

MCDOT STORM DRAIN CAPACITY AND IMPACT ANALYSES CHECKLIST

| | | |
|-------------------------|--------------|--------------------|
| D = Designer's Response | √- Complete | X - Not Applicable |
| R = Reviewer's Response | A - Accepted | I - Incomplete |
| | | N - Not Acceptable |

NOTE: ALL STORM DRAIN CAPACITY AND IMPACT ANALYSES, FOR PUBLIC STORM DRAIN SYSTEMS TO BE MAINTAINED BY MONTGOMERY COUNTY, ARE TO BE PREPARED IN ACCORDANCE WITH THE JUNE 10, 2014 (REVISED FINAL) EDITION OF THE MONTGOMERY COUNTY GOVERNMENT'S "STORM DRAINAGE DESIGN CRITERIA" AND ERRATA

I. STORM DRAIN REPORT

A. DRAINAGE AREA MAPS

| R | D | Item |
|---|---|--|
| | | 1. Provide Graphical Scale and the North Arrow. |
| | | 2. On-site and adjacent properties are clearly labeled with owner, deed reference, |
| | | 3. Label all Point(s) of Study. |
| | | 4. If TR-55 / TR-20 Method's used: Delineate and dimension path for Time of Concentration (Tc). |
| | | 5. All existing and proposed work should be easily distinguishable. |
| | | 6. Provide separate Drainage Area Maps for Existing conditions and Proposed Conditions showing (existing and/or proposed) Features, Soil types & Hydrologic Soil Groups, Land Use, Contours, and Storm Drain system contributing to each Point of Study. |
| | | 7. All streets, public utility easements and/or County Rights-of-Way, Roadway width should be clearly shown. Show the width of the Storm Drain Easement if applicable. |
| | | 8. At least 500 ft. downstream drainage course shall be shown. If the design discharge is less than or equal to the existing conditions, analyses of existing downstream enclosed storm drain shall extend to the first downstream structure; further analyses may be needed depending on capacity at that connection. |
| | | 9. If the design drainage is greater than the existing condition, analyze the complete storm drain system to a point where three (3) consecutive storm drain pipe runs are able to convey the proposed peak design discharge without surcharging the system. |
| | | 10. All proposed inlets and manholes are properly labeled with unique identifiers and shall match the drainage area table, computations, plan and profiles. |
| | | 11. Drainage Areas labeled with RCN or Runoff Coefficient numbers 'C' (as applicable). Provide a tabular summary of Drainage Area and RCN/Runoff Coefficient values. NOTE: Reduced RCN values shall not be used for storm drain computations. |

Checklist Dated: 04/07/2015

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B. HYDROLOGIC COMPUTATIONS

| R | D | Item |
|---|---|---|
| | | 12. Provide tabular summary of Inlet Computations, Pipe Computations per the MCDOT Storm Drain Design Criteria. |
| | | 13. If TR-55/TR-20 are used. Provide appropriate Worksheet(s). |
| | | 14. Show computations for weighted Runoff Coefficient value for each drainage area. |
| | | 15. Spread computations for existing inlets should include bypass from upstream inlets. |
| | | 16. Downstream culvert analysis shall include the headwater elevations under existing and proposed conditions for the design storm. |

NOTE: If the Designer concludes that the existing Downstream Storm Drain system has insufficient capacity and/or inlet efficiency they must propose measures to remedy the impact of their post-development runoff.

Checklist Dated: 04/07/2015