

Stormwater Engineering Design Standards Design Checklist

Stormwater Management Plan Sheets should include the following:

- ☐ Land Use Summary Table:
 - a. Land use summary table template
 - b. Total Development Area of the Existing Conditions should match Total Development Area of Proposed Conditions
- ☐ Weighted C Factor
- ☐ Time of Concentration
- ☐ Variable Release Rate
- ☐ Flow Rates Calculated
 - ☐ Variable Release Rate
 - ☐ Restricted Outlet Rate
 - ☐ 100-year Allowable Outlet Rate (Q_{100ALL})
 - ☐ 100-Year Rainfall Intensity
 - ☐ 100-Year Post Construction Inlet Rate (Q_{100IN})
 - ☐ 10-Year Rainfall Intensity (I_{10})
 - ☐ 10-Year Post Construction Inlet Rate (Q_{10IN})
 - ☐ 1-Year Water Quality Flow Rate (Q_{WQ})
- ☐ Required Volume Calculations
 - ☐ Storage Cure Factor (R)
 - ☐ Post Development 100-Year Runoff Volume (V_{100R})
 - ☐ 1.00" Water Quality (V_{WQ})
 - ☐ 1.30" Channel Protection Volume Control (V_{CPVC})
 - ☐ 1.30" V_{CPVC} Provided
 - ☐ 1.90" Extended Detention Volume (V_{ED})
 - ☐ Forebay Volume (V_{FB})
 - ☐ Required 100-Year Detention Volume (V_{100DET})



- ☐ Proposed Design Volumes
 - ☐ Forebay/Mechanical treatment device
 - ☐ Channel Protection
 - ☐ Extended Detention
 - ☐ 100-Year Detention
- ☐ Contours and surface areas for all detention facilities/biorientations basins/forebays
- ☐ Stormwater outlet detail
- ☐ Actual Outflow
- ☐ Number of Orifice holes and elevations for extended detention and 100-year volume
- ☐ Dewatering time
- ☐ Emergency Overflow
 - ☐ Location
 - ☐ Elevation
 - ☐ Length
 - ☐ Flow capacity provided
- ☐ Operations and Maintenance Table

Utility Sheets

- ☐ Storm sewer profiles
 - ☐ 10-year HGL
 - ☐ 100-year HGL
- ☐ Location of taps and crossings
- ☐ Elevation of taps to the drain

Other Documents Required

- ☐ Geotechnical report with provided infiltration testing results
- ☐ Signed Operations and Maintenance Agreement
- ☐ Required Recorded Easement Documents (if applicable)
- ☐ Environmental Site Assessment (if applicable)