



Charlotte Storm Water Services Individual Residential Lot Drainage Review: TIER 3 projects

STW Review Tier 3: Projects (Tier 1 and 2 type projects included) on individual lots where a Stormwater Protection Study (flood study) is required (Q100>50cfs) and/or Post-Construction Stormwater Regulations (PCSR, UDO Article 25) compliance is required. Review Fee required: \$345. A detailed plan is required to be uploaded to Accela that includes the following information:

- North Arrow
- Drawn to scale, including scale bar
- Lot Address
- Parcel Identification Number (PIN #)
- Reference to the recorded MapBook and Page number of the plat showing the lot
- Lot area (Acres)
- Length of lot lines (Feet)
- Show and label adjacent existing Street Right-of-Way (R/W)
- Plans and calcs sealed by appropriate design professional (PLS, PE, RLA) as allowed under state law
- Proposed drainage plan sheet(s)
- Supporting drainage design calculations
- Construction details included [CLDSM]
- Existing Built-Up-on-Area (BUA), (sq. feet) – i.e. impervious area
- Total proposed BUA shown clearly and labeled (sq. feet)
- List maximum BUA permitted on lot if located in Watershed Overlay [UDO Article 23]
- Label existing and proposed driveway location and width and other areas used by vehicles
- Design of driveway pipe as required [SWDM]
- Show and label existing and/or proposed fencing
- Show and label existing and/or proposed retaining wall(s) and include wall height
- Provide clearly labeled dimensions between:
 - Proposed buildings/additions and property lines
 - Proposed buildings and other buildings
 - Ground mounted HVAC/utility equipment and property lines
 - Fences, retaining walls, or screening walls and property lines
- If grading changes are proposed on the lot, show existing and proposed spot elevations and/or contours in intervals of two feet or less. (Topography survey required, or per design professional's discretion GIS contours can be OK for existing terrain <https://explore.charlottenc.gov>)
- Show location of existing storm water conveyance systems
- Streams and Stream Buffers (SWIM, PCSO) shown and dimensioned
- All existing easements (water/sewer, storm drainage, tree save, etc.) shown and labeled
- All proposed Storm Drainage Easements (SDEs) shown [widths per CLDSM 20.30]
- Stormwater Protection (flood) Study to be guided by the Stormwater Design Manual and Storm Water Services Engineering Site Checklist
- Post-Construction Stormwater Regulations (PCSR, UDO Article 25) Compliance requires a Stormwater Management Plan - must use the SCM Design manual
- A plat will be required to record Storm Drainage Easements (SDEs), SWPE (Stormwater Protection Elevation) and SWEL (Stormwater Elevation Line), Maximum BUA; to be recorded with a Map Book & Page Number at the Register of Deeds prior to Certificate of Occupancy issuance.