



**DORCHESTER COUNTY**  
**PUBLIC WORKS DEPARTMENT**  
2120 EAST MAIN STREET, DORCHESTER, SC 29437

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**STORMWATER DESIGN STANDARDS ALTERNATE PIPE MATERIAL WAIVER**

**Due to Supply Shortages Public Works shall provide a temporary waiver from the Dorchester County Stormwater Design Standards (DS) Section 3.5.1.6. The DS require that all pipe used in rights of way and drainage easements must be gasket reinforced concrete pipe (GRCP). This waiver shall be assessed annually or upon supply shortage relief as determined by the County Engineer.**

**This waiver shall allow alternate pipe material to be used on development projects where the drainage systems are not to be maintained by Dorchester County when the following conditions are met:**

1. The use of alternate pipe must be included in the plans, reports, etc., submitted by the Engineer of Record (EOR) and approved by Dorchester County Engineering.
2. Materials and installation must meet applicable ASTM, AASHTO, and SCDOT standards.
3. Submittals must include calculations for flotation based on measured groundwater elevations.
4. Flotation calculations must be based on a no-flow condition.
5. Anti-flotation measures must be used when and where needed.
6. Plastic pipe must be polypropylene (PP) within rights of way, ingress/egress easements, under pavement, and in all other traffic areas.
7. Plastic pipe may be high-density polyethylene (HDPE) in non-traffic areas.
8. Construction must meet the requirements of SCDOT Supplemental Technical Specification SC-M- 714.
9. Post construction testing must include:
  - Deflection testing on 100% of pipe.
  - Deflection may not exceed 5%.
  - Testing must be reviewed and approved by the EOR or his/her qualified third-party Professional Engineer.
  - Failing pipe must be repaired/replaced as directed by the EOR.
10. Testing results/reports must be provided to the County Engineer or designee upon request.
11. The County Engineer may disallow the use of alternate pipe based on prior failure of the Engineer or Contractor to conform with the above requirements.