

SPECIAL INSPECTIONS CATAWBA COUNTY

(SICC-2009)

2009 Edition

Effective: July 1st 2009

**Based on North Carolina State Building Code (2009) Edition,
effective July 1st, 2009**



Administered by

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CHAPTER 12 EARTH RETENTION SYSTEMS

SICC-1201 GENERAL

The requirements of this chapter shall apply when construction includes earth retention systems elements as listed in SICC-302.8 and NCBC 1806.2.

SICC-1202 CONSTRUCTION DOCUMENTS

SICC-1202.1 Review and approval. The earth retention system construction documents shall be submitted for review and approval to the **CCBSD** prior to permit issuance. Construction documents for earth retention systems which are to become a permanent part of the final structure shall be reviewed and approved by the **SER**, including field inspection requirements, prior to submission to the **CCBSD**.

SICC-1202.2 Preparation of construction documents. Earth retention system construction documents, including the related design calculations, shall be prepared, signed and sealed by a **RDP** experienced in the design of earth retention systems. In addition to structural design, the construction documents shall include the following:

- **Adjoining properties.** Recommendations for protecting adjoining properties, including existing public and private streets.
- **Installation.** System installation criteria, including allowable inward movement, pile installation and tie-back criteria, and requirements for inspection and monitoring of the earth retention system construction and adjacent properties.

SICC-1203 FABRICATION AND ERECTION DOCUMENTS

SICC-1203.1 Review and approval. The earth retention system fabrication and erection documents shall be submitted to the **SER** for review and approval prior to construction. The **GC** shall provide **SER**-approved fabrication and erection documents for use by the **SIER** to conduct special inspections during construction.

SICC-1203.2 Preparation of fabrication and erection documents. The **RDP** responsible for the construction documents shall also prepare, sign and seal the fabrication and erection documents.

SICC-1204 INSPECTIONS

SICC-1204.1 Special inspections required. The **SIER** shall perform the special inspections. Earth retention systems shall have special inspections performed to determine compliance with County approved construction documents and this SICC-2009, including the following:

- **Compaction.** Compaction process to determine that materials' quality and in-place density tests comply with the County approved specifications and geotechnical notes and the requirements of NCBC-1704.7.
- **Backfill, drainage and waterproofing.** Backfill, foundation drainage systems, and waterproofing during and following their placement for compliance with approved backfill, foundation drainage systems, and waterproofing specifications.

SICC-1204.2 Inspection reports. Inspection reports shall be submitted to the appropriate **RDPs** of record and **CCBSD**.

SICC-1204.3 Deviations. Deviations from the County approved earth retention system construction documents shall be subject to approval by the appropriate **RDP** of record and the **CCBSD** prior to work continuing in the affected area. When the earth retention system is to become a permanent part of the final structure, deviations shall also be subject to approval by the **SER**.

SICC-1205 COMPLETION OF EARTH RETENTION SYSTEM CONSTRUCTION

At the completion of the earth retention system construction, the **SIER** shall, after review and approval by the appropriate **RDPs**, the **SIER** shall submit a completion letter to **CCBSD**.

When the earth retention system is to become a permanent part of the final structure, the **SER** shall review and approve the completion letter prior to submission to **CCBSD**, with approval indicating that the system is acceptable as a structural element of the final structure.

The **SIER** shall also indicate the date of completion on the final report of special inspections for earth retention system construction.