



ROAD REVIEW DESIGN CHECKLIST

Please indicate the page number(s) where each item below can be found in your plan submittal or supporting documentation. If an item is not applicable, put N/A. Greenville County reserves the right to modify this checklist at any time.

1. Plan Submittal Package for road review must be submitted along with Stormwater Plans to be reviewed as a Combination review and should include:
 - Cover Letter requesting review of road(s). Include the following:
 - Subdivision Name, type of road (public or private)
 - Include Preliminary Approval Number and associated Stormwater Permit Number
 - Total number of lots and total length of new streets
 - Include any variance or waiver requests
 - Separate Topographic Map showing delineation of drainage areas to each drainage structure and layout of the storm drain system
 - Plan sheets containing road design information, subdivision design information, construction standards and drainage systems design standards as listed in the Land Development Regulations (LDR). Proposed major contour changes in areas where substantial cut and/or fill is to be done, should also be shown on plan.
 - Road Plan and Profile for each road shall be prepared with the plan immediately above the profile. The following shall be included on the profile and plan views: road name, alignment information, existing and proposed centerline elevations at no more than 100-foot stations, contours, curb radii, road length, cross line pipes, road grades/slopes, k-factor, horizontal vertical curb, and catch basins.
2. Preliminary Approval from Subdivision Administration:
 - Plan complies with Preliminary Approval requirements from Subdivision Administration.
 - Specific Criteria from Preliminary Approval has been met.

3. Maintenance of Low Impact Development features are provided and clearly specify the following:

- Home Owners Associations are responsible for all landscaping, filter media, and vegetation
- Greenville County Public Works is responsible for constructed hard features i.e. pipes, catch basins, etc.

4. Drainage System Design Standards

- Preliminary plan of storm sewer system showing the location of outlets and direction of flow
- Provide the following information in table format:
 - Each drainage basin must indicate basin area
 - Design runoff coefficient
 - Rainfall intensity
 - Time of concentration
 - Average slope
 - Inlet capacity
 - Gutter Spread
 - Gutter Flow

— For the 10-year design storm, provide inlet capacities for all inlets:

- The capture efficiency for inlets on sump locations shall be 100%
- The capture efficiency for inlets on grade shall be no less than 90%

— Provide gutter flow and gutter spread calculations for the 2-year design storm for all roads within the development (Manning's Formula Calculations is acceptable)

Note: Refer to LDR Table 17.1 for specifications on information listed above. (Make sure this is the correct chart being referred to).

- Each run of pipe or channel shall indicate size, length, design slope, invert in and invert out, actual flow in CFS, design flow in CFS, and velocity
 - All runs of pipe shall be located in the ROW
 - Minimize diagonal length of pipe under the roadway (Cul de sac included)
- Calculations for pipes and ditch design (for the 10-year design storm at a minimum) submitted and shown on plans

- Calculations providing inlet capacities for all inlets within the development
 - Refer to the LDR for the type of inlets that needs to be used to meet our standards and suitable with a 5' sidewalk. (Type 9, 16, 17 & 18)

- Note:** Provide stable conveyances demonstrating how all storms larger than the 10-year design storm will safely reach the stormwater feature without adversely impacting homes, roads, etc.
- Note:** Roadway is to be measured from the Edge of Asphalt to Edge of Asphalt
- Note:** No catch Basins with curb radius

- Surface ditches shall show easement or right-of-way
- No manufactured treatment devices
- Sidewalks and crossings must be ADA complaint

5. Plan Sheets to include the following:

- Construction details of structures and roadway
- Road Design Standards
- Subdivision Standards
- Construction Quality Assurance Notes
- Grassing Specs and Details for stabilization
- SCDHEC Standard Notes
- Road Signage and detail sheet for all roads within the subdivision
- Landscape plan/Tree Ordinance Requirements and Tree Protection Plan (if approved)