

NARRATIVE:

PROJECT DESCRIPTION

The purpose of this project is to provide demolition and grading for the construction of a Social Security building. The site is located on the northeast corner of Jefferson Street, S.E. and Bullitt Avenue, S.E. The site will consist of construction of one three story building, parking areas, civic plaza/courtyard and lawn. The amount of land disturbance is estimated at 52,185 square feet (1.198 acres).

EXISTING CONDITIONS

The proposed site slopes from front along Jefferson Street down to the back of site. Slopes range from from 3 to 10 percent.

ADJACENT PROPERTY

The site fronts on Jefferson Street and Bullitt Avenue along the west and south sides respectively, while property owned by the City of Roanoke bounds to the east and property own by Trigon Insurance company & Blue Cross of Southwest Virginia bound to the north.

SOILS

Included information from Soil Survey

CRITICAL EROSION AREAS

There are no critical erosion areas.

EROSION AND SEDIMENT CONTROL MEASURES

Unless otherwise stated all erosion and sediment control measures shall be constructed and maintained in accordance with minimum standards and specifications of the latest edition of the "Virginia Erosion and Sediment Control Handbook".

STRUCTURAL PRACTICES

Temporary Construction Entrance (3.02) - A stone pad, located at points of vehicular ingress and egress on a construction site, to reduce the soil transported onto public roads and other paved areas.

A Temporary Construction Entrance has been included in this project and is shown on the drawings.

Construction Road Stabilization (3.03) - Temporary stabilization with stone of access roads, subdivision streets, parking areas and other traffic areas immediately after grading to reduce erosion caused by vehicles during wet weather, and to prevent having to regrade permanent roadways between initial grading and final stabilization.

Construction Road Stabilization will be used on this project and is shown on the drawings.

Silt Fence (3.05) - A temporary sediment barrier constructed of posts, filter fabric and, in some cases, a wire support fence, placed across or at the toe of a slope or in a minor drainage way to intercept and detain sediment and decrease flow velocities from drainage areas of limited size; applicable where sheet and rill erosion or small concentrated flows may be a problem. Maximum effective life of 6 months.

Silt Fence will be used on this project and is shown on the drawings.

Storm Drain Inlet Protection (3.07) - The installation of various kinds of sediment trapping measures around drop inlets or curb inlet structures prior to permanent stabilization of the disturbed area; limited to drainage areas not exceeding one acre, and not intended to control large, concentrated stormwater flows.

Storm Drain Inlet Protection will be used for this project and is shown on the drawings.

Temporary Seeding (3.31) - Establishment of temporary vegetative cover on disturbed areas that will not be brought to final grade for periods of 30 days to one year by seeding with appropriate rapidly-growing plants.

Temporary Seeding will be used on this project and is shown on the drawings.

Permanent Seeding (3.32) - Establishment of perennial vegetative cover by planting seed on rough-graded areas that will not be brought to final grade for a year or more or where permanent, long-lived vegetative cover is needed on fine-graded areas.

Permanent Seeding will be used on all finished areas outside of the parking and driveway areas.

Tree Preservation and Protection (3.38) - Protecting existing trees from mechanical and other injury during land-disturbing and construction activity to ensure the survival of desirable trees where they will be effective for erosion and sediment control and provide other environmental and aesthetic benefits.

Tree Preservation and Protection will be used to protect some of the existing trees on the site.

Dust Control (3.39) - Reducing surface and air movement of dust during land disturbance, demolition or construction activities in areas subject to dust problems in order to prevent soil loss and reduce the presence of potentially harmful airborne substance.

Dust Control will be practiced to keep dust generation to reasonable levels.

MANAGEMENT STRATEGIES

1. Construction will be sequenced to begin and end grading operations as quickly as possible.

2. The Silt fence along the perimeter of the property and inlet protections will be installed as the first step of the grading process.

3. All areas shall be seeded with permanent stabilization as soon as they reach final grade.

4. The contractor shall be responsible for installation and maintenance of all erosion and sediment control measures.

5. Once the site has been stabilized, the temporary erosion and sediment control measures may be removed and those areas brought to final grade and stabilized.

PERMANENT STABILIZATION

All disturbed areas shall receive permanent stabilization accordance with the "Virginia Erosion and Sediment Control Handbook", STD and Spec. 3.32 as soon as those areas are brought to final grade. For permanent seeding mixture see the Erosion and Sediment Control detail sheet.

MAINTENANCE

All sediment and erosion control measures shall be checked daily and after all significant rainfall. In particular:

1. Silt Fence shall be checked regularly to ensure that the fabric has not been undermined or has deteriorated. Sediment shall be removed when level of buildup reaches halfway up the barrier.

2. Areas which have received seeding shall be checked regularly to ensure that a good stand of grass is maintained. Areas shall be fertilized and reseeded as required.

GENERAL EROSION & SEDIMENT CONTROL NOTES:

1. All soil erosion & sediment control measures as shown on the plan shall be accomplished in strict accordance with the standards and specifications contained in the Virginia Erosion and Sediment Control Handbook, latest edition.

2. The approving authority may add to, delete, relocate, change, or otherwise modify certain erosion and sediment control measures where field conditions are encountered that warrant such modifications.

3. All soil erosion and sediment control measures as shown on the plan shall be placed in advance of the work being performed, as far as practical.

4. In no case during construction shall water runoff be diverted or allowed to flow to locations where adequate protection has not been provided.

5. It shall be the contractor's responsibility to leave the site adequately protected against erosion, sedimentation, or any damage to any adjacent property at the end of each day's work.

6. For the erosion control key symbols shown on the plans, refer to the Virginia Uniform Coding System for erosion and sediment control practices contained in the Virginia Erosion and Sediment Control Handbook, latest edition.

7. Reference is directed to plan sheets for site depicting erosion and sediment control measures.

GENERAL COMMENTS:

1. The job superintendent shall be responsible for the installation and maintenance of all erosion and sediment control practices.

2. The approving authority reserves the right to add to, delete, or otherwise change erosion control devices as may be deemed necessary by written notification to the contractor.

3. No work shall proceed on the site until the proper authorization or permit has been obtained from the approving authority.

4. While the engineer, Parker Design Group, has prepared the plan in accordance to the VA ESCH, the engineer assumes no responsibility for quality or erosion control methods performed by the contractor or subcontractor.

OFFSITE WASTE AND BORROW NOTE:

The proposed development does not anticipate off-site waste areas; however, should the project require off-site waste areas or borrow areas, the location of these areas need to be submitted to the local governing authority and other local governing authorities where waste/borrow occurs. Erosion control plans or measures may be required for these off-site locations.

EROSION AND SEDIMENT CONTROL MEASURES:

PROVIDE THE FOLLOWING:

CE CONSTRUCTION ENTRANCE MEETING VA ESCH STD. & SPEC. 3.02

SF SILT FENCE MEETING VA ESCH STD. & SPEC. 3.05

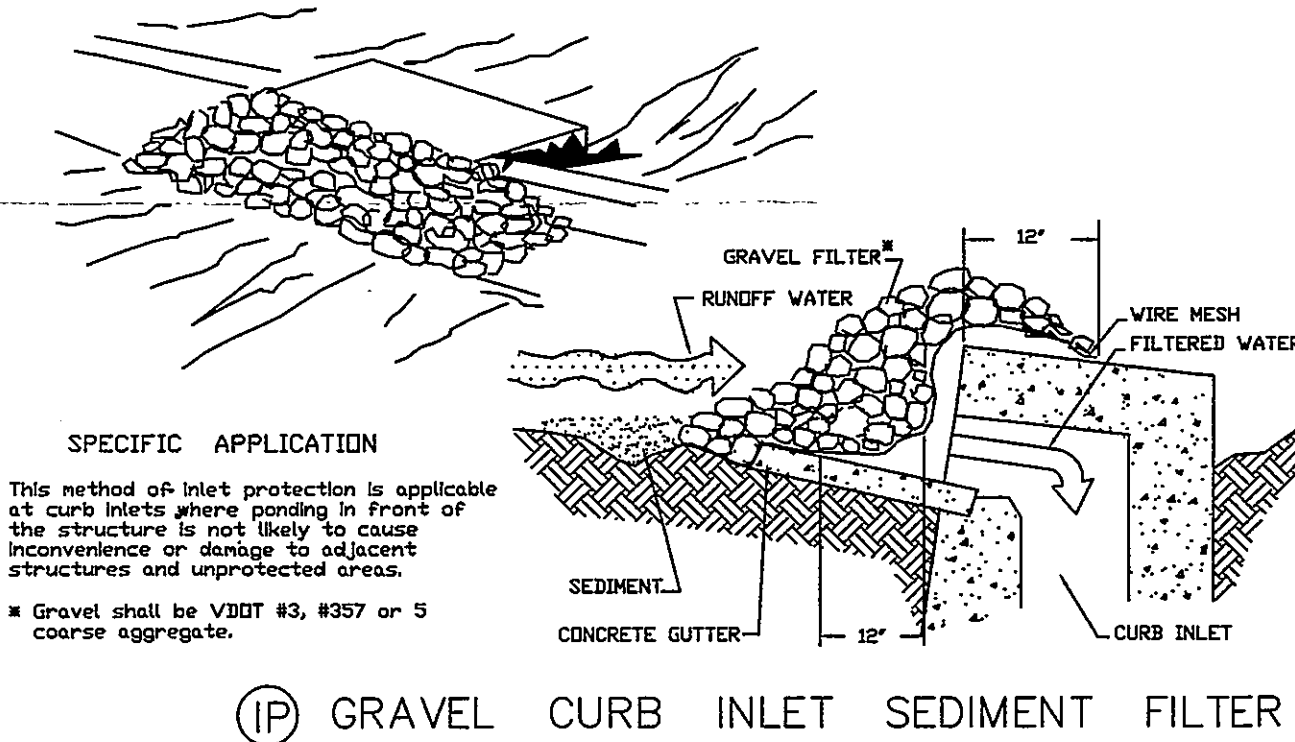
IP INLET PROTECTION MEETING VA ESCH STD. & SPEC. 3.07

TS TEMPORARY SEEDING MEETING VA ESCH STD. & SPEC. 3.31

PS PERMANENT SEEDING MEETING VA ESCH STD. & SPEC. 3.32

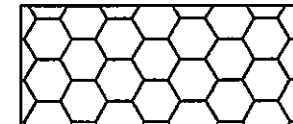
EROSION-SILTATION CONTROL COST ESTIMATE				
ALL COSTS GIVEN ARE COMPLETE IN PLACE				
DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL COST
CONSTRUCTION ENTRANCE	EA	2	\$ 1,250.00	\$ 2,500.00
SILT FENCE	LF	712	4.00	2,848.00
INLET PROTECTION	EA	3	250.00	750.00
CONSTRUCTION ROAD STABILIZATION	TON	100	15.00	1,500.00
TEMPORARY SEEDING	AC.	0.344	1,800.00	619.20
PERMANENT SEEDING	AC.	0.159	2,400.00	360.00
SUB-TOTAL			\$ 8577.20	
10% CONTINGENCY			\$ 857.72	
TOTAL PROJECT COST			\$ 9,434.92	

NO.	TITLE	KEY	SYMBOL	NO.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	SAF		3.20	ROCK CHECK DAMS	CD	
3.02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	CE		3.21	LEVEL SPREADER	LS	
3.03	CONSTRUCTION ROAD STABILIZATION	CRS		3.22	VEGETATIVE STREAMBANK STABILIZATION	VSS	
3.04	STRAW BALE BARRIER	STB		3.23	STRUCTURAL STREAMBANK STABILIZATION	SSS	
3.05	SILT FENCE	SF		3.24	TEMPORARY VEHICULAR STREAM CROSSING	VSC	
3.06	BRUSH BARRIER	BB		3.25	UTILITY STREAM CROSSING	USC	
3.07	STORM DRAIN INLET PROTECTION	IP		3.26	DEWATERING STRUCTURE	DS	
3.08	CULVERT INLET PROTECTION	CHP		3.27	TURBIDITY CURTAIN	TC	
3.09	TEMPORARY DIVERSION DIKE	DD		3.28	SUBSURFACE DRAIN	SD	
3.10	TEMPORARY FILL DIVERSION	FD		3.29	SURFACE ROUGHENING	SR	
3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	RWD		3.30	TOPSOILING	TD	
3.12	DIVERSION	DV		3.31	TEMPORARY SEEDING	TS	
3.13	TEMPORARY SEDIMENT TRAP	ST		3.32	PERMANENT SEEDING	PS	
3.14	TEMPORARY SEDIMENT BASIN	SB		3.33	SODDING	SD	
3.15	TEMPORARY SLOPE DRAIN	TSU		3.34	BERMUDA GRASS AND ZYSAIURASS ESTABLISHMENT	ZW	
3.16	PAVED FLUME	PF		3.35	MULCHING	MU	
3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3.36	SOIL STABILIZATION BLANKETS AND MATTING	SSB	
3.18	OUTLET PROTECTION	OP		3.37	TREES, SHRUBS, VINES AND GROUND COVERS	VEG	
3.19	RIPRAP	RR		3.38	TREE PRESERVATION AND PROTECTION	TP	
3.39	DUST CONTROL	DC					



NOTE: CONSTRUCTION ENTRANCE WILL NEED TO REMAIN LOCATED ON THE JEFFERSON ST. SIDE OF SITE DUE TO THE SEQUENCE OF CONSTRUCTION. ONCE THE NEW CURB AND SIDEWALK ALONG JEFFERSON STREET HAS BEEN INSTALLED, THAN THE CONSTRUCTION ENTRANCE WILL BE RELOCATED TO THE BULLITT AVENUE ENTRANCE.

CE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE VA ESCH STD. & SPEC. 3.02



TYPE A (SLOPES FLATTER THAN 3:1)

15 OCTOBER TO 1 FEBRUARY
K-31 FESCUE @ 5 LB / 1000 SF
BORCY WINTER RYE @ 1/2 LB / 1000 SF

1 FEBRUARY TO 1 JUNE
K-31 FESCUE @ 5 LB / 1000 SF
ANNUAL RYE @ 1/2 LB / 1000 SF

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

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ANNUAL RYE @ 1/2 LB / 1000 SF

15 OCTOBER TO 1 FEBRUARY
K-31 FESCUE @ 5 LB / 1000 SF
BORCY WINTER RYE @ 1/2 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER)

15 MARCH TO 1 MAY
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF

1 MAY TO 1 SEPTEMBER
CROWN VETCH @ 1/2 LB / 1000 SF
PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF
RED TOP @ 1/8 LB / 1000 SF

1 SEPTEMBER TO 15 OCTOBER
CROWN VETCH @ 1/2 LB / 1000 SF
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RED TOP @ 1/8 LB / 1000 SF

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