

## Albemarle County Engineering

### Retaining Wall Plan checklist for plan reviewers

18 Feb 2014 (Use the latest checklist from the Team Services engineering forms site)

Any walls supporting roads or necessary infrastructure require engineered plans (not generic manufacturer's details) and computations. {Design Manual, section 8} This will also be required where walls are close to property lines and there is the danger of affecting neighboring property, either during construction, with later failures, or with pedestrian or vehicle safety.

Reference key;

[Square Brackets] are County Code references, {Curved Brackets} are policy references, and (regular parenthesis) are explanatory. [Links](#) to reference documents are provided where possible.

**Title information:** (applicable to any type of plan)

\_\_\_\_\_ Project title.

\_\_\_\_\_ Professional seal, with original signature and date. [18-32.6.1]

#### Plans :

\_\_\_\_\_ safety railing shown for retaining walls over 4' high

\_\_\_\_\_ guardrail with VDOT designations or equivalent shown for retaining walls next to parking or travelways

\_\_\_\_\_ VDOT approval for any walls in right-of-way

\_\_\_\_\_ Accurate depiction of horizontal depth (batter) on site plans.

\_\_\_\_\_ All structural reinforcement, steel, or geogrids specified.

\_\_\_\_\_ All dimensions specified

\_\_\_\_\_ Constructability; there should be no vertical cuts on property lines during construction, such that abutting property does not become unstable. Adequate room for construction needs to be available.

#### Details and sections :

\_\_\_\_\_ typical sections with dimensions shown for all configurations

\_\_\_\_\_ reinforcement layout shown and dimensioned (steel, geogrids, etc.)

\_\_\_\_\_ details for any pipes through, or bridged utilities, or manholes through geogrid

#### Computations

\_\_\_\_\_ Structural computations with original seal and signature for walls over 5' high

\_\_\_\_\_ Accurate surcharges and loadings assumed

\_\_\_\_\_ Materials and dimensions match plans

\_\_\_\_\_ appropriate safety factors used