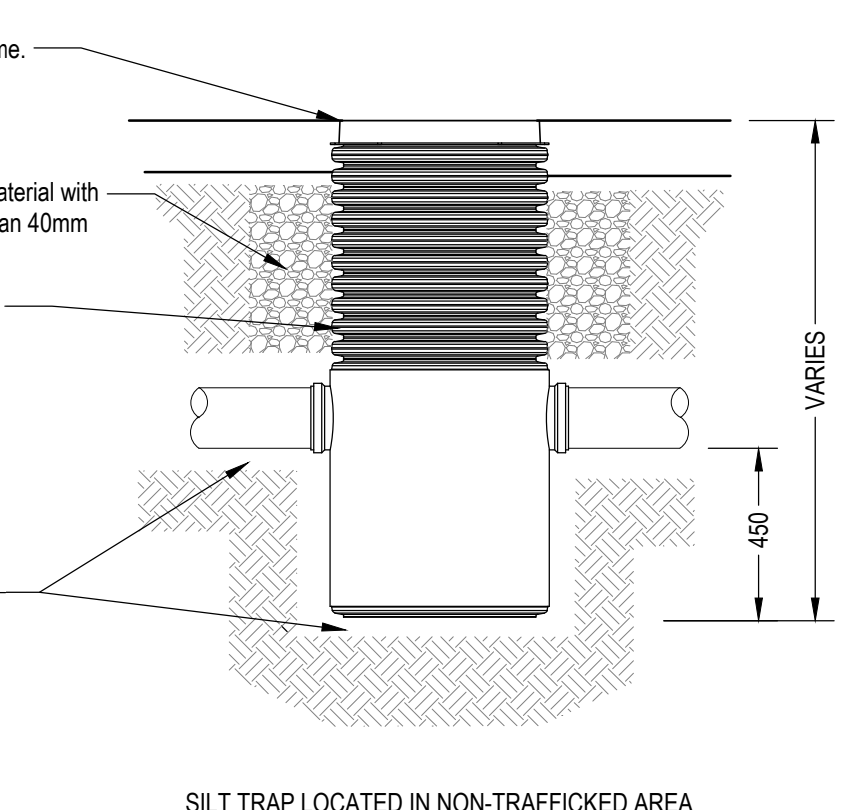
SECTION



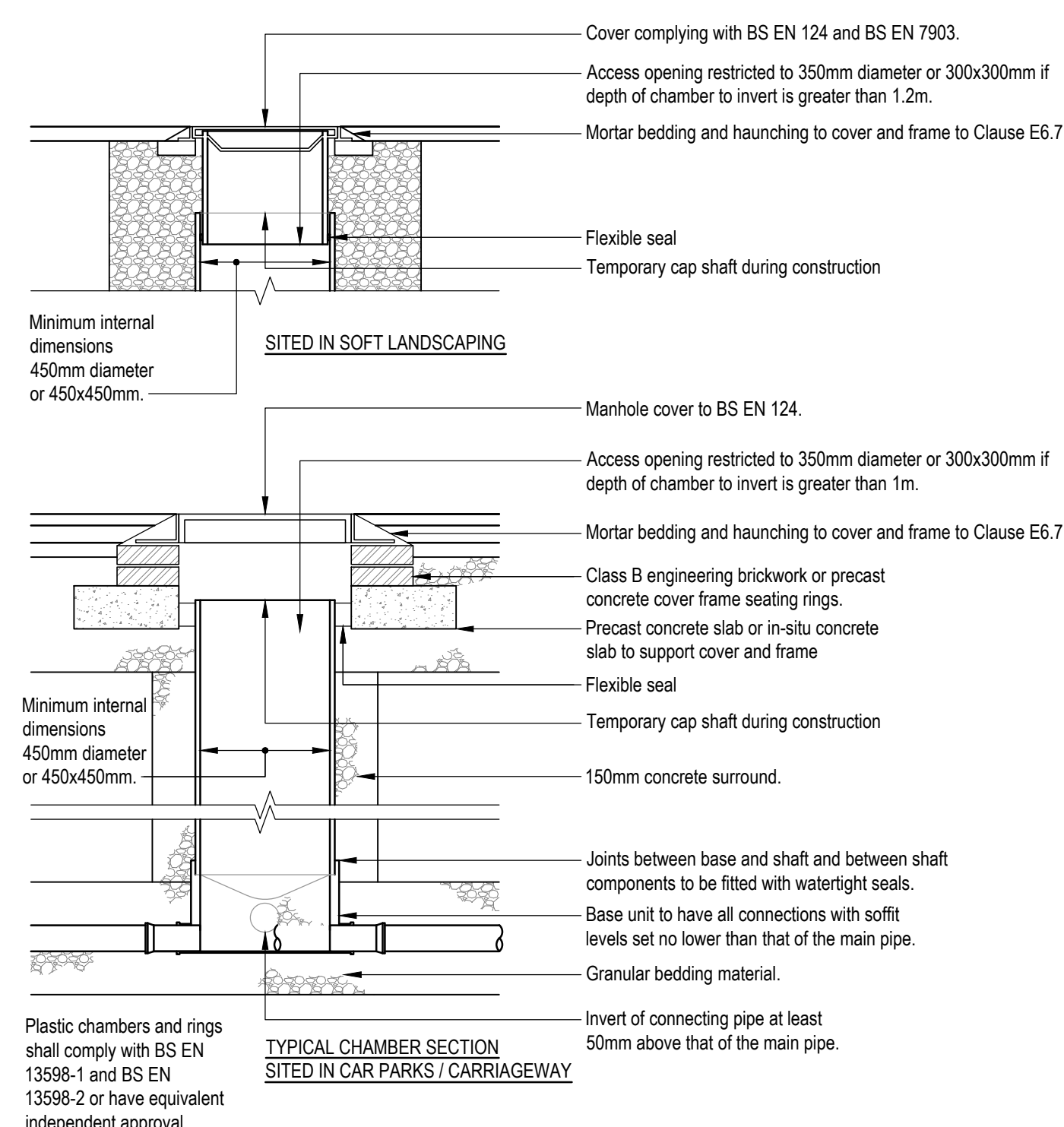
PLAN

TYPICAL HYDROBRAKE MANHOLE  
Scale 1:25

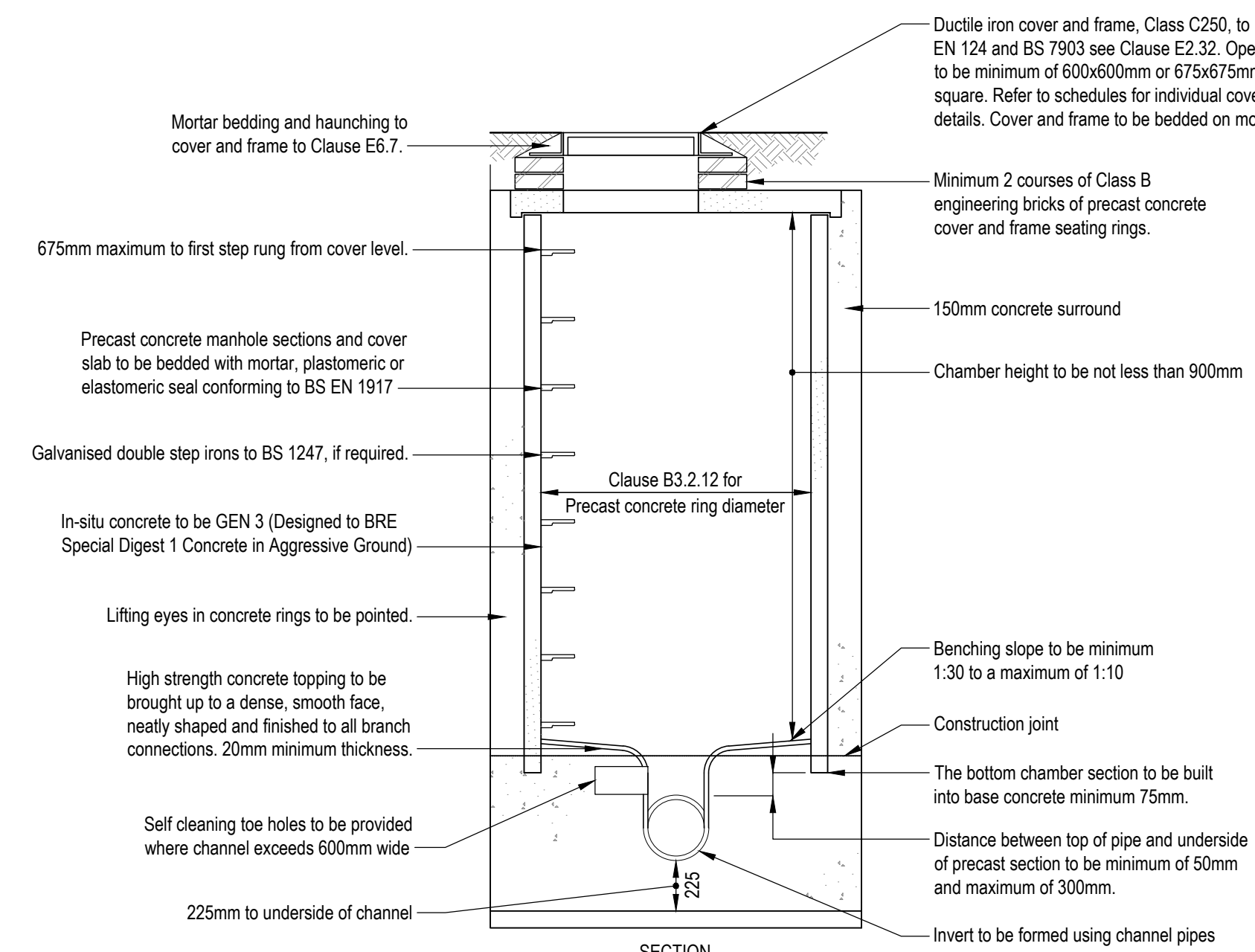
- NOTES
1. Chamber cover to be positioned directly above by-pass door.
  2. Dimensions are indicative only and are dependant on type of control device used. Refer to manufacturer's specifications for details



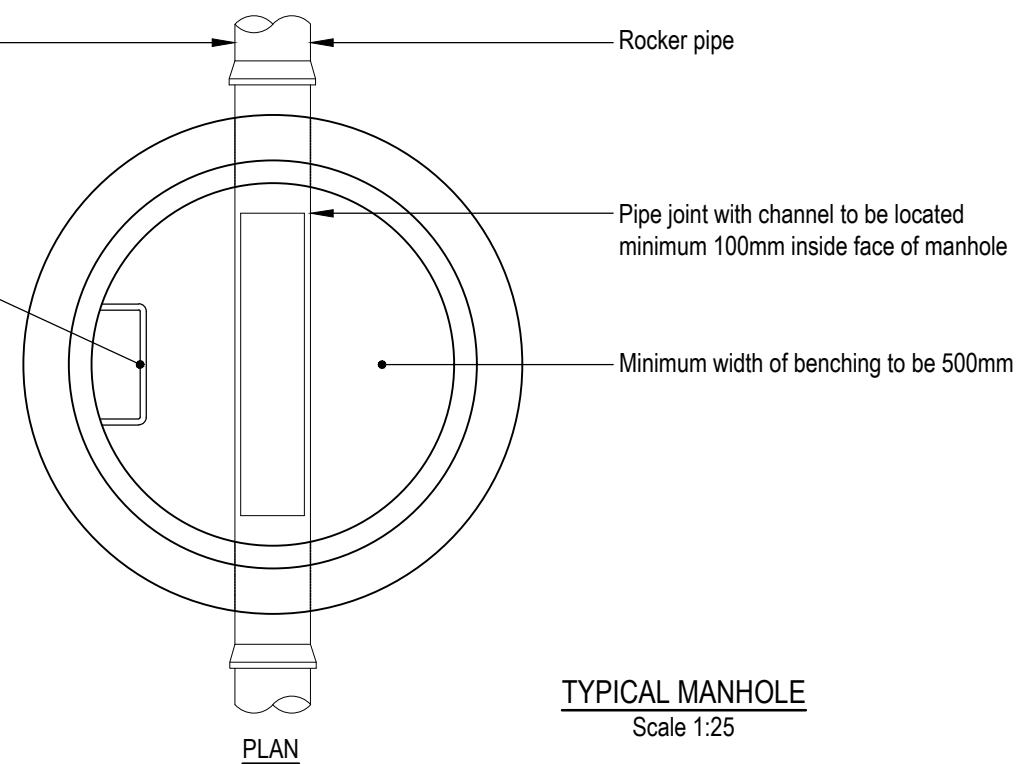
SILT TRAP LOCATED IN NON-TRAFFICKED AREA



TYPICAL INSPECTION CHAMBER  
Scale: 1:20



SECTION

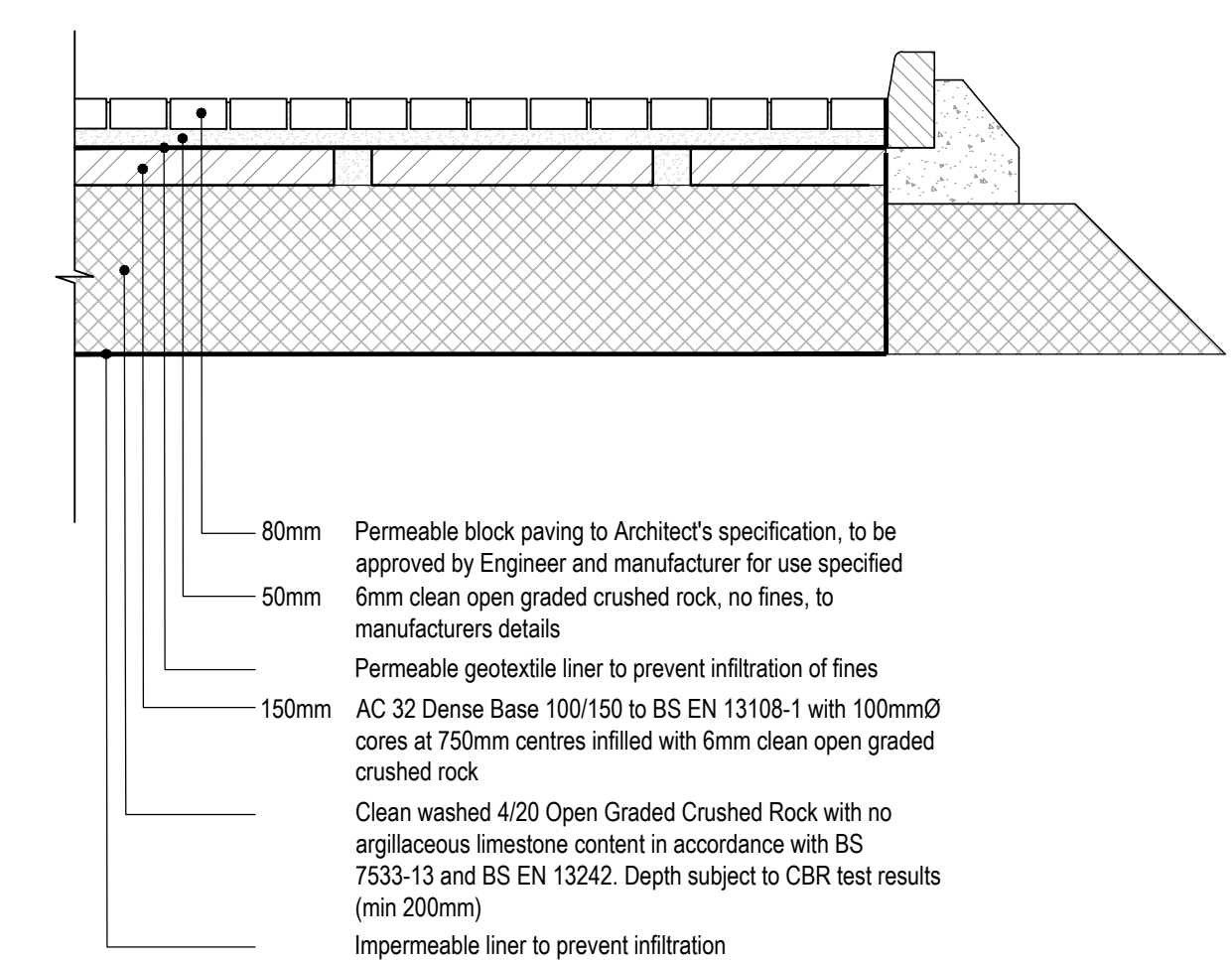


TYPICAL MANHOLE  
Scale 1:25

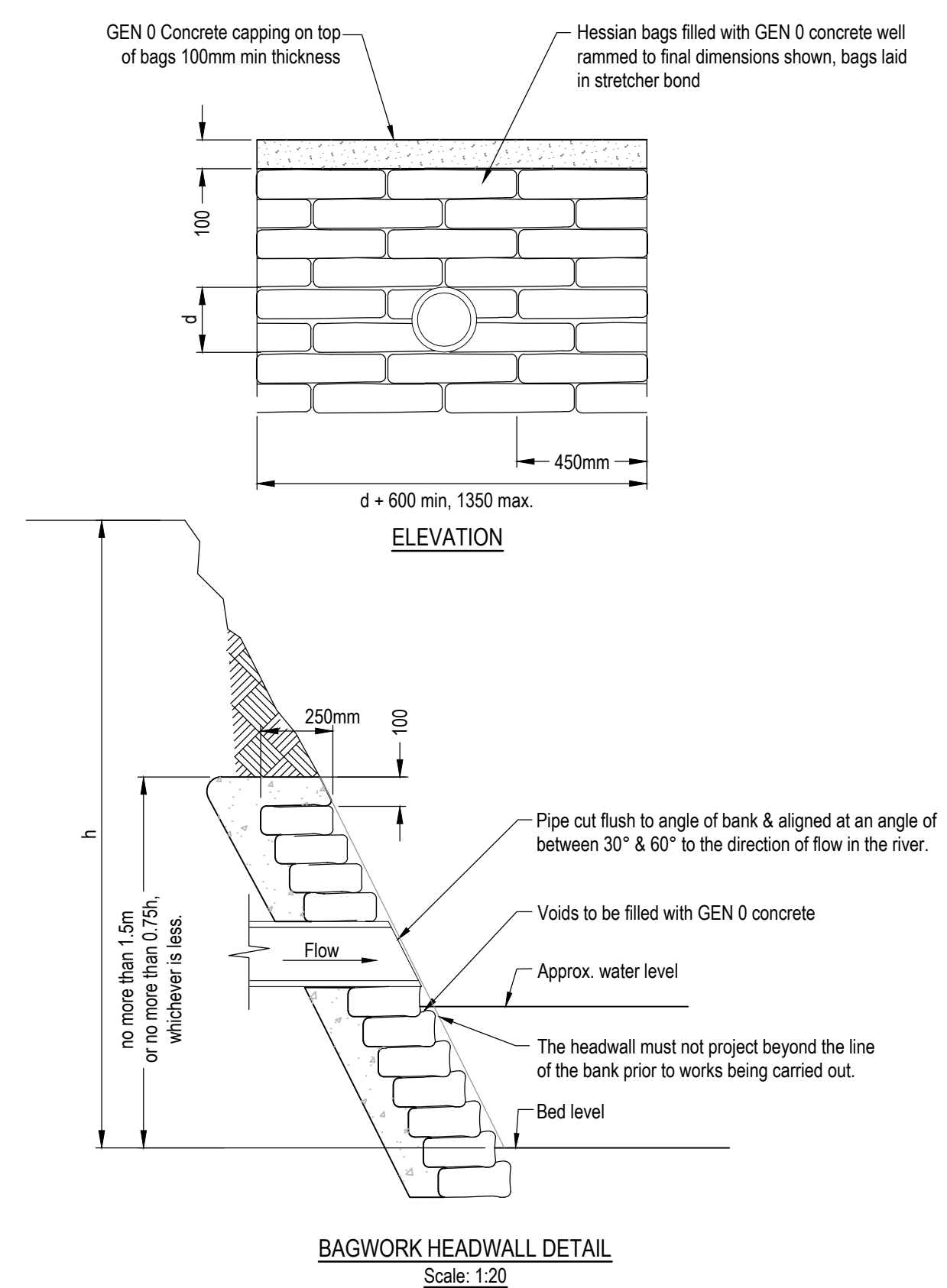
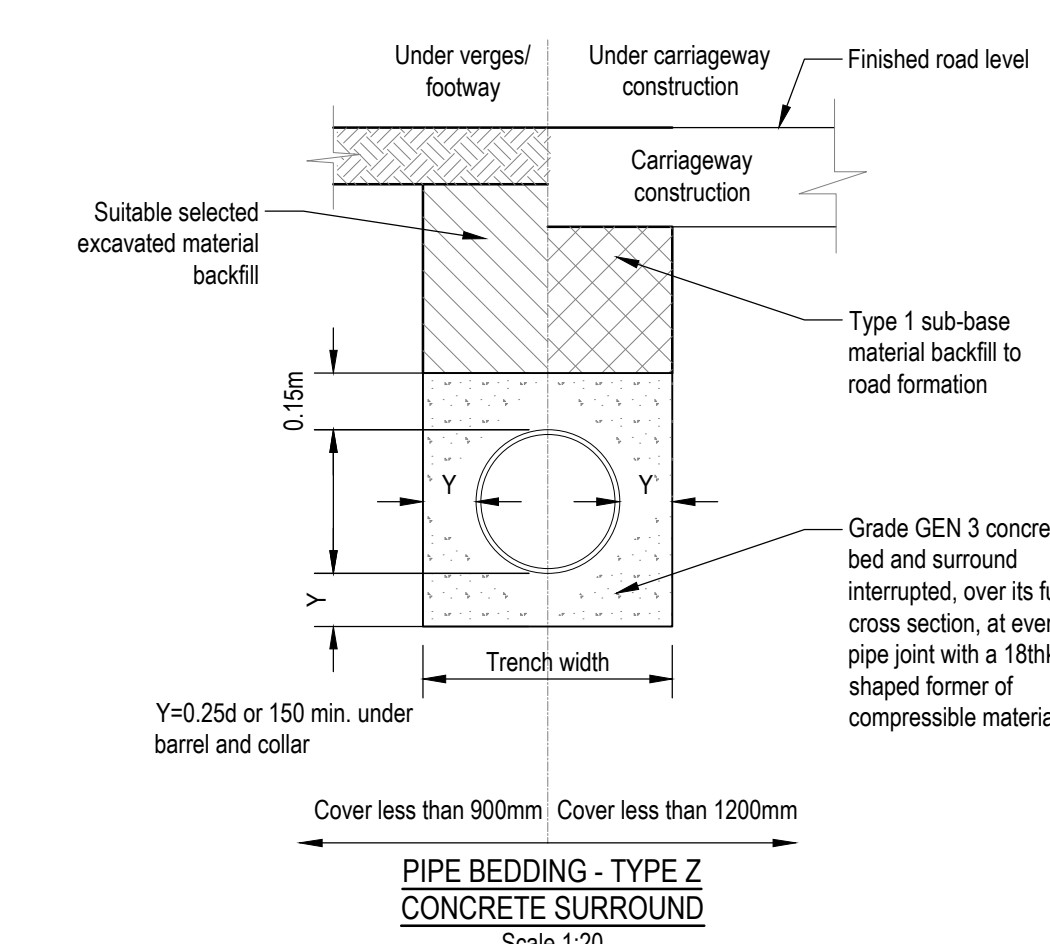
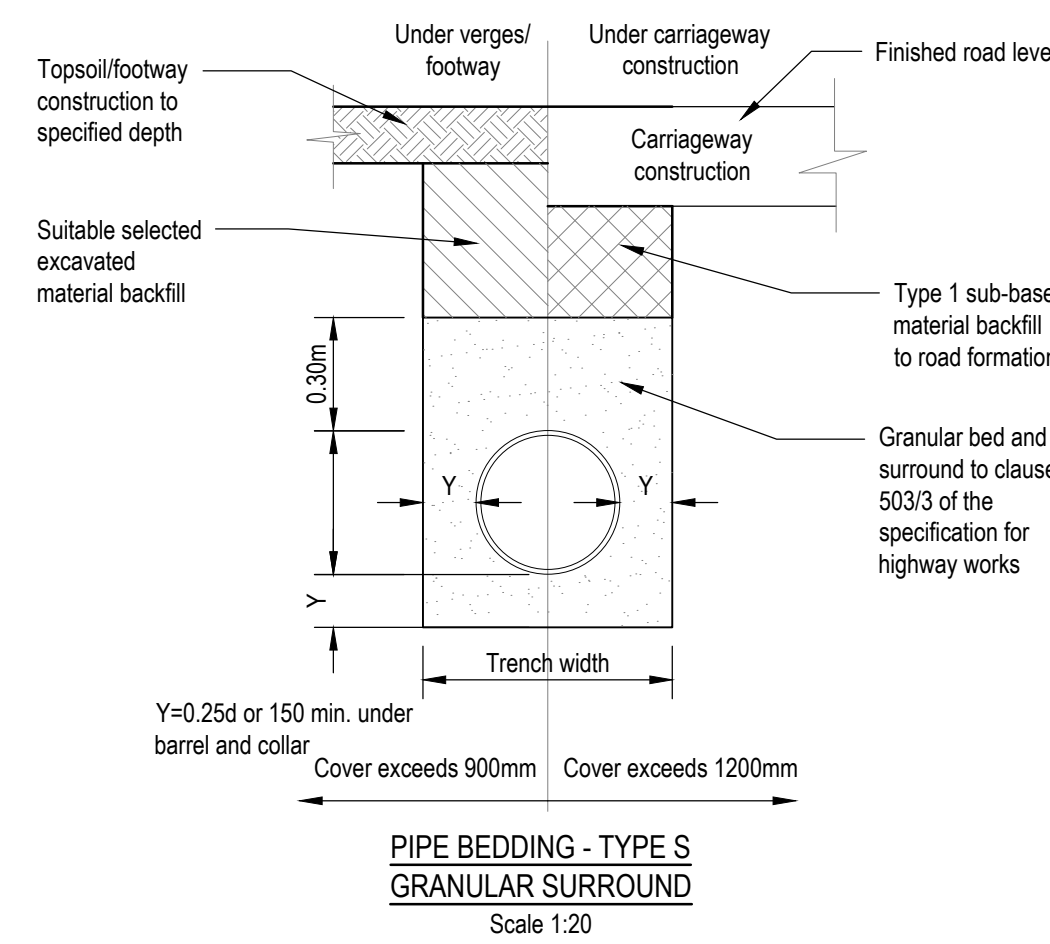
NOTES

Alternate construction precast concrete manhole sections and cover slab to be bedded with mortar, plastomeric or elastomeric seal conforming to BS EN 1917 and BS 5911-3. Chamber wall to be 125mm thick with no concrete surround.

| Table 2            |                                     |
|--------------------|-------------------------------------|
| Pipe Diameter (mm) | Effective length of rocker pipe (m) |
| 150 to 600         | 0.6                                 |
| 675 to 750         | 1.0                                 |
| Over 750           | 1.25                                |



TYPICAL DETAIL OF PERMEABLE PAVING  
NTS

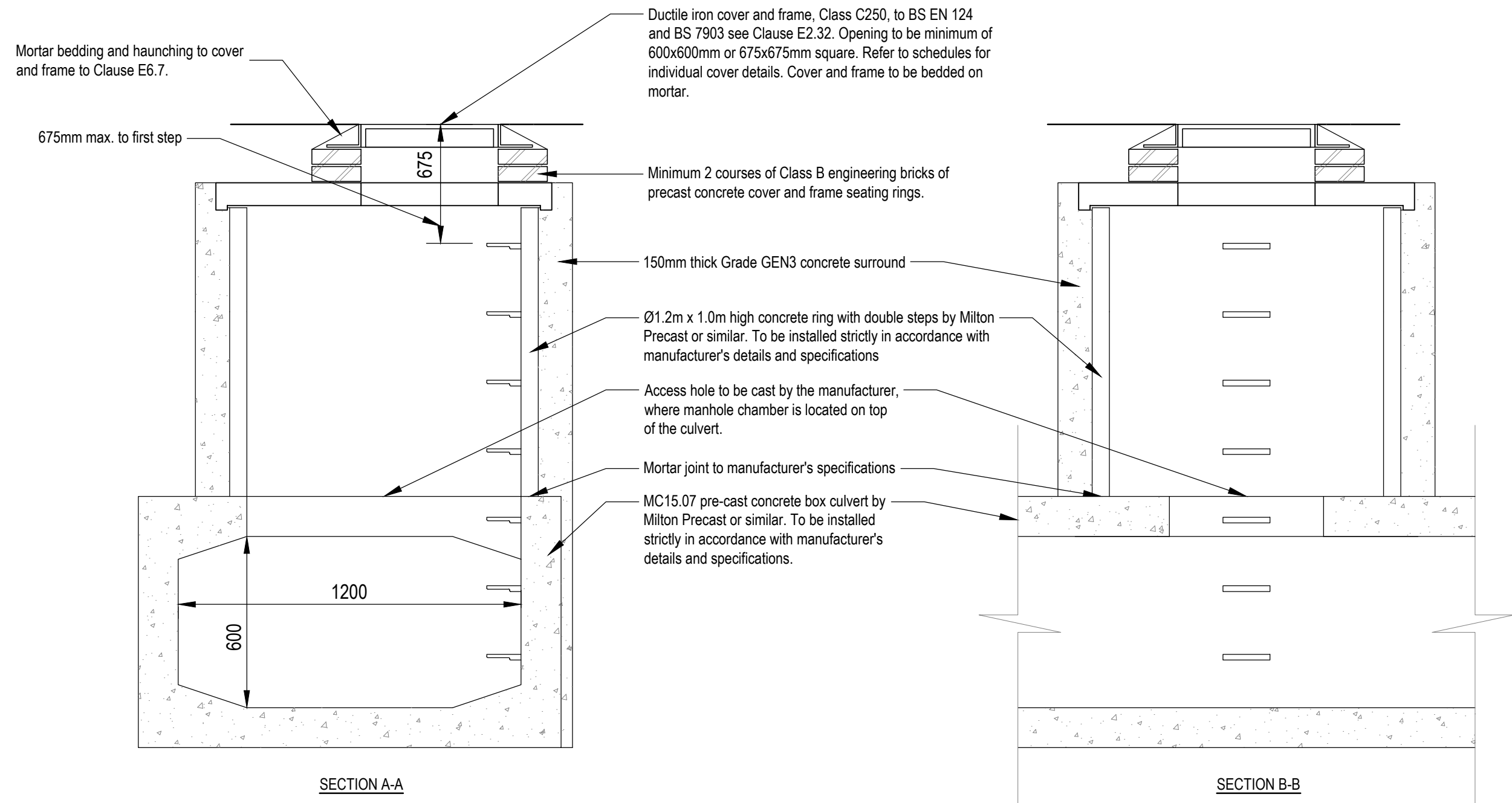


- NOTES
1. This drawing to be read in conjunction with all relevant documents and specifications.
  2. Dimensions are scalable for 'Planning' purposes only.
  3. Any discrepancies found between information shown on this or any other drawing shall be reported to the Engineer immediately and prior to works commencing on site.

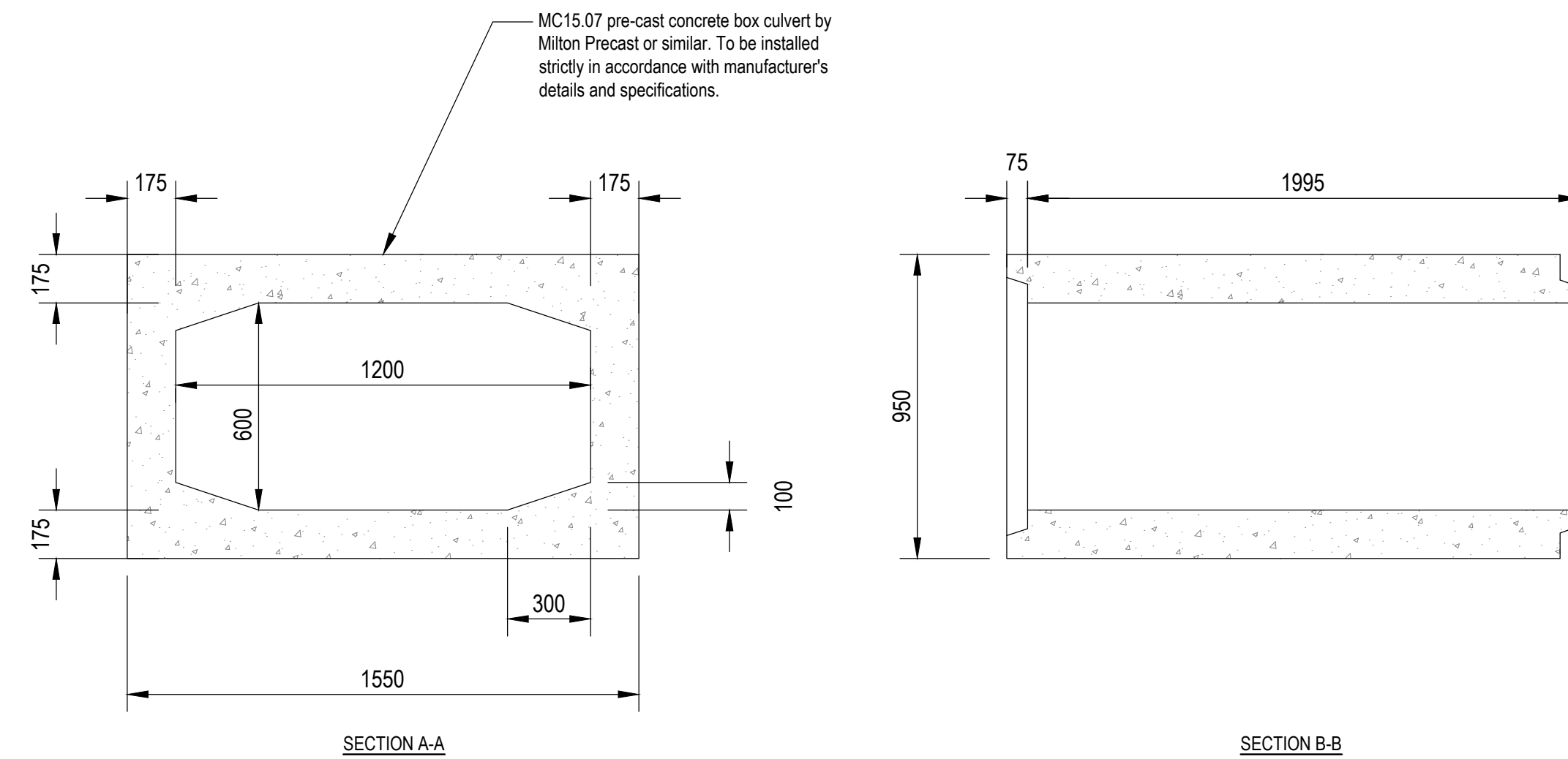
|      |                           |      |      |
|------|---------------------------|------|------|
| P1   | First issue for PLANNING. | --   | JH   |
| Rev. | Description               | Date | Chkd |

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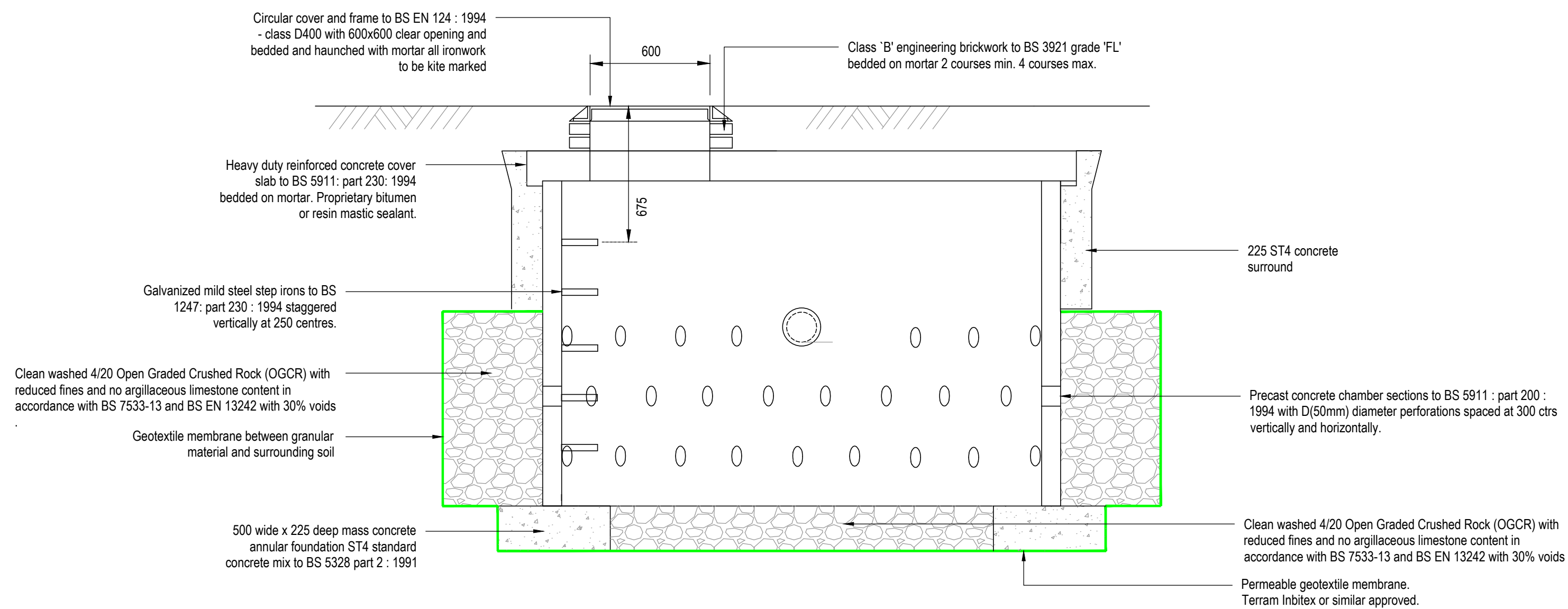
|                    |                                                    |         |               |
|--------------------|----------------------------------------------------|---------|---------------|
| Client :           | Beechcroft Developments Ltd                        |         |               |
| Project :          | Caversham Park<br>Peppard Road, Reading<br>RG4 8TZ |         |               |
| Title :            | Typical Drainage Construction Details<br>Sheet 1   |         |               |
| Project Engineer : | A. Persins                                         | Scale : | As Shown @ A1 |
| Project Director : | J. Hanlon                                          | Date :  | December 2021 |
| Status :           | PLANNING                                           |         |               |
| Drawing No.        | 8210940-SK31                                       | Rev     | P1            |



MANHOLE ON TOP OF CULVERT -  
TYPICAL SECTIONS  
Scale 1:20



TYPICAL BOX CULVERT DETAIL  
Scale 1:20



TYPICAL SECTION THROUGH SOAKAWAY  
Scale 1:20

- NOTES
1. This drawing to be read in conjunction with all relevant documents and specifications.
  2. Dimensions are scalable for 'Planning' purposes only.
  3. Any discrepancies found between information shown on this or any other drawing shall be reported to the Engineer immediately and prior to works commencing on site.

|      |                           |      |      |
|------|---------------------------|------|------|
| P1   | First issue for PLANNING. | --   | JH   |
| Rev. | Description               | Date | Chkd |

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|                    |                                                    |         |               |
|--------------------|----------------------------------------------------|---------|---------------|
| Client :           | Beechcroft Developments Ltd                        |         |               |
| Project :          | Caversham Park<br>Peppard Road, Reading<br>RG4 8TZ |         |               |
| Title :            | Typical Drainage Construction Details<br>Sheet 2   |         |               |
| Project Engineer : | A. Persins                                         | Scale : | As Shown @ A1 |
| Project Director : | J. Hanlon                                          | Date :  | December 2021 |
| Status :           | PLANNING                                           |         |               |
| Drawing No.        | 8210940-SK32                                       | Rev     | P1            |

## **Appendix M**

### **Greenfield and Brownfield Runoff Calculations**

|                                                         |                                    |                                                                                     |
|---------------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                    | Page 1                                                                              |
| Cornerstone House<br>62 Foxhall Road<br>Didcot OX11 7AD |                                    |  |
| Date 06/12/2021 12:00<br>File                           | Designed by APersins<br>Checked by |                                                                                     |
| Innovyze Source Control 2020.1                          |                                    |                                                                                     |

ICP SUDS Mean Annual Flood

Input

|                       |       |               |          |
|-----------------------|-------|---------------|----------|
| Return Period (years) | 100   | Soil          | 0.300    |
| Area (ha)             | 0.745 | Urban         | 0.000    |
| SAAR (mm)             | 700   | Region Number | Region 1 |

**Results 1/s**

|            |     |
|------------|-----|
| QBAR Rural | 1.4 |
| QBAR Urban | 1.4 |
| Q100 years | 3.4 |
| Q1 year    | 1.2 |
| Q30 years  | 2.6 |
| Q100 years | 3.4 |

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8210940 - Caversham Park, Reading 1 in 1 year storm event  
A. Persins 06.07.2021

**Total Depth of rainfall - The Manual Method According to the Wallingford Procedure**

i)

|         |      |    |
|---------|------|----|
| M5-60 = | 19.4 | mm |
| r =     | 0.4  |    |

ii) **M5-D = Z1 (M5-60)**

| Storm Duration | Total Rainfall | Z1   | Z2   |
|----------------|----------------|------|------|
| M5-15          | 12.22 mm       | 0.63 | 0.61 |
| M5-30          | 15.33 mm       | 0.79 | 0.62 |
| M5-60          | 19.40 mm       | 1.00 | 0.64 |
| M5-120         | 23.67 mm       | 1.22 | 0.65 |
| M5-240         | 29.49 mm       | 1.52 | 0.68 |
| M5-360         | 31.62 mm       | 1.63 | 0.68 |
| M5-600         | 38.22 mm       | 1.97 | 0.70 |
| M5-1440        | 49.08 mm       | 2.53 | 0.75 |

iii) **MT-D = Z2 (M5-D)**

| Storm Duration | Total Rainfall | Total Rainfall + 40% CC | Intensity | Intensity + CC |
|----------------|----------------|-------------------------|-----------|----------------|
| M1-15          | 7.5 mm         | 10.5 mm                 | 30.0      | 42.1           |
| M1-30          | 9.5 mm         | 13.3 mm                 | 19.0      | 26.7           |
| M1-60          | 12.4 mm        | 17.3 mm                 | 12.4      | 17.3           |
| M1-120         | 15.5 mm        | 21.7 mm                 | 7.7       | 10.8           |
| M1-240         | 20.0 mm        | 28.0 mm                 | 5.0       | 7.0            |
| M1-360         | 21.6 mm        | 30.2 mm                 | 3.6       | 5.0            |
| M1-600         | 26.6 mm        | 37.3 mm                 | 2.7       | 3.7            |
| M1-1440        | 36.6 mm        | 51.3 mm                 | 1.5       | 2.1            |

| Impermeable Area |          |
|------------------|----------|
| 0.745 ha         | Existing |

Peak run-off calculated using Modified Rational Method

Peak Run-off -- Qp = 3.61CviA (l/s)

| Storm Event | Existing Peak Runoff (l/s) |
|-------------|----------------------------|
| M1-15       | 61                         |
| M1-30       | 38                         |
| M1-60       | 25                         |
| M1-120      | 16                         |
| M1-240      | 10                         |
| M1-360      | 7                          |
| M1-600      | 5                          |
| M1-1440     | 3                          |

Wallingford Modified Rational Method is a procedure for converting design storm into a rate of flow. Uses average rainfall corresponding to a 1 in 5 year event, 60 minutes in duration. Uniform intensity design requires an average rate of rainfall of a given return period for a series of durations.

| Z2               |      |
|------------------|------|
| M5 Rainfall (mm) | M2   |
| 10               | 0.61 |
| 12.22            | 0.61 |
| 15               | 0.62 |
| 15.33            | 0.62 |
| 19.40            | 0.64 |
| 20               | 0.64 |
| 23.67            | 0.65 |
|                  | 0.56 |
| 25               | 0.66 |
|                  | 0.56 |
|                  | 0.56 |
| 30               | 0.68 |
| 29.49            | 0.68 |
| 31.62            | 0.68 |
| 38.22            | 0.70 |
| 40               | 0.70 |
|                  | 0.62 |
|                  | 0.62 |
| 50               | 0.72 |
| 49.08            | 0.75 |

**Total Depth of rainfall - The Manual Method According to the Wallingford Procedure**

i) 

|                 |
|-----------------|
| M5-60 = 19.4 mm |
| r = 0.4         |

ii) **M5-D = Z1 (M5-60)**

| Storm Duration | Total Rainfall | Z1   | Z2   |
|----------------|----------------|------|------|
| M5-15          | 12.22 mm       | 0.63 | 1.51 |
| M5-30          | 15.33 mm       | 0.79 | 1.53 |
| M5-60          | 19.40 mm       | 1.00 | 1.54 |
| M5-120         | 23.67 mm       | 1.22 | 1.53 |
| M5-240         | 29.49 mm       | 1.52 | 1.51 |
| M5-360         | 31.62 mm       | 1.63 | 1.50 |
| M5-600         | 38.22 mm       | 1.97 | 1.48 |
| M5-1440        | 49.08 mm       | 2.53 | 1.42 |

iii) **MT-D = Z2 (M5-D)**

| Storm Duration | Total Rainfall | Total Rainfall + 40% CC | Intensity | Intensity + CC |
|----------------|----------------|-------------------------|-----------|----------------|
| M30-15         | 18.4 mm        | 25.8 mm                 | 73.7      | 103.2          |
| M30-30         | 23.5 mm        | 32.8 mm                 | 46.9      | 65.7           |
| M30-60         | 29.9 mm        | 41.8 mm                 | 29.9      | 41.8           |
| M30-120        | 36.3 mm        | 50.8 mm                 | 18.1      | 25.4           |
| M30-240        | 44.6 mm        | 62.4 mm                 | 11.1      | 15.6           |
| M30-360        | 47.5 mm        | 66.6 mm                 | 7.9       | 11.1           |
| M30-600        | 56.5 mm        | 79.0 mm                 | 5.6       | 7.9            |
| M30-1440       | 69.8 mm        | 97.8 mm                 | 2.9       | 4.1            |

| Impermeable Area |          |
|------------------|----------|
| 0.745 ha         | Existing |
| 0 ha             | Proposed |

**Peak run-off calculated using Modified Rational Method**

Peak Run-off --  $Q_p = 3.61Cv_iA$  (l/s)

| Storm Event | Existing Peak Runoff (l/s) |
|-------------|----------------------------|
| M30-15      | 149                        |
| M30-30      | 95                         |
| M30-60      | 60                         |
| M30-120     | 37                         |
| M30-240     | 22                         |
| M30-360     | 16                         |
| M30-600     | 11                         |
| M30-1440    | 6                          |

8210940 - Caversham Park, Reading  
A. Persins 06.07.2021

1 in 100 year storm event

**Total Depth of rainfall - The Manual Method According to the Wallingford Procedure**

i) 

|                 |
|-----------------|
| M5-60 = 19.4 mm |
| r = 0.4         |

ii) **M5-D = Z1 (M5-60)**

| Storm Duration | Total Rainfall | Z1   | Z2   |
|----------------|----------------|------|------|
| M5-15          | 12.22 mm       | 0.63 | 1.95 |
| M5-30          | 15.33 mm       | 0.79 | 1.99 |
| M5-60          | 19.40 mm       | 1.00 | 2.03 |
| M5-120         | 23.67 mm       | 1.22 | 2.02 |
| M5-240         | 29.49 mm       | 1.52 | 1.97 |
| M5-360         | 31.62 mm       | 1.63 | 1.96 |
| M5-600         | 38.22 mm       | 1.97 | 1.90 |
| M5-1440        | 49.08 mm       | 2.53 | 1.82 |

iii) **MT-D = Z2 (M5-D)**

| Storm Duration | Total Rainfall | Total Rainfall + 40% CC | Intensity | Intensity + CC |
|----------------|----------------|-------------------------|-----------|----------------|
| M100-15        | 23.8 mm        | 33.3 mm                 | 95.1      | 133.2          |
| M100-30        | 30.5 mm        | 42.8 mm                 | 61.1      | 85.5           |
| M100-60        | 39.3 mm        | 55.0 mm                 | 39.3      | 55.0           |
| M100-120       | 47.7 mm        | 66.8 mm                 | 23.8      | 33.4           |
| M100-240       | 58.2 mm        | 81.5 mm                 | 14.6      | 20.4           |
| M100-360       | 61.9 mm        | 86.6 mm                 | 10.3      | 14.4           |
| M100-600       | 72.8 mm        | 101.9 mm                | 7.3       | 10.2           |
| M100-1440      | 89.1 mm        | 124.8 mm                | 3.7       | 5.2            |

| Impermeable Area |          |
|------------------|----------|
| 0.745 ha         | Existing |
| 0 ha             | Proposed |

**Peak run-off calculated using Modified Rational Method**

**Peak Run-off -- Qp = 3.61CviA (l/s)**

| Storm Event | Existing Peak Runoff (l/s) |
|-------------|----------------------------|
| M100-15     | 192                        |
| M100-30     | 123                        |
| M100-60     | 79                         |
| M100-120    | 48                         |
| M100-240    | 29                         |
| M100-360    | 21                         |
| M100-600    | 15                         |
| M100-1440   | 7                          |

| <b>Z1</b>                  | <b>r Value</b> | 0.30 | 0.33 | 0.35 | 0.36 | 0.39 | 0.42 | 0.45 |
|----------------------------|----------------|------|------|------|------|------|------|------|
| <b>Duration<br/>(mins)</b> |                |      |      |      |      |      |      |      |
| 5                          |                | 0.34 | 0.35 | 0.36 | 0.36 | 0.37 | 0.38 | 0.39 |
| 10                         |                | 0.49 | 0.50 | 0.51 | 0.51 | 0.52 | 0.55 | 0.56 |
| 15                         |                | 0.60 | 0.62 | 0.63 | 0.63 | 0.63 | 0.64 | 0.65 |
| 30                         |                | 0.77 | 0.79 | 0.79 | 0.79 | 0.80 | 0.80 | 0.80 |
| 60                         |                | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| 120                        |                | 1.30 | 1.25 | 1.22 | 1.20 | 1.19 | 1.17 | 1.16 |
| 240                        |                | 1.60 | 1.55 | 1.52 | 1.50 | 1.43 | 1.40 | 1.38 |
| 360                        |                | 1.80 | 1.70 | 1.63 | 1.60 | 1.58 | 1.55 | 1.50 |
| 600                        |                | 2.20 | 2.10 | 1.97 | 1.90 | 1.85 | 1.78 | 1.60 |
| 1440                       |                | 2.80 | 2.60 | 2.53 | 2.50 | 2.30 | 2.20 | 2.10 |

## **Appendix N**

### **Hydraulic Calculations**

| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       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| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | 8210940 - Porous Paving WC<br>Caversham Park, Reading<br>RG4 8TZ |                        |                 |  |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Date 6/9/2023 3:13 PM<br>File 8210940-POROUS_PAVING_W...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | Designed by A. Persins<br>Checked by J. Hanlon                   |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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      |       |     |      |               |         |     |    |
| <p>Summary of Results for 100 year Return Period (+40%)</p> <p>Half Drain Time : 319 minutes.</p> <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>82.469</td><td>0.549</td><td>3.4</td><td>90.4</td><td>O K</td></tr><tr><td>30 min Summer</td><td>82.493</td><td>0.573</td><td>3.5</td><td>98.6</td><td>O K</td></tr><tr><td>60 min Summer</td><td>82.514</td><td>0.594</td><td>3.7</td><td>105.8</td><td>O K</td></tr><tr><td>120 min Summer</td><td>82.525</td><td>0.605</td><td>3.7</td><td>110.0</td><td>Flood Risk</td></tr><tr><td>180 min Summer</td><td>82.524</td><td>0.604</td><td>3.7</td><td>109.6</td><td>Flood Risk</td></tr><tr><td>240 min Summer</td><td>82.518</td><td>0.598</td><td>3.7</td><td>107.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>82.507</td><td>0.587</td><td>3.6</td><td>103.5</td><td>O K</td></tr><tr><td>480 min Summer</td><td>82.497</td><td>0.577</td><td>3.6</td><td>100.0</td><td>O K</td></tr><tr><td>600 min Summer</td><td>82.487</td><td>0.567</td><td>3.5</td><td>96.6</td><td>O K</td></tr><tr><td>720 min Summer</td><td>82.477</td><td>0.557</td><td>3.4</td><td>93.2</td><td>O K</td></tr><tr><td>960 min Summer</td><td>82.459</td><td>0.539</td><td>3.3</td><td>87.1</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>82.423</td><td>0.503</td><td>3.1</td><td>76.0</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>82.377</td><td>0.457</td><td>2.8</td><td>62.6</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>82.338</td><td>0.418</td><td>2.6</td><td>52.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>82.284</td><td>0.364</td><td>2.2</td><td>39.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>82.242</td><td>0.322</td><td>2.0</td><td>31.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>82.208</td><td>0.288</td><td>1.8</td><td>24.9</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>82.181</td><td>0.261</td><td>1.6</td><td>20.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>82.159</td><td>0.239</td><td>1.5</td><td>17.1</td><td>O K</td></tr><tr><td>15 min Winter</td><td>82.469</td><td>0.549</td><td>3.4</td><td>90.4</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>259.613</td><td>0.0</td><td>26</td></tr><tr><td>30 min Summer</td><td>142.559</td><td>0.0</td><td>40</td></tr><tr><td>60 min Summer</td><td>78.282</td><td>0.0</td><td>68</td></tr><tr><td>120 min Summer</td><td>42.986</td><td>0.0</td><td>124</td></tr><tr><td>180 min Summer</td><td>30.272</td><td>0.0</td><td>182</td></tr><tr><td>240 min Summer</td><td>23.605</td><td>0.0</td><td>226</td></tr><tr><td>360 min Summer</td><td>16.623</td><td>0.0</td><td>282</td></tr><tr><td>480 min Summer</td><td>12.962</td><td>0.0</td><td>346</td></tr><tr><td>600 min Summer</td><td>10.687</td><td>0.0</td><td>412</td></tr><tr><td>720 min Summer</td><td>9.128</td><td>0.0</td><td>482</td></tr><tr><td>960 min Summer</td><td>7.144</td><td>0.0</td><td>616</td></tr><tr><td>1440 min Summer</td><td>5.058</td><td>0.0</td><td>886</td></tr><tr><td>2160 min Summer</td><td>3.581</td><td>0.0</td><td>1276</td></tr><tr><td>2880 min Summer</td><td>2.802</td><td>0.0</td><td>1648</td></tr><tr><td>4320 min Summer</td><td>2.021</td><td>0.0</td><td>2384</td></tr><tr><td>5760 min Summer</td><td>1.603</td><td>0.0</td><td>3112</td></tr><tr><td>7200 min Summer</td><td>1.339</td><td>0.0</td><td>3824</td></tr><tr><td>8640 min Summer</td><td>1.156</td><td>0.0</td><td>4512</td></tr><tr><td>10080 min Summer</td><td>1.021</td><td>0.0</td><td>5248</td></tr><tr><td>15 min Winter</td><td>259.613</td><td>0.0</td><td>26</td></tr></tbody></table> |               |                                                                  |                        |                 |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 82.469 | 0.549 | 3.4 | 90.4 | O K | 30 min Summer | 82.493 | 0.573 | 3.5 | 98.6 | O K | 60 min Summer | 82.514 | 0.594 | 3.7 | 105.8 | O K | 120 min Summer | 82.525 | 0.605 | 3.7 | 110.0 | Flood Risk | 180 min Summer | 82.524 | 0.604 | 3.7 | 109.6 | Flood Risk | 240 min Summer | 82.518 | 0.598 | 3.7 | 107.4 | O K | 360 min Summer | 82.507 | 0.587 | 3.6 | 103.5 | O K | 480 min Summer | 82.497 | 0.577 | 3.6 | 100.0 | O K | 600 min Summer | 82.487 | 0.567 | 3.5 | 96.6 | O K | 720 min Summer | 82.477 | 0.557 | 3.4 | 93.2 | O K | 960 min Summer | 82.459 | 0.539 | 3.3 | 87.1 | O K | 1440 min Summer | 82.423 | 0.503 | 3.1 | 76.0 | O K | 2160 min Summer | 82.377 | 0.457 | 2.8 | 62.6 | O K | 2880 min Summer | 82.338 | 0.418 | 2.6 | 52.5 | O K | 4320 min Summer | 82.284 | 0.364 | 2.2 | 39.7 | O K | 5760 min Summer | 82.242 | 0.322 | 2.0 | 31.0 | O K | 7200 min Summer | 82.208 | 0.288 | 1.8 | 24.9 | O K | 8640 min Summer | 82.181 | 0.261 | 1.6 | 20.4 | O K | 10080 min Summer | 82.159 | 0.239 | 1.5 | 17.1 | O K | 15 min Winter | 82.469 | 0.549 | 3.4 | 90.4 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 259.613 | 0.0 | 26 | 30 min Summer | 142.559 | 0.0 | 40 | 60 min Summer | 78.282 | 0.0 | 68 | 120 min Summer | 42.986 | 0.0 | 124 | 180 min Summer | 30.272 | 0.0 | 182 | 240 min Summer | 23.605 | 0.0 | 226 | 360 min Summer | 16.623 | 0.0 | 282 | 480 min Summer | 12.962 | 0.0 | 346 | 600 min Summer | 10.687 | 0.0 | 412 | 720 min Summer | 9.128 | 0.0 | 482 | 960 min Summer | 7.144 | 0.0 | 616 | 1440 min Summer | 5.058 | 0.0 | 886 | 2160 min Summer | 3.581 | 0.0 | 1276 | 2880 min Summer | 2.802 | 0.0 | 1648 | 4320 min Summer | 2.021 | 0.0 | 2384 | 5760 min Summer | 1.603 | 0.0 | 3112 | 7200 min Summer | 1.339 | 0.0 | 3824 | 8640 min Summer | 1.156 | 0.0 | 4512 | 10080 min Summer | 1.021 | 0.0 | 5248 | 15 min Winter | 259.613 | 0.0 | 26 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Max Level (m) | Max Depth (m)                                                    | Max Infiltration (l/s) | Max Volume (m³) | Status                                                                              |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       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| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       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| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.525        | 0.605                                                            | 3.7                    | 110.0           | Flood Risk                                                                          |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.524        | 0.604                                                            | 3.7                    | 109.6           | Flood Risk                                                                          |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.518        | 0.598                                                            | 3.7                    | 107.4           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.507        | 0.587                                                            | 3.6                    | 103.5           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.497        | 0.577                                                            | 3.6                    | 100.0           | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.477        | 0.557                                                            | 3.4                    | 93.2            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 82.459        | 0.539                                                            | 3.3                    | 87.1            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.423        | 0.503                                                            | 3.1                    | 76.0            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.377        | 0.457                                                            | 2.8                    | 62.6            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.338        | 0.418                                                            | 2.6                    | 52.5            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.284        | 0.364                                                            | 2.2                    | 39.7            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.242        | 0.322                                                            | 2.0                    | 31.0            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.208        | 0.288                                                            | 1.8                    | 24.9            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 82.181        | 0.261                                                            | 1.6                    | 20.4            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 82.159        | 0.239                                                            | 1.5                    | 17.1            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 82.469        | 0.549                                                            | 3.4                    | 90.4            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 259.613       | 0.0                                                              | 26                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 78.282        | 0.0                                                              | 68                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 42.986        | 0.0                                                              | 124                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30.272        | 0.0                                                              | 182                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 23.605        | 0.0                                                              | 226                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 16.623        | 0.0                                                              | 282                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.962        | 0.0                                                              | 346                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       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      |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |            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| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |            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| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |            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| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |            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| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                    |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |       |     |                |        |       |     |       |            |                |        |       |     |       |            |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |       |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |            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| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |         |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |            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|----------------------------------------------------------|---------------------|------------------------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                    |                     |                                                                  |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD  |                     | 8210940 - Porous Paving WC<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/9/2023 3:13 PM<br>File 8210940-POROUS_PAVING_W... |                     | Designed by A. Persins<br>Checked by J. Hanlon                   |                              |                       |                                                                                     |
| Micro Drainage                                           |                     | Source Control 2018.1.1                                          |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)     |                     |                                                                  |                              |                       |                                                                                     |
| Storm<br>Event                                           | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                              | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                            | 82.494              | 0.574                                                            |                              | 3.5 98.7              | O K                                                                                 |
| 60 min Winter                                            | 82.514              | 0.594                                                            |                              | 3.7 105.9             | O K                                                                                 |
| 120 min Winter                                           | 82.526              | 0.606                                                            |                              | 3.7 110.3             | Flood Risk                                                                          |
| 180 min Winter                                           | 82.526              | 0.606                                                            |                              | 3.7 110.2             | Flood Risk                                                                          |
| 240 min Winter                                           | 82.520              | 0.600                                                            |                              | 3.7 108.2             | Flood Risk                                                                          |
| 360 min Winter                                           | 82.506              | 0.586                                                            |                              | 3.6 103.2             | O K                                                                                 |
| 480 min Winter                                           | 82.494              | 0.574                                                            |                              | 3.5 98.9              | O K                                                                                 |
| 600 min Winter                                           | 82.481              | 0.561                                                            |                              | 3.5 94.4              | O K                                                                                 |
| 720 min Winter                                           | 82.468              | 0.548                                                            |                              | 3.4 90.0              | O K                                                                                 |
| 960 min Winter                                           | 82.443              | 0.523                                                            |                              | 3.2 82.0              | O K                                                                                 |
| 1440 min Winter                                          | 82.396              | 0.476                                                            |                              | 2.9 68.0              | O K                                                                                 |
| 2160 min Winter                                          | 82.336              | 0.416                                                            |                              | 2.6 52.0              | O K                                                                                 |
| 2880 min Winter                                          | 82.288              | 0.368                                                            |                              | 2.3 40.6              | O K                                                                                 |
| 4320 min Winter                                          | 82.221              | 0.301                                                            |                              | 1.9 27.1              | O K                                                                                 |
| 5760 min Winter                                          | 82.173              | 0.253                                                            |                              | 1.6 19.2              | O K                                                                                 |
| 7200 min Winter                                          | 82.137              | 0.217                                                            |                              | 1.3 14.1              | O K                                                                                 |
| 8640 min Winter                                          | 82.110              | 0.190                                                            |                              | 1.2 10.8              | O K                                                                                 |
| 10080 min Winter                                         | 82.089              | 0.169                                                            |                              | 1.0 8.6               | O K                                                                                 |
| Storm<br>Event                                           |                     | Rain<br>(mm/hr)                                                  | Flooded<br>Volume<br>(m³)    | Time-Peak<br>(mins)   |                                                                                     |
| 30 min Winter                                            |                     | 142.559                                                          | 0.0                          | 39                    |                                                                                     |
| 60 min Winter                                            |                     | 78.282                                                           | 0.0                          | 68                    |                                                                                     |
| 120 min Winter                                           |                     | 42.986                                                           | 0.0                          | 122                   |                                                                                     |
| 180 min Winter                                           |                     | 30.272                                                           | 0.0                          | 178                   |                                                                                     |
| 240 min Winter                                           |                     | 23.605                                                           | 0.0                          | 232                   |                                                                                     |
| 360 min Winter                                           |                     | 16.623                                                           | 0.0                          | 290                   |                                                                                     |
| 480 min Winter                                           |                     | 12.962                                                           | 0.0                          | 366                   |                                                                                     |
| 600 min Winter                                           |                     | 10.687                                                           | 0.0                          | 442                   |                                                                                     |
| 720 min Winter                                           |                     | 9.128                                                            | 0.0                          | 516                   |                                                                                     |
| 960 min Winter                                           |                     | 7.144                                                            | 0.0                          | 662                   |                                                                                     |
| 1440 min Winter                                          |                     | 5.058                                                            | 0.0                          | 940                   |                                                                                     |
| 2160 min Winter                                          |                     | 3.581                                                            | 0.0                          | 1340                  |                                                                                     |
| 2880 min Winter                                          |                     | 2.802                                                            | 0.0                          | 1708                  |                                                                                     |
| 4320 min Winter                                          |                     | 2.021                                                            | 0.0                          | 2432                  |                                                                                     |
| 5760 min Winter                                          |                     | 1.603                                                            | 0.0                          | 3168                  |                                                                                     |
| 7200 min Winter                                          |                     | 1.339                                                            | 0.0                          | 3832                  |                                                                                     |
| 8640 min Winter                                          |                     | 1.156                                                            | 0.0                          | 4576                  |                                                                                     |
| 10080 min Winter                                         |                     | 1.021                                                            | 0.0                          | 5248                  |                                                                                     |
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Persins<br>Checked by J. Hanlon                   |                                                                                     |
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|---------|-----------|------|------------------------------|------|------------|-------|-----------------------|-------|-------------|-------|---------------|-----|-------------------------|---|----------|------|----------------------|---|------------------|--------|----------------------|-------|
| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  | Page 4                                                                              |                                      |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - Porous Paving WC<br>Caversham Park, Reading<br>RG4 8TZ |  |                                      |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Date 6/9/2023 3:13 PM<br>File 8210940-POROUS_PAVING_W...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Designed by A. Persins<br>Checked by J. Hanlon                   |                                                                                     |                                      |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Micro Drainage Source Control 2018.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                  |                                                                                     |                                      |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Porous Car Park Structure</div> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.02218</td><td>Width (m)</td><td>10.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>175.0</td></tr><tr><td>Max Percolation (l/s)</td><td>486.1</td><td>Slope (1:X)</td><td>200.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>81.920</td><td>Cap Volume Depth (m)</td><td>0.610</td></tr></table> |                                                                  |                                                                                     | Infiltration Coefficient Base (m/hr) | 0.02218 | Width (m) | 10.0 | Membrane Percolation (mm/hr) | 1000 | Length (m) | 175.0 | Max Percolation (l/s) | 486.1 | Slope (1:X) | 200.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 81.920 | Cap Volume Depth (m) | 0.610 |
| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.02218                                                          | Width (m)                                                                           | 10.0                                 |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1000                                                             | Length (m)                                                                          | 175.0                                |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Max Percolation (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 486.1                                                            | Slope (1:X)                                                                         | 200.0                                |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.0                                                              | Depression Storage (mm)                                                             | 5                                    |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.30                                                             | Evaporation (mm/day)                                                                | 3                                    |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.920                                                           | Cap Volume Depth (m)                                                                | 0.610                                |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                                                                     |                                      |         |           |      |                              |      |            |       |                       |       |             |       |               |     |                         |   |          |      |                      |   |                  |        |                      |       |

| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | 8210940 - SA1<br>Caversham Park, Reading<br>RG4 8TZ |                        |                 |  |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Date 6/9/2023 4:24 PM<br>File 8210940-SA1.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | Designed by A. Persins<br>Checked by J. Hanlon      |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| <p>Summary of Results for 100 year Return Period (+40%)</p> <p>Half Drain Time : 682 minutes.</p> <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>81.754</td><td>0.154</td><td>0.0</td><td>1.5</td><td>O K</td></tr><tr><td>30 min Summer</td><td>81.800</td><td>0.200</td><td>0.0</td><td>2.0</td><td>O K</td></tr><tr><td>60 min Summer</td><td>81.847</td><td>0.247</td><td>0.0</td><td>2.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>81.881</td><td>0.281</td><td>0.0</td><td>2.8</td><td>O K</td></tr><tr><td>180 min Summer</td><td>81.901</td><td>0.301</td><td>0.0</td><td>3.0</td><td>O K</td></tr><tr><td>240 min Summer</td><td>81.913</td><td>0.313</td><td>0.0</td><td>3.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>81.922</td><td>0.322</td><td>0.0</td><td>3.2</td><td>O K</td></tr><tr><td>480 min Summer</td><td>81.920</td><td>0.320</td><td>0.0</td><td>3.2</td><td>O K</td></tr><tr><td>600 min Summer</td><td>81.914</td><td>0.314</td><td>0.0</td><td>3.1</td><td>O K</td></tr><tr><td>720 min Summer</td><td>81.908</td><td>0.308</td><td>0.0</td><td>3.1</td><td>O K</td></tr><tr><td>960 min Summer</td><td>81.894</td><td>0.294</td><td>0.0</td><td>2.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>81.868</td><td>0.268</td><td>0.0</td><td>2.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>81.834</td><td>0.234</td><td>0.0</td><td>2.3</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>81.806</td><td>0.206</td><td>0.0</td><td>2.1</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>81.764</td><td>0.164</td><td>0.0</td><td>1.6</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>81.732</td><td>0.132</td><td>0.0</td><td>1.3</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>81.708</td><td>0.108</td><td>0.0</td><td>1.1</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>81.690</td><td>0.090</td><td>0.0</td><td>0.9</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>81.676</td><td>0.076</td><td>0.0</td><td>0.8</td><td>O K</td></tr><tr><td>15 min Winter</td><td>81.763</td><td>0.163</td><td>0.0</td><td>1.6</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>140.000</td><td>0.0</td><td>26</td></tr><tr><td>30 min Summer</td><td>91.560</td><td>0.0</td><td>40</td></tr><tr><td>60 min Summer</td><td>57.400</td><td>0.0</td><td>68</td></tr><tr><td>120 min Summer</td><td>33.810</td><td>0.0</td><td>126</td></tr><tr><td>180 min Summer</td><td>24.885</td><td>0.0</td><td>186</td></tr><tr><td>240 min Summer</td><td>19.985</td><td>0.0</td><td>244</td></tr><tr><td>360 min Summer</td><td>14.560</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>11.534</td><td>0.0</td><td>480</td></tr><tr><td>600 min Summer</td><td>9.588</td><td>0.0</td><td>540</td></tr><tr><td>720 min Summer</td><td>8.225</td><td>0.0</td><td>596</td></tr><tr><td>960 min Summer</td><td>6.431</td><td>0.0</td><td>716</td></tr><tr><td>1440 min Summer</td><td>4.533</td><td>0.0</td><td>982</td></tr><tr><td>2160 min Summer</td><td>3.191</td><td>0.0</td><td>1388</td></tr><tr><td>2880 min Summer</td><td>2.497</td><td>0.0</td><td>1792</td></tr><tr><td>4320 min Summer</td><td>1.791</td><td>0.0</td><td>2556</td></tr><tr><td>5760 min Summer</td><td>1.431</td><td>0.0</td><td>3296</td></tr><tr><td>7200 min Summer</td><td>1.211</td><td>0.0</td><td>4032</td></tr><tr><td>8640 min Summer</td><td>1.064</td><td>0.0</td><td>4752</td></tr><tr><td>10080 min Summer</td><td>0.958</td><td>0.0</td><td>5440</td></tr><tr><td>15 min Winter</td><td>140.000</td><td>0.0</td><td>26</td></tr></tbody></table> |               |                                                     |                        |                 |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 81.754 | 0.154 | 0.0 | 1.5 | O K | 30 min Summer | 81.800 | 0.200 | 0.0 | 2.0 | O K | 60 min Summer | 81.847 | 0.247 | 0.0 | 2.5 | O K | 120 min Summer | 81.881 | 0.281 | 0.0 | 2.8 | O K | 180 min Summer | 81.901 | 0.301 | 0.0 | 3.0 | O K | 240 min Summer | 81.913 | 0.313 | 0.0 | 3.1 | O K | 360 min Summer | 81.922 | 0.322 | 0.0 | 3.2 | O K | 480 min Summer | 81.920 | 0.320 | 0.0 | 3.2 | O K | 600 min Summer | 81.914 | 0.314 | 0.0 | 3.1 | O K | 720 min Summer | 81.908 | 0.308 | 0.0 | 3.1 | O K | 960 min Summer | 81.894 | 0.294 | 0.0 | 2.9 | O K | 1440 min Summer | 81.868 | 0.268 | 0.0 | 2.7 | O K | 2160 min Summer | 81.834 | 0.234 | 0.0 | 2.3 | O K | 2880 min Summer | 81.806 | 0.206 | 0.0 | 2.1 | O K | 4320 min Summer | 81.764 | 0.164 | 0.0 | 1.6 | O K | 5760 min Summer | 81.732 | 0.132 | 0.0 | 1.3 | O K | 7200 min Summer | 81.708 | 0.108 | 0.0 | 1.1 | O K | 8640 min Summer | 81.690 | 0.090 | 0.0 | 0.9 | O K | 10080 min Summer | 81.676 | 0.076 | 0.0 | 0.8 | O K | 15 min Winter | 81.763 | 0.163 | 0.0 | 1.6 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 140.000 | 0.0 | 26 | 30 min Summer | 91.560 | 0.0 | 40 | 60 min Summer | 57.400 | 0.0 | 68 | 120 min Summer | 33.810 | 0.0 | 126 | 180 min Summer | 24.885 | 0.0 | 186 | 240 min Summer | 19.985 | 0.0 | 244 | 360 min Summer | 14.560 | 0.0 | 362 | 480 min Summer | 11.534 | 0.0 | 480 | 600 min Summer | 9.588 | 0.0 | 540 | 720 min Summer | 8.225 | 0.0 | 596 | 960 min Summer | 6.431 | 0.0 | 716 | 1440 min Summer | 4.533 | 0.0 | 982 | 2160 min Summer | 3.191 | 0.0 | 1388 | 2880 min Summer | 2.497 | 0.0 | 1792 | 4320 min Summer | 1.791 | 0.0 | 2556 | 5760 min Summer | 1.431 | 0.0 | 3296 | 7200 min Summer | 1.211 | 0.0 | 4032 | 8640 min Summer | 1.064 | 0.0 | 4752 | 10080 min Summer | 0.958 | 0.0 | 5440 | 15 min Winter | 140.000 | 0.0 | 26 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Max Level (m) | Max Depth (m)                                       | Max Infiltration (l/s) | Max Volume (m³) | Status                                                                              |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.754        | 0.154                                               | 0.0                    | 1.5             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.800        | 0.200                                               | 0.0                    | 2.0             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.847        | 0.247                                               | 0.0                    | 2.5             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.901        | 0.301                                               | 0.0                    | 3.0             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.913        | 0.313                                               | 0.0                    | 3.1             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.922        | 0.322                                               | 0.0                    | 3.2             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.920        | 0.320                                               | 0.0                    | 3.2             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.914        | 0.314                                               | 0.0                    | 3.1             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.908        | 0.308                                               | 0.0                    | 3.1             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.894        | 0.294                                               | 0.0                    | 2.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.868        | 0.268                                               | 0.0                    | 2.7             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.834        | 0.234                                               | 0.0                    | 2.3             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.806        | 0.206                                               | 0.0                    | 2.1             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.764        | 0.164                                               | 0.0                    | 1.6             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.732        | 0.132                                               | 0.0                    | 1.3             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.708        | 0.108                                               | 0.0                    | 1.1             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.690        | 0.090                                               | 0.0                    | 0.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.676        | 0.076                                               | 0.0                    | 0.8             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.763        | 0.163                                               | 0.0                    | 1.6             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.191         | 0.0                                                 | 1388                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.791         | 0.0                                                 | 2556                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.431         | 0.0                                                 | 3296                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.958         | 0.0                                                 | 5440                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 140.000       | 0.0                                                 | 26                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |

|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA1<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/9/2023 4:24 PM<br>File 8210940-SA1.SRCX          |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                           | 81.811              | 0.211                                               | 0.0                          | 2.1                   | O K                                                                                 |
| 60 min Winter                                           | 81.861              | 0.261                                               | 0.0                          | 2.6                   | O K                                                                                 |
| 120 min Winter                                          | 81.898              | 0.298                                               | 0.0                          | 3.0                   | O K                                                                                 |
| 180 min Winter                                          | 81.920              | 0.320                                               | 0.0                          | 3.2                   | O K                                                                                 |
| 240 min Winter                                          | 81.933              | 0.333                                               | 0.0                          | 3.3                   | O K                                                                                 |
| 360 min Winter                                          | 81.944              | 0.344                                               | 0.0                          | 3.4                   | O K                                                                                 |
| 480 min Winter                                          | 81.944              | 0.344                                               | 0.0                          | 3.4                   | O K                                                                                 |
| 600 min Winter                                          | 81.938              | 0.338                                               | 0.0                          | 3.4                   | O K                                                                                 |
| 720 min Winter                                          | 81.930              | 0.330                                               | 0.0                          | 3.3                   | O K                                                                                 |
| 960 min Winter                                          | 81.913              | 0.313                                               | 0.0                          | 3.1                   | O K                                                                                 |
| 1440 min Winter                                         | 81.880              | 0.280                                               | 0.0                          | 2.8                   | O K                                                                                 |
| 2160 min Winter                                         | 81.835              | 0.235                                               | 0.0                          | 2.3                   | O K                                                                                 |
| 2880 min Winter                                         | 81.796              | 0.196                                               | 0.0                          | 2.0                   | O K                                                                                 |
| 4320 min Winter                                         | 81.737              | 0.137                                               | 0.0                          | 1.4                   | O K                                                                                 |
| 5760 min Winter                                         | 81.695              | 0.095                                               | 0.0                          | 0.9                   | O K                                                                                 |
| 7200 min Winter                                         | 81.666              | 0.066                                               | 0.0                          | 0.7                   | O K                                                                                 |
| 8640 min Winter                                         | 81.650              | 0.050                                               | 0.0                          | 0.5                   | O K                                                                                 |
| 10080 min Winter                                        | 81.646              | 0.046                                               | 0.0                          | 0.5                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                           | 91.560              | 0.0                                                 | 40                           |                       |                                                                                     |
| 60 min Winter                                           | 57.400              | 0.0                                                 | 68                           |                       |                                                                                     |
| 120 min Winter                                          | 33.810              | 0.0                                                 | 124                          |                       |                                                                                     |
| 180 min Winter                                          | 24.885              | 0.0                                                 | 182                          |                       |                                                                                     |
| 240 min Winter                                          | 19.985              | 0.0                                                 | 240                          |                       |                                                                                     |
| 360 min Winter                                          | 14.560              | 0.0                                                 | 354                          |                       |                                                                                     |
| 480 min Winter                                          | 11.534              | 0.0                                                 | 466                          |                       |                                                                                     |
| 600 min Winter                                          | 9.588               | 0.0                                                 | 572                          |                       |                                                                                     |
| 720 min Winter                                          | 8.225               | 0.0                                                 | 668                          |                       |                                                                                     |
| 960 min Winter                                          | 6.431               | 0.0                                                 | 752                          |                       |                                                                                     |
| 1440 min Winter                                         | 4.532               | 0.0                                                 | 1056                         |                       |                                                                                     |
| 2160 min Winter                                         | 3.191               | 0.0                                                 | 1496                         |                       |                                                                                     |
| 2880 min Winter                                         | 2.497               | 0.0                                                 | 1908                         |                       |                                                                                     |
| 4320 min Winter                                         | 1.791               | 0.0                                                 | 2688                         |                       |                                                                                     |
| 5760 min Winter                                         | 1.431               | 0.0                                                 | 3408                         |                       |                                                                                     |
| 7200 min Winter                                         | 1.211               | 0.0                                                 | 4040                         |                       |                                                                                     |
| 8640 min Winter                                         | 1.064               | 0.0                                                 | 4512                         |                       |                                                                                     |
| 10080 min Winter                                        | 0.958               | 0.0                                                 | 5248                         |                       |                                                                                     |
| ©1982-2018 Innovyze                                     |                     |                                                     |                              |                       |                                                                                     |

|                                                         |                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                                     | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD | 8210940 - SA1<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/9/2023 4:24 PM<br>File 8210940-SA1.SRCX          | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |
| Micro Drainage Source Control 2018.1.1                  |                                                     |                                                                                     |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 473250 175300 SU 73250 75300 |
| Data Type             | Catchment                       |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.900                           |
| Cv (Winter)           | 0.950                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +40                             |

Time Area Diagram

Total Area (ha) 0.005

| Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) |
|-------------|-----------|-------------|-----------|-------------|-----------|
| From:       | To:       | From:       | To:       | From:       | To:       |
| 0           | 4         | 0.002       | 4         | 8           | 0.002     |
|             |           |             |           | 8           | 12        |
|             |           |             |           |             | 0.001     |

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| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     | Page 4                                                                              |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|-----|------|-------|------|------|--|--|--|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - SA1<br>Caversham Park, Reading<br>RG4 8TZ |  |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Date 6/9/2023 4:24 PM<br>File 8210940-SA1.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | Source Control 2018.1.1                                                             |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 81.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02218 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.02218</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>10.5</td><td>10.5</td><td>0.401</td><td>0.0</td><td>15.7</td></tr><tr><td>0.400</td><td>10.5</td><td>15.7</td><td></td><td></td><td></td></tr></tbody></table> |                                                     |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 10.5 | 10.5 | 0.401 | 0.0 | 15.7 | 0.400 | 10.5 | 15.7 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                           | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.5                                                | 10.5                                                                                | 0.401     | 0.0       | 15.7           |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10.5                                                | 15.7                                                                                |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |

| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                     |                        | Page 1          |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |        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         |         |     |    |
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--------------|--------|-------|-----|-----|-----|-----------------|--------|-------|-----|-----|-----|------------------|--------|-------|-----|-----|-----|---------------|--------|-------|-----|-----|-----|-------------|--------------|---------------------|------------------|---------------|---------|-----|----|---------------|--------|-----|----|---------------|--------|-----|----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|-----------------|-------|-----|-----|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|------------------|-------|-----|------|---------------|---------|-----|----|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | 8210940 - SA2<br>Caversham Park, Reading<br>RG4 8TZ |                        |                 |  |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Date 6/9/2023 4:27 PM<br>File 8210940-SA2.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | Designed by A. Persins<br>Checked by J. Hanlon      |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                            |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |        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         |         |     |    |
| <p style="text-align: center;"><u>Summary of Results for 100 year Return Period (+40%)</u></p> <p style="text-align: center;">Half Drain Time : 725 minutes.</p> <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>81.762</td><td>0.162</td><td>0.0</td><td>1.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>81.810</td><td>0.210</td><td>0.0</td><td>2.4</td><td>O K</td></tr><tr><td>60 min Summer</td><td>81.860</td><td>0.260</td><td>0.0</td><td>3.0</td><td>O K</td></tr><tr><td>120 min Summer</td><td>81.896</td><td>0.296</td><td>0.0</td><td>3.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>81.918</td><td>0.318</td><td>0.1</td><td>3.6</td><td>O K</td></tr><tr><td>240 min Summer</td><td>81.930</td><td>0.330</td><td>0.1</td><td>3.8</td><td>O K</td></tr><tr><td>360 min Summer</td><td>81.941</td><td>0.341</td><td>0.1</td><td>3.9</td><td>O K</td></tr><tr><td>480 min Summer</td><td>81.940</td><td>0.340</td><td>0.1</td><td>3.9</td><td>O K</td></tr><tr><td>600 min Summer</td><td>81.934</td><td>0.334</td><td>0.1</td><td>3.8</td><td>O K</td></tr><tr><td>720 min Summer</td><td>81.927</td><td>0.327</td><td>0.1</td><td>3.7</td><td>O K</td></tr><tr><td>960 min Summer</td><td>81.913</td><td>0.313</td><td>0.1</td><td>3.6</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>81.887</td><td>0.287</td><td>0.0</td><td>3.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>81.852</td><td>0.252</td><td>0.0</td><td>2.9</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>81.823</td><td>0.223</td><td>0.0</td><td>2.5</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>81.779</td><td>0.179</td><td>0.0</td><td>2.0</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>81.746</td><td>0.146</td><td>0.0</td><td>1.7</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>81.721</td><td>0.121</td><td>0.0</td><td>1.4</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>81.701</td><td>0.101</td><td>0.0</td><td>1.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>81.686</td><td>0.086</td><td>0.0</td><td>1.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>81.771</td><td>0.171</td><td>0.0</td><td>1.9</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>140.000</td><td>0.0</td><td>26</td></tr><tr><td>30 min Summer</td><td>91.560</td><td>0.0</td><td>41</td></tr><tr><td>60 min Summer</td><td>57.400</td><td>0.0</td><td>70</td></tr><tr><td>120 min Summer</td><td>33.810</td><td>0.0</td><td>128</td></tr><tr><td>180 min Summer</td><td>24.885</td><td>0.0</td><td>188</td></tr><tr><td>240 min Summer</td><td>19.985</td><td>0.0</td><td>246</td></tr><tr><td>360 min Summer</td><td>14.560</td><td>0.0</td><td>364</td></tr><tr><td>480 min Summer</td><td>11.534</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>9.588</td><td>0.0</td><td>562</td></tr><tr><td>720 min Summer</td><td>8.225</td><td>0.0</td><td>612</td></tr><tr><td>960 min Summer</td><td>6.431</td><td>0.0</td><td>730</td></tr><tr><td>1440 min Summer</td><td>4.533</td><td>0.0</td><td>990</td></tr><tr><td>2160 min Summer</td><td>3.191</td><td>0.0</td><td>1396</td></tr><tr><td>2880 min Summer</td><td>2.497</td><td>0.0</td><td>1796</td></tr><tr><td>4320 min Summer</td><td>1.791</td><td>0.0</td><td>2596</td></tr><tr><td>5760 min Summer</td><td>1.431</td><td>0.0</td><td>3344</td></tr><tr><td>7200 min Summer</td><td>1.211</td><td>0.0</td><td>4040</td></tr><tr><td>8640 min Summer</td><td>1.064</td><td>0.0</td><td>4760</td></tr><tr><td>10080 min Summer</td><td>0.958</td><td>0.0</td><td>5456</td></tr><tr><td>15 min Winter</td><td>140.000</td><td>0.0</td><td>26</td></tr></tbody></table> |               |                                                     |                        |                 |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 81.762 | 0.162 | 0.0 | 1.8 | O K | 30 min Summer | 81.810 | 0.210 | 0.0 | 2.4 | O K | 60 min Summer | 81.860 | 0.260 | 0.0 | 3.0 | O K | 120 min Summer | 81.896 | 0.296 | 0.0 | 3.4 | O K | 180 min Summer | 81.918 | 0.318 | 0.1 | 3.6 | O K | 240 min Summer | 81.930 | 0.330 | 0.1 | 3.8 | O K | 360 min Summer | 81.941 | 0.341 | 0.1 | 3.9 | O K | 480 min Summer | 81.940 | 0.340 | 0.1 | 3.9 | O K | 600 min Summer | 81.934 | 0.334 | 0.1 | 3.8 | O K | 720 min Summer | 81.927 | 0.327 | 0.1 | 3.7 | O K | 960 min Summer | 81.913 | 0.313 | 0.1 | 3.6 | O K | 1440 min Summer | 81.887 | 0.287 | 0.0 | 3.3 | O K | 2160 min Summer | 81.852 | 0.252 | 0.0 | 2.9 | O K | 2880 min Summer | 81.823 | 0.223 | 0.0 | 2.5 | O K | 4320 min Summer | 81.779 | 0.179 | 0.0 | 2.0 | O K | 5760 min Summer | 81.746 | 0.146 | 0.0 | 1.7 | O K | 7200 min Summer | 81.721 | 0.121 | 0.0 | 1.4 | O K | 8640 min Summer | 81.701 | 0.101 | 0.0 | 1.2 | O K | 10080 min Summer | 81.686 | 0.086 | 0.0 | 1.0 | O K | 15 min Winter | 81.771 | 0.171 | 0.0 | 1.9 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 140.000 | 0.0 | 26 | 30 min Summer | 91.560 | 0.0 | 41 | 60 min Summer | 57.400 | 0.0 | 70 | 120 min Summer | 33.810 | 0.0 | 128 | 180 min Summer | 24.885 | 0.0 | 188 | 240 min Summer | 19.985 | 0.0 | 246 | 360 min Summer | 14.560 | 0.0 | 364 | 480 min Summer | 11.534 | 0.0 | 482 | 600 min Summer | 9.588 | 0.0 | 562 | 720 min Summer | 8.225 | 0.0 | 612 | 960 min Summer | 6.431 | 0.0 | 730 | 1440 min Summer | 4.533 | 0.0 | 990 | 2160 min Summer | 3.191 | 0.0 | 1396 | 2880 min Summer | 2.497 | 0.0 | 1796 | 4320 min Summer | 1.791 | 0.0 | 2596 | 5760 min Summer | 1.431 | 0.0 | 3344 | 7200 min Summer | 1.211 | 0.0 | 4040 | 8640 min Summer | 1.064 | 0.0 | 4760 | 10080 min Summer | 0.958 | 0.0 | 5456 | 15 min Winter | 140.000 | 0.0 | 26 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Max Level (m) | Max Depth (m)                                       | Max Infiltration (l/s) | Max Volume (m³) | Status                                                                              |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.762        | 0.162                                               | 0.0                    | 1.8             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.810        | 0.210                                               | 0.0                    | 2.4             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.860        | 0.260                                               | 0.0                    | 3.0             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |      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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.896        | 0.296                                               | 0.0                    | 3.4             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.918        | 0.318                                               | 0.1                    | 3.6             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.930        | 0.330                                               | 0.1                    | 3.8             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |      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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.941        | 0.341                                               | 0.1                    | 3.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.940        | 0.340                                               | 0.1                    | 3.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.934        | 0.334                                               | 0.1                    | 3.8             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |      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| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.927        | 0.327                                               | 0.1                    | 3.7             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.913        | 0.313                                               | 0.1                    | 3.6             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.887        | 0.287                                               | 0.0                    | 3.3             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.852        | 0.252                                               | 0.0                    | 2.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.823        | 0.223                                               | 0.0                    | 2.5             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.779        | 0.179                                               | 0.0                    | 2.0             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.746        | 0.146                                               | 0.0                    | 1.7             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.721        | 0.121                                               | 0.0                    | 1.4             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.701        | 0.101                                               | 0.0                    | 1.2             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                            |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.771        | 0.171                                               | 0.0                    | 1.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Rain (mm/hr)  | Flooded Volume (m³)                                 | Time-Peak (mins)       |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 140.000       | 0.0                                                 | 26                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                            |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                            |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |      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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                            |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                            |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |        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| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.064         | 0.0                                                 | 4760                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |        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         |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.958         | 0.0                                                 | 5456                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |        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         |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 140.000       | 0.0                                                 | 26                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |        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| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA2<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/9/2023 4:27 PM<br>File 8210940-SA2.SRCX          |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                           | 81.822              | 0.222                                               | 0.0                          | 2.5                   | O K                                                                                 |
| 60 min Winter                                           | 81.875              | 0.275                                               | 0.0                          | 3.1                   | O K                                                                                 |
| 120 min Winter                                          | 81.914              | 0.314                                               | 0.1                          | 3.6                   | O K                                                                                 |
| 180 min Winter                                          | 81.937              | 0.337                                               | 0.1                          | 3.8                   | O K                                                                                 |
| 240 min Winter                                          | 81.952              | 0.352                                               | 0.1                          | 4.0                   | O K                                                                                 |
| 360 min Winter                                          | 81.964              | 0.364                                               | 0.1                          | 4.2                   | O K                                                                                 |
| 480 min Winter                                          | 81.965              | 0.365                                               | 0.1                          | 4.2                   | O K                                                                                 |
| 600 min Winter                                          | 81.960              | 0.360                                               | 0.1                          | 4.1                   | O K                                                                                 |
| 720 min Winter                                          | 81.952              | 0.352                                               | 0.1                          | 4.0                   | O K                                                                                 |
| 960 min Winter                                          | 81.934              | 0.334                                               | 0.1                          | 3.8                   | O K                                                                                 |
| 1440 min Winter                                         | 81.901              | 0.301                                               | 0.0                          | 3.4                   | O K                                                                                 |
| 2160 min Winter                                         | 81.855              | 0.255                                               | 0.0                          | 2.9                   | O K                                                                                 |
| 2880 min Winter                                         | 81.815              | 0.215                                               | 0.0                          | 2.4                   | O K                                                                                 |
| 4320 min Winter                                         | 81.754              | 0.154                                               | 0.0                          | 1.8                   | O K                                                                                 |
| 5760 min Winter                                         | 81.709              | 0.109                                               | 0.0                          | 1.2                   | O K                                                                                 |
| 7200 min Winter                                         | 81.677              | 0.077                                               | 0.0                          | 0.9                   | O K                                                                                 |
| 8640 min Winter                                         | 81.656              | 0.056                                               | 0.0                          | 0.6                   | O K                                                                                 |
| 10080 min Winter                                        | 81.648              | 0.048                                               | 0.0                          | 0.5                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                           | 91.560              | 0.0                                                 | 40                           |                       |                                                                                     |
| 60 min Winter                                           | 57.400              | 0.0                                                 | 68                           |                       |                                                                                     |
| 120 min Winter                                          | 33.810              | 0.0                                                 | 126                          |                       |                                                                                     |
| 180 min Winter                                          | 24.885              | 0.0                                                 | 184                          |                       |                                                                                     |
| 240 min Winter                                          | 19.985              | 0.0                                                 | 242                          |                       |                                                                                     |
| 360 min Winter                                          | 14.560              | 0.0                                                 | 356                          |                       |                                                                                     |
| 480 min Winter                                          | 11.534              | 0.0                                                 | 468                          |                       |                                                                                     |
| 600 min Winter                                          | 9.588               | 0.0                                                 | 576                          |                       |                                                                                     |
| 720 min Winter                                          | 8.225               | 0.0                                                 | 676                          |                       |                                                                                     |
| 960 min Winter                                          | 6.431               | 0.0                                                 | 762                          |                       |                                                                                     |
| 1440 min Winter                                         | 4.532               | 0.0                                                 | 1066                         |                       |                                                                                     |
| 2160 min Winter                                         | 3.191               | 0.0                                                 | 1512                         |                       |                                                                                     |
| 2880 min Winter                                         | 2.497               | 0.0                                                 | 1932                         |                       |                                                                                     |
| 4320 min Winter                                         | 1.791               | 0.0                                                 | 2728                         |                       |                                                                                     |
| 5760 min Winter                                         | 1.431               | 0.0                                                 | 3464                         |                       |                                                                                     |
| 7200 min Winter                                         | 1.211               | 0.0                                                 | 4112                         |                       |                                                                                     |
| 8640 min Winter                                         | 1.064               | 0.0                                                 | 4672                         |                       |                                                                                     |
| 10080 min Winter                                        | 0.958               | 0.0                                                 | 5248                         |                       |                                                                                     |
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|                                                         |                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                                     | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD | 8210940 - SA2<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/9/2023 4:27 PM<br>File 8210940-SA2.SRCX          | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |
| Micro Drainage Source Control 2018.1.1                  |                                                     |                                                                                     |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 473250 175300 SU 73250 75300 |
| Data Type             | Catchment                       |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.900                           |
| Cv (Winter)           | 0.950                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +40                             |

Time Area Diagram

Total Area (ha) 0.006

| Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) |
|-------------|-----------|-------------|-----------|-------------|-----------|
| From:       | To:       | From:       | To:       | From:       | To:       |
| 0           | 4         | 4           | 8         | 8           | 12        |
|             | 0.002     |             | 0.002     |             | 0.002     |

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| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     | Page 4                                                                              |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|-----|------|-------|------|------|--|--|--|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - SA2<br>Caversham Park, Reading<br>RG4 8TZ |  |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Date 6/9/2023 4:27 PM<br>File 8210940-SA2.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | Source Control 2018.1.1                                                             |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 81.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02218 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.02218</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>12.0</td><td>12.0</td><td>0.401</td><td>0.0</td><td>17.6</td></tr><tr><td>0.400</td><td>12.0</td><td>17.6</td><td></td><td></td><td></td></tr></tbody></table> |                                                     |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 12.0 | 12.0 | 0.401 | 0.0 | 17.6 | 0.400 | 12.0 | 17.6 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                           | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.0                                                | 12.0                                                                                | 0.401     | 0.0       | 17.6           |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.0                                                | 17.6                                                                                |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
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| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | 8210940 - SA3<br>Caversham Park, Reading<br>RG4 8TZ |                        |                 |  |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Date 6/12/2023 9:10 AM<br>File 8210940-SA3.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |               | Designed by A. Persins<br>Checked by J. Hanlon      |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| <p>Summary of Results for 100 year Return Period (+40%)</p> <p>Half Drain Time : 757 minutes.</p> <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>81.768</td><td>0.168</td><td>0.0</td><td>2.2</td><td>O K</td></tr><tr><td>30 min Summer</td><td>81.818</td><td>0.218</td><td>0.1</td><td>2.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>81.870</td><td>0.270</td><td>0.1</td><td>3.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>81.908</td><td>0.308</td><td>0.1</td><td>4.0</td><td>O K</td></tr><tr><td>180 min Summer</td><td>81.931</td><td>0.331</td><td>0.1</td><td>4.2</td><td>O K</td></tr><tr><td>240 min Summer</td><td>81.944</td><td>0.344</td><td>0.1</td><td>4.4</td><td>O K</td></tr><tr><td>360 min Summer</td><td>81.956</td><td>0.356</td><td>0.1</td><td>4.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>81.956</td><td>0.356</td><td>0.1</td><td>4.6</td><td>O K</td></tr><tr><td>600 min Summer</td><td>81.950</td><td>0.350</td><td>0.1</td><td>4.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>81.943</td><td>0.343</td><td>0.1</td><td>4.4</td><td>O K</td></tr><tr><td>960 min Summer</td><td>81.929</td><td>0.329</td><td>0.1</td><td>4.2</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>81.902</td><td>0.302</td><td>0.1</td><td>3.9</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>81.866</td><td>0.266</td><td>0.1</td><td>3.4</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>81.837</td><td>0.237</td><td>0.1</td><td>3.0</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>81.792</td><td>0.192</td><td>0.1</td><td>2.5</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>81.758</td><td>0.158</td><td>0.0</td><td>2.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>81.732</td><td>0.132</td><td>0.0</td><td>1.7</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>81.711</td><td>0.111</td><td>0.0</td><td>1.4</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>81.694</td><td>0.094</td><td>0.0</td><td>1.2</td><td>O K</td></tr><tr><td>15 min Winter</td><td>81.777</td><td>0.177</td><td>0.0</td><td>2.3</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>140.000</td><td>0.0</td><td>26</td></tr><tr><td>30 min Summer</td><td>91.560</td><td>0.0</td><td>41</td></tr><tr><td>60 min Summer</td><td>57.400</td><td>0.0</td><td>70</td></tr><tr><td>120 min Summer</td><td>33.810</td><td>0.0</td><td>128</td></tr><tr><td>180 min Summer</td><td>24.885</td><td>0.0</td><td>186</td></tr><tr><td>240 min Summer</td><td>19.985</td><td>0.0</td><td>244</td></tr><tr><td>360 min Summer</td><td>14.560</td><td>0.0</td><td>362</td></tr><tr><td>480 min Summer</td><td>11.534</td><td>0.0</td><td>482</td></tr><tr><td>600 min Summer</td><td>9.588</td><td>0.0</td><td>576</td></tr><tr><td>720 min Summer</td><td>8.225</td><td>0.0</td><td>622</td></tr><tr><td>960 min Summer</td><td>6.431</td><td>0.0</td><td>742</td></tr><tr><td>1440 min Summer</td><td>4.533</td><td>0.0</td><td>998</td></tr><tr><td>2160 min Summer</td><td>3.191</td><td>0.0</td><td>1408</td></tr><tr><td>2880 min Summer</td><td>2.497</td><td>0.0</td><td>1816</td></tr><tr><td>4320 min Summer</td><td>1.791</td><td>0.0</td><td>2596</td></tr><tr><td>5760 min Summer</td><td>1.431</td><td>0.0</td><td>3352</td></tr><tr><td>7200 min Summer</td><td>1.211</td><td>0.0</td><td>4104</td></tr><tr><td>8640 min Summer</td><td>1.064</td><td>0.0</td><td>4768</td></tr><tr><td>10080 min Summer</td><td>0.958</td><td>0.0</td><td>5464</td></tr><tr><td>15 min Winter</td><td>140.000</td><td>0.0</td><td>26</td></tr></tbody></table> |               |                                                     |                        |                 |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 81.768 | 0.168 | 0.0 | 2.2 | O K | 30 min Summer | 81.818 | 0.218 | 0.1 | 2.8 | O K | 60 min Summer | 81.870 | 0.270 | 0.1 | 3.5 | O K | 120 min Summer | 81.908 | 0.308 | 0.1 | 4.0 | O K | 180 min Summer | 81.931 | 0.331 | 0.1 | 4.2 | O K | 240 min Summer | 81.944 | 0.344 | 0.1 | 4.4 | O K | 360 min Summer | 81.956 | 0.356 | 0.1 | 4.6 | O K | 480 min Summer | 81.956 | 0.356 | 0.1 | 4.6 | O K | 600 min Summer | 81.950 | 0.350 | 0.1 | 4.5 | O K | 720 min Summer | 81.943 | 0.343 | 0.1 | 4.4 | O K | 960 min Summer | 81.929 | 0.329 | 0.1 | 4.2 | O K | 1440 min Summer | 81.902 | 0.302 | 0.1 | 3.9 | O K | 2160 min Summer | 81.866 | 0.266 | 0.1 | 3.4 | O K | 2880 min Summer | 81.837 | 0.237 | 0.1 | 3.0 | O K | 4320 min Summer | 81.792 | 0.192 | 0.1 | 2.5 | O K | 5760 min Summer | 81.758 | 0.158 | 0.0 | 2.0 | O K | 7200 min Summer | 81.732 | 0.132 | 0.0 | 1.7 | O K | 8640 min Summer | 81.711 | 0.111 | 0.0 | 1.4 | O K | 10080 min Summer | 81.694 | 0.094 | 0.0 | 1.2 | O K | 15 min Winter | 81.777 | 0.177 | 0.0 | 2.3 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 140.000 | 0.0 | 26 | 30 min Summer | 91.560 | 0.0 | 41 | 60 min Summer | 57.400 | 0.0 | 70 | 120 min Summer | 33.810 | 0.0 | 128 | 180 min Summer | 24.885 | 0.0 | 186 | 240 min Summer | 19.985 | 0.0 | 244 | 360 min Summer | 14.560 | 0.0 | 362 | 480 min Summer | 11.534 | 0.0 | 482 | 600 min Summer | 9.588 | 0.0 | 576 | 720 min Summer | 8.225 | 0.0 | 622 | 960 min Summer | 6.431 | 0.0 | 742 | 1440 min Summer | 4.533 | 0.0 | 998 | 2160 min Summer | 3.191 | 0.0 | 1408 | 2880 min Summer | 2.497 | 0.0 | 1816 | 4320 min Summer | 1.791 | 0.0 | 2596 | 5760 min Summer | 1.431 | 0.0 | 3352 | 7200 min Summer | 1.211 | 0.0 | 4104 | 8640 min Summer | 1.064 | 0.0 | 4768 | 10080 min Summer | 0.958 | 0.0 | 5464 | 15 min Winter | 140.000 | 0.0 | 26 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Max Level (m) | Max Depth (m)                                       | Max Infiltration (l/s) | Max Volume (m³) | Status                                                                              |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.768        | 0.168                                               | 0.0                    | 2.2             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.818        | 0.218                                               | 0.1                    | 2.8             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.870        | 0.270                                               | 0.1                    | 3.5             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.908        | 0.308                                               | 0.1                    | 4.0             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.956        | 0.356                                               | 0.1                    | 4.6             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.950        | 0.350                                               | 0.1                    | 4.5             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.943        | 0.343                                               | 0.1                    | 4.4             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 81.929        | 0.329                                               | 0.1                    | 4.2             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.902        | 0.302                                               | 0.1                    | 3.9             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.792        | 0.192                                               | 0.1                    | 2.5             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.758        | 0.158                                               | 0.0                    | 2.0             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.732        | 0.132                                               | 0.0                    | 1.7             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 81.711        | 0.111                                               | 0.0                    | 1.4             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 81.694        | 0.094                                               | 0.0                    | 1.2             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 81.777        | 0.177                                               | 0.0                    | 2.3             | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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           |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.533         | 0.0                                                 | 998                    |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.191         | 0.0                                                 | 1408                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.497         | 0.0                                                 | 1816                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.791         | 0.0                                                 | 2596                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.431         | 0.0                                                 | 3352                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.211         | 0.0                                                 | 4104                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.064         | 0.0                                                 | 4768                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.958         | 0.0                                                 | 5464                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 140.000       | 0.0                                                 | 26                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |     |     |               |        |       |     |     |     |               |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                 |        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|        |       |     |     |     |                  |        |       |     |     |     |               |        |       |     |     |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |

|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA3<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/12/2023 9:10 AM<br>File 8210940-SA3.SRCX         |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                           | 81.831              | 0.231                                               | 0.1                          | 3.0                   | O K                                                                                 |
| 60 min Winter                                           | 81.885              | 0.285                                               | 0.1                          | 3.7                   | O K                                                                                 |
| 120 min Winter                                          | 81.927              | 0.327                                               | 0.1                          | 4.2                   | O K                                                                                 |
| 180 min Winter                                          | 81.951              | 0.351                                               | 0.1                          | 4.5                   | O K                                                                                 |
| 240 min Winter                                          | 81.966              | 0.366                                               | 0.1                          | 4.7                   | O K                                                                                 |
| 360 min Winter                                          | 81.980              | 0.380                                               | 0.1                          | 4.9                   | O K                                                                                 |
| 480 min Winter                                          | 81.982              | 0.382                                               | 0.1                          | 4.9                   | O K                                                                                 |
| 600 min Winter                                          | 81.977              | 0.377                                               | 0.1                          | 4.8                   | O K                                                                                 |
| 720 min Winter                                          | 81.969              | 0.369                                               | 0.1                          | 4.7                   | O K                                                                                 |
| 960 min Winter                                          | 81.951              | 0.351                                               | 0.1                          | 4.5                   | O K                                                                                 |
| 1440 min Winter                                         | 81.918              | 0.318                                               | 0.1                          | 4.1                   | O K                                                                                 |
| 2160 min Winter                                         | 81.870              | 0.270                                               | 0.1                          | 3.5                   | O K                                                                                 |
| 2880 min Winter                                         | 81.830              | 0.230                                               | 0.1                          | 2.9                   | O K                                                                                 |
| 4320 min Winter                                         | 81.767              | 0.167                                               | 0.0                          | 2.1                   | O K                                                                                 |
| 5760 min Winter                                         | 81.720              | 0.120                                               | 0.0                          | 1.5                   | O K                                                                                 |
| 7200 min Winter                                         | 81.686              | 0.086                                               | 0.0                          | 1.1                   | O K                                                                                 |
| 8640 min Winter                                         | 81.662              | 0.062                                               | 0.0                          | 0.8                   | O K                                                                                 |
| 10080 min Winter                                        | 81.650              | 0.050                                               | 0.0                          | 0.6                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                           | 91.560              | 0.0                                                 | 40                           |                       |                                                                                     |
| 60 min Winter                                           | 57.400              | 0.0                                                 | 68                           |                       |                                                                                     |
| 120 min Winter                                          | 33.810              | 0.0                                                 | 126                          |                       |                                                                                     |
| 180 min Winter                                          | 24.885              | 0.0                                                 | 184                          |                       |                                                                                     |
| 240 min Winter                                          | 19.985              | 0.0                                                 | 240                          |                       |                                                                                     |
| 360 min Winter                                          | 14.560              | 0.0                                                 | 356                          |                       |                                                                                     |
| 480 min Winter                                          | 11.534              | 0.0                                                 | 468                          |                       |                                                                                     |
| 600 min Winter                                          | 9.588               | 0.0                                                 | 576                          |                       |                                                                                     |
| 720 min Winter                                          | 8.225               | 0.0                                                 | 680                          |                       |                                                                                     |
| 960 min Winter                                          | 6.431               | 0.0                                                 | 770                          |                       |                                                                                     |
| 1440 min Winter                                         | 4.532               | 0.0                                                 | 1070                         |                       |                                                                                     |
| 2160 min Winter                                         | 3.191               | 0.0                                                 | 1516                         |                       |                                                                                     |
| 2880 min Winter                                         | 2.497               | 0.0                                                 | 1940                         |                       |                                                                                     |
| 4320 min Winter                                         | 1.791               | 0.0                                                 | 2732                         |                       |                                                                                     |
| 5760 min Winter                                         | 1.431               | 0.0                                                 | 3472                         |                       |                                                                                     |
| 7200 min Winter                                         | 1.211               | 0.0                                                 | 4176                         |                       |                                                                                     |
| 8640 min Winter                                         | 1.064               | 0.0                                                 | 4760                         |                       |                                                                                     |
| 10080 min Winter                                        | 0.958               | 0.0                                                 | 5248                         |                       |                                                                                     |
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|                                                         |                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                                     | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD | 8210940 - SA3<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/12/2023 9:10 AM<br>File 8210940-SA3.SRCX         | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |
| Micro Drainage Source Control 2018.1.1                  |                                                     |                                                                                     |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 473250 175300 SU 73250 75300 |
| Data Type             | Catchment                       |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.900                           |
| Cv (Winter)           | 0.950                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +40                             |

Time Area Diagram

Total Area (ha) 0.007

| Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) |
|-------------|-----------|-------------|-----------|-------------|-----------|
| From:       | To:       | From:       | To:       | From:       | To:       |
| 0           | 4 0.003   | 4           | 8 0.002   | 8           | 12 0.002  |

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| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     | Page 4                                                                              |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|-----|------|-------|------|------|--|--|--|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - SA3<br>Caversham Park, Reading<br>RG4 8TZ |  |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Date 6/12/2023 9:10 AM<br>File 8210940-SA3.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | Source Control 2018.1.1                                                             |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 81.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02218 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.02218</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>13.5</td><td>13.5</td><td>0.401</td><td>0.0</td><td>19.5</td></tr><tr><td>0.400</td><td>13.5</td><td>19.5</td><td></td><td></td><td></td></tr></tbody></table> |                                                     |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 13.5 | 13.5 | 0.401 | 0.0 | 19.5 | 0.400 | 13.5 | 19.5 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                           | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13.5                                                | 13.5                                                                                | 0.401     | 0.0       | 19.5           |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13.5                                                | 19.5                                                                                |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |

|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 1                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA4<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/12/2023 9:09 AM<br>File 8210940-SA4.SRCX         |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Half Drain Time : 768 minutes.                          |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 15 min Summer                                           | 81.767              | 0.167                                               | 0.1                          | 2.8                   | O K                                                                                 |
| 30 min Summer                                           | 81.817              | 0.217                                               | 0.1                          | 3.6                   | O K                                                                                 |
| 60 min Summer                                           | 81.868              | 0.268                                               | 0.1                          | 4.4                   | O K                                                                                 |
| 120 min Summer                                          | 81.906              | 0.306                                               | 0.1                          | 5.1                   | O K                                                                                 |
| 180 min Summer                                          | 81.929              | 0.329                                               | 0.1                          | 5.5                   | O K                                                                                 |
| 240 min Summer                                          | 81.942              | 0.342                                               | 0.1                          | 5.7                   | O K                                                                                 |
| 360 min Summer                                          | 81.955              | 0.355                                               | 0.1                          | 5.9                   | O K                                                                                 |
| 480 min Summer                                          | 81.955              | 0.355                                               | 0.1                          | 5.9                   | O K                                                                                 |
| 600 min Summer                                          | 81.949              | 0.349                                               | 0.1                          | 5.8                   | O K                                                                                 |
| 720 min Summer                                          | 81.942              | 0.342                                               | 0.1                          | 5.7                   | O K                                                                                 |
| 960 min Summer                                          | 81.928              | 0.328                                               | 0.1                          | 5.5                   | O K                                                                                 |
| 1440 min Summer                                         | 81.901              | 0.301                                               | 0.1                          | 5.0                   | O K                                                                                 |
| 2160 min Summer                                         | 81.866              | 0.266                                               | 0.1                          | 4.4                   | O K                                                                                 |
| 2880 min Summer                                         | 81.836              | 0.236                                               | 0.1                          | 3.9                   | O K                                                                                 |
| 4320 min Summer                                         | 81.792              | 0.192                                               | 0.1                          | 3.2                   | O K                                                                                 |
| 5760 min Summer                                         | 81.758              | 0.158                                               | 0.1                          | 2.6                   | O K                                                                                 |
| 7200 min Summer                                         | 81.732              | 0.132                                               | 0.1                          | 2.2                   | O K                                                                                 |
| 8640 min Summer                                         | 81.711              | 0.111                                               | 0.1                          | 1.8                   | O K                                                                                 |
| 10080 min Summer                                        | 81.694              | 0.094                                               | 0.1                          | 1.6                   | O K                                                                                 |
| 15 min Winter                                           | 81.776              | 0.176                                               | 0.1                          | 2.9                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 15 min Summer                                           | 140.000             | 0.0                                                 | 26                           |                       |                                                                                     |
| 30 min Summer                                           | 91.560              | 0.0                                                 | 41                           |                       |                                                                                     |
| 60 min Summer                                           | 57.400              | 0.0                                                 | 70                           |                       |                                                                                     |
| 120 min Summer                                          | 33.810              | 0.0                                                 | 128                          |                       |                                                                                     |
| 180 min Summer                                          | 24.885              | 0.0                                                 | 188                          |                       |                                                                                     |
| 240 min Summer                                          | 19.985              | 0.0                                                 | 246                          |                       |                                                                                     |
| 360 min Summer                                          | 14.560              | 0.0                                                 | 364                          |                       |                                                                                     |
| 480 min Summer                                          | 11.534              | 0.0                                                 | 482                          |                       |                                                                                     |
| 600 min Summer                                          | 9.588               | 0.0                                                 | 588                          |                       |                                                                                     |
| 720 min Summer                                          | 8.225               | 0.0                                                 | 630                          |                       |                                                                                     |
| 960 min Summer                                          | 6.431               | 0.0                                                 | 750                          |                       |                                                                                     |
| 1440 min Summer                                         | 4.533               | 0.0                                                 | 1004                         |                       |                                                                                     |
| 2160 min Summer                                         | 3.191               | 0.0                                                 | 1412                         |                       |                                                                                     |
| 2880 min Summer                                         | 2.497               | 0.0                                                 | 1820                         |                       |                                                                                     |
| 4320 min Summer                                         | 1.791               | 0.0                                                 | 2600                         |                       |                                                                                     |
| 5760 min Summer                                         | 1.431               | 0.0                                                 | 3352                         |                       |                                                                                     |
| 7200 min Summer                                         | 1.211               | 0.0                                                 | 4104                         |                       |                                                                                     |
| 8640 min Summer                                         | 1.064               | 0.0                                                 | 4832                         |                       |                                                                                     |
| 10080 min Summer                                        | 0.958               | 0.0                                                 | 5544                         |                       |                                                                                     |
| 15 min Winter                                           | 140.000             | 0.0                                                 | 26                           |                       |                                                                                     |
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|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA4<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/12/2023 9:09 AM<br>File 8210940-SA4.SRCX         |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                           | 81.829              | 0.229                                               | 0.1                          | 3.8                   | O K                                                                                 |
| 60 min Winter                                           | 81.883              | 0.283                                               | 0.1                          | 4.7                   | O K                                                                                 |
| 120 min Winter                                          | 81.924              | 0.324                                               | 0.1                          | 5.4                   | O K                                                                                 |
| 180 min Winter                                          | 81.949              | 0.349                                               | 0.1                          | 5.8                   | O K                                                                                 |
| 240 min Winter                                          | 81.964              | 0.364                                               | 0.1                          | 6.1                   | O K                                                                                 |
| 360 min Winter                                          | 81.979              | 0.379                                               | 0.1                          | 6.3                   | O K                                                                                 |
| 480 min Winter                                          | 81.981              | 0.381                                               | 0.1                          | 6.3                   | O K                                                                                 |
| 600 min Winter                                          | 81.976              | 0.376                                               | 0.1                          | 6.3                   | O K                                                                                 |
| 720 min Winter                                          | 81.969              | 0.369                                               | 0.1                          | 6.1                   | O K                                                                                 |
| 960 min Winter                                          | 81.950              | 0.350                                               | 0.1                          | 5.8                   | O K                                                                                 |
| 1440 min Winter                                         | 81.917              | 0.317                                               | 0.1                          | 5.3                   | O K                                                                                 |
| 2160 min Winter                                         | 81.871              | 0.271                                               | 0.1                          | 4.5                   | O K                                                                                 |
| 2880 min Winter                                         | 81.830              | 0.230                                               | 0.1                          | 3.8                   | O K                                                                                 |
| 4320 min Winter                                         | 81.767              | 0.167                                               | 0.1                          | 2.8                   | O K                                                                                 |
| 5760 min Winter                                         | 81.720              | 0.120                                               | 0.1                          | 2.0                   | O K                                                                                 |
| 7200 min Winter                                         | 81.686              | 0.086                                               | 0.1                          | 1.4                   | O K                                                                                 |
| 8640 min Winter                                         | 81.662              | 0.062                                               | 0.1                          | 1.0                   | O K                                                                                 |
| 10080 min Winter                                        | 81.650              | 0.050                                               | 0.1                          | 0.8                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                           | 91.560              | 0.0                                                 | 40                           |                       |                                                                                     |
| 60 min Winter                                           | 57.400              | 0.0                                                 | 70                           |                       |                                                                                     |
| 120 min Winter                                          | 33.810              | 0.0                                                 | 126                          |                       |                                                                                     |
| 180 min Winter                                          | 24.885              | 0.0                                                 | 184                          |                       |                                                                                     |
| 240 min Winter                                          | 19.985              | 0.0                                                 | 242                          |                       |                                                                                     |
| 360 min Winter                                          | 14.560              | 0.0                                                 | 356                          |                       |                                                                                     |
| 480 min Winter                                          | 11.534              | 0.0                                                 | 468                          |                       |                                                                                     |
| 600 min Winter                                          | 9.588               | 0.0                                                 | 578                          |                       |                                                                                     |
| 720 min Winter                                          | 8.225               | 0.0                                                 | 684                          |                       |                                                                                     |
| 960 min Winter                                          | 6.431               | 0.0                                                 | 778                          |                       |                                                                                     |
| 1440 min Winter                                         | 4.532               | 0.0                                                 | 1076                         |                       |                                                                                     |
| 2160 min Winter                                         | 3.191               | 0.0                                                 | 1520                         |                       |                                                                                     |
| 2880 min Winter                                         | 2.497               | 0.0                                                 | 1956                         |                       |                                                                                     |
| 4320 min Winter                                         | 1.791               | 0.0                                                 | 2764                         |                       |                                                                                     |
| 5760 min Winter                                         | 1.431               | 0.0                                                 | 3512                         |                       |                                                                                     |
| 7200 min Winter                                         | 1.211               | 0.0                                                 | 4184                         |                       |                                                                                     |
| 8640 min Winter                                         | 1.064               | 0.0                                                 | 4760                         |                       |                                                                                     |
| 10080 min Winter                                        | 0.958               | 0.0                                                 | 5248                         |                       |                                                                                     |
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|                                                         |                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                                     | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD | 8210940 - SA4<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/12/2023 9:09 AM<br>File 8210940-SA4.SRCX         | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |
| Micro Drainage Source Control 2018.1.1                  |                                                     |                                                                                     |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 473250 175300 SU 73250 75300 |
| Data Type             | Catchment                       |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.900                           |
| Cv (Winter)           | 0.950                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +40                             |

Time Area Diagram

Total Area (ha) 0.009

| Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) |
|-------------|-----------|-------------|-----------|-------------|-----------|
| From:       | To:       | From:       | To:       | From:       | To:       |
| 0           | 4         | 0.003       | 4         | 8           | 0.003     |
|             |           |             |           | 8           | 12        |
|             |           |             |           |             | 0.003     |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|-----|------|-------|------|------|--|--|--|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - SA4<br>Caversham Park, Reading<br>RG4 8TZ |  |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Date 6/12/2023 9:09 AM<br>File 8210940-SA4.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Source Control 2018.1.1                             |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 81.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02218 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.02218</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>17.5</td><td>17.5</td><td>0.401</td><td>0.0</td><td>24.3</td></tr><tr><td>0.400</td><td>17.5</td><td>24.3</td><td></td><td></td><td></td></tr></tbody></table> |                                                     |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 17.5 | 17.5 | 0.401 | 0.0 | 24.3 | 0.400 | 17.5 | 24.3 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                           | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 17.5                                                | 17.5                                                                                | 0.401     | 0.0       | 24.3           |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 17.5                                                | 24.3                                                                                |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
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| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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------|-----|------|-----|-----------------|--------|-------|-----|------|-----|------------------|--------|-------|-----|------|-----|---------------|--------|-------|-----|------|-----|-------------|--------------|---------------------|------------------|---------------|---------|-----|----|---------------|--------|-----|----|---------------|--------|-----|----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|--------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|----------------|-------|-----|-----|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|-----------------|-------|-----|------|------------------|-------|-----|------|---------------|---------|-----|----|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               | 8210940 - SA6<br>Caversham Park, Reading<br>RG4 8TZ |                        |                 |  |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Date 6/9/2023 4:53 PM<br>File 8210940-SA6.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | Designed by A. Persins<br>Checked by J. Hanlon      |                        |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| <p>Summary of Results for 100 year Return Period (+40%)</p> <p>Half Drain Time : 1384 minutes.</p> <table><thead><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></thead><tbody><tr><td>15 min Summer</td><td>81.910</td><td>0.310</td><td>0.2</td><td>16.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>82.003</td><td>0.403</td><td>0.2</td><td>21.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>82.101</td><td>0.501</td><td>0.2</td><td>27.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>82.180</td><td>0.580</td><td>0.3</td><td>31.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>82.229</td><td>0.629</td><td>0.3</td><td>34.1</td><td>O K</td></tr><tr><td>240 min Summer</td><td>82.262</td><td>0.662</td><td>0.3</td><td>35.9</td><td>O K</td></tr><tr><td>360 min Summer</td><td>82.301</td><td>0.701</td><td>0.3</td><td>37.9</td><td>O K</td></tr><tr><td>480 min Summer</td><td>82.316</td><td>0.716</td><td>0.3</td><td>38.8</td><td>O K</td></tr><tr><td>600 min Summer</td><td>82.321</td><td>0.721</td><td>0.3</td><td>39.0</td><td>O K</td></tr><tr><td>720 min Summer</td><td>82.318</td><td>0.718</td><td>0.3</td><td>38.9</td><td>O K</td></tr><tr><td>960 min Summer</td><td>82.301</td><td>0.701</td><td>0.3</td><td>38.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>82.260</td><td>0.660</td><td>0.3</td><td>35.7</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>82.208</td><td>0.608</td><td>0.3</td><td>32.9</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>82.166</td><td>0.566</td><td>0.3</td><td>30.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>82.107</td><td>0.507</td><td>0.2</td><td>27.4</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>82.061</td><td>0.461</td><td>0.2</td><td>25.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>82.024</td><td>0.424</td><td>0.2</td><td>23.0</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>81.994</td><td>0.394</td><td>0.2</td><td>21.3</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>81.968</td><td>0.368</td><td>0.2</td><td>19.9</td><td>O K</td></tr><tr><td>15 min Winter</td><td>81.927</td><td>0.327</td><td>0.2</td><td>17.7</td><td>O K</td></tr></tbody></table> <table><thead><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr></thead><tbody><tr><td>15 min Summer</td><td>140.000</td><td>0.0</td><td>27</td></tr><tr><td>30 min Summer</td><td>91.560</td><td>0.0</td><td>41</td></tr><tr><td>60 min Summer</td><td>57.400</td><td>0.0</td><td>70</td></tr><tr><td>120 min Summer</td><td>33.810</td><td>0.0</td><td>130</td></tr><tr><td>180 min Summer</td><td>24.885</td><td>0.0</td><td>190</td></tr><tr><td>240 min Summer</td><td>19.985</td><td>0.0</td><td>248</td></tr><tr><td>360 min Summer</td><td>14.560</td><td>0.0</td><td>366</td></tr><tr><td>480 min Summer</td><td>11.534</td><td>0.0</td><td>486</td></tr><tr><td>600 min Summer</td><td>9.588</td><td>0.0</td><td>604</td></tr><tr><td>720 min Summer</td><td>8.225</td><td>0.0</td><td>722</td></tr><tr><td>960 min Summer</td><td>6.431</td><td>0.0</td><td>960</td></tr><tr><td>1440 min Summer</td><td>4.533</td><td>0.0</td><td>1190</td></tr><tr><td>2160 min Summer</td><td>3.191</td><td>0.0</td><td>1560</td></tr><tr><td>2880 min Summer</td><td>2.497</td><td>0.0</td><td>1964</td></tr><tr><td>4320 min Summer</td><td>1.791</td><td>0.0</td><td>2776</td></tr><tr><td>5760 min Summer</td><td>1.431</td><td>0.0</td><td>3592</td></tr><tr><td>7200 min Summer</td><td>1.211</td><td>0.0</td><td>4400</td></tr><tr><td>8640 min Summer</td><td>1.064</td><td>0.0</td><td>5192</td></tr><tr><td>10080 min Summer</td><td>0.958</td><td>0.0</td><td>5960</td></tr><tr><td>15 min Winter</td><td>140.000</td><td>0.0</td><td>26</td></tr></tbody></table> |               |                                                     |                        |                 |                                                                                     | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Volume (m³) | Status | 15 min Summer | 81.910 | 0.310 | 0.2 | 16.8 | O K | 30 min Summer | 82.003 | 0.403 | 0.2 | 21.8 | O K | 60 min Summer | 82.101 | 0.501 | 0.2 | 27.1 | O K | 120 min Summer | 82.180 | 0.580 | 0.3 | 31.4 | O K | 180 min Summer | 82.229 | 0.629 | 0.3 | 34.1 | O K | 240 min Summer | 82.262 | 0.662 | 0.3 | 35.9 | O K | 360 min Summer | 82.301 | 0.701 | 0.3 | 37.9 | O K | 480 min Summer | 82.316 | 0.716 | 0.3 | 38.8 | O K | 600 min Summer | 82.321 | 0.721 | 0.3 | 39.0 | O K | 720 min Summer | 82.318 | 0.718 | 0.3 | 38.9 | O K | 960 min Summer | 82.301 | 0.701 | 0.3 | 38.0 | O K | 1440 min Summer | 82.260 | 0.660 | 0.3 | 35.7 | O K | 2160 min Summer | 82.208 | 0.608 | 0.3 | 32.9 | O K | 2880 min Summer | 82.166 | 0.566 | 0.3 | 30.7 | O K | 4320 min Summer | 82.107 | 0.507 | 0.2 | 27.4 | O K | 5760 min Summer | 82.061 | 0.461 | 0.2 | 25.0 | O K | 7200 min Summer | 82.024 | 0.424 | 0.2 | 23.0 | O K | 8640 min Summer | 81.994 | 0.394 | 0.2 | 21.3 | O K | 10080 min Summer | 81.968 | 0.368 | 0.2 | 19.9 | O K | 15 min Winter | 81.927 | 0.327 | 0.2 | 17.7 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Time-Peak (mins) | 15 min Summer | 140.000 | 0.0 | 27 | 30 min Summer | 91.560 | 0.0 | 41 | 60 min Summer | 57.400 | 0.0 | 70 | 120 min Summer | 33.810 | 0.0 | 130 | 180 min Summer | 24.885 | 0.0 | 190 | 240 min Summer | 19.985 | 0.0 | 248 | 360 min Summer | 14.560 | 0.0 | 366 | 480 min Summer | 11.534 | 0.0 | 486 | 600 min Summer | 9.588 | 0.0 | 604 | 720 min Summer | 8.225 | 0.0 | 722 | 960 min Summer | 6.431 | 0.0 | 960 | 1440 min Summer | 4.533 | 0.0 | 1190 | 2160 min Summer | 3.191 | 0.0 | 1560 | 2880 min Summer | 2.497 | 0.0 | 1964 | 4320 min Summer | 1.791 | 0.0 | 2776 | 5760 min Summer | 1.431 | 0.0 | 3592 | 7200 min Summer | 1.211 | 0.0 | 4400 | 8640 min Summer | 1.064 | 0.0 | 5192 | 10080 min Summer | 0.958 | 0.0 | 5960 | 15 min Winter | 140.000 | 0.0 | 26 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Max Level (m) | Max Depth (m)                                       | Max Infiltration (l/s) | Max Volume (m³) | Status                                                                              |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 81.910        | 0.310                                               | 0.2                    | 16.8            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 82.003        | 0.403                                               | 0.2                    | 21.8            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.180        | 0.580                                               | 0.3                    | 31.4            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.229        | 0.629                                               | 0.3                    | 34.1            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.262        | 0.662                                               | 0.3                    | 35.9            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.301        | 0.701                                               | 0.3                    | 37.9            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.316        | 0.716                                               | 0.3                    | 38.8            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.321        | 0.721                                               | 0.3                    | 39.0            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82.318        | 0.718                                               | 0.3                    | 38.9            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 81.994        | 0.394                                               | 0.2                    | 21.3            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 81.968        | 0.368                                               | 0.2                    | 19.9            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 81.927        | 0.327                                               | 0.2                    | 17.7            | O K                                                                                 |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.791         | 0.0                                                 | 2776                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                   |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |      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|     |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.958         | 0.0                                                 | 5960                   |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         |     |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 140.000       | 0.0                                                 | 26                     |                 |                                                                                     |             |               |               |                        |                 |        |               |        |       |     |      |     |               |        |       |     |      |     |               |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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 |     |      |     |                 |        |       |     |      |     |                  |        |       |     |      |     |               |        |       |     |      |     |             |              |                     |                  |               |         |     |    |               |        |     |    |               |        |     |    |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |        |     |     |                |       |     |     |                |       |     |     |                |       |     |     |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                 |       |     |      |                  |       |     |      |               |         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|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA6<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/9/2023 4:53 PM<br>File 8210940-SA6.SRCX          |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                           | 82.026              | 0.426                                               | 0.2                          | 23.1                  | O K                                                                                 |
| 60 min Winter                                           | 82.130              | 0.530                                               | 0.2                          | 28.7                  | O K                                                                                 |
| 120 min Winter                                          | 82.214              | 0.614                                               | 0.3                          | 33.2                  | O K                                                                                 |
| 180 min Winter                                          | 82.266              | 0.666                                               | 0.3                          | 36.1                  | O K                                                                                 |
| 240 min Winter                                          | 82.303              | 0.703                                               | 0.3                          | 38.0                  | O K                                                                                 |
| 360 min Winter                                          | 82.345              | 0.745                                               | 0.3                          | 40.3                  | O K                                                                                 |
| 480 min Winter                                          | 82.363              | 0.763                                               | 0.3                          | 41.3                  | O K                                                                                 |
| 600 min Winter                                          | 82.370              | 0.770                                               | 0.3                          | 41.7                  | O K                                                                                 |
| 720 min Winter                                          | 82.369              | 0.769                                               | 0.3                          | 41.6                  | O K                                                                                 |
| 960 min Winter                                          | 82.355              | 0.755                                               | 0.3                          | 40.9                  | O K                                                                                 |
| 1440 min Winter                                         | 82.310              | 0.710                                               | 0.3                          | 38.5                  | O K                                                                                 |
| 2160 min Winter                                         | 82.250              | 0.650                                               | 0.3                          | 35.2                  | O K                                                                                 |
| 2880 min Winter                                         | 82.198              | 0.598                                               | 0.3                          | 32.4                  | O K                                                                                 |
| 4320 min Winter                                         | 82.114              | 0.514                                               | 0.2                          | 27.9                  | O K                                                                                 |
| 5760 min Winter                                         | 82.048              | 0.448                                               | 0.2                          | 24.2                  | O K                                                                                 |
| 7200 min Winter                                         | 81.992              | 0.392                                               | 0.2                          | 21.2                  | O K                                                                                 |
| 8640 min Winter                                         | 81.945              | 0.345                                               | 0.2                          | 18.7                  | O K                                                                                 |
| 10080 min Winter                                        | 81.905              | 0.305                                               | 0.2                          | 16.5                  | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                           | 91.560              | 0.0                                                 | 41                           |                       |                                                                                     |
| 60 min Winter                                           | 57.400              | 0.0                                                 | 70                           |                       |                                                                                     |
| 120 min Winter                                          | 33.810              | 0.0                                                 | 128                          |                       |                                                                                     |
| 180 min Winter                                          | 24.885              | 0.0                                                 | 186                          |                       |                                                                                     |
| 240 min Winter                                          | 19.985              | 0.0                                                 | 244                          |                       |                                                                                     |
| 360 min Winter                                          | 14.560              | 0.0                                                 | 360                          |                       |                                                                                     |
| 480 min Winter                                          | 11.534              | 0.0                                                 | 476                          |                       |                                                                                     |
| 600 min Winter                                          | 9.588               | 0.0                                                 | 590                          |                       |                                                                                     |
| 720 min Winter                                          | 8.225               | 0.0                                                 | 704                          |                       |                                                                                     |
| 960 min Winter                                          | 6.431               | 0.0                                                 | 926                          |                       |                                                                                     |
| 1440 min Winter                                         | 4.532               | 0.0                                                 | 1332                         |                       |                                                                                     |
| 2160 min Winter                                         | 3.191               | 0.0                                                 | 1648                         |                       |                                                                                     |
| 2880 min Winter                                         | 2.497               | 0.0                                                 | 2108                         |                       |                                                                                     |
| 4320 min Winter                                         | 1.791               | 0.0                                                 | 2992                         |                       |                                                                                     |
| 5760 min Winter                                         | 1.431               | 0.0                                                 | 3864                         |                       |                                                                                     |
| 7200 min Winter                                         | 1.211               | 0.0                                                 | 4688                         |                       |                                                                                     |
| 8640 min Winter                                         | 1.064               | 0.0                                                 | 5528                         |                       |                                                                                     |
| 10080 min Winter                                        | 0.958               | 0.0                                                 | 6264                         |                       |                                                                                     |
| ©1982-2018 Innovyze                                     |                     |                                                     |                              |                       |                                                                                     |

|                                                         |                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                                     | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD | 8210940 - SA6<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/9/2023 4:53 PM<br>File 8210940-SA6.SRCX          | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |
| Micro Drainage Source Control 2018.1.1                  |                                                     |                                                                                     |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 473250 175300 SU 73250 75300 |
| Data Type             | Catchment                       |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.900                           |
| Cv (Winter)           | 0.950                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +40                             |

Time Area Diagram

Total Area (ha) 0.054

| Time (mins) | Area (ha) | Time (mins) | Area (ha) | Time (mins) | Area (ha) |
|-------------|-----------|-------------|-----------|-------------|-----------|
| From:       | To:       | From:       | To:       | From:       | To:       |
| 0           | 4         | 0.018       | 4         | 8           | 0.018     |
|             |           |             |           | 8           | 12        |
|             |           |             |           |             | 0.018     |

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| Glanville Consultants                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                     | Page 4                                                                              |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|-----|------|-------|------|------|--|--|--|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - SA6<br>Caversham Park, Reading<br>RG4 8TZ |  |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Date 6/9/2023 4:53 PM<br>File 8210940-SA6.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | Source Control 2018.1.1                                                             |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 81.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02218 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.02218</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>57.0</td><td>57.0</td><td>0.801</td><td>0.0</td><td>92.2</td></tr><tr><td>0.800</td><td>57.0</td><td>92.2</td><td></td><td></td><td></td></tr></tbody></table> |                                                     |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 57.0 | 57.0 | 0.801 | 0.0 | 92.2 | 0.800 | 57.0 | 92.2 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                           | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57.0                                                | 57.0                                                                                | 0.801     | 0.0       | 92.2           |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 57.0                                                | 92.2                                                                                |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| ©1982-2018 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                     |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |

|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 1                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA5<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/12/2023 9:08 AM<br>File 8210940-SA5.SRCX         |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Half Drain Time : 1391 minutes.                         |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 15 min Summer                                           | 81.905              | 0.305                                               | 0.1                          | 8.7                   | O K                                                                                 |
| 30 min Summer                                           | 81.997              | 0.397                                               | 0.1                          | 11.3                  | O K                                                                                 |
| 60 min Summer                                           | 82.094              | 0.494                                               | 0.1                          | 14.1                  | O K                                                                                 |
| 120 min Summer                                          | 82.171              | 0.571                                               | 0.1                          | 16.3                  | O K                                                                                 |
| 180 min Summer                                          | 82.220              | 0.620                                               | 0.1                          | 17.7                  | O K                                                                                 |
| 240 min Summer                                          | 82.252              | 0.652                                               | 0.1                          | 18.6                  | O K                                                                                 |
| 360 min Summer                                          | 82.290              | 0.690                                               | 0.1                          | 19.7                  | O K                                                                                 |
| 480 min Summer                                          | 82.306              | 0.706                                               | 0.1                          | 20.1                  | O K                                                                                 |
| 600 min Summer                                          | 82.310              | 0.710                                               | 0.1                          | 20.2                  | O K                                                                                 |
| 720 min Summer                                          | 82.308              | 0.708                                               | 0.1                          | 20.2                  | O K                                                                                 |
| 960 min Summer                                          | 82.291              | 0.691                                               | 0.1                          | 19.7                  | O K                                                                                 |
| 1440 min Summer                                         | 82.250              | 0.650                                               | 0.1                          | 18.5                  | O K                                                                                 |
| 2160 min Summer                                         | 82.198              | 0.598                                               | 0.1                          | 17.1                  | O K                                                                                 |
| 2880 min Summer                                         | 82.158              | 0.558                                               | 0.1                          | 15.9                  | O K                                                                                 |
| 4320 min Summer                                         | 82.098              | 0.498                                               | 0.1                          | 14.2                  | O K                                                                                 |
| 5760 min Summer                                         | 82.053              | 0.453                                               | 0.1                          | 12.9                  | O K                                                                                 |
| 7200 min Summer                                         | 82.017              | 0.417                                               | 0.1                          | 11.9                  | O K                                                                                 |
| 8640 min Summer                                         | 81.986              | 0.386                                               | 0.1                          | 11.0                  | O K                                                                                 |
| 10080 min Summer                                        | 81.960              | 0.360                                               | 0.1                          | 10.3                  | O K                                                                                 |
| 15 min Winter                                           | 81.922              | 0.322                                               | 0.1                          | 9.2                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 15 min Summer                                           | 140.000             | 0.0                                                 | 27                           |                       |                                                                                     |
| 30 min Summer                                           | 91.560              | 0.0                                                 | 41                           |                       |                                                                                     |
| 60 min Summer                                           | 57.400              | 0.0                                                 | 70                           |                       |                                                                                     |
| 120 min Summer                                          | 33.810              | 0.0                                                 | 130                          |                       |                                                                                     |
| 180 min Summer                                          | 24.885              | 0.0                                                 | 190                          |                       |                                                                                     |
| 240 min Summer                                          | 19.985              | 0.0                                                 | 248                          |                       |                                                                                     |
| 360 min Summer                                          | 14.560              | 0.0                                                 | 366                          |                       |                                                                                     |
| 480 min Summer                                          | 11.534              | 0.0                                                 | 486                          |                       |                                                                                     |
| 600 min Summer                                          | 9.588               | 0.0                                                 | 604                          |                       |                                                                                     |
| 720 min Summer                                          | 8.225               | 0.0                                                 | 722                          |                       |                                                                                     |
| 960 min Summer                                          | 6.431               | 0.0                                                 | 960                          |                       |                                                                                     |
| 1440 min Summer                                         | 4.533               | 0.0                                                 | 1194                         |                       |                                                                                     |
| 2160 min Summer                                         | 3.191               | 0.0                                                 | 1560                         |                       |                                                                                     |
| 2880 min Summer                                         | 2.497               | 0.0                                                 | 1964                         |                       |                                                                                     |
| 4320 min Summer                                         | 1.791               | 0.0                                                 | 2776                         |                       |                                                                                     |
| 5760 min Summer                                         | 1.431               | 0.0                                                 | 3624                         |                       |                                                                                     |
| 7200 min Summer                                         | 1.211               | 0.0                                                 | 4400                         |                       |                                                                                     |
| 8640 min Summer                                         | 1.064               | 0.0                                                 | 5192                         |                       |                                                                                     |
| 10080 min Summer                                        | 0.958               | 0.0                                                 | 5960                         |                       |                                                                                     |
| 15 min Winter                                           | 140.000             | 0.0                                                 | 26                           |                       |                                                                                     |
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|                                                         |                     |                                                     |                              |                       |                                                                                     |
|---------------------------------------------------------|---------------------|-----------------------------------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                     |                                                     |                              | Page 2                |                                                                                     |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD |                     | 8210940 - SA5<br>Caversham Park, Reading<br>RG4 8TZ |                              |                       |  |
| Date 6/12/2023 9:08 AM<br>File 8210940-SA5.SRCX         |                     | Designed by A. Persins<br>Checked by J. Hanlon      |                              |                       |                                                                                     |
| Micro Drainage                                          |                     | Source Control 2018.1.1                             |                              |                       |                                                                                     |
| Summary of Results for 100 year Return Period (+40%)    |                     |                                                     |                              |                       |                                                                                     |
| Storm<br>Event                                          | Max<br>Level<br>(m) | Max<br>Depth<br>(m)                                 | Max<br>Infiltration<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |
| 30 min Winter                                           | 82.020              | 0.420                                               | 0.1                          | 12.0                  | O K                                                                                 |
| 60 min Winter                                           | 82.122              | 0.522                                               | 0.1                          | 14.9                  | O K                                                                                 |
| 120 min Winter                                          | 82.204              | 0.604                                               | 0.1                          | 17.2                  | O K                                                                                 |
| 180 min Winter                                          | 82.257              | 0.657                                               | 0.1                          | 18.7                  | O K                                                                                 |
| 240 min Winter                                          | 82.292              | 0.692                                               | 0.1                          | 19.7                  | O K                                                                                 |
| 360 min Winter                                          | 82.334              | 0.734                                               | 0.1                          | 20.9                  | O K                                                                                 |
| 480 min Winter                                          | 82.352              | 0.752                                               | 0.1                          | 21.4                  | O K                                                                                 |
| 600 min Winter                                          | 82.359              | 0.759                                               | 0.1                          | 21.6                  | O K                                                                                 |
| 720 min Winter                                          | 82.358              | 0.758                                               | 0.1                          | 21.6                  | O K                                                                                 |
| 960 min Winter                                          | 82.344              | 0.744                                               | 0.1                          | 21.2                  | O K                                                                                 |
| 1440 min Winter                                         | 82.300              | 0.700                                               | 0.1                          | 20.0                  | O K                                                                                 |
| 2160 min Winter                                         | 82.240              | 0.640                                               | 0.1                          | 18.2                  | O K                                                                                 |
| 2880 min Winter                                         | 82.188              | 0.588                                               | 0.1                          | 16.8                  | O K                                                                                 |
| 4320 min Winter                                         | 82.106              | 0.506                                               | 0.1                          | 14.4                  | O K                                                                                 |
| 5760 min Winter                                         | 82.039              | 0.439                                               | 0.1                          | 12.5                  | O K                                                                                 |
| 7200 min Winter                                         | 81.984              | 0.384                                               | 0.1                          | 11.0                  | O K                                                                                 |
| 8640 min Winter                                         | 81.938              | 0.338                                               | 0.1                          | 9.6                   | O K                                                                                 |
| 10080 min Winter                                        | 81.898              | 0.298                                               | 0.1                          | 8.5                   | O K                                                                                 |
| Storm<br>Event                                          | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³)                           | Time-Peak<br>(mins)          |                       |                                                                                     |
| 30 min Winter                                           | 91.560              | 0.0                                                 | 41                           |                       |                                                                                     |
| 60 min Winter                                           | 57.400              | 0.0                                                 | 70                           |                       |                                                                                     |
| 120 min Winter                                          | 33.810              | 0.0                                                 | 128                          |                       |                                                                                     |
| 180 min Winter                                          | 24.885              | 0.0                                                 | 186                          |                       |                                                                                     |
| 240 min Winter                                          | 19.985              | 0.0                                                 | 244                          |                       |                                                                                     |
| 360 min Winter                                          | 14.560              | 0.0                                                 | 360                          |                       |                                                                                     |
| 480 min Winter                                          | 11.534              | 0.0                                                 | 476                          |                       |                                                                                     |
| 600 min Winter                                          | 9.588               | 0.0                                                 | 590                          |                       |                                                                                     |
| 720 min Winter                                          | 8.225               | 0.0                                                 | 704                          |                       |                                                                                     |
| 960 min Winter                                          | 6.431               | 0.0                                                 | 926                          |                       |                                                                                     |
| 1440 min Winter                                         | 4.532               | 0.0                                                 | 1334                         |                       |                                                                                     |
| 2160 min Winter                                         | 3.191               | 0.0                                                 | 1652                         |                       |                                                                                     |
| 2880 min Winter                                         | 2.497               | 0.0                                                 | 2112                         |                       |                                                                                     |
| 4320 min Winter                                         | 1.791               | 0.0                                                 | 2992                         |                       |                                                                                     |
| 5760 min Winter                                         | 1.431               | 0.0                                                 | 3864                         |                       |                                                                                     |
| 7200 min Winter                                         | 1.211               | 0.0                                                 | 4688                         |                       |                                                                                     |
| 8640 min Winter                                         | 1.064               | 0.0                                                 | 5528                         |                       |                                                                                     |
| 10080 min Winter                                        | 0.958               | 0.0                                                 | 6264                         |                       |                                                                                     |
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|                                                         |                                                     |                                                                                     |
|---------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                   |                                                     | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD | 8210940 - SA5<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/12/2023 9:08 AM<br>File 8210940-SA5.SRCX         | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |
| Micro Drainage Source Control 2018.1.1                  |                                                     |                                                                                     |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 473250 175300 SU 73250 75300 |
| Data Type             | Catchment                       |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.900                           |
| Cv (Winter)           | 0.950                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +40                             |

Time Area Diagram

Total Area (ha) 0.028

| Time (mins) | Area  | Time (mins) | Area  | Time (mins) | Area  |
|-------------|-------|-------------|-------|-------------|-------|
| From: To:   | (ha)  | From: To:   | (ha)  | From: To:   | (ha)  |
| 0 4         | 0.010 | 4 8         | 0.009 | 8 12        | 0.009 |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|------|-------|-----|------|-------|------|------|--|--|--|
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8210940 - SA5<br>Caversham Park, Reading<br>RG4 8TZ |  |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Date 6/12/2023 9:08 AM<br>File 8210940-SA5.SRCX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Designed by A. Persins<br>Checked by J. Hanlon      |                                                                                     |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                     | Source Control 2018.1.1                                                             |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 82.800</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 81.600 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.02218 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.02218</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>30.0</td><td>30.0</td><td>0.801</td><td>0.0</td><td>47.6</td></tr><tr><td>0.800</td><td>30.0</td><td>47.6</td><td></td><td></td><td></td></tr></tbody></table> |                                                     |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 30.0 | 30.0 | 0.801 | 0.0 | 47.6 | 0.800 | 30.0 | 47.6 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Area (m²)                                           | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30.0                                                | 30.0                                                                                | 0.801     | 0.0       | 47.6           |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30.0                                                | 47.6                                                                                |           |           |                |           |           |                |       |      |      |       |     |      |       |      |      |  |  |  |
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|                                                            |                                                                   |                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                      |                                                                   | Page 1                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD    | 8210940 - Eastern Catchment<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/16/2023 12:23 PM<br>File 8210940-EASTERN_CATCHME... | Designed by A. Persins<br>Checked by J. Hanlon                    |                                                                                     |
| Micro Drainage                                             |                                                                   | Network 2018.1.1                                                                    |

Time Area Diagram for Storm

| <b>Time<br/>(mins)</b> | <b>Area<br/>(ha)</b> | <b>Time<br/>(mins)</b> | <b>Area<br/>(ha)</b> | <b>Time<br/>(mins)</b> | <b>Area<br/>(ha)</b> |
|------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|
| 0-4                    | 0.657                | 4-8                    | 0.798                | 8-12                   | 0.050                |

Total Area Contributing (ha) = 1.504

Total Pipe Volume (m<sup>3</sup>) = 167.815



|                                                            |                                                                   |                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Glanville Consultants                                      |                                                                   | Page 3                                                                              |
| Cornerstone Court<br>62 Foxhall Road<br>Didcot OX11 7AD    | 8210940 - Eastern Catchment<br>Caversham Park, Reading<br>RG4 8TZ |  |
| Date 6/16/2023 12:23 PM<br>File 8210940-EASTERN_CATCHME... | Designed by A. Persins<br>Checked by J. Hanlon                    |                                                                                     |
| Micro Drainage                                             |                                                                   | Network 2018.1.1                                                                    |

Manhole Schedules for Storm

| MH<br>Name | MH<br>CL (m) | MH<br>Depth<br>(m) | MH<br>Connection | MH<br>Diam., L*W<br>(mm) | PN     | Pipe Out<br>Invert<br>Level (m) | Diameter<br>(mm) | PN     | Pipes In<br>Invert<br>Level (m) | Diameter<br>(mm) | Backdrop<br>(mm) |
|------------|--------------|--------------------|------------------|--------------------------|--------|---------------------------------|------------------|--------|---------------------------------|------------------|------------------|
| S2         | 83.100       | 1.500              | Open Manhole     | 1200                     | S2.000 | 81.600                          | 300              |        |                                 |                  |                  |
| S3         | 83.490       | 1.500              | Open Manhole     | 1200                     | S3.000 | 81.990                          | 300              |        |                                 |                  |                  |
| S4         | 83.100       | 3.400              | Open Manhole     | 3000                     | S2.001 | 79.700                          | 1                | S2.000 | 79.700                          | 300              |                  |
|            |              |                    |                  |                          |        |                                 |                  | S3.000 | 79.700                          | 300              |                  |
| S5         | 82.540       | 1.500              | Open Manhole     | 1200                     | S4.000 | 81.040                          | 300              |        |                                 |                  |                  |
| S6         | 82.000       | 1.500              | Open Manhole     | 1350                     | S4.001 | 80.500                          | 450              | S4.000 | 80.650                          | 300              |                  |
| S7         | 80.800       | 1.500              | Open Manhole     | 3000                     | S2.002 | 79.300                          | 225              | S2.001 | 79.300                          | 1                |                  |
|            |              |                    |                  |                          |        |                                 |                  | S4.001 | 79.300                          | 450              |                  |
| S          | 79.650       | 0.650              | Open Manhole     | 0                        |        | OUTFALL                         |                  | S2.002 | 79.000                          | 225              |                  |

|                                                            |                                                                   |                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
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| Micro Drainage                                             | Network 2018.1.1                                                  |                                                                                     |

# PIPELINE SCHEDULES for Storm

## Upstream Manhole

# - Indicates pipe length does not match coordinates

| PN     | Hyd<br>Sect | Diam<br>(mm) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|--------|-------------|--------------|------------|----------------|----------------|----------------|------------------|-----------------------|
| S2.000 | o           | 300          | S2         | 83.100         | 81.600         | 1.200          | Open Manhole     | 1200                  |
| S3.000 | o           | 300          | S3         | 83.490         | 81.990         | 1.200          | Open Manhole     | 1200                  |
| S2.001 | [ ]         | 1            | S4         | 83.100         | 79.700         | 2.800          | Open Manhole     | 3000                  |
| S4.000 | o           | 300          | S5         | 82.540         | 81.040         | 1.200          | Open Manhole     | 1200                  |
| S4.001 | o           | 450          | S6         | 82.000         | 80.500         | 1.050          | Open Manhole     | 1350                  |
| S2.002 | o           | 225          | S7         | 80.800         | 79.300         | 1.275          | Open Manhole     | 3000                  |

## Downstream Manhole

| PN     | Length<br>(m) | Slope<br>(1:X) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|--------|---------------|----------------|------------|----------------|----------------|----------------|------------------|-----------------------|
| S2.000 | 115.473       | 60.8           | S4         | 83.100         | 79.700         | 3.100          | Open Manhole     | 3000                  |
| S3.000 | 155.969       | 68.1           | S4         | 83.100         | 79.700         | 3.100          | Open Manhole     | 3000                  |
| S2.001 | 200.000#      | 500.0          | S7         | 80.800         | 79.300         | 0.900          | Open Manhole     | 3000                  |
| S4.000 | 46.477        | 119.2          | S6         | 82.000         | 80.650         | 1.050          | Open Manhole     | 1350                  |
| S4.001 | 44.294        | 36.9           | S7         | 80.800         | 79.300         | 1.050          | Open Manhole     | 3000                  |
| S2.002 | 12.536        | 41.8           | S          | 79.650         | 79.000         | 0.425          | Open Manhole     | 0                     |

|                                                            |                                                                   |                                                                                     |
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| Micro Drainage                                             | Network 2018.1.1                                                  |                                                                                     |

Area Summary for Storm

| Pipe Number | PIMP Type | PIMP Name | PIMP (%) | Gross Area (ha) | Imp. Area (ha) | Pipe Total (ha) |
|-------------|-----------|-----------|----------|-----------------|----------------|-----------------|
| 2.000       | -         | -         | 100      | 0.168           | 0.168          | 0.168           |
| 3.000       | -         | -         | 100      | 0.158           | 0.158          | 0.158           |
| 2.001       | -         | -         | 100      | 0.707           | 0.707          | 0.707           |
| 4.000       | -         | -         | 100      | 0.128           | 0.128          | 0.128           |
| 4.001       | -         | -         | 100      | 0.343           | 0.343          | 0.343           |
| 2.002       | -         | -         | 100      | 0.000           | 0.000          | 0.000           |
|             |           |           |          | Total           | Total          | Total           |
|             |           |           |          | 1.504           | 1.504          | 1.504           |

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) |
|---------------------|--------------|--------------|--------------|------------------|----------|--------|
| S2.002              | S            | 79.650       | 79.000       | 79.000           | 0        | 0      |

|                                                            |                                                                   |                                                                                     |
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| Micro Drainage                                             | Network 2018.1.1                                                  |                                                                                     |

### Online Controls for Storm

Hydro-Brake® Optimum Manhole: S7, DS/PN: S2.002, Volume (m³): 153.0

|                                   |                            |
|-----------------------------------|----------------------------|
| Unit Reference                    | MD-SHE-0158-1250-1200-1250 |
| Design Head (m)                   | 1.200                      |
| Design Flow (l/s)                 | 12.5                       |
| Flush-Flo™                        | Calculated                 |
| Objective                         | Minimise upstream storage  |
| Application                       | Surface                    |
| Sump Available                    | Yes                        |
| Diameter (mm)                     | 158                        |
| Invert Level (m)                  | 79.300                     |
| Minimum Outlet Pipe Diameter (mm) | 225                        |
| Suggested Manhole Diameter (mm)   | 1200                       |

| Control Points            | Head (m) | Flow (l/s) |
|---------------------------|----------|------------|
| Design Point (Calculated) | 1.200    | 12.5       |
| Flush-Flo™                | 0.363    | 12.5       |
| Kick-Flo®                 | 0.794    | 10.3       |
| Mean Flow over Head Range | -        | 10.8       |

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| 0.100     | 5.7        | 1.200     | 12.5       | 3.000     | 19.3       | 7.000     | 29.0       |
| 0.200     | 11.7       | 1.400     | 13.4       | 3.500     | 20.8       | 7.500     | 29.9       |
| 0.300     | 12.4       | 1.600     | 14.3       | 4.000     | 22.1       | 8.000     | 30.9       |
| 0.400     | 12.4       | 1.800     | 15.1       | 4.500     | 23.4       | 8.500     | 31.8       |
| 0.500     | 12.3       | 2.000     | 15.9       | 5.000     | 24.6       | 9.000     | 32.7       |
| 0.600     | 12.0       | 2.200     | 16.6       | 5.500     | 25.8       | 9.500     | 33.6       |
| 0.800     | 10.3       | 2.400     | 17.3       | 6.000     | 26.9       |           |            |
| 1.000     | 11.5       | 2.600     | 18.0       | 6.500     | 27.9       |           |            |

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## Storage Structures for Storm

Cellular Storage Manhole: S4, DS/PN: S2.001

|                                      |         |               |      |
|--------------------------------------|---------|---------------|------|
| Invert Level (m)                     | 79.700  | Safety Factor | 2.0  |
| Infiltration Coefficient Base (m/hr) | 0.00000 | Porosity      | 0.95 |
| Infiltration Coefficient Side (m/hr) | 0.00000 |               |      |

| Depth (m) | Area (m <sup>2</sup> ) | Inf. Area (m <sup>2</sup> ) | Depth (m) | Area (m <sup>2</sup> ) | Inf. Area (m <sup>2</sup> ) |
|-----------|------------------------|-----------------------------|-----------|------------------------|-----------------------------|
| 0.000     | 1120.0                 | 1120.0                      | 0.801     | 0.0                    | 1228.8                      |
| 0.800     | 1120.0                 | 1228.8                      |           |                        |                             |

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

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 1

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

FEH Rainfall Version 2013

Site Location GB 473250 175300 SU 73250 75300

Data Type Catchment

Cv (Summer) 0.900

Cv (Winter) 0.950

Margin for Flood Risk Warning (mm) 300.0

DVD Status ON

Analysis Timestep Fine

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

Return Period(s) (years) 2, 30, 100

Climate Change (%) 0, 0, 40

US/MH

PN

Name

Storm

Return Period

Climate Change

First (X) Surge

First (Y) Flood

First (Z) Overflow

Overflow Act.

Water Level (m)

S2.000

S3.000

S2.001

S4.000

S4.001

S2.002

S2

S3

S4

S5

S6

S7

15 Summer

15 Summer

240 Winter

15 Summer

15 Summer

240 Winter

2

2

2

2

2

2

+0%

+0%

+0%

+0%

+0%

+0%

100/120 Summer

2/15 Summer

</

|                                                            |                                                                   |                                                                                     |
|------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------|
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| Micro Drainage                                             | Network 2018.1.1                                                  |                                                                                     |

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

| PN     | US/MH<br>Name | Surcharged   |                | Flooded        |                   | Pipe          |            | Status | Level<br>Exceeded |
|--------|---------------|--------------|----------------|----------------|-------------------|---------------|------------|--------|-------------------|
|        |               | Depth<br>(m) | Volume<br>(m³) | Flow /<br>Cap. | Overflow<br>(l/s) | Flow<br>(l/s) |            |        |                   |
| S2.002 | S7            | 0.297        | 0.000          | 0.18           |                   | 12.4          | SURCHARGED |        |                   |



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## Micro Drainage

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

| PN     | US/MH<br>Name | Surcharged   | Flooded        | Flow /<br>Cap. | Overflow<br>(l/s) | Pipe          | Status     | Level<br>Exceeded |
|--------|---------------|--------------|----------------|----------------|-------------------|---------------|------------|-------------------|
|        |               | Depth<br>(m) | Volume<br>(m³) |                |                   | Flow<br>(l/s) |            |                   |
| S2.002 | S7            | 0.519        | 0.000          | 0.18           |                   | 12.4          | SURCHARGED |                   |



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Micro Drainage

Network 2018.1.1

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

| PN     | US/MH<br>Name | Surcharged   | Flooded        |                |                   | Pipe          | Status     | Level<br>Exceeded |
|--------|---------------|--------------|----------------|----------------|-------------------|---------------|------------|-------------------|
|        |               | Depth<br>(m) | Volume<br>(m³) | Flow /<br>Cap. | Overflow<br>(l/s) | Flow<br>(l/s) |            |                   |
| S2.002 | S7            | 1.024        | 0.000          | 0.18           |                   | 12.4          | FLOOD RISK |                   |

## **Appendix O**

### **SuDS Maintenance and Management Plan**

**CAVERSHAM PARK, READING, RG4 8TZ**  
**SUDS MAINTENANCE AND MANAGEMENT PLAN**

Table 1: Permeable paving – Typical Maintenance Activities

| Maintenance Activity                                                                                                                                          | Inspection Frequency                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Check the surface and ensure it is free from debris, dirt and the like. Clean as required.                                                                    | Typically, monthly or as required            |
| Check outlets and control structures                                                                                                                          | Typically, monthly or as required            |
| Inspect joints and carry out weed control.                                                                                                                    | Typically, 3-4 times per year or as required |
| Ensure paving dewaterers after rain and between storms. Check joints for sedimentation, mechanically clean or jet wash and sweep surface free from silt, etc. | Typically, annually or as required           |
| Inspect blocks for depressions, rutting or deterioration and replace as required.                                                                             | As required                                  |
| Check pre-treatment structures (Catchpits) and gullies for sediment and remove.                                                                               | Monthly in the first year and then annually  |

Table 2: Geocellular Storage Crate Soakaways – Typical Maintenance Activities

| Maintenance Activity                                                                                                                                                                | Inspection Frequency                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Inspection if infiltration decrease. Uncover, inspect, and remediate as appropriate, including cleaning and replacement of infiltration media and surface. Reinststate as required. | Monthly for 3 months, then annually |
| Ensure pre-treatment structures are clear and free of debris                                                                                                                        | Annually, or as required            |
| Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed.                                                         | Annually                            |

Table 3: Attenuation Storage Tanks – Typical Maintenance Activities

| Maintenance Activity                                                                                                                                                                                   | Inspection Frequency                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Inspect and identify any areas that are not operating correctly, and remediate as appropriate, including cleaning and replacement of inlets, outlets, overflows and vents.                             | Monthly for 3 months, then annually |
| Remove debris from the catchment surface (where it may cause risks to performance)                                                                                                                     | Monthly                             |
| For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration medium as necessary. | Annually                            |
| Remove sediment from pre-treatment structures and/or internal forebays                                                                                                                                 | Annually, or as required            |
| Inspect/check all inlets, outlets, vents and overflows to ensure that they are in good condition and operating as designed                                                                             | Annually                            |
| Survey inside of tank for sediment build-up and remove if necessary                                                                                                                                    | Every 5 years or as required        |

Table 4: Swale – Typical Maintenance Activities

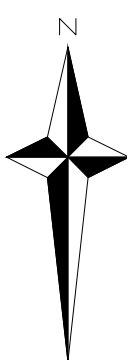
| Maintenance Activity                                                                                                         | Inspection Frequency                                          |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Remove litter and debris                                                                                                     | Regular (monthly or as required)                              |
| Cut grass – to retain grass height within specified design range                                                             | Regular (monthly during growing season or as required)        |
| Manage other vegetation and remove nuisance plants                                                                           | Monthly at start, then as required                            |
| Inspect inlets, outlets and overflows for blockages, and clear if required                                                   | Regular (monthly or as required)                              |
| Inspect infiltration surfaces for ponding, compaction, silt accumulation, record areas where water is ponding for > 48 hours | Monthly, or when required                                     |
| Inspect vegetation coverage                                                                                                  | Monthly for 6 months, quarterly for 2 years, then half yearly |
| Inspect inlets and facility surface for silt accumulation, establish appropriate silt removal frequencies                    | Half yearly                                                   |
| Reseed areas of poor vegetation growth, alter plant types to better suit conditions, if required                             | As required                                                   |

Table 5: Conventional Pipe Network – Typical Maintenance Activities

| Maintenance Activity                                                                   | Inspection Frequency             |
|----------------------------------------------------------------------------------------|----------------------------------|
| Inspect and remove any sediment, debris and silt from silt traps and catchpit chambers | Regular (monthly or as required) |
| Inspect pipework for blockages or root ingress, guttering.                             | Regular (monthly or as required) |
| Clear pipework of blockages                                                            | As required                      |

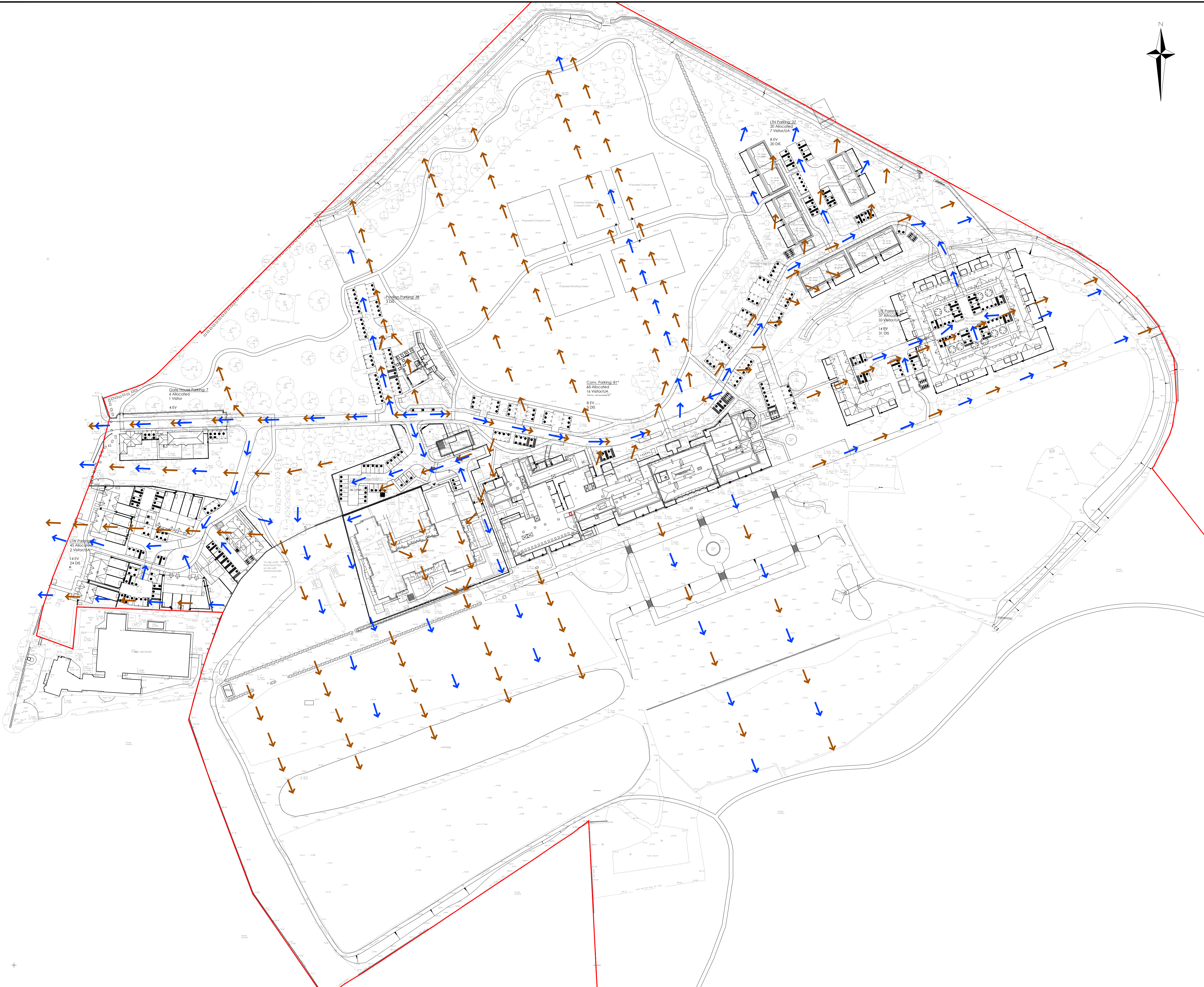
## **Appendix P**

### **Exceedance Flow Route Plan**



- NOTES
1. This drawing to be read in conjunction with all relevant documents and specifications.
  2. Dimensions are scalable for 'Planning' purposes only.
  3. Site layout provided by BHP Harwood Architects, drawing no. 3251.P.101, Rev X, dated February 2022.
  4. Topographical survey by Midland Survey Ltd, drawing no. 26008 (dated October 2016).

- KEY
- Existing exceedance flow route
  - Proposed exceedance flow route



|      |                                            |                          |      |
|------|--------------------------------------------|--------------------------|------|
| D    | Amended to suit Architect's latest layout. | 16/06/2023<br>A. Persins | AP   |
| C    | Amended to suit Architect's latest layout. | 05/12/2022<br>K. Huise   | AP   |
| B    | Amended to suit Architect's latest layout. | 28/02/2022<br>A. Persins | JH   |
| A    | PRELIMINARY issue.                         | 09/12/2021<br>J. Dunesby | JH   |
| Rev. | Description                                | Date                     | Chkd |

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|                    |                                        |         |               |
|--------------------|----------------------------------------|---------|---------------|
| Client :           | Beechcroft Developments Limited        |         |               |
| Project :          | Caversham Park,<br>Reading,<br>RG4 8TZ |         |               |
| Title :            | Exceedance Flow Route Plan             |         |               |
| Project Engineer : | A. Persins                             | Scale : | NTS           |
| Project Director : | J. Hanlon                              | Date :  | December 2022 |
| Status :           | SKETCH                                 |         |               |
| Drawing No.        | 8210940-SK06                           | Rev     | D             |



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