



**Coastal Land Design, PLLC**

Civil Engineering/Landscape Architecture

## Previous Experience

### **Olde Georgetowne Subdivision**

**Client:**

Tri-Stok Properties, LLC  
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Olde Georgetowne is a large 600+ acres residential development located within Brunswick County on NC Hwy 211. There are several phases of this development with Phase-II encompassing 106 acres and Phase-I having 125 acres. The utility design on this project required the design of current phases with appropriations made for future phases.

Coastal Land Design provided all engineering services for Phases I and II of Olde Georgetowne and handled the design and permitting for stormwater, erosion control, and the potable water and sanitary sewer collection systems including a large municipal pump station. Regulatory agencies involved in the permitting include the Army Corps of Engineers, North Carolina Department of Environment and Natural Resources, Division of Land Quality, Division of Water Quality, Department of Transportation and the local permitting agencies of Brunswick County, NC.



The potable water system was modeled utilizing WaterCAD by Haested Methods and consisted of 27,890 lf of waterline for Phase-I and 18,725 lf of waterline for Phase-II. The waterline is an extension of the Brunswick County system and was designed accordingly. Approximately 10,500 lf of the Olde Georgetowne waterline is part of the Brunswick County main transmission line extension and follows NC Hwy 211 requiring a utility encroachment permit from the NCDOT. Careful coordination with the NCDOT was required around this main transportation corridor and multiple installation techniques were used including significant amounts of directional drilling and multiple jack and bores.

CLD designed and permitted the sanitary sewer collection system with 20,500 lf of sewerline for Phase-I and 14,000 lf of sewerline for Phase -II including a dual 70hp major pump station. CLD worked closely with the County as they redesigned their SCADA system to incorporate innovative designs into this new regional pump station. CLD staff oversaw the construction of all utilities and certified the installation of Phases I and II to the County and State staff. As-builts were also generated and turned over to Brunswick County upon utility acceptance.

CLD completed the work within the budget and timeframe set by the owner.

