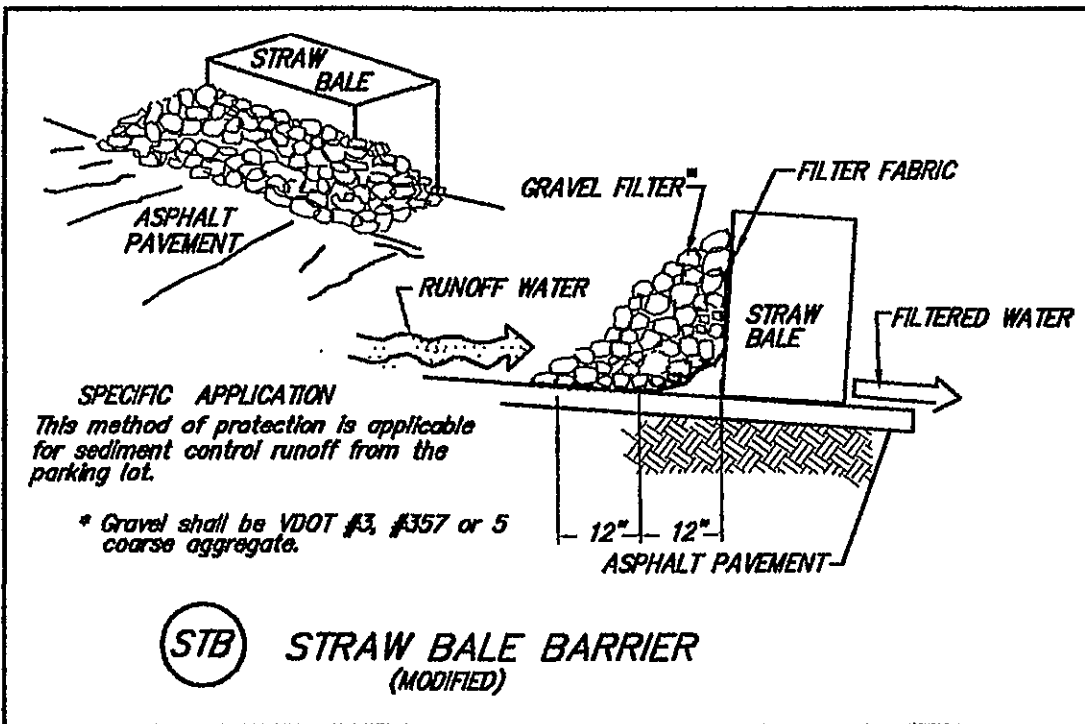
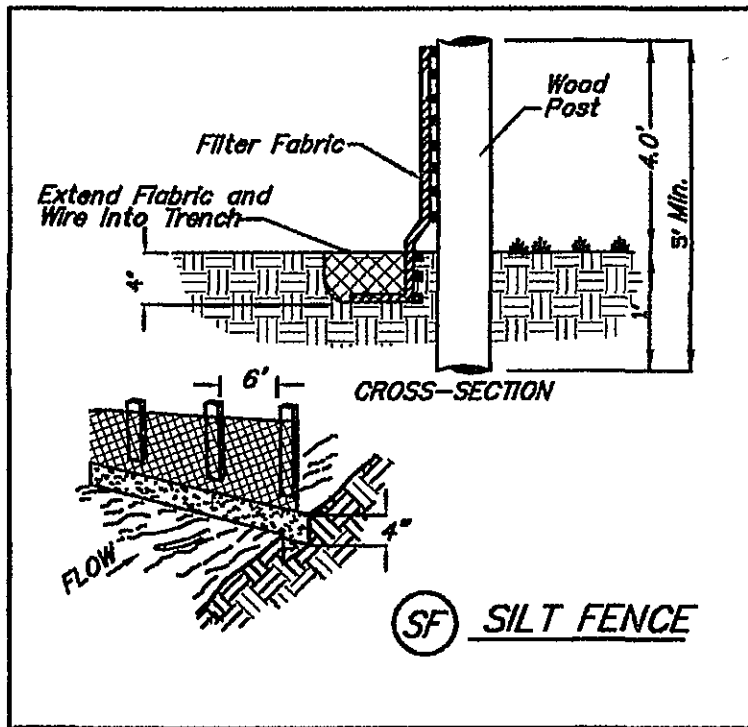


PS PERMANENT SEEDING MIXTURE	
TYPE A	TYPE B (SLOPES 2:1 OR STEEPER)
15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF BURY WINTER RYE @ 1/2 LB / 1000 SF	KENTUCKY 31 FESCUE 100 LBS./ACRE RED TOP GRASS 2 LBS./ACRE SEASONAL NURSE CROP 20 LBS./ACRE CROWWEED 20 LBS./ACRE TOTAL 150 LBS./ACRE
1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF	SEASONAL NURSE CROP SEEDING DATES: MARCH, APRIL - 15 MAY ANNUAL RYE 16 MAY - 15 AUGUST FOXTAIL MILLET 16 AUGUST - OCTOBER ANNUAL RYE NOVEMBER - FEBRUARY WINTER RYE
1 JUNE TO 1 SEPTEMBER K-31 FESCUE @ 5 LB / 1000 SF GERMAN MILLET @ 1/2 LB / 1000 SF	
1 SEPTEMBER TO 15 OCTOBER K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF	
LIME: 2 TONS/ACRE (90 LBS./1000 SF) PULVERIZED AGRICULTURAL LIMESTONE FERTILIZER: 10-20-10 OR EQUIVALENT NUTRIENTS RATE: 1000 LBS./ACRE (23 LBS./1000 SF)	
MULCH: STRAW OR FIBER MULCH SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. MULCHING RATE: STRAW OR HAY: 15-2 TONS/ACRE (70-90 LBS./1000 SF) FIBER MULCH: 1500 LBS./ACRE (35 LBS./1000 SF) ANCHOR MULCH BY KRIMPER TOOL OR MULCH NETTING FIBER MULCH MAY BE USED TO TACK (ANCHOR) STRAW MULCH.	
SOIL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.	
SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.	



**EROSION AND SEDIMENT CONTROL NARRATIVE**

**PROJECT DESCRIPTION**  
The purpose of this project is to construct a 5,855 sf. building addition onto the existing building of Holy Trinity Greek Orthodox Church. Additional development includes restriping the parking lot. Land disturbance is minimal with approximate 8,200 sf. of earth being disturbed for building foundations. Control measures include: silt fence and seeding.

**EXISTING SITE CONDITIONS**  
The existing site includes mostly pavement and building with grass located along the southwest and western perimeters of the parking lot. The site is generally flat, with a drainage divide near the center of the western parking lot, creating sheet flow across the parking lot toward the north and south.

**ADJACENT PROPERTY**  
The site is bound by commercial development on the southern and western sides and by Birchwood Street and Huntington Blvd. on the northern and eastern sides respectively.

**OFF-SITE AREAS**  
The location of all off-site fill areas or borrow areas associated with this construction project will be provided to Roanoke City by the grading contractor. An Erosion and Sediment Control Plan may be required for these areas. Off-site areas are not anticipated.

**SOILS**  
The soils are classified as urban soils with low erosion potential.

**CRITICAL EROSION AREAS**  
There are no potentially critical erosion control areas.

**EROSION AND SEDIMENT CONTROL MEASURES**  
Unless otherwise stated, all vegetative and structural erosion and sediment control practices will be constructed and maintained in accordance with the minimum standards and specifications of the Virginia Erosion and Sediment Control Handbook (1992 Edition). If during construction, additional erosion control devices are deemed necessary, they will be installed as directed by city personnel.

**STRUCTURAL PRACTICES**

- Construction Entrance - 3.02**  
The site is fully paved, therefore, a construction entrance is not needed but if tracking does occur then a construction entrance will be implemented.
- Straw Bale Barrier - 3.04**  
A modified straw bale barrier, with stone, to be installed across the parking lot to aid in controlling sediment from leaving the site.
- Silt Fence - 3.05**  
Silt fence to be installed as shown on the plans.

**VEGETATIVE PRACTICES**

**Temporary Seeding - 3.31**  
All denuded areas which will be left dormant for extend periods of time shall be seeded with fast germinating temporary vegetation immediately following grading.

**Permanent Seeding - 3.32**  
Permanent or temporary soil stabilization shall be applied to denuded areas within seven days after final grade is reached on any portion of the site. Permanent stabilization shall be applied to areas that are to be left dormant for more than a year. Permanent vegetation shall not be considered established until a ground cover is achieved that in the opinion of the local program administrator or his designated agent, is uniform, mature enough to survive and will inhibit erosion. Reference is made to the 1992 Erosion and Sediment Control Handbook addressing minimum numbers one and three (MS-1, MS-3). Refer to the Erosion Control Detail sheet for the seeding schedule.

**MANAGEMENT STRATEGIES**

- Erosion and sediment control devices will be installed as a first step of construction.
- The grading contractor will be responsible for the installation and maintenance of all erosion and sediment control measures. Inspections are to be made periodically and after every erodible rainfall.
- The grading inspection personnel will make repairs to damaged or deficient control measures immediately upon discovery of damage or upon notification of the deficiency.

**STORMWATER MANAGEMENT**  
The increase in post-developed runoff from that of pre-developed runoff is marginal. Drainage patterns will remain generally the same after development. Additional landscaping will be added accommodate the additional post-developed runoff.

**REMOVAL OF CONTROL MEASURES**  
All temporary erosion and sediment control measures will be removed within thirty days after final site stabilization or after the temporary measures are no longer needed, unless otherwise directed by the local program administrator.

**FEES & SURETY**  
The contractor is responsible for obtaining a land-disturbing permit and posting any required surety.

DATE: FEB 19, 2007  
JULY 16, 2007

**HUGHES ASSOCIATES ARCHITECTS**  
Architecture • Planning • Consulting

656 ELM AVENUE, S.W.  
P.O. BOX 1034  
ROANOKE, VIRGINIA 24005-1034

TEL (540) 342-4002  
FAX (540) 342-2080  
www.HughesArchitects.com

**ADDITIONS & RENOVATIONS FOR HOLY TRINITY GREEK ORTHODOX CHURCH**  
Huntington Blvd. NE  
Roanoke, VA

**SITE DETAILS AND EROSION & SEDIMENT CONTROL NARRATIVE**

COMMONWEALTH OF VIRGINIA  
MARK JOHNAYLES  
Lic. No. 034160  
7-16-2007  
PROFESSIONAL ENGINEER

COMMISSION No.  
06001  
SHEET  
SP-4  
No. 5 OF 5  
COPYRIGHT 2007  
HUGHES ASSOCIATES ARCHITECTS  
A PROFESSIONAL CORPORATION