

Town of Black Mountain: Stormwater Management STORMWATER MANAGEMENT PLAN REVIEW CHECKLIST

The following items shall be incorporated with respect to specific site conditions, in a stormwater management plan
(2 Copies of plans and specifications should be submitted):

Required For All Projects

APPLICATION FOR STORMWATER PERMIT FORM

- _____ Completed, signed & notarized application
- _____ Accurate application fee (\$400.00 per acre)
- _____ Drawings and specifications. For projects equal to or greater than one acre, plans must be sealed, signed and dated by a Professional Engineer (P.E.), Landscape Architect (ASLA), or Environmental Scientist.

GENERAL SITE FEATURES (Plan elements)

- _____ Legend, North arrow & scale, (1 inch=50 feet minimum scale)
- _____ Property Identification Number (PIN)
- _____ Property lines
- _____ Existing and proposed contours
- _____ Limits of disturbed area (provide acreage total, delineate limits, and label)
- _____ Planned and existing lots and/or building locations, elevations and numbers (total build out potential)
- _____ Planned & existing road locations & elevations
- _____ Profiles of streets, utilities, ditch lines, etc.
- _____ Geologic features: rock outcrops, seeps, springs, wetland and their limits, streams, lakes, ponds, dams, etc.
- _____ Planned and existing easements & drainage ways
- _____ Army Corps 404 permit and Water Quality 401 Certification if required (e.g. stream disturbances over 150 linear feet)
- _____ Pre-construction and post construction runoff calculations for each outlet from the site (at peak discharge points)

PERMANENT STORMWATER CONTROL MEASURES (BMPs on Plan)

- _____ Contact information of end-user responsible for annual inspection, maintenance and repair of stormwater management system (i.e. property owner, Homeowners Association, etc...)
- _____ Location of easements to all measures for maintenance
- _____ Location of Permanent Stormwater measures
- _____ Construction drawings and details for permanent measures, including retention volumes and retention durations
- _____ Size and location of culverts
- _____ Size and location of subsurface conveyances
- _____ 30' setbacks from stream banks
- _____ Designation and area of undisturbed open space
- _____ Types and locations of vegetative cover applied to disturbed areas
- _____ Pavement types applied to roadways or driveways

Required For Projects Disturbing 1 Acre or More

SITE DRAINAGE FEATURES

- _____ Sub-watershed delineation
- _____ Soil information: type, special characteristics
- _____ Soil information below culvert storm outlets
- _____ Name and classification of receiving water course

STORMWATER CALCULATIONS

- _____ Applicable State Stormwater Mgt Supplement Form(s)
- _____ Pre-construction & post-construction hydrographs
- _____ Design calcs of culverts and storm sewers
- _____ Discharge and velocity calculations for open channel and ditch flows (easement & r-o-ws)
- _____ Design calcs of cross sections and method of stabilization existing and planned channels (include temporary linings)
- _____ Design calcs and construction details of energy dissipaters below culvert and storm sewer outlets (diameters & apron dimensions)
- _____ Design calculations and hydrographs of pond routing through detention basins
- _____ Design calculations for LID practices
- _____ Determination of total built upon area (BUA) as a percentage of total lot size

NARRATIVE AND CONSTRUCTION SEQUENCE

- _____ Narrative describing nature & purpose of the construction activity
- _____ Basis for designing BMPs to capture either the entire 1-yr, 24-hr storm (conventional) or the first inch of rainfall (LID)
- _____ Construction sequence related to permanent stormwater management measures on site
- _____ Estimated cost of permanent BMPs.

PERFORMANCE SECURITY FOR INSTALLATION AND MAINTENANCE

- _____ Performance Surety Bond, Letter of Irrevocable Credit, Cash, Certificate of Deposit assigned to the Town or official bank check deposited with the Town. Amount is 125% of estimated cost of materials and installation of the system.

OPERATION AND MAINTENANCE IN PERPETUITY

- _____ Description of each BMP and its design specifications with annual inspection requirements
- _____ Operation and maintenance agreement for each measure (see State Manual for examples)
- _____ Outline steps needed to restore measures in the event of a failure
- _____ Deed Restrictions and Protective Covenants (See State Manual Forms DRPC – 1 through 6)