

|                                                         |                                                                              |                                                                                     |
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| Dixon Hurst Kemp                                        |                                                                              | Page 1                                                                              |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

|                          |        |                                       |       |
|--------------------------|--------|---------------------------------------|-------|
| Return Period (years)    | 2      | Add Flow / Climate Change (%)         | 45    |
| M5-60 (mm)               | 20.000 | Minimum Backdrop Height (m)           | 0.000 |
| Ratio R                  | 0.343  | Maximum Backdrop Height (m)           | 0.000 |
| Maximum Rainfall (mm/hr) | 50     | Min Design Depth for Optimisation (m) | 0.000 |
| Foul Sewage (l/s/ha)     | 0.00   | Min Vel for Auto Design only (m/s)    | 0.76  |
| Volumetric Runoff Coeff. | 1.000  | Min Slope for Optimisation (1:X)      | 500   |
| PIMP (%)                 | 100    |                                       |       |

Designed with Level Soffits

Time Area Diagram for Storm

| Time<br>(mins) | Area<br>(ha) | Time<br>(mins) | Area<br>(ha) |
|----------------|--------------|----------------|--------------|
| 0-4            | 0.014        | 4-8            | 0.002        |

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

| PN    | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
|-------|---------------|-------------|----------------|----------------|----------------|--------------------|-----------|-------------|-------------|
| 1.000 | 16.200        | 1.906       | 8.5            | 0.004          | 5.00           | 0.0                | 0.600     | o           | 110         |
| 1.001 | 5.000         | 0.050       | 100.0          | 0.004          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 2.000 | 3.600         | 0.379       | 9.5            | 0.004          | 5.00           | 0.0                | 0.600     | o           | 110         |
| 2.001 | 9.200         | 1.533       | 6.0            | 0.004          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 1.002 | 3.600         | 0.045       | 80.0           | 0.000          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 1.003 | 1.000         | 0.010       | 100.0          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 110         |
| 1.004 | 1.500         | 0.015       | 100.0          | 0.000          | 0.00           | 0.0                | 0.600     | o           | 110         |

Network Results Table

| PN    | Rain<br>(mm/hr) | T.C.<br>(mins) | US/IL<br>(m) | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s) | Foul<br>(l/s) | Add Flow<br>(l/s) | Vel<br>(m/s) | Cap<br>(l/s) | Flow<br>(l/s) |
|-------|-----------------|----------------|--------------|------------------|----------------------|---------------|-------------------|--------------|--------------|---------------|
| 1.000 | 50.00           | 5.10           | 65.400       | 0.004            | 0.0                  | 0.0           | 0.3               | 2.84         | 27.0         | 1.0           |
| 1.001 | 50.00           | 5.20           | 63.494       | 0.008            | 0.0                  | 0.0           | 0.6               | 0.82         | 7.8          | 2.1           |
| 2.000 | 50.00           | 5.02           | 65.400       | 0.004            | 0.0                  | 0.0           | 0.3               | 2.69         | 25.5         | 1.0           |
| 2.001 | 50.00           | 5.07           | 65.000       | 0.008            | 0.0                  | 0.0           | 0.6               | 3.38         | 32.2         | 2.1           |
| 1.002 | 50.00           | 5.26           | 63.444       | 0.016            | 0.0                  | 0.0           | 1.3               | 0.92         | 8.7          | 4.2           |
| 1.003 | 50.00           | 5.28           | 63.250       | 0.016            | 0.0                  | 0.0           | 1.3               | 0.82         | 7.8          | 4.2           |
| 1.004 | 50.00           | 5.31           | 63.100       | 0.016            | 0.0                  | 0.0           | 1.3               | 0.82         | 7.8          | 4.2           |

|                                                         |                                                                              |                                                                                     |
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Manhole Schedules for Storm

| MH Name     | MH CL (m) | MH Depth (m) | MH Connection | MH Diam.,L*W (mm) | PN    | Pipe Out Invert Level (m) | Diameter (mm) | PN    | Pipes In Invert Level (m) | Diameter (mm) | Backd (mm) |
|-------------|-----------|--------------|---------------|-------------------|-------|---------------------------|---------------|-------|---------------------------|---------------|------------|
| RE1         | 66.000    | 0.600        | Open Manhole  | 110               | 1.000 | 65.400                    | 110           |       |                           |               |            |
| S1          | 64.100    | 0.606        | Open Manhole  | 600               | 1.001 | 63.494                    | 110           | 1.000 | 63.494                    | 110           |            |
| RE2         | 66.000    | 0.600        | Open Manhole  | 110               | 2.000 | 65.400                    | 110           |       |                           |               |            |
| S2          | 65.650    | 0.650        | Open Manhole  | 600               | 2.001 | 65.000                    | 110           | 2.000 | 65.021                    | 110           |            |
| S3          | 64.100    | 0.656        | Open Manhole  | 600               | 1.002 | 63.444                    | 110           | 1.001 | 63.444                    | 110           |            |
|             |           |              |               |                   |       |                           |               | 2.001 | 63.467                    | 110           |            |
| S4          | 64.000    | 0.750        | Open Manhole  | 600               | 1.003 | 63.250                    | 110           | 1.002 | 63.399                    | 110           |            |
| RAIN GARDEN | 63.700    | 0.600        | Open Manhole  | 600               | 1.004 | 63.100                    | 110           | 1.003 | 63.240                    | 110           |            |
| Dummy       | 63.800    | 0.715        | Open Manhole  | 600               |       | OUTFALL                   |               | 1.004 | 63.085                    | 110           |            |

|                                                         |                                                                              |
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#### PIPELINE SCHEDULES for Storm

##### Upstream Manhole

| PN    | Hyd Sect | Diam (mm) | MH Name     | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|----------|-----------|-------------|-------------|-------------|-------------|---------------|--------------------|
| 1.000 | o        | 110       | RE1         | 66.000      | 65.400      | 0.490       | Open Manhole  | 110                |
| 1.001 | o        | 110       | S1          | 64.100      | 63.494      | 0.496       | Open Manhole  | 600                |
| 2.000 | o        | 110       | RE2         | 66.000      | 65.400      | 0.490       | Open Manhole  | 110                |
| 2.001 | o        | 110       | S2          | 65.650      | 65.000      | 0.540       | Open Manhole  | 600                |
| 1.002 | o        | 110       | S3          | 64.100      | 63.444      | 0.546       | Open Manhole  | 600                |
| 1.003 | o        | 110       | S4          | 64.000      | 63.250      | 0.640       | Open Manhole  | 600                |
| 1.004 | o        | 110       | RAIN GARDEN | 63.700      | 63.100      | 0.490       | Open Manhole  | 600                |

##### Downstream Manhole

| PN    | Length (m) | Slope (1:X) | MH Name     | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------------|
| 1.000 | 16.200     | 8.5         | S1          | 64.100      | 63.494      | 0.496       | Open Manhole  | 600                |
| 1.001 | 5.000      | 100.0       | S3          | 64.100      | 63.444      | 0.546       | Open Manhole  | 600                |
| 2.000 | 3.600      | 9.5         | S2          | 65.650      | 65.021      | 0.519       | Open Manhole  | 600                |
| 2.001 | 9.200      | 6.0         | S3          | 64.100      | 63.467      | 0.523       | Open Manhole  | 600                |
| 1.002 | 3.600      | 80.0        | S4          | 64.000      | 63.399      | 0.491       | Open Manhole  | 600                |
| 1.003 | 1.000      | 100.0       | RAIN GARDEN | 63.700      | 63.240      | 0.350       | Open Manhole  | 600                |
| 1.004 | 1.500      | 100.0       | Dummy       | 63.800      | 63.085      | 0.605       | Open Manhole  | 600                |

#### Free Flowing Outfall Details for Storm

| Outfall Pipe Number | Outfall Name | C. Level (m) | I. Level (m) | Min I. Level (m) | D,L (mm) | W (mm) |
|---------------------|--------------|--------------|--------------|------------------|----------|--------|
|---------------------|--------------|--------------|--------------|------------------|----------|--------|

|       |       |        |        |        |     |   |
|-------|-------|--------|--------|--------|-----|---|
| 1.004 | Dummy | 63.800 | 63.085 | 63.100 | 600 | 0 |
|-------|-------|--------|--------|--------|-----|---|

#### Simulation Criteria for Storm

|                                 |       |                                            |        |
|---------------------------------|-------|--------------------------------------------|--------|
| Volumetric Runoff Coeff         | 1.000 | Foul Sewage per hectare (l/s)              | 0.000  |
| Areal Reduction Factor          | 1.000 | Additional Flow - % of Total Flow          | 45.000 |
| Hot Start (mins)                | 0     | MADD Factor * 10m <sup>3</sup> /ha Storage | 2.000  |
| Hot Start Level (mm)            | 0     | Run Time (mins)                            | 1440   |
| Manhole Headloss Coeff (Global) | 0.500 | Output Interval (mins)                     | 12     |

|                             |   |                              |   |
|-----------------------------|---|------------------------------|---|
| Number of Input Hydrographs | 0 | Number of Storage Structures | 2 |
| Number of Online Controls   | 2 | Number of Time/Area Diagrams | 0 |
| Number of Offline Controls  | 0 |                              |   |

#### Synthetic Rainfall Details

|                       |                   |                       |        |
|-----------------------|-------------------|-----------------------|--------|
| Rainfall Model        | FSR               | Profile Type          | Summer |
| Return Period (years) | 100               | Cv (Summer)           | 1.000  |
| Region                | England and Wales | Cv (Winter)           | 1.000  |
| M5-60 (mm)            | 20.000            | Storm Duration (mins) | 720    |
| Ratio R               | 0.343             |                       |        |

|                                                         |                                                                              |                                                                                     |
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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m<sup>3</sup>): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m<sup>3</sup>): 0.2

Invert Level (m) 63.100

**Depth (m) Flow (l/s)**

0.700      0.0400

|                                                         |                                                                              |                                                                                     |
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#### Storage Structures for Storm

##### cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 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     | 30.0                   | 30.0                        | 0.500     | 0.0                    | 43.6                        |
| 0.400     | 30.0                   | 43.6                        |           |                        |                             |

##### Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2  
Safety Factor 2.0 Length (m) 7.7  
Porosity 0.30 Cap Volume Depth (m) 0.000  
Invert Level (m) 63.100

#### Manhole Headloss for Storm

| PN    | US/MH<br>Name | US/MH<br>Headloss |
|-------|---------------|-------------------|
| 1.000 | RE1           | 0.500             |
| 1.001 | S1            | 0.500             |
| 2.000 | RE2           | 0.500             |
| 2.001 | S2            | 0.500             |
| 1.002 | S3            | 0.500             |
| 1.003 | S4            | 0.500             |
| 1.004 | RAIN GARDEN   | 0.500             |

|                                                         |                                                                              |                                                                                     |
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Summary of Results for 720 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0      DVD Status OFF  
Analysis Timestep Fine Inertia Status OFF  
DTS Status ON

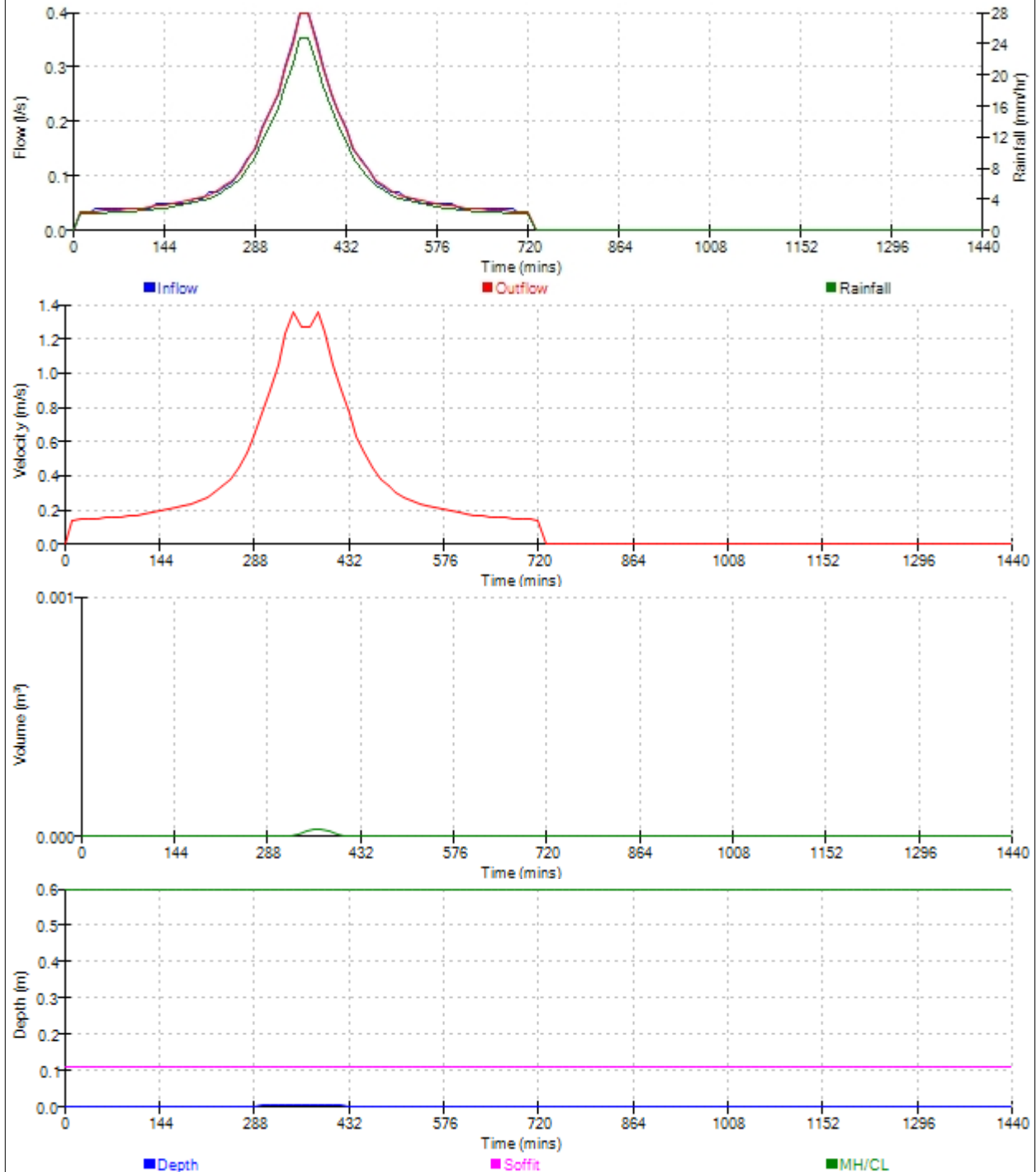
| PN    | US/MH<br>Name | Water<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Flooded<br>Volume<br>(m³) | Flow /<br>Cap. | Overflow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status     |
|-------|---------------|-----------------------|----------------------------|---------------------------|----------------|-------------------|-----------------------|------------|
| 1.000 | RE1           | 65.408                | -0.102                     | 0.000                     | 0.02           | 0.0               | 0.4                   | OK         |
| 1.001 | S1            | 63.795                | 0.191                      | 0.000                     | 0.12           | 0.0               | 0.8                   | SURCHARGED |
| 2.000 | RE2           | 65.410                | -0.100                     | 0.000                     | 0.02           | 0.0               | 0.4                   | OK         |
| 2.001 | S2            | 65.012                | -0.098                     | 0.000                     | 0.03           | 0.0               | 0.8                   | OK         |
| 1.002 | S3            | 63.795                | 0.241                      | 0.000                     | 0.22           | 0.0               | 1.6                   | SURCHARGED |
| 1.003 | S4            | 63.795                | 0.435                      | 0.000                     | 0.04           | 0.0               | 0.2                   | SURCHARGED |
| 1.004 | RAIN GARDEN   | 63.700                | 0.490                      | 0.112                     | 0.01           | 0.0               | 0.0                   | FLOOD      |

|                                                         |                                                                              |                                                                                     |
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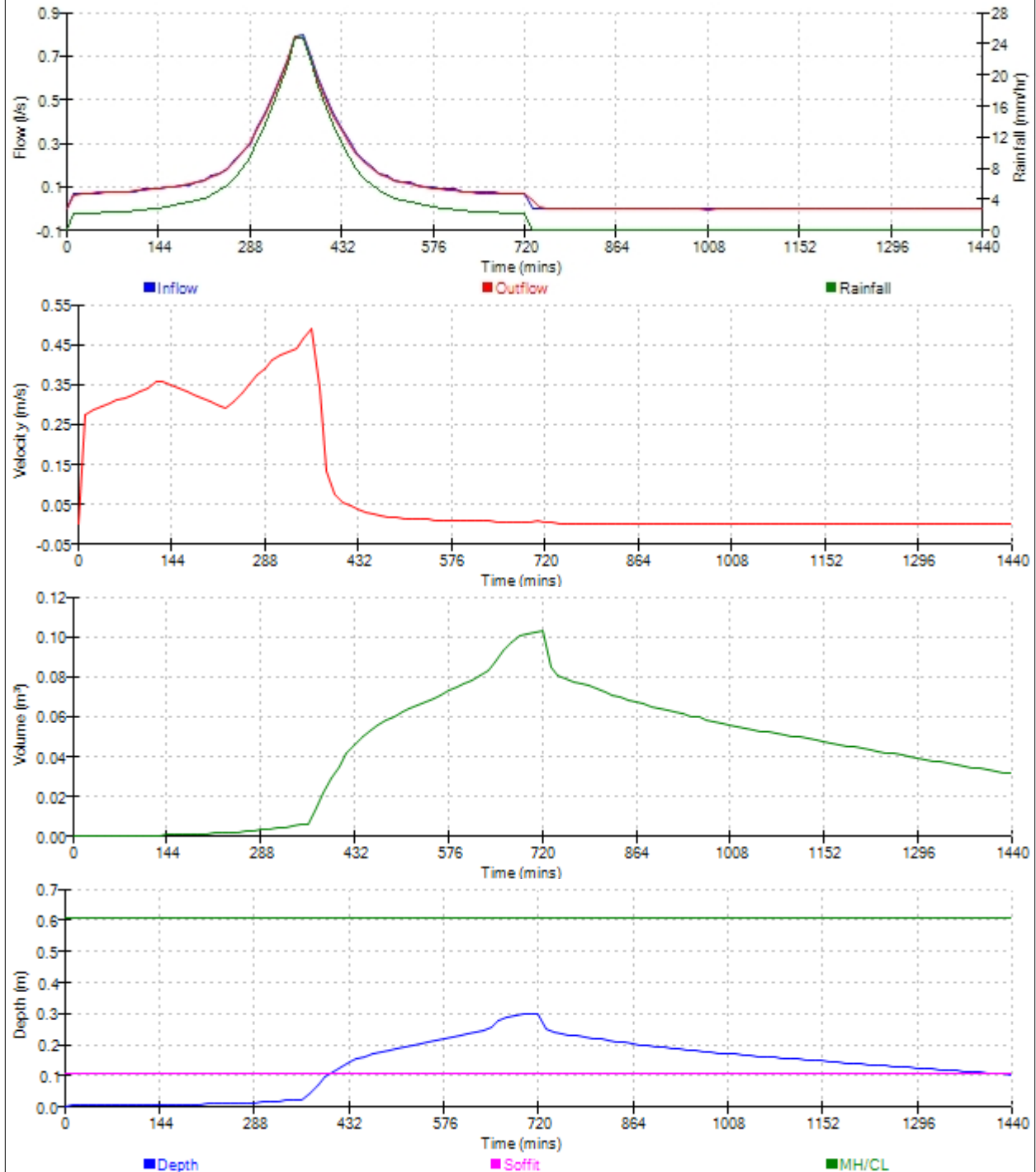
Rainfall Hyetograph for 720 minute 100 year Summer (Storm)

| Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) | Time<br>(mins) | Rain<br>(mm/hr) |
|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| 12             | 2.115           | 156            | 3.055           | 300            | 11.566          | 444            | 9.504           | 588            | 2.911           |
| 24             | 2.167           | 168            | 3.211           | 312            | 13.577          | 456            | 8.029           | 600            | 2.807           |
| 36             | 2.219           | 180            | 3.368           | 324            | 15.744          | 468            | 6.749           | 612            | 2.702           |
| 48             | 2.285           | 192            | 3.577           | 336            | 18.564          | 480            | 5.757           | 624            | 2.585           |
| 60             | 2.337           | 204            | 3.799           | 348            | 21.436          | 492            | 5.091           | 636            | 2.493           |
| 72             | 2.389           | 216            | 4.099           | 360            | 24.699          | 504            | 4.543           | 648            | 2.441           |
| 84             | 2.441           | 228            | 4.543           | 372            | 24.699          | 516            | 4.099           | 660            | 2.389           |
| 96             | 2.493           | 240            | 5.091           | 384            | 21.436          | 528            | 3.799           | 672            | 2.337           |
| 108            | 2.585           | 252            | 5.757           | 396            | 18.564          | 540            | 3.577           | 684            | 2.285           |
| 120            | 2.702           | 264            | 6.749           | 408            | 15.744          | 552            | 3.368           | 696            | 2.219           |
| 132            | 2.807           | 276            | 8.029           | 420            | 13.577          | 564            | 3.211           | 708            | 2.167           |
| 144            | 2.911           | 288            | 9.504           | 432            | 11.566          | 576            | 3.055           | 720            | 2.115           |

Graphs for Pipe 1.000 US/MH RE1 (Storm)  
720 minute 100 year Summer  
Status: OK

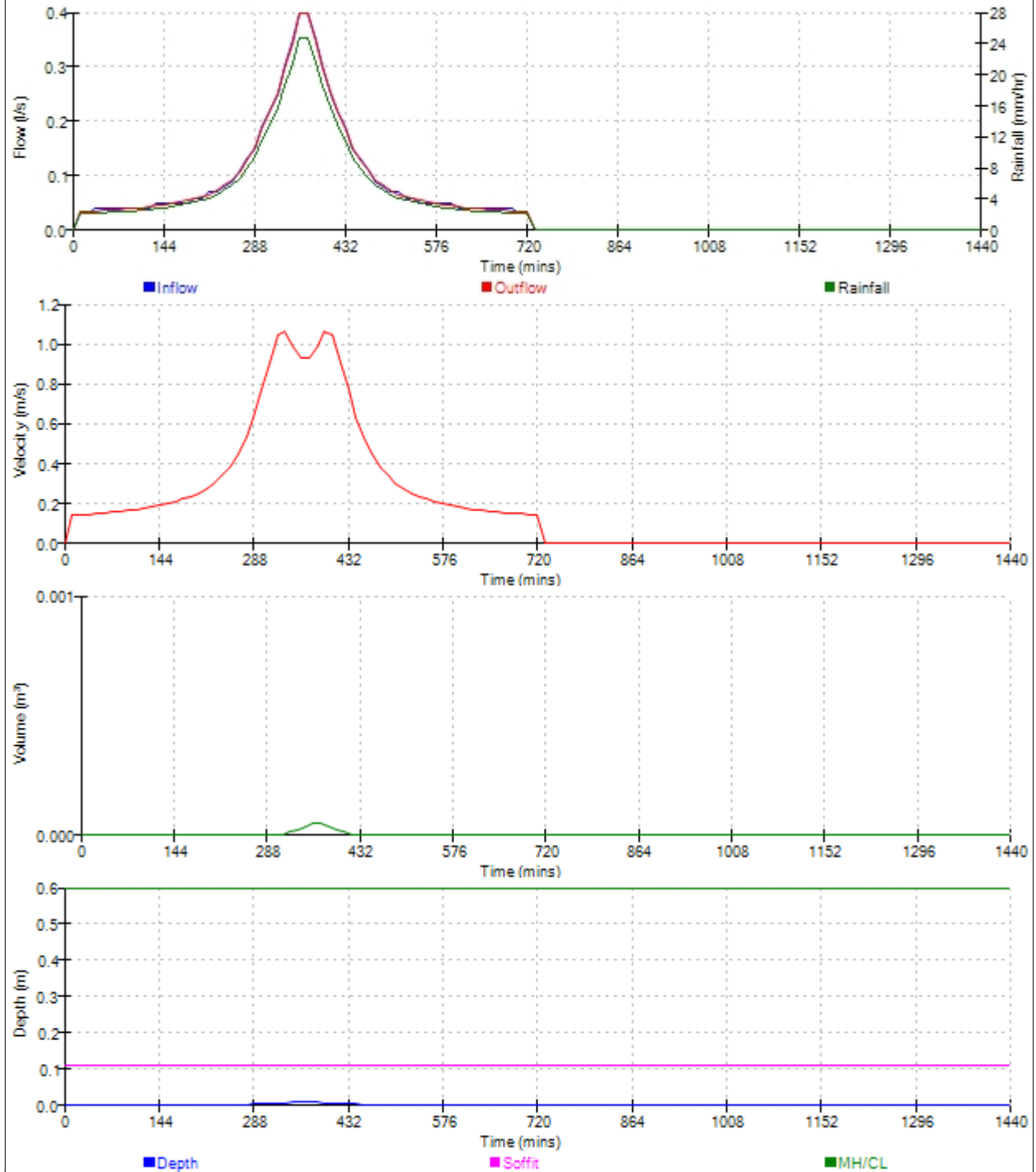


Graphs for Pipe 1.001 US/MH S1 (Storm)  
720 minute 100 year Summer  
Status: SURCHARGED

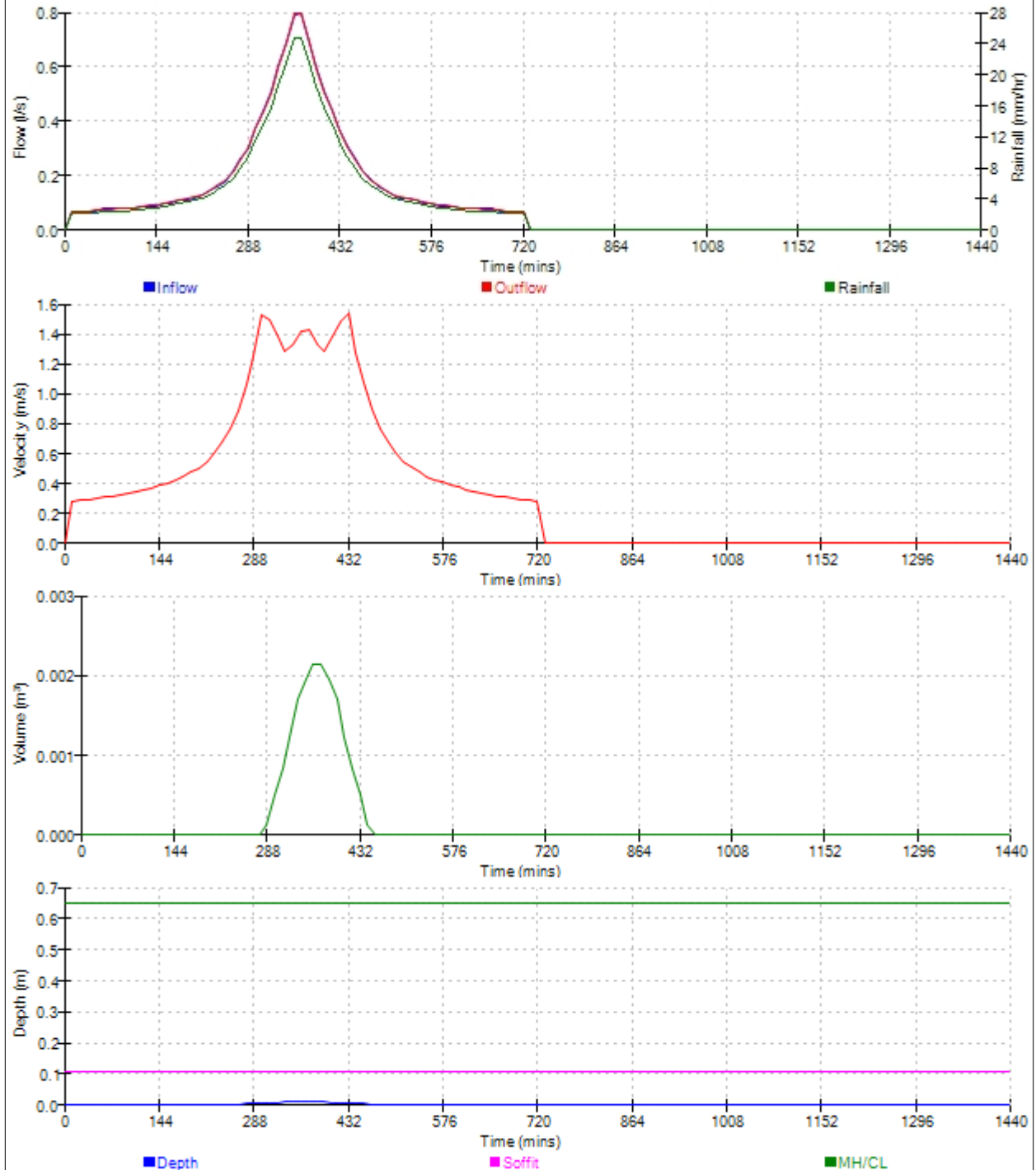


|                               |                         |                                                                                     |
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| 22 St Pancras                 | Surface Water Drainage  |                                                                                     |
| West Sussex PO19 7GD          | Design Simulation Rev03 |                                                                                     |
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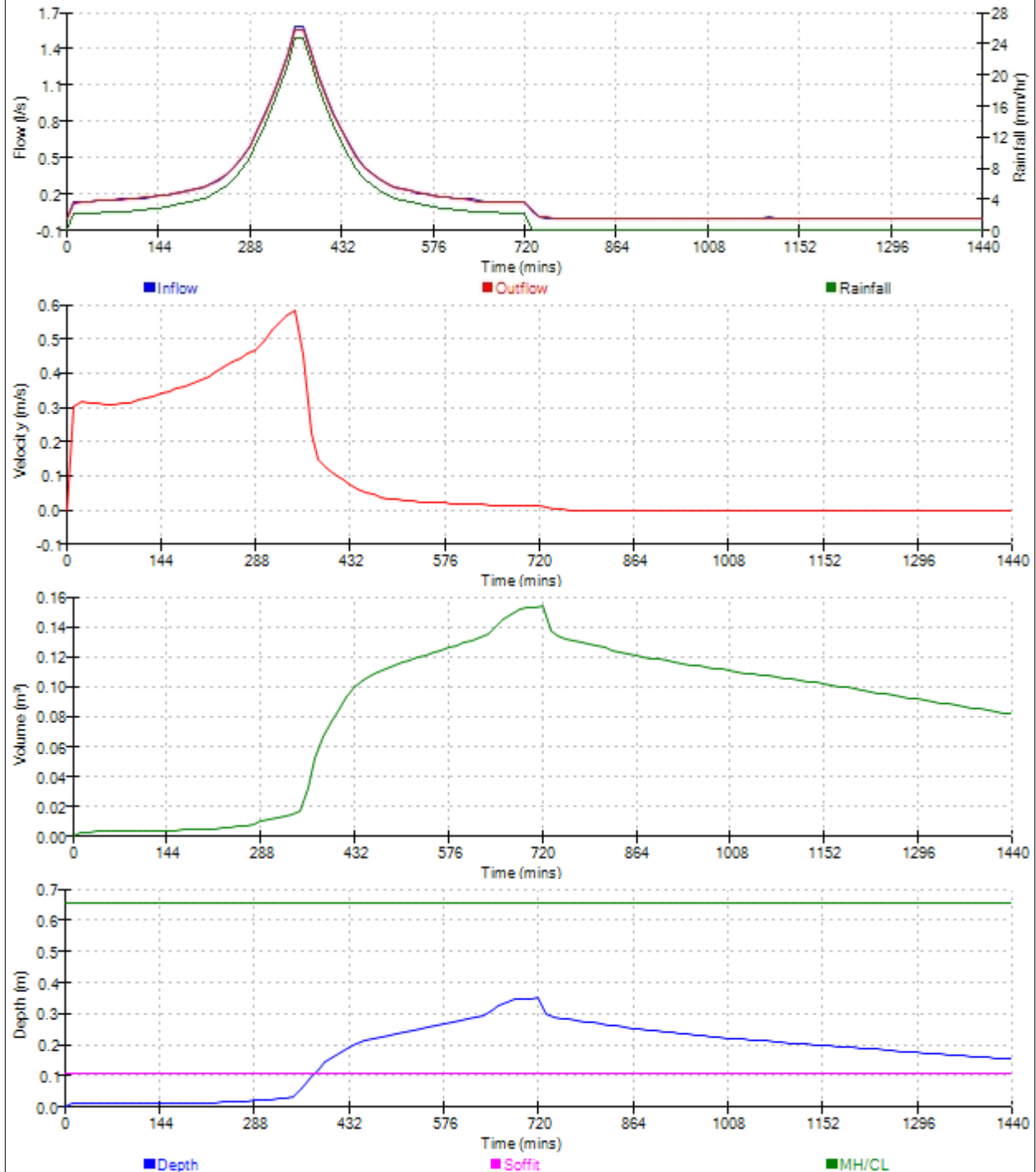
Graphs for Pipe 2.000 US/MH RE2 (Storm)  
720 minute 100 year Summer  
Status: OK



Graphs for Pipe 2.001 US/MH S2 (Storm)  
720 minute 100 year Summer  
Status: OK

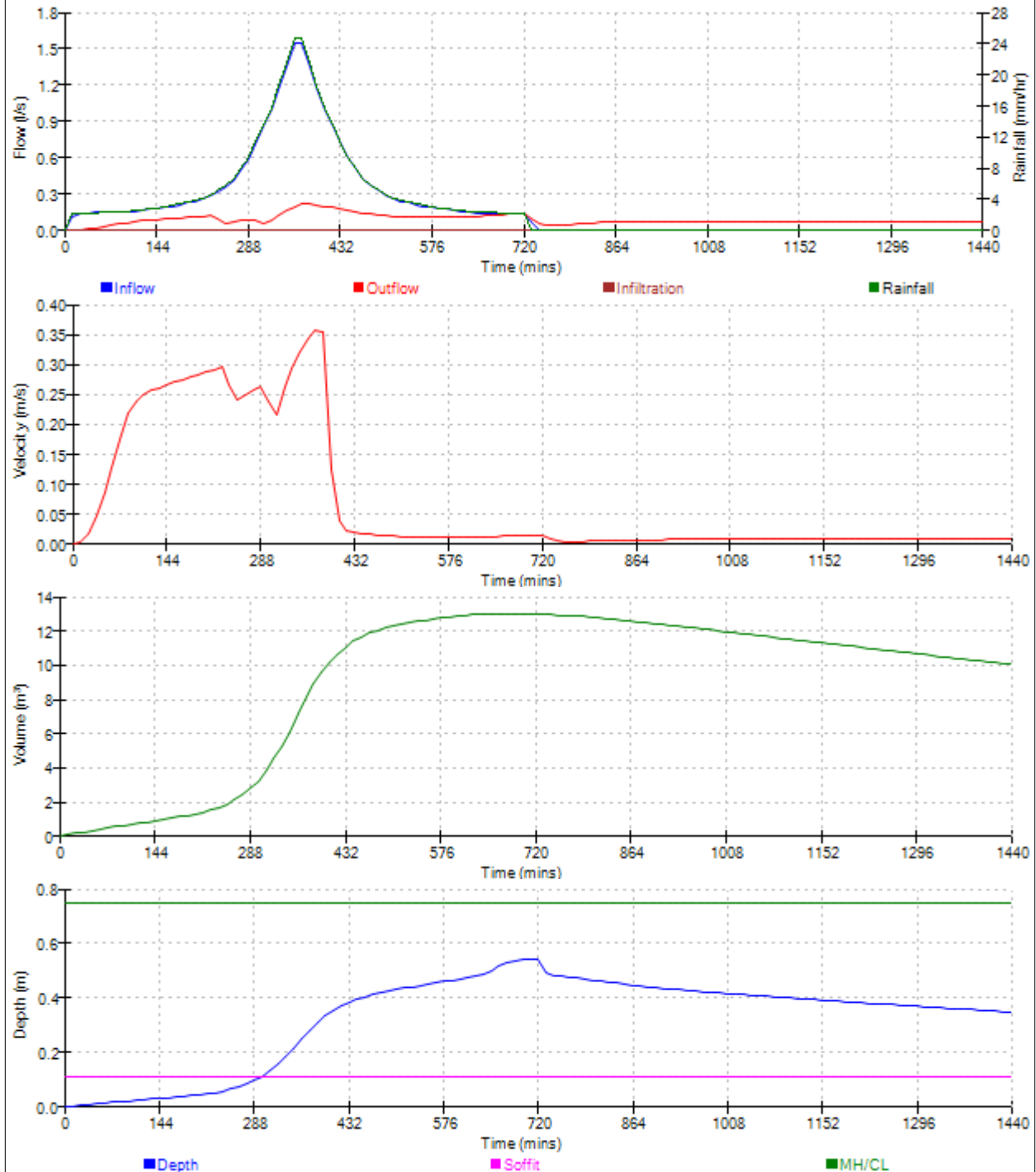


Graphs for Pipe 1.002 US/MH S3 (Storm)  
720 minute 100 year Summer  
Status: SURCHARGED

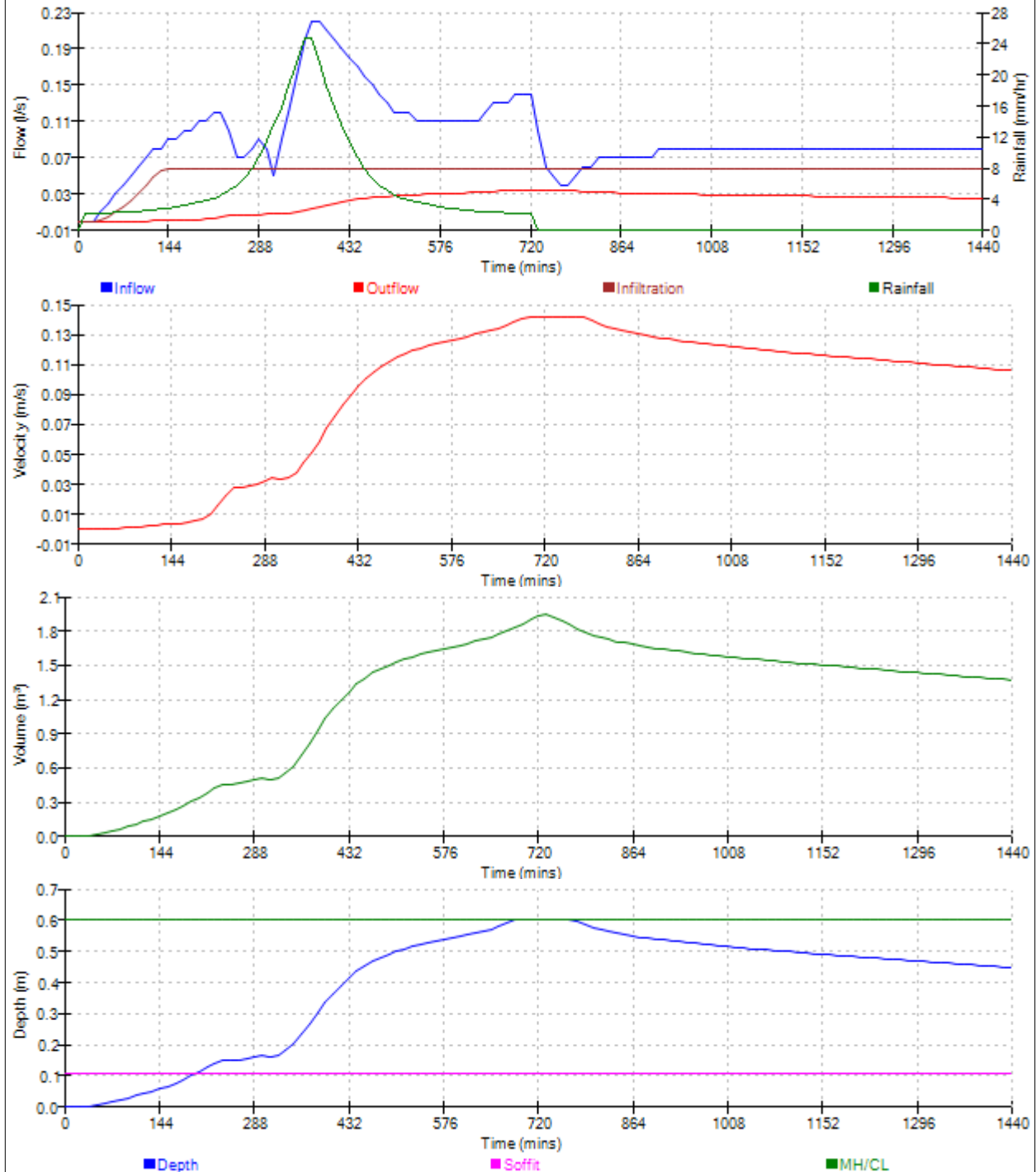


|                                                         |                                                                              |                                                                                     |
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| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Graphs for Pipe 1.003 US/MH S4 (Storm)  
720 minute 100 year Summer  
Status: SURCHARGED



Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
720 minute 100 year Summer  
Status: FLOOD



|                                                         |                                                                              |                                                                                     |
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| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 12             | 65.401                   | 63.499                     | -0.109                     | 0.0            | 0.1                      | 0.0                |
| 24             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.1                      | 0.0                |
| 36             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.1                      | 0.0                |
| 48             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 60             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 72             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 84             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 96             | 65.401                   | 63.500                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 108            | 65.401                   | 63.501                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 120            | 65.401                   | 63.501                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 132            | 65.401                   | 63.501                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 144            | 65.401                   | 63.501                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 156            | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 168            | 65.401                   | 63.502                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 180            | 65.401                   | 63.503                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 192            | 65.401                   | 63.503                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 204            | 65.401                   | 63.504                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 216            | 65.401                   | 63.504                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 228            | 65.401                   | 63.505                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 240            | 65.402                   | 63.506                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 252            | 65.402                   | 63.506                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 264            | 65.402                   | 63.507                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 276            | 65.403                   | 63.508                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 288            | 65.403                   | 63.509                     | -0.107                     | 0.0            | 0.6                      | 0.2                |
| 300            | 65.404                   | 63.511                     | -0.106                     | 0.0            | 0.8                      | 0.2                |
| 312            | 65.404                   | 63.512                     | -0.106                     | 0.0            | 0.9                      | 0.2                |
| 324            | 65.405                   | 63.514                     | -0.105                     | 0.0            | 1.0                      | 0.3                |
| 336            | 65.406                   | 63.516                     | -0.104                     | 0.0            | 1.2                      | 0.3                |
| 348            | 65.407                   | 63.518                     | -0.103                     | 0.0            | 1.4                      | 0.3                |
| 360            | 65.408                   | 63.519                     | -0.102                     | 0.0            | 1.3                      | 0.4                |
| 372            | 65.408                   | 63.539                     | -0.102                     | 0.0            | 1.3                      | 0.4                |
| 384            | 65.407                   | 63.567                     | -0.103                     | 0.0            | 1.4                      | 0.3                |
| 396            | 65.406                   | 63.590                     | -0.104                     | 0.0            | 1.2                      | 0.3                |
| 408            | 65.405                   | 63.609                     | -0.105                     | 0.0            | 1.0                      | 0.3                |
| 420            | 65.404                   | 63.625                     | -0.106                     | 0.0            | 0.9                      | 0.2                |
| 432            | 65.404                   | 63.639                     | -0.106                     | 0.0            | 0.8                      | 0.2                |
| 444            | 65.403                   | 63.649                     | -0.107                     | 0.0            | 0.6                      | 0.2                |
| 456            | 65.403                   | 63.657                     | -0.107                     | 0.0            | 0.5                      | 0.1                |
| 468            | 65.402                   | 63.665                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 480            | 65.402                   | 63.671                     | -0.108                     | 0.0            | 0.4                      | 0.1                |
| 492            | 65.402                   | 63.677                     | -0.108                     | 0.0            | 0.3                      | 0.1                |
| 504            | 65.401                   | 63.683                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 516            | 65.401                   | 63.688                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 528            | 65.401                   | 63.693                     | -0.109                     | 0.0            | 0.3                      | 0.1                |
| 540            | 65.401                   | 63.698                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 552            | 65.401                   | 63.703                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 564            | 65.401                   | 63.707                     | -0.109                     | 0.0            | 0.2                      | 0.1                |
| 576            | 65.401                   | 63.712                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 588            | 65.401                   | 63.717                     | -0.109                     | 0.0            | 0.2                      | 0.0                |
| 600            | 65.401                   | 63.722                     | -0.109                     | 0.0            | 0.2                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 16                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 612            | 65.401                   | 63.728                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 624            | 65.401                   | 63.734                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 636            | 65.401                   | 63.740                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 648            | 65.401                   | 63.753                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 660            | 65.401                   | 63.769                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 672            | 65.401                   | 63.780                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 684            | 65.401                   | 63.789                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 696            | 65.401                   | 63.792                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 708            | 65.401                   | 63.793                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 720            | 65.401                   | 63.795                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 732            | 65.400                   | 63.744                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 744            | 65.400                   | 63.734                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 756            | 65.400                   | 63.729                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 768            | 65.400                   | 63.725                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 780            | 65.400                   | 63.723                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 792            | 65.400                   | 63.719                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 804            | 65.400                   | 63.715                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 816            | 65.400                   | 63.711                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 828            | 65.400                   | 63.708                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 840            | 65.400                   | 63.704                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 852            | 65.400                   | 63.701                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 864            | 65.400                   | 63.697                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 876            | 65.400                   | 63.694                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 888            | 65.400                   | 63.691                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 900            | 65.400                   | 63.688                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 912            | 65.400                   | 63.686                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 924            | 65.400                   | 63.683                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 936            | 65.400                   | 63.681                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 948            | 65.400                   | 63.678                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 960            | 65.400                   | 63.676                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 972            | 65.400                   | 63.673                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 984            | 65.400                   | 63.670                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 996            | 65.400                   | 63.668                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1008           | 65.400                   | 63.666                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1020           | 65.400                   | 63.663                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1032           | 65.400                   | 63.661                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1044           | 65.400                   | 63.659                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1056           | 65.400                   | 63.657                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1068           | 65.400                   | 63.656                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1080           | 65.400                   | 63.653                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1092           | 65.400                   | 63.651                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1104           | 65.400                   | 63.650                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1116           | 65.400                   | 63.648                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1128           | 65.400                   | 63.646                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1140           | 65.400                   | 63.644                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1152           | 65.400                   | 63.642                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1164           | 65.400                   | 63.640                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1176           | 65.400                   | 63.638                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1188           | 65.400                   | 63.637                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1200           | 65.400                   | 63.635                     | -0.110                     | 0.0                | 0.0               | 0.0                |

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|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 17                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 65.400                   | 63.633                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1224           | 65.400                   | 63.631                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1236           | 65.400                   | 63.629                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1248           | 65.400                   | 63.627                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1260           | 65.400                   | 63.625                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1272           | 65.400                   | 63.623                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1284           | 65.400                   | 63.622                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1296           | 65.400                   | 63.620                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1308           | 65.400                   | 63.618                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1320           | 65.400                   | 63.616                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1332           | 65.400                   | 63.614                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1344           | 65.400                   | 63.613                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1356           | 65.400                   | 63.611                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1368           | 65.400                   | 63.609                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1380           | 65.400                   | 63.607                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1392           | 65.400                   | 63.605                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1404           | 65.400                   | 63.603                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1416           | 65.400                   | 63.601                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1428           | 65.400                   | 63.600                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1440           | 65.400                   | 63.598                     | -0.110                     | 0.0                | 0.0               | 0.0                |



|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 19                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 612            | 63.728                   | 63.727                     | 0.124                      | 0.0            | 0.0                      | 0.1                |
| 624            | 63.734                   | 63.733                     | 0.129                      | 0.0            | 0.0                      | 0.1                |
| 636            | 63.740                   | 63.740                     | 0.136                      | 0.0            | 0.0                      | 0.1                |
| 648            | 63.753                   | 63.753                     | 0.149                      | 0.0            | 0.0                      | 0.1                |
| 660            | 63.769                   | 63.769                     | 0.165                      | 0.0            | 0.0                      | 0.1                |
| 672            | 63.780                   | 63.780                     | 0.176                      | 0.0            | 0.0                      | 0.1                |
| 684            | 63.789                   | 63.789                     | 0.185                      | 0.0            | 0.0                      | 0.1                |
| 696            | 63.792                   | 63.791                     | 0.188                      | 0.0            | 0.0                      | 0.1                |
| 708            | 63.793                   | 63.793                     | 0.189                      | 0.0            | 0.0                      | 0.1                |
| 720            | 63.795                   | 63.795                     | 0.191                      | 0.0            | 0.0                      | 0.1                |
| 732            | 63.744                   | 63.744                     | 0.140                      | 0.0            | 0.0                      | 0.0                |
| 744            | 63.734                   | 63.734                     | 0.130                      | 0.0            | 0.0                      | 0.0                |
| 756            | 63.729                   | 63.729                     | 0.125                      | 0.0            | 0.0                      | 0.0                |
| 768            | 63.725                   | 63.725                     | 0.121                      | 0.0            | 0.0                      | 0.0                |
| 780            | 63.723                   | 63.723                     | 0.119                      | 0.0            | 0.0                      | 0.0                |
| 792            | 63.719                   | 63.719                     | 0.115                      | 0.0            | 0.0                      | 0.0                |
| 804            | 63.715                   | 63.715                     | 0.111                      | 0.0            | 0.0                      | 0.0                |
| 816            | 63.711                   | 63.711                     | 0.107                      | 0.0            | 0.0                      | 0.0                |
| 828            | 63.708                   | 63.708                     | 0.104                      | 0.0            | 0.0                      | 0.0                |
| 840            | 63.704                   | 63.704                     | 0.100                      | 0.0            | 0.0                      | 0.0                |
| 852            | 63.701                   | 63.701                     | 0.097                      | 0.0            | 0.0                      | 0.0                |
| 864            | 63.697                   | 63.697                     | 0.093                      | 0.0            | 0.0                      | 0.0                |
| 876            | 63.694                   | 63.694                     | 0.090                      | 0.0            | 0.0                      | 0.0                |
| 888            | 63.691                   | 63.691                     | 0.087                      | 0.0            | 0.0                      | 0.0                |
| 900            | 63.688                   | 63.688                     | 0.084                      | 0.0            | 0.0                      | 0.0                |
| 912            | 63.686                   | 63.685                     | 0.081                      | 0.0            | 0.0                      | 0.0                |
| 924            | 63.683                   | 63.683                     | 0.079                      | 0.0            | 0.0                      | 0.0                |
| 936            | 63.681                   | 63.681                     | 0.077                      | 0.0            | 0.0                      | 0.0                |
| 948            | 63.678                   | 63.678                     | 0.074                      | 0.0            | 0.0                      | 0.0                |
| 960            | 63.676                   | 63.676                     | 0.072                      | 0.0            | 0.0                      | 0.0                |
| 972            | 63.673                   | 63.673                     | 0.069                      | 0.0            | 0.0                      | 0.0                |
| 984            | 63.670                   | 63.671                     | 0.066                      | 0.0            | 0.0                      | 0.0                |
| 996            | 63.668                   | 63.669                     | 0.064                      | 0.0            | 0.0                      | 0.0                |
| 1008           | 63.666                   | 63.666                     | 0.061                      | 0.0            | 0.0                      | 0.0                |
| 1020           | 63.663                   | 63.664                     | 0.059                      | 0.0            | 0.0                      | 0.0                |
| 1032           | 63.661                   | 63.662                     | 0.057                      | 0.0            | 0.0                      | 0.0                |
| 1044           | 63.659                   | 63.659                     | 0.055                      | 0.0            | 0.0                      | 0.0                |
| 1056           | 63.657                   | 63.657                     | 0.053                      | 0.0            | 0.0                      | 0.0                |
| 1068           | 63.656                   | 63.656                     | 0.052                      | 0.0            | 0.0                      | 0.0                |
| 1080           | 63.653                   | 63.654                     | 0.049                      | 0.0            | 0.0                      | 0.0                |
| 1092           | 63.651                   | 63.651                     | 0.047                      | 0.0            | 0.0                      | 0.0                |
| 1104           | 63.650                   | 63.650                     | 0.046                      | 0.0            | 0.0                      | 0.0                |
| 1116           | 63.648                   | 63.648                     | 0.044                      | 0.0            | 0.0                      | 0.0                |
| 1128           | 63.646                   | 63.646                     | 0.042                      | 0.0            | 0.0                      | 0.0                |
| 1140           | 63.644                   | 63.644                     | 0.040                      | 0.0            | 0.0                      | 0.0                |
| 1152           | 63.642                   | 63.642                     | 0.038                      | 0.0            | 0.0                      | 0.0                |
| 1164           | 63.640                   | 63.640                     | 0.036                      | 0.0            | 0.0                      | 0.0                |
| 1176           | 63.638                   | 63.639                     | 0.034                      | 0.0            | 0.0                      | 0.0                |
| 1188           | 63.637                   | 63.637                     | 0.032                      | 0.0            | 0.0                      | 0.0                |
| 1200           | 63.635                   | 63.635                     | 0.031                      | 0.0            | 0.0                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 20                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 63.633                   | 63.633                     | 0.029                      | 0.0                | 0.0               | 0.0                |
| 1224           | 63.631                   | 63.631                     | 0.027                      | 0.0                | 0.0               | 0.0                |
| 1236           | 63.629                   | 63.629                     | 0.025                      | 0.0                | 0.0               | 0.0                |
| 1248           | 63.627                   | 63.627                     | 0.023                      | 0.0                | 0.0               | 0.0                |
| 1260           | 63.625                   | 63.626                     | 0.021                      | 0.0                | 0.0               | 0.0                |
| 1272           | 63.623                   | 63.624                     | 0.019                      | 0.0                | 0.0               | 0.0                |
| 1284           | 63.622                   | 63.622                     | 0.018                      | 0.0                | 0.0               | 0.0                |
| 1296           | 63.620                   | 63.620                     | 0.016                      | 0.0                | 0.0               | 0.0                |
| 1308           | 63.618                   | 63.618                     | 0.014                      | 0.0                | 0.0               | 0.0                |
| 1320           | 63.616                   | 63.616                     | 0.012                      | 0.0                | 0.0               | 0.0                |
| 1332           | 63.614                   | 63.614                     | 0.010                      | 0.0                | 0.0               | 0.0                |
| 1344           | 63.613                   | 63.613                     | 0.009                      | 0.0                | 0.0               | 0.0                |
| 1356           | 63.611                   | 63.611                     | 0.007                      | 0.0                | 0.0               | 0.0                |
| 1368           | 63.609                   | 63.609                     | 0.005                      | 0.0                | 0.0               | 0.0                |
| 1380           | 63.607                   | 63.607                     | 0.003                      | 0.0                | 0.0               | 0.0                |
| 1392           | 63.605                   | 63.605                     | 0.001                      | 0.0                | 0.0               | 0.0                |
| 1404           | 63.603                   | 63.603                     | -0.001                     | 0.0                | 0.0               | 0.0                |
| 1416           | 63.601                   | 63.602                     | -0.003                     | 0.0                | 0.0               | 0.0                |
| 1428           | 63.600                   | 63.600                     | -0.005                     | 0.0                | 0.0               | 0.0                |
| 1440           | 63.598                   | 63.598                     | -0.006                     | 0.0                | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 21                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 12             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 24             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 36             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 48             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 60             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 72             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 84             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 96             | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 108            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 120            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 132            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 144            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 156            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 168            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.1                |
| 180            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.1                |
| 192            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.1                |
| 204            | 65.402                   | 65.002                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 216            | 65.402                   | 65.002                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 228            | 65.402                   | 65.003                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 240            | 65.402                   | 65.003                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 252            | 65.402                   | 65.003                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 264            | 65.403                   | 65.004                     | -0.107                     | 0.0                | 0.4               | 0.1                |
| 276            | 65.403                   | 65.005                     | -0.107                     | 0.0                | 0.5               | 0.1                |
| 288            | 65.404                   | 65.005                     | -0.106                     | 0.0                | 0.6               | 0.2                |
| 300            | 65.405                   | 65.007                     | -0.105                     | 0.0                | 0.8               | 0.2                |
| 312            | 65.405                   | 65.008                     | -0.105                     | 0.0                | 0.9               | 0.2                |
| 324            | 65.406                   | 65.009                     | -0.104                     | 0.0                | 1.0               | 0.3                |
| 336            | 65.408                   | 65.011                     | -0.102                     | 0.0                | 1.1               | 0.3                |
| 348            | 65.409                   | 65.011                     | -0.101                     | 0.0                | 1.0               | 0.3                |
| 360            | 65.410                   | 65.012                     | -0.100                     | 0.0                | 0.9               | 0.4                |
| 372            | 65.410                   | 65.012                     | -0.100                     | 0.0                | 0.9               | 0.4                |
| 384            | 65.409                   | 65.011                     | -0.101                     | 0.0                | 1.0               | 0.3                |
| 396            | 65.408                   | 65.011                     | -0.102                     | 0.0                | 1.1               | 0.3                |
| 408            | 65.406                   | 65.009                     | -0.104                     | 0.0                | 1.0               | 0.3                |
| 420            | 65.405                   | 65.008                     | -0.105                     | 0.0                | 0.9               | 0.2                |
| 432            | 65.405                   | 65.007                     | -0.105                     | 0.0                | 0.8               | 0.2                |
| 444            | 65.404                   | 65.005                     | -0.106                     | 0.0                | 0.6               | 0.2                |
| 456            | 65.403                   | 65.005                     | -0.107                     | 0.0                | 0.5               | 0.1                |
| 468            | 65.403                   | 65.004                     | -0.107                     | 0.0                | 0.4               | 0.1                |
| 480            | 65.402                   | 65.003                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 492            | 65.402                   | 65.003                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 504            | 65.402                   | 65.003                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 516            | 65.402                   | 65.002                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 528            | 65.402                   | 65.002                     | -0.108                     | 0.0                | 0.3               | 0.1                |
| 540            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.1                |
| 552            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.1                |
| 564            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.1                |
| 576            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 588            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 600            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 22                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 612            | 65.401                   | 65.002                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 624            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 636            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 648            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 660            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 672            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 684            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.2               | 0.0                |
| 696            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 708            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 720            | 65.401                   | 65.001                     | -0.109                     | 0.0                | 0.1               | 0.0                |
| 732            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 744            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 756            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 768            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 780            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 792            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 804            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 816            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 828            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 840            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 852            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 864            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 876            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 888            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 900            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 912            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 924            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 936            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 948            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 960            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 972            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 984            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 996            | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1008           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1020           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1032           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1044           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1056           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1068           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1080           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1092           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1104           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1116           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1128           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1140           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1152           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1164           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1176           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1188           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1200           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 23                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1224           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1236           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1248           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1260           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1272           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1284           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1296           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1308           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1320           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1332           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1344           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1356           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1368           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1380           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1392           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1404           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1416           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1428           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1440           | 65.400                   | 65.000                     | -0.110                     | 0.0                | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 24                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 12             | 65.001                   | 63.454                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 24             | 65.001                   | 63.454                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 36             | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 48             | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 60             | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 72             | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 84             | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 96             | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 108            | 65.001                   | 63.455                     | -0.109                     | 0.0                | 0.3               | 0.1                |
| 120            | 65.002                   | 63.456                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 132            | 65.002                   | 63.456                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 144            | 65.002                   | 63.456                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 156            | 65.002                   | 63.456                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 168            | 65.002                   | 63.456                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 180            | 65.002                   | 63.457                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 192            | 65.002                   | 63.457                     | -0.108                     | 0.0                | 0.5               | 0.1                |
| 204            | 65.002                   | 63.457                     | -0.108                     | 0.0                | 0.5               | 0.1                |
| 216            | 65.002                   | 63.458                     | -0.108                     | 0.0                | 0.5               | 0.1                |
| 228            | 65.003                   | 63.458                     | -0.107                     | 0.0                | 0.6               | 0.1                |
| 240            | 65.003                   | 63.459                     | -0.107                     | 0.0                | 0.7               | 0.2                |
| 252            | 65.003                   | 63.460                     | -0.107                     | 0.0                | 0.8               | 0.2                |
| 264            | 65.004                   | 63.462                     | -0.106                     | 0.0                | 0.9               | 0.2                |
| 276            | 65.005                   | 63.463                     | -0.105                     | 0.0                | 1.1               | 0.3                |
| 288            | 65.005                   | 63.466                     | -0.105                     | 0.0                | 1.3               | 0.3                |
| 300            | 65.007                   | 63.468                     | -0.103                     | 0.0                | 1.5               | 0.4                |
| 312            | 65.008                   | 63.470                     | -0.102                     | 0.0                | 1.5               | 0.4                |
| 324            | 65.009                   | 63.472                     | -0.101                     | 0.0                | 1.4               | 0.5                |
| 336            | 65.011                   | 63.474                     | -0.099                     | 0.0                | 1.3               | 0.6                |
| 348            | 65.011                   | 63.477                     | -0.099                     | 0.0                | 1.3               | 0.7                |
| 360            | 65.012                   | 63.503                     | -0.098                     | 0.0                | 1.4               | 0.8                |
| 372            | 65.012                   | 63.536                     | -0.098                     | 0.0                | 1.4               | 0.8                |
| 384            | 65.011                   | 63.564                     | -0.099                     | 0.0                | 1.3               | 0.7                |
| 396            | 65.011                   | 63.587                     | -0.099                     | 0.0                | 1.3               | 0.6                |
| 408            | 65.009                   | 63.607                     | -0.101                     | 0.0                | 1.4               | 0.5                |
| 420            | 65.008                   | 63.623                     | -0.102                     | 0.0                | 1.5               | 0.4                |
| 432            | 65.007                   | 63.637                     | -0.103                     | 0.0                | 1.5               | 0.4                |
| 444            | 65.005                   | 63.648                     | -0.105                     | 0.0                | 1.3               | 0.3                |
| 456            | 65.005                   | 63.656                     | -0.105                     | 0.0                | 1.1               | 0.3                |
| 468            | 65.004                   | 63.664                     | -0.106                     | 0.0                | 0.9               | 0.2                |
| 480            | 65.003                   | 63.671                     | -0.107                     | 0.0                | 0.8               | 0.2                |
| 492            | 65.003                   | 63.676                     | -0.107                     | 0.0                | 0.7               | 0.2                |
| 504            | 65.003                   | 63.682                     | -0.107                     | 0.0                | 0.6               | 0.1                |
| 516            | 65.002                   | 63.687                     | -0.108                     | 0.0                | 0.5               | 0.1                |
| 528            | 65.002                   | 63.692                     | -0.108                     | 0.0                | 0.5               | 0.1                |
| 540            | 65.002                   | 63.697                     | -0.108                     | 0.0                | 0.5               | 0.1                |
| 552            | 65.002                   | 63.702                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 564            | 65.002                   | 63.707                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 576            | 65.002                   | 63.712                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 588            | 65.002                   | 63.717                     | -0.108                     | 0.0                | 0.4               | 0.1                |
| 600            | 65.002                   | 63.722                     | -0.108                     | 0.0                | 0.4               | 0.1                |



|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 26                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 65.000                   | 63.633                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1224           | 65.000                   | 63.631                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1236           | 65.000                   | 63.629                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1248           | 65.000                   | 63.627                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1260           | 65.000                   | 63.626                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1272           | 65.000                   | 63.624                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1284           | 65.000                   | 63.622                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1296           | 65.000                   | 63.620                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1308           | 65.000                   | 63.618                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1320           | 65.000                   | 63.616                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1332           | 65.000                   | 63.614                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1344           | 65.000                   | 63.613                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1356           | 65.000                   | 63.611                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1368           | 65.000                   | 63.609                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1380           | 65.000                   | 63.607                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1392           | 65.000                   | 63.605                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1404           | 65.000                   | 63.603                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1416           | 65.000                   | 63.602                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1428           | 65.000                   | 63.600                     | -0.110                     | 0.0                | 0.0               | 0.0                |
| 1440           | 65.000                   | 63.598                     | -0.110                     | 0.0                | 0.0               | 0.0                |





|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 29                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 63.633                   | 63.633                     | 0.079                      | 0.0                | 0.0               | 0.0                |
| 1224           | 63.631                   | 63.631                     | 0.077                      | 0.0                | 0.0               | 0.0                |
| 1236           | 63.629                   | 63.629                     | 0.075                      | 0.0                | 0.0               | 0.0                |
| 1248           | 63.627                   | 63.628                     | 0.073                      | 0.0                | 0.0               | 0.0                |
| 1260           | 63.626                   | 63.626                     | 0.071                      | 0.0                | 0.0               | 0.0                |
| 1272           | 63.624                   | 63.624                     | 0.069                      | 0.0                | 0.0               | 0.0                |
| 1284           | 63.622                   | 63.622                     | 0.068                      | 0.0                | 0.0               | 0.0                |
| 1296           | 63.620                   | 63.620                     | 0.066                      | 0.0                | 0.0               | 0.0                |
| 1308           | 63.618                   | 63.618                     | 0.064                      | 0.0                | 0.0               | 0.0                |
| 1320           | 63.616                   | 63.616                     | 0.062                      | 0.0                | 0.0               | 0.0                |
| 1332           | 63.614                   | 63.615                     | 0.060                      | 0.0                | 0.0               | 0.0                |
| 1344           | 63.613                   | 63.613                     | 0.058                      | 0.0                | 0.0               | 0.0                |
| 1356           | 63.611                   | 63.611                     | 0.057                      | 0.0                | 0.0               | 0.0                |
| 1368           | 63.609                   | 63.609                     | 0.055                      | 0.0                | 0.0               | 0.0                |
| 1380           | 63.607                   | 63.607                     | 0.053                      | 0.0                | 0.0               | 0.0                |
| 1392           | 63.605                   | 63.605                     | 0.051                      | 0.0                | 0.0               | 0.0                |
| 1404           | 63.603                   | 63.604                     | 0.049                      | 0.0                | 0.0               | 0.0                |
| 1416           | 63.602                   | 63.602                     | 0.048                      | 0.0                | 0.0               | 0.0                |
| 1428           | 63.600                   | 63.600                     | 0.046                      | 0.0                | 0.0               | 0.0                |
| 1440           | 63.598                   | 63.598                     | 0.044                      | 0.0                | 0.0               | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 30                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road, Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 12             | 63.253                   | 63.100                     | -0.107                     | 0.0                | 0.0               | 0.0                |
| 24             | 63.256                   | 63.101                     | -0.104                     | 0.0                | 0.0               | 0.0                |
| 36             | 63.259                   | 63.103                     | -0.101                     | 0.0                | 0.0               | 0.0                |
| 48             | 63.262                   | 63.106                     | -0.098                     | 0.0                | 0.1               | 0.0                |
| 60             | 63.265                   | 63.110                     | -0.095                     | 0.0                | 0.1               | 0.0                |
| 72             | 63.268                   | 63.116                     | -0.092                     | 0.0                | 0.2               | 0.0                |
| 84             | 63.270                   | 63.123                     | -0.090                     | 0.0                | 0.2               | 0.1                |
| 96             | 63.273                   | 63.130                     | -0.087                     | 0.0                | 0.2               | 0.1                |
| 108            | 63.275                   | 63.138                     | -0.085                     | 0.0                | 0.2               | 0.1                |
| 120            | 63.277                   | 63.145                     | -0.083                     | 0.0                | 0.3               | 0.1                |
| 132            | 63.279                   | 63.151                     | -0.081                     | 0.0                | 0.3               | 0.1                |
| 144            | 63.282                   | 63.159                     | -0.078                     | 0.0                | 0.3               | 0.1                |
| 156            | 63.284                   | 63.167                     | -0.076                     | 0.0                | 0.3               | 0.1                |
| 168            | 63.287                   | 63.176                     | -0.073                     | 0.0                | 0.3               | 0.1                |
| 180            | 63.290                   | 63.189                     | -0.070                     | 0.0                | 0.3               | 0.1                |
| 192            | 63.293                   | 63.201                     | -0.067                     | 0.0                | 0.3               | 0.1                |
| 204            | 63.296                   | 63.213                     | -0.064                     | 0.0                | 0.3               | 0.1                |
| 216            | 63.299                   | 63.227                     | -0.061                     | 0.0                | 0.3               | 0.1                |
| 228            | 63.303                   | 63.241                     | -0.057                     | 0.0                | 0.3               | 0.1                |
| 240            | 63.309                   | 63.251                     | -0.051                     | 0.0                | 0.3               | 0.1                |
| 252            | 63.316                   | 63.251                     | -0.044                     | 0.0                | 0.2               | 0.1                |
| 264            | 63.325                   | 63.253                     | -0.035                     | 0.0                | 0.2               | 0.1                |
| 276            | 63.335                   | 63.256                     | -0.025                     | 0.0                | 0.3               | 0.1                |
| 288            | 63.348                   | 63.261                     | -0.012                     | 0.0                | 0.3               | 0.1                |
| 300            | 63.363                   | 63.266                     | 0.003                      | 0.0                | 0.2               | 0.1                |
| 312            | 63.385                   | 63.263                     | 0.025                      | 0.0                | 0.2               | 0.1                |
| 324            | 63.408                   | 63.267                     | 0.048                      | 0.0                | 0.3               | 0.1                |
| 336            | 63.434                   | 63.280                     | 0.074                      | 0.0                | 0.3               | 0.1                |
| 348            | 63.463                   | 63.302                     | 0.103                      | 0.0                | 0.3               | 0.2                |
| 360            | 63.498                   | 63.333                     | 0.138                      | 0.0                | 0.3               | 0.2                |
| 372            | 63.531                   | 63.369                     | 0.171                      | 0.0                | 0.4               | 0.2                |
| 384            | 63.559                   | 63.403                     | 0.199                      | 0.0                | 0.4               | 0.2                |
| 396            | 63.584                   | 63.436                     | 0.224                      | 0.0                | 0.1               | 0.2                |
| 408            | 63.604                   | 63.465                     | 0.244                      | 0.0                | 0.0               | 0.2                |
| 420            | 63.621                   | 63.492                     | 0.261                      | 0.0                | 0.0               | 0.2                |
| 432            | 63.635                   | 63.515                     | 0.275                      | 0.0                | 0.0               | 0.2                |
| 444            | 63.646                   | 63.536                     | 0.286                      | 0.0                | 0.0               | 0.2                |
| 456            | 63.655                   | 63.553                     | 0.295                      | 0.0                | 0.0               | 0.2                |
| 468            | 63.662                   | 63.568                     | 0.302                      | 0.0                | 0.0               | 0.1                |
| 480            | 63.669                   | 63.581                     | 0.309                      | 0.0                | 0.0               | 0.1                |
| 492            | 63.675                   | 63.591                     | 0.315                      | 0.0                | 0.0               | 0.1                |
| 504            | 63.681                   | 63.600                     | 0.321                      | 0.0                | 0.0               | 0.1                |
| 516            | 63.686                   | 63.608                     | 0.326                      | 0.0                | 0.0               | 0.1                |
| 528            | 63.692                   | 63.615                     | 0.332                      | 0.0                | 0.0               | 0.1                |
| 540            | 63.697                   | 63.622                     | 0.337                      | 0.0                | 0.0               | 0.1                |
| 552            | 63.701                   | 63.628                     | 0.341                      | 0.0                | 0.0               | 0.1                |
| 564            | 63.706                   | 63.633                     | 0.346                      | 0.0                | 0.0               | 0.1                |
| 576            | 63.711                   | 63.638                     | 0.351                      | 0.0                | 0.0               | 0.1                |
| 588            | 63.716                   | 63.643                     | 0.356                      | 0.0                | 0.0               | 0.1                |
| 600            | 63.721                   | 63.649                     | 0.361                      | 0.0                | 0.0               | 0.1                |



|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 32                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 63.633                   | 63.582                     | 0.273                      | 0.0                | 0.0               | 0.1                |
| 1224           | 63.631                   | 63.580                     | 0.271                      | 0.0                | 0.0               | 0.1                |
| 1236           | 63.629                   | 63.578                     | 0.269                      | 0.0                | 0.0               | 0.1                |
| 1248           | 63.628                   | 63.577                     | 0.268                      | 0.0                | 0.0               | 0.1                |
| 1260           | 63.626                   | 63.575                     | 0.266                      | 0.0                | 0.0               | 0.1                |
| 1272           | 63.624                   | 63.573                     | 0.264                      | 0.0                | 0.0               | 0.1                |
| 1284           | 63.622                   | 63.571                     | 0.262                      | 0.0                | 0.0               | 0.1                |
| 1296           | 63.620                   | 63.569                     | 0.260                      | 0.0                | 0.0               | 0.1                |
| 1308           | 63.618                   | 63.568                     | 0.258                      | 0.0                | 0.0               | 0.1                |
| 1320           | 63.616                   | 63.566                     | 0.256                      | 0.0                | 0.0               | 0.1                |
| 1332           | 63.615                   | 63.564                     | 0.255                      | 0.0                | 0.0               | 0.1                |
| 1344           | 63.613                   | 63.562                     | 0.253                      | 0.0                | 0.0               | 0.1                |
| 1356           | 63.611                   | 63.561                     | 0.251                      | 0.0                | 0.0               | 0.1                |
| 1368           | 63.609                   | 63.559                     | 0.249                      | 0.0                | 0.0               | 0.1                |
| 1380           | 63.607                   | 63.557                     | 0.247                      | 0.0                | 0.0               | 0.1                |
| 1392           | 63.605                   | 63.555                     | 0.245                      | 0.0                | 0.0               | 0.1                |
| 1404           | 63.604                   | 63.553                     | 0.244                      | 0.0                | 0.0               | 0.1                |
| 1416           | 63.602                   | 63.552                     | 0.242                      | 0.0                | 0.0               | 0.1                |
| 1428           | 63.600                   | 63.550                     | 0.240                      | 0.0                | 0.0               | 0.1                |
| 1440           | 63.598                   | 63.548                     | 0.238                      | 0.0                | 0.0               | 0.1                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 33                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 12             | 63.100                   | 63.096                     | -0.110                     | 0.0            | 0.0                      | 0.0                |
| 24             | 63.101                   | 63.096                     | -0.109                     | 0.0            | 0.0                      | 0.0                |
| 36             | 63.103                   | 63.096                     | -0.107                     | 0.0            | 0.0                      | 0.0                |
| 48             | 63.106                   | 63.096                     | -0.104                     | 0.0            | 0.0                      | 0.0                |
| 60             | 63.110                   | 63.096                     | -0.100                     | 0.0            | 0.0                      | 0.0                |
| 72             | 63.116                   | 63.096                     | -0.094                     | 0.0            | 0.0                      | 0.0                |
| 84             | 63.123                   | 63.096                     | -0.087                     | 0.0            | 0.0                      | 0.0                |
| 96             | 63.130                   | 63.096                     | -0.080                     | 0.0            | 0.0                      | 0.0                |
| 108            | 63.138                   | 63.096                     | -0.072                     | 0.0            | 0.0                      | 0.0                |
| 120            | 63.145                   | 63.096                     | -0.065                     | 0.0            | 0.0                      | 0.0                |
| 132            | 63.151                   | 63.096                     | -0.059                     | 0.0            | 0.0                      | 0.0                |
| 144            | 63.159                   | 63.096                     | -0.051                     | 0.0            | 0.0                      | 0.0                |
| 156            | 63.167                   | 63.096                     | -0.043                     | 0.0            | 0.0                      | 0.0                |
| 168            | 63.176                   | 63.096                     | -0.034                     | 0.0            | 0.0                      | 0.0                |
| 180            | 63.189                   | 63.096                     | -0.021                     | 0.0            | 0.0                      | 0.0                |
| 192            | 63.201                   | 63.096                     | -0.009                     | 0.0            | 0.0                      | 0.0                |
| 204            | 63.213                   | 63.096                     | 0.003                      | 0.0            | 0.0                      | 0.0                |
| 216            | 63.227                   | 63.096                     | 0.017                      | 0.0            | 0.0                      | 0.0                |
| 228            | 63.241                   | 63.096                     | 0.031                      | 0.0            | 0.0                      | 0.0                |
| 240            | 63.251                   | 63.096                     | 0.041                      | 0.0            | 0.0                      | 0.0                |
| 252            | 63.251                   | 63.096                     | 0.041                      | 0.0            | 0.0                      | 0.0                |
| 264            | 63.253                   | 63.096                     | 0.043                      | 0.0            | 0.0                      | 0.0                |
| 276            | 63.256                   | 63.096                     | 0.046                      | 0.0            | 0.0                      | 0.0                |
| 288            | 63.261                   | 63.096                     | 0.051                      | 0.0            | 0.0                      | 0.0                |
| 300            | 63.266                   | 63.096                     | 0.056                      | 0.0            | 0.0                      | 0.0                |
| 312            | 63.263                   | 63.096                     | 0.053                      | 0.0            | 0.0                      | 0.0                |
| 324            | 63.267                   | 63.096                     | 0.057                      | 0.0            | 0.0                      | 0.0                |
| 336            | 63.280                   | 63.096                     | 0.070                      | 0.0            | 0.0                      | 0.0                |
| 348            | 63.302                   | 63.096                     | 0.092                      | 0.0            | 0.0                      | 0.0                |
| 360            | 63.333                   | 63.096                     | 0.123                      | 0.0            | 0.1                      | 0.0                |
| 372            | 63.369                   | 63.096                     | 0.159                      | 0.0            | 0.1                      | 0.0                |
| 384            | 63.403                   | 63.096                     | 0.193                      | 0.0            | 0.1                      | 0.0                |
| 396            | 63.436                   | 63.096                     | 0.226                      | 0.0            | 0.1                      | 0.0                |
| 408            | 63.465                   | 63.096                     | 0.255                      | 0.0            | 0.1                      | 0.0                |
| 420            | 63.492                   | 63.096                     | 0.282                      | 0.0            | 0.1                      | 0.0                |
| 432            | 63.515                   | 63.096                     | 0.305                      | 0.0            | 0.1                      | 0.0                |
| 444            | 63.536                   | 63.096                     | 0.326                      | 0.0            | 0.1                      | 0.0                |
| 456            | 63.553                   | 63.096                     | 0.343                      | 0.0            | 0.1                      | 0.0                |
| 468            | 63.568                   | 63.096                     | 0.358                      | 0.0            | 0.1                      | 0.0                |
| 480            | 63.581                   | 63.096                     | 0.371                      | 0.0            | 0.1                      | 0.0                |
| 492            | 63.591                   | 63.096                     | 0.381                      | 0.0            | 0.1                      | 0.0                |
| 504            | 63.600                   | 63.096                     | 0.390                      | 0.0            | 0.1                      | 0.0                |
| 516            | 63.608                   | 63.096                     | 0.398                      | 0.0            | 0.1                      | 0.0                |
| 528            | 63.615                   | 63.096                     | 0.405                      | 0.0            | 0.1                      | 0.0                |
| 540            | 63.622                   | 63.096                     | 0.412                      | 0.0            | 0.1                      | 0.0                |
| 552            | 63.628                   | 63.096                     | 0.418                      | 0.0            | 0.1                      | 0.0                |
| 564            | 63.633                   | 63.096                     | 0.423                      | 0.0            | 0.1                      | 0.0                |
| 576            | 63.638                   | 63.096                     | 0.428                      | 0.0            | 0.1                      | 0.0                |
| 588            | 63.643                   | 63.096                     | 0.433                      | 0.0            | 0.1                      | 0.0                |
| 600            | 63.649                   | 63.096                     | 0.439                      | 0.0            | 0.1                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 34                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total<br>(l/s) | O/F<br>Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|----------------|--------------------------|--------------------|
| 612            | 63.654                   | 63.096                     | 0.444                      | 0.0            | 0.1                      | 0.0                |
| 624            | 63.659                   | 63.096                     | 0.449                      | 0.0            | 0.1                      | 0.0                |
| 636            | 63.664                   | 63.096                     | 0.454                      | 0.0            | 0.1                      | 0.0                |
| 648            | 63.671                   | 63.096                     | 0.461                      | 0.0            | 0.1                      | 0.0                |
| 660            | 63.680                   | 63.096                     | 0.470                      | 0.0            | 0.1                      | 0.0                |
| 672            | 63.690                   | 63.096                     | 0.480                      | 0.0            | 0.1                      | 0.0                |
| 684            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 696            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 708            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 720            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 732            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 744            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 756            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 768            | 63.700                   | 63.096                     | 0.490                      | 0.0            | 0.1                      | 0.0                |
| 780            | 63.695                   | 63.096                     | 0.485                      | 0.0            | 0.1                      | 0.0                |
| 792            | 63.684                   | 63.096                     | 0.474                      | 0.0            | 0.1                      | 0.0                |
| 804            | 63.676                   | 63.096                     | 0.466                      | 0.0            | 0.1                      | 0.0                |
| 816            | 63.669                   | 63.096                     | 0.459                      | 0.0            | 0.1                      | 0.0                |
| 828            | 63.663                   | 63.096                     | 0.453                      | 0.0            | 0.1                      | 0.0                |
| 840            | 63.658                   | 63.096                     | 0.448                      | 0.0            | 0.1                      | 0.0                |
| 852            | 63.654                   | 63.096                     | 0.444                      | 0.0            | 0.1                      | 0.0                |
| 864            | 63.650                   | 63.096                     | 0.440                      | 0.0            | 0.1                      | 0.0                |
| 876            | 63.646                   | 63.096                     | 0.436                      | 0.0            | 0.1                      | 0.0                |
| 888            | 63.642                   | 63.096                     | 0.432                      | 0.0            | 0.1                      | 0.0                |
| 900            | 63.639                   | 63.096                     | 0.429                      | 0.0            | 0.1                      | 0.0                |
| 912            | 63.636                   | 63.096                     | 0.426                      | 0.0            | 0.1                      | 0.0                |
| 924            | 63.633                   | 63.096                     | 0.423                      | 0.0            | 0.1                      | 0.0                |
| 936            | 63.631                   | 63.096                     | 0.421                      | 0.0            | 0.1                      | 0.0                |
| 948            | 63.628                   | 63.096                     | 0.418                      | 0.0            | 0.1                      | 0.0                |
| 960            | 63.625                   | 63.096                     | 0.415                      | 0.0            | 0.1                      | 0.0                |
| 972            | 63.623                   | 63.096                     | 0.413                      | 0.0            | 0.1                      | 0.0                |
| 984            | 63.620                   | 63.096                     | 0.410                      | 0.0            | 0.1                      | 0.0                |
| 996            | 63.618                   | 63.096                     | 0.408                      | 0.0            | 0.1                      | 0.0                |
| 1008           | 63.615                   | 63.096                     | 0.405                      | 0.0            | 0.1                      | 0.0                |
| 1020           | 63.613                   | 63.096                     | 0.403                      | 0.0            | 0.1                      | 0.0                |
| 1032           | 63.611                   | 63.096                     | 0.401                      | 0.0            | 0.1                      | 0.0                |
| 1044           | 63.609                   | 63.096                     | 0.399                      | 0.0            | 0.1                      | 0.0                |
| 1056           | 63.606                   | 63.096                     | 0.396                      | 0.0            | 0.1                      | 0.0                |
| 1068           | 63.604                   | 63.096                     | 0.394                      | 0.0            | 0.1                      | 0.0                |
| 1080           | 63.602                   | 63.096                     | 0.392                      | 0.0            | 0.1                      | 0.0                |
| 1092           | 63.600                   | 63.096                     | 0.390                      | 0.0            | 0.1                      | 0.0                |
| 1104           | 63.598                   | 63.096                     | 0.388                      | 0.0            | 0.1                      | 0.0                |
| 1116           | 63.597                   | 63.096                     | 0.387                      | 0.0            | 0.1                      | 0.0                |
| 1128           | 63.595                   | 63.096                     | 0.385                      | 0.0            | 0.1                      | 0.0                |
| 1140           | 63.593                   | 63.096                     | 0.383                      | 0.0            | 0.1                      | 0.0                |
| 1152           | 63.591                   | 63.096                     | 0.381                      | 0.0            | 0.1                      | 0.0                |
| 1164           | 63.589                   | 63.096                     | 0.379                      | 0.0            | 0.1                      | 0.0                |
| 1176           | 63.587                   | 63.096                     | 0.377                      | 0.0            | 0.1                      | 0.0                |
| 1188           | 63.586                   | 63.096                     | 0.376                      | 0.0            | 0.1                      | 0.0                |
| 1200           | 63.584                   | 63.096                     | 0.374                      | 0.0            | 0.1                      | 0.0                |

|                                                         |                                                                              |                                                                                     |
|---------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dixon Hurst Kemp                                        |                                                                              | Page 35                                                                             |
| Victoria Court<br>22 St Pancras<br>West Sussex PO19 7GD | 34 Hurst Road. Hassocks<br>Surface Water Drainage<br>Design Simulation Rev03 |  |
| Date Nov 25                                             | Designed by JS                                                               |                                                                                     |
| File COMBINED ATTENUATION ...                           | Checked by                                                                   |                                                                                     |
| Elstree Computing Ltd                                   | Network W.12.6                                                               |                                                                                     |

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)  
720 minute 100 year Summer  
Average Rainfall Intensity 6.527 mm/hr

| Time<br>(mins) | Upstream<br>Level<br>(m) | Downstream<br>Level<br>(m) | Surcharged<br>Depth<br>(m) | Total O/F<br>(l/s) | Velocity<br>(m/s) | Pipe Flow<br>(l/s) |
|----------------|--------------------------|----------------------------|----------------------------|--------------------|-------------------|--------------------|
| 1212           | 63.582                   | 63.096                     | 0.372                      | 0.0                | 0.1               | 0.0                |
| 1224           | 63.580                   | 63.096                     | 0.370                      | 0.0                | 0.1               | 0.0                |
| 1236           | 63.578                   | 63.096                     | 0.368                      | 0.0                | 0.1               | 0.0                |
| 1248           | 63.577                   | 63.096                     | 0.367                      | 0.0                | 0.1               | 0.0                |
| 1260           | 63.575                   | 63.096                     | 0.365                      | 0.0                | 0.1               | 0.0                |
| 1272           | 63.573                   | 63.096                     | 0.363                      | 0.0                | 0.1               | 0.0                |
| 1284           | 63.571                   | 63.096                     | 0.361                      | 0.0                | 0.1               | 0.0                |
| 1296           | 63.569                   | 63.096                     | 0.359                      | 0.0                | 0.1               | 0.0                |
| 1308           | 63.568                   | 63.096                     | 0.358                      | 0.0                | 0.1               | 0.0                |
| 1320           | 63.566                   | 63.096                     | 0.356                      | 0.0                | 0.1               | 0.0                |
| 1332           | 63.564                   | 63.096                     | 0.354                      | 0.0                | 0.1               | 0.0                |
| 1344           | 63.562                   | 63.096                     | 0.352                      | 0.0                | 0.1               | 0.0                |
| 1356           | 63.561                   | 63.096                     | 0.351                      | 0.0                | 0.1               | 0.0                |
| 1368           | 63.559                   | 63.096                     | 0.349                      | 0.0                | 0.1               | 0.0                |
| 1380           | 63.557                   | 63.096                     | 0.347                      | 0.0                | 0.1               | 0.0                |
| 1392           | 63.555                   | 63.096                     | 0.345                      | 0.0                | 0.1               | 0.0                |
| 1404           | 63.553                   | 63.096                     | 0.343                      | 0.0                | 0.1               | 0.0                |
| 1416           | 63.552                   | 63.096                     | 0.342                      | 0.0                | 0.1               | 0.0                |
| 1428           | 63.550                   | 63.096                     | 0.340                      | 0.0                | 0.1               | 0.0                |
| 1440           | 63.548                   | 63.096                     | 0.338                      | 0.0                | 0.1               | 0.0                |