

**ACS**  
**DESIGN** **EROSION & SEDIMENT CONTROL MINIMUM STANDARDS**  
Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook.  
This information is based on and modeled after it and is provided as a quick reference.

Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.

Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.

<b><u>GENERAL EROSION AND SEDIMENT CONTROL NOTES</u></b>	
ES-1:	Unless otherwise indicated, all vegetative and structural erosion and sediment control practices will be constructed and maintained according to minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook, latest edition and Virginia Regulations 4VAC50-3-0, Erosion and Sediment Control Regulations.
ES-2:	The plan approving authority must be notified one week prior to the preconstruction conference, one week prior to the commencement of land disturbing activity, and one week prior to the final inspection.
ES-3:	All erosion and sediment control measures are to be placed prior to or as the first step in clearing.
ES-4:	A copy of the approved erosion and sediment control plan shall be maintained on the site at all times.
ES-5:	Prior to commencing land disturbing activities in areas other than indicated on these plans (including, but not limited to, off-site borrow or waste areas), the contractor shall submit a supplementary erosion control plan to the owner for review and approval by the plan approving authority.
ES-6:	The contractor is responsible for installation of any additional erosion control measures necessary to prevent erosion and sedimentation as determined by the plan approving authority.
ES-7:	All disturbed areas are to drain to approved sediment control measures at all times during land disturbing activities and during site development until final stabilization is achieved.
ES-8:	During dewatering operations, water will be pumped into an approved filtering device.
ES-9:	The contractor shall inspect all erosion control measures periodically and after each runoff-producing rainfall event. Any necessary repairs or cleanup to maintain the effectiveness of the erosion control devices shall be made immediately.

**AGS DESIGN** Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.

Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook  
This information is based on and modeled after it and is provided as a quick reference.

**PROJECT DESCRIPTION**  
The purpose of this plan is to facilitate the construction of a commercial building having 8 units. This project includes sidewalks, retaining wall, curb and gutter, utilities.  
Total disturbed area = 0.096 acres.

The majority of the parcel is covered by grass, and is surrounded by sidewalk along the northern property line and sidewalk and curb and gutter along the western property lines. Grass cover becomes sparse towards the middle of the parcel with a small portion exposed bare earth.

The majority of the parcel is covered by grass, and is surrounded by sidewalk along the northern property line and sidewalk and curb and gutter along the western property lines. Grass cover becomes sparse towards the middle of the parcel with a small portion exposed bare earth.

The existing parcel is bordered by Woodrow Avenue along the northern property line, 9th Street along the western property line, a developed commercial parcel to the south and a public alley to the east.

The existing parcel is bordered by Woodrow Avenue along the northern property line, 9th Street along the western property line, a developed commercial parcel to the south and a public alley to the east.

See Soil Map on this sheet. Soil description provided by the "Soil Survey of Roanoke County, and the Cities of Roanoke and Salem, Virginia".

See Soil Map on this sheet. Soil description provided by the "Soil Survey of Roanoke County, and the Cities of Roanoke and Salem, Virginia".

The terrain slopes across this undeveloped parcel uniformly at 8.58% towards the eastern property line. The terrain gets steeper adjacent to the eastern property line, however this area will remain undisturbed except for plantings which will improve erosion control at this particular area. Therefore, there are no critical erosion areas on this parcel.

The terrain slopes across this undeveloped parcel uniformly at 8.58% towards the eastern property line. The terrain gets steeper adjacent to the eastern property line, however this area will remain undisturbed except for plantings which will improve erosion control at this particular area. Therefore, there are no critical erosion areas on this parcel.

Permanent stabilization will be accomplished by hardscaping (pavement and building), establishment of turf, and establishment of tree and shrub landscaping.

Permanent stabilization will be accomplished by hardscaping (pavement and building), establishment of turf, and establishment of tree and shrub landscaping.

Calculations are provided in the "Design Notes" document.

**1. Temporary Construction Entrance:** (Section 3.02) One temporary construction entrance will be installed. The entrances shall be composed of graded 3" stone to a minimum depth of 6". The entrances shall also run for a minimum distance of not less than 70' back from the existing edge of pavement.

**1. Temporary Construction Entrance:** (Section 3.02) One temporary construction entrance will be installed. The entrances shall be composed of graded 3" stone to a minimum depth of 6". The entrances shall also run for a minimum distance of not less than 70' back from the existing edge of pavement.

2. Silt Fence. (Section 5.05) Temporary silt fence and associated silt fence breaks shall be installed as indicated on the site plan.

2. Silt Fence. (Section 5.05) Temporary silt fence and associated silt fence breaks shall be installed as indicated on the site plan.

**5. Storm Drain Inlet Protection.** (Sections 5.07) A sediment inlet or an excavated impounding area around a storm drain drop inlet, curb inlet, or lower end of an outlet pipe.

**5. Storm Drain Inlet Protection.** (Sections 5.07) A sediment inlet or an excavated impounding area around a storm drain drop inlet, curb inlet, or lower end of an outlet pipe.

**1. Topsoiling:** (Section 3.0) Topsoil will be shipped to a depth of 6 inches and deposited at the location shown on the site plan. Topsoil will be distributed and placed in all areas to receive permanent seeding or tree and shrub planting immediately before seeding begins.

**1. Topsoiling:** (Section 3.0) Topsoil will be shipped to a depth of 6 inches and deposited at the location shown on the site plan. Topsoil will be distributed and placed in all areas to receive permanent seeding or tree and shrub planting immediately before seeding begins.

2. **Temporary Seeding.** (Section 3.31) Temporary seeding will be placed on an eroded area and will not be brought to final grade within one year or less. Temporary seeding will aid in the reduction of dust and sediment. Temporary seeding will be annual ryegrass (50 lbs./ac), Feb 16 - April 30, German millet (60 lbs./ac), May 1 - Aug. 31.

2. **Temporary Seeding.** (Section 3.31) Temporary seeding will be placed on an eroded area and will not be brought to final grade within one year or less. Temporary seeding will aid in the reduction of dust and sediment. Temporary seeding will be annual ryegrass (50 lbs./ac), Feb 16 - April 30, German millet (60 lbs./ac), May 1 - Aug. 31.

Permanent Seeding. (Section 5.32) All areas disturbed by construction shall be stabilized with permanent seeding immediately following finish grading. Erosion control blankets will be installed over fill slopes which have been brought to final grade and have been seeded to protect the slopes from rill and gully erosion and to allow seed to germinate properly. Mulch (straw or fiber) will be used on relatively flat areas. In all seeding operations, seed, fertilizer and lime will be applied prior to mulching.

Permanent Seeding. (Section 5.32) All areas disturbed by construction shall be stabilized with permanent seeding immediately following finish grading. Erosion control blankets will be installed over fill slopes which have been brought to final grade and have been seeded to protect the slopes from rill and gully erosion and to allow seed to germinate properly. Mulch (straw or fiber) will be used on relatively flat areas. In all seeding operations, seed, fertilizer and lime will be applied prior to mulching.

7. Mulching. (Section 3.35) Mulch shall be used over all seeded areas and shall be applied in accordance with standard and specification 3.35 of the Virginia Erosion and Sediment Control Handbook, latest edition.

7. Mulching. (Section 3.35) Mulch shall be used over all seeded areas and shall be applied in accordance with standard and specification 3.35 of the Virginia Erosion and Sediment Control Handbook, latest edition.

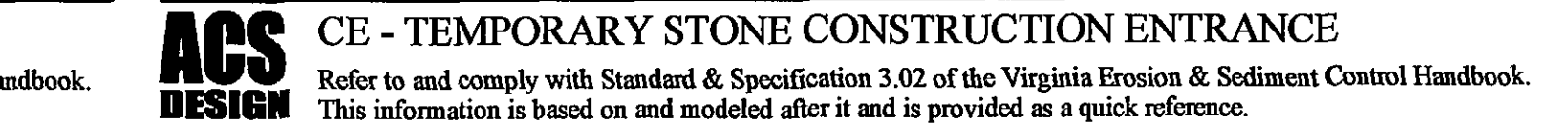
**ACS**  
**DESIGN**

**EROSION & SEDIMENT CONTROL COST ESTIMATE**

Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook  
This information is based on and modeled after it and is provided as a quick reference.

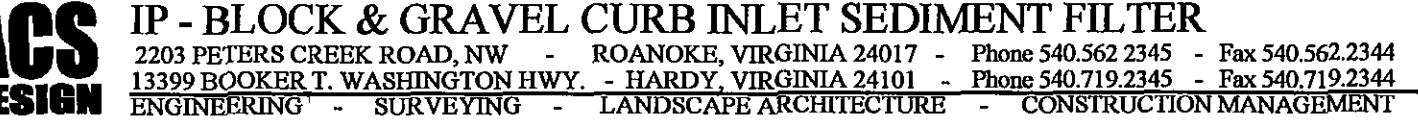
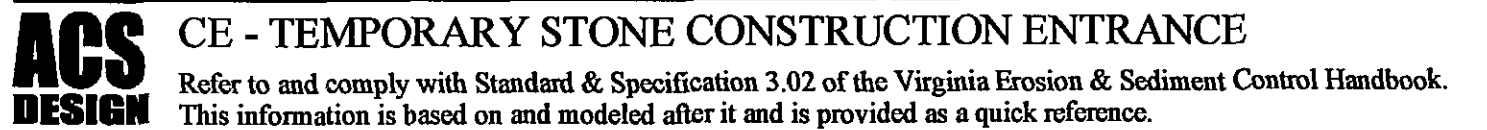
Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook  
This information is based on and modeled after it and is provided as a quick reference.

Refer to and comply with the Standards & Specifications of the Virginia Erosion & Sediment Control Handbook  
This information is based on and modeled after it and is provided as a quick reference.



**Refer to and comply with Standard & Specification 3.02 of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.**

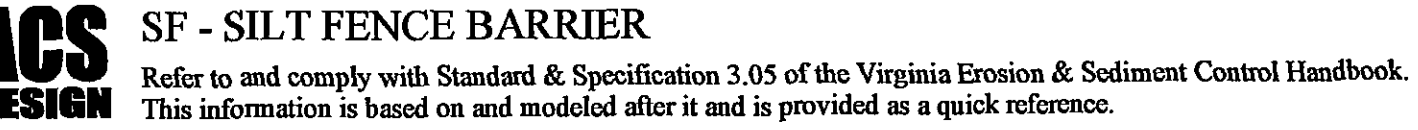
**Refer to and comply with Standard & Specification 3.02 of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.**



**13399 BOOKER T. WASHINGTON HWY. - HARDY, VIRGINIA 22101** Phone 540.719.2345 - Fax 540.719.2344  
**ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT**

**13399 BOOKER T. WASHINGTON HWY. - HARDY, VIRGINIA 22101** Phone 540.719.2345 - Fax 540.719.2344  
**ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT**

**13399 BOOKER T. WASHINGTON HWY. - HARDY, VIRGINIA 22101** Phone 540.719.2345 - Fax 540.719.2344  
**ENGINEERING - SURVEYING - LANDSCAPE ARCHITECTURE - CONSTRUCTION MANAGEMENT**



Refer to and comply with Standard & Specification 3.05 of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.

Refer to and comply with Standard & Specification 3.05 of the Virginia Erosion & Sediment Control Handbook. This information is based on and modeled after it and is provided as a quick reference.