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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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|  |  |  |  |  |  |  |  | Project Name: |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  | **5-YR** |  | **100-YR** |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **Atalas-14 Rainfall Intensity Coefficients** | **e =**  |   |  |   |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | System: | **5-yr & 100-yr Storms** |   |   |   |   |   |  |  |  |  |  |  |  |  | **b (in.) =** |   |  |   |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **d (min) =** |   |  |   |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **Cf=** | 1 |  | 1.25 |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **A** | **B** | **C** |  |  |  |  | **E** | **F** | **G** | **H** |  |  |  |  |  |  |  |
| Drainage Area | Manhole From | Manhole To | Contributing Area (Acres) | Total Area (Acres) | Runoff Coefficient C | Sum of C\*A | Intensity (in/hr) | Flow (ft3/s) | Time of Concentration (mins) | Pipe Length (feet) | Pipe Diameter or Rise (in) | Box Span (in) | Slope (%) | Mannings "n" | Design Capacity (cfs) | Design Velocity (ft/sec) | Fall (feet) | Manhole Drop (feet) | Flowline Elevation Upstream (feet) | Flowline Elevation Downstream (feet) | Design Storm = 5-yrHGL Starting Elevation = Existing 5-yr HGL at STM tie in or NWSE \_\_\_\_\_\_\_\_\_\_\_ (ft)  | Design Storm = 100-yrHGL Starting Elevation = Existing 100-yr HGL at STM tie in or 25-yr WSE \_\_\_\_\_\_\_\_\_\_\_ (ft)  | Method 1 | Method 2 |
| 5-yr | 100-yr | 5-yr | 100-yr | Actual Velocity (ft/sec) | Hydraulic Gradient (%) | Change in Head (feet) | Elevation of Hyd. Grad. Upstream (feet) | Elevation of Hyd. Grad. Downstream (feet) | Gutter Elevation Upstream (feet) | Difference between C - A | Actual Velocity (ft/sec) | Hydraulic Gradient (%) | Change in Head (feet) | Elevation of Hyd. Grad. Upstream (feet) | Elevation of Hyd. Grad. Downstream (feet) | Gutter Elevation Upstream (ft) | Top of Curb Elevation Upstream (ft) | Difference between G -E | Difference between H - E | Max Ponding | Upstream HGL Below Max Ponding (Pass/ Fail) | Max. Allowable Overland Flow (Qoallow.) | Required Overland Flow (Qoreqd) Qt-Qc | Qallow\_> Qreqd (Pass/ Fail) |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
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