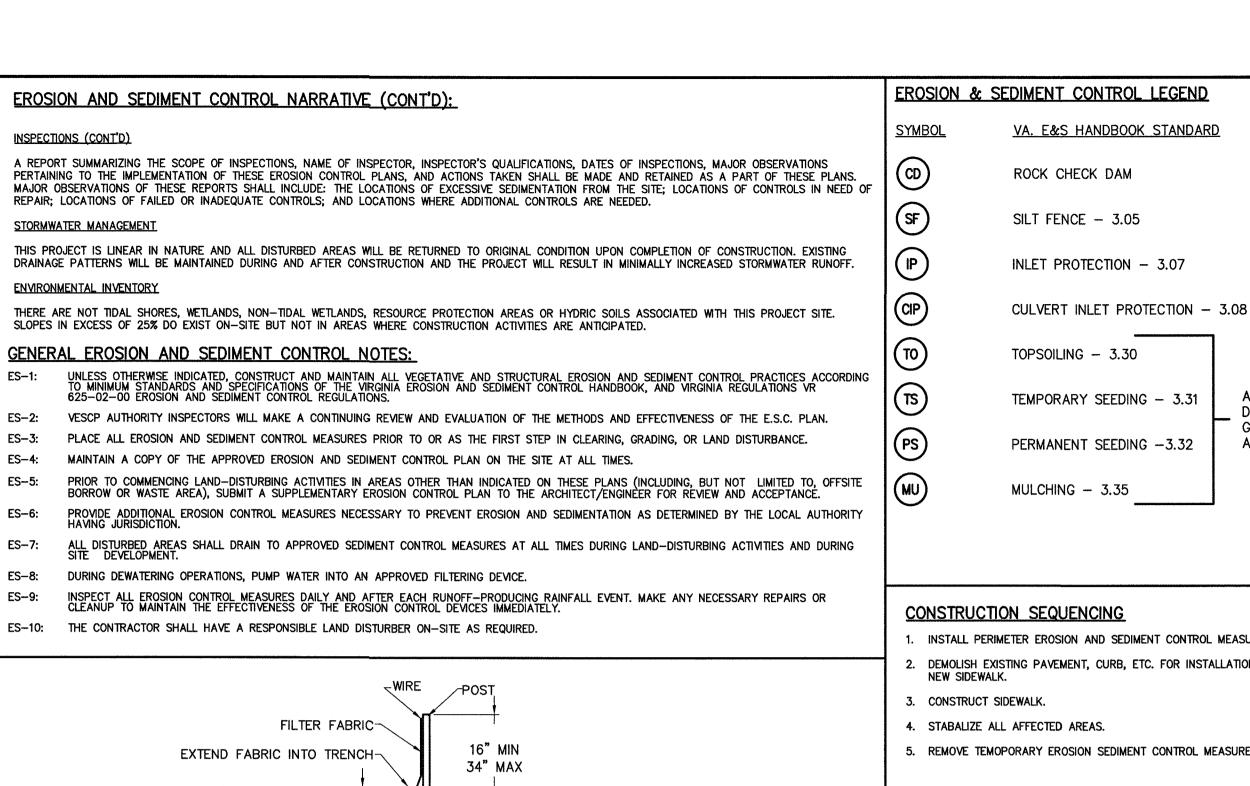
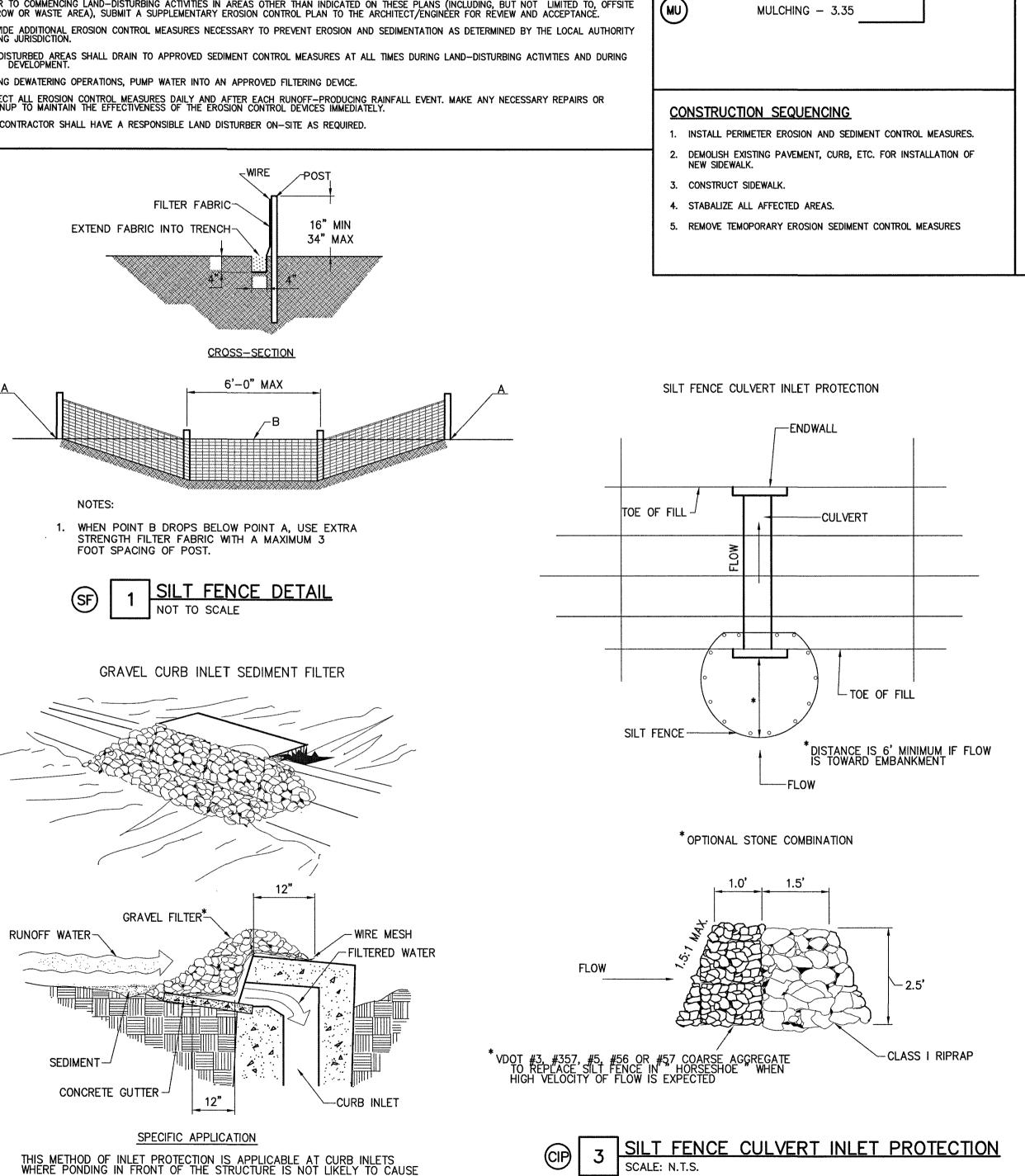
## <u>EROSION AND SEDIMENT CONTROL NARRATIVE:</u> PROJECT CONSIST OF CONSTRUCTION ACTIVITIES FOR IMPROVEMENTS/REPLACEMENTS TO THE AUTHORITY'S SANITARY SEWER ALONG PETER'S CREEK ROAD AS SHOWN IN THE PLANS . WORK WILL INCLUDE THE FOLLOWING ACTIVITIES: 1. TRENCH EXCAVATION AND BACKFILLING, PRIMARILY CONFINED TO WITHIN AND ADJACENT TO PAVED AREAS OF LOCAL STREET RIGHT-OF-WAYS. INSTALLATION OF EROSION CONTROLS LINEAR TO THE WORK AREAS AS INDICATED ON PLANS; 2. ASPHALT PAVEMENT REMOVAL AND RESTORATION, INCLUDING FULL DEPTH PAVEMENT, MILLING AND SURFACE OVERLAY; 3. CONCRETE CURBING AND SIDEWALK REMOVAL AND REPLACEMENT; 4. FINAL SEEDING AND STABILIZATION MEASURES; AND 5. REMOVAL OF LINEAR EROSION CONTROLS. EXISTING SITE CONDITIONS: THE PROPOSED CONSTRUCTION IS GENERALLY LOCATED IN AND ADJACENT TO EXISTING STREET RIGHT—OF—WAYS WITHIN EXISTING AND PROPOSED EASEMENTS ADJACENT PROPERTY: COMMERCIAL PROPERTIES ADJACENT TO THE STREET RIGHT-OF-WAYS. THERE ARE NO OFFSITE MATERIALS REQUIRED EXCEPT FOR BEDDING AND BACKFILL STONE. SHOULD THE CONTRACTOR ENCOUNTER UNSUITABLE MATERIALS AND REQUIRE MATERIAL OFFSITE, CONTRACTOR WILL PROVIDE LOCATION AND ANY REGULATORY REQUIREMENTS FOR THE BORROW AREA TO THE ENGINEER, OWNER AND THE FOLLOWING SOILS INFORMATION IS ACCORDING TO THE SCS SOILS INFORMATION FROM THE NRCS WEB SOIL SURVEY: 53 UDORTHENTS-URBAN LAND COMPLEX 21C FREDERICK-URBAN LAND COMPLEX, 2 TO 15 PERCENT SLOPES CRITICAL AREAS INCLUDE CULVERTS AND AREAS DOWNHILL FROM THE PROPOSED DISTURBANCE. THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES AND STREAM STABILIZATION MEASURES ARE INTENDED TO MINIMIZE ANY POTENTIAL PROBLEMS AND PROMOTE STABILIZATION. EROSION AND SEDIMENT CONTROL MEASURES — GENERAL: ALL STRUCTURAL AND VEGETATIVE 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 ES-9: finimum standards: ALL applicable minimum standards should be addressed: 1. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDE AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. 2. PERIMETER DIKES AND DITCHES, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE LAND DISTURBANCE TAKES PLACE. 3. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DITCHES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION 4. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMEN BY (VEHICULAR) TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY, SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION. STRUCTURAL PRACTICES 1. TEMPORARY STONE CONSTRUCTION ENTRANCE - STD. & SPEC. 3.02 Temporary stone construction entrance shall be used to reduce the amount of mud transported onto paved roadways by motor vehicles and runoff Refer to Std. & Spec. 3.02 Removal Event: To be coordinated with final stone placement 2. SILT FENCE - STD. & SPEC. 3.05 Silt fence shall be used to intercept and detain small amounts of sediment from disturbed areas and to decrease the velocity of sheet flows and low-to-moderate level channel flows during construction. Refer to Std. & Spec. 3.05 Following permanent stabilization of all upland areas Removal Event: 3. STORM DRAIN INLET PROTECTION - STD. & SPEC. 3.07 Storm drain inlet protection shall be placed at existing and proposed grate inlets to prevent sediment from entering the storm piping. Existing structures — prior to any land disturbance Future structures - immediately following installation Removal Event: Following permanent stabilization of all upland areas VEGETATIVE PRACTICES GENERAL: A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED BY PAVEMENT. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM AND MATURE ENOUGH TO SURVIVE AND INHIBIT EROSION. NEW VEGETATION SHALL BE MAINTAINED AT A MINIMUM OF ONE FULL YEAR AFTER PLANTING. NEW SEEDING SHALL BE SUPPLIED WITH ADEQUATE MOISTURE, ESPECIALLY LATE IN THE SEASON, AND IN ABNORMALLY HOT OR DRY WEATHER. STABILIZATION PRACTICES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPROPRIATE VESCH STANDARD AND SPECIFICATION AND THE EROSION AND SEDIMENT CONTROL PLAN. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE I REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PE14ANENT SEEDING SHALL BE USED ON ALL AREAS THAT ARE NOT AT FINAL GRADE AND THAT WILL BE LEFT DORMANT FOR A PERIOD OF MORE THAN 1 YEAR. 1. TEMPORARY SEEDING - STD. & SPEC. 3.31 Temporary seeding shall be applied over denuded areas within 7 days for areas that will not be brought to final grade within 30 days. Temporary seeding mixes shall be as described on the detail drawings. When cleared areas will not be brought to final grade within 30 days Refer to Std. & Spec. 3.31; areas which fail to establish vegetative cover adequate to prevent rill erosion are to be reseeded. Removal Event: 2. PERMANENT SEEDING - STD. & SPEC. 3.32 Permanent seeding shall also be used on all areas that are not at final grade and that will be left dormant for a period of more than 1 year. If conflicts exist between the project specifications and the VESCH Std. & Spec. 3.32, the more stringent requirement shall apply. Permanent seeding mixes and rates Within 7 days of achieving final grade or as noted above Soil Testing Requirements: Refer to Std. & Spec. 3.32 Refer to Std. & Spec. 3.32; areas which fail to establish vegetative cover adequate to prevent rill erosion are to be immediately reseeded, following identification of the cause of poor germination. PERMANENT STABILIZATION ILL NON—PAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE IN ACCORDANCE WITH STD. & SPEC. 3.32, PERMANENT SEEDING. SEED TYPE SHALL BE AS SPECIFIED FOR "MINIMUM CARE LAWNS" AND "GENERAL SLOPES" IN THE HANDBOOK. MULCH (STRAW OR FIBER) SHALL BE USED ON ALL SEEDED SURFACES. IN ALL SEEDING OPERATIONS SEED, FERTILIZER AND LIME SHALL BE

## MANAGEMENT STRATEGIES CONSTRUCTION SHALL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE 2. ISOLATE TRENCHING FOR UTILITIES AND DRAINAGE FROM DOWNSTREAM CONVEYANCES IN ORDER TO MINIMIZE PERIMETER CONTROLS. . ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE. 4. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER REQUIRED TO COMPLY WITH THE CONTRACT DOCUMENTS OR STATE LAW. ONLY AFTER INSPECTION AND APPROVAL FROM THE VESCP AUTHORITY MAY ITEMS BE REMOVED FOLLOWING THE STABILIZATION OF CONTRIBUTING AREAS. INSPECTIONS THE GENERAL CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CALENDAR DAYS, AND WITHIN FORTY-EIGHT (48) HOURS OF THE END OF A STORM EVENT PRODUCING 1/4" OR GREATER OF PRECIPITATION. WHERE AREAS HAVE BEEN FINALLY OR TEMPORARILY STABILIZED OR RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS (SITE IS COVERED WITH SNOW, ICE, OR FROZEN GROUND EXISTS) SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. INSPECT DISTURBED AREAS AND AREAS OF MATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EVIDENCE OF, OR THE POTENTIAL FOR SEDIMENT ENTERING THE STORM DRAIN SYSTEM. INSPECT E&S CONTROLS IN ACCORDANCE WITH REQUIREMENTS STATED HEREIN, AND INSPECT POINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEDIMENTATION. CORRECT SITE CONTROLS AS REQUIRED TO REDUCE SEDIMENTATION OF STORM DRAINS, CULVERTS, AND RECEIVING IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES AS REQUIRED. ANY ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES SHALL BE RECORDED AS FIELD REVISIONS TO THESE PLANS. IN THE EVENT THAT ADDITIONAL CONTROLS ARE FOUND TO BE REQUIRED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THESE CONTROLS BEFORE THE NEXT ANTICIPATED STORM EVENT. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS

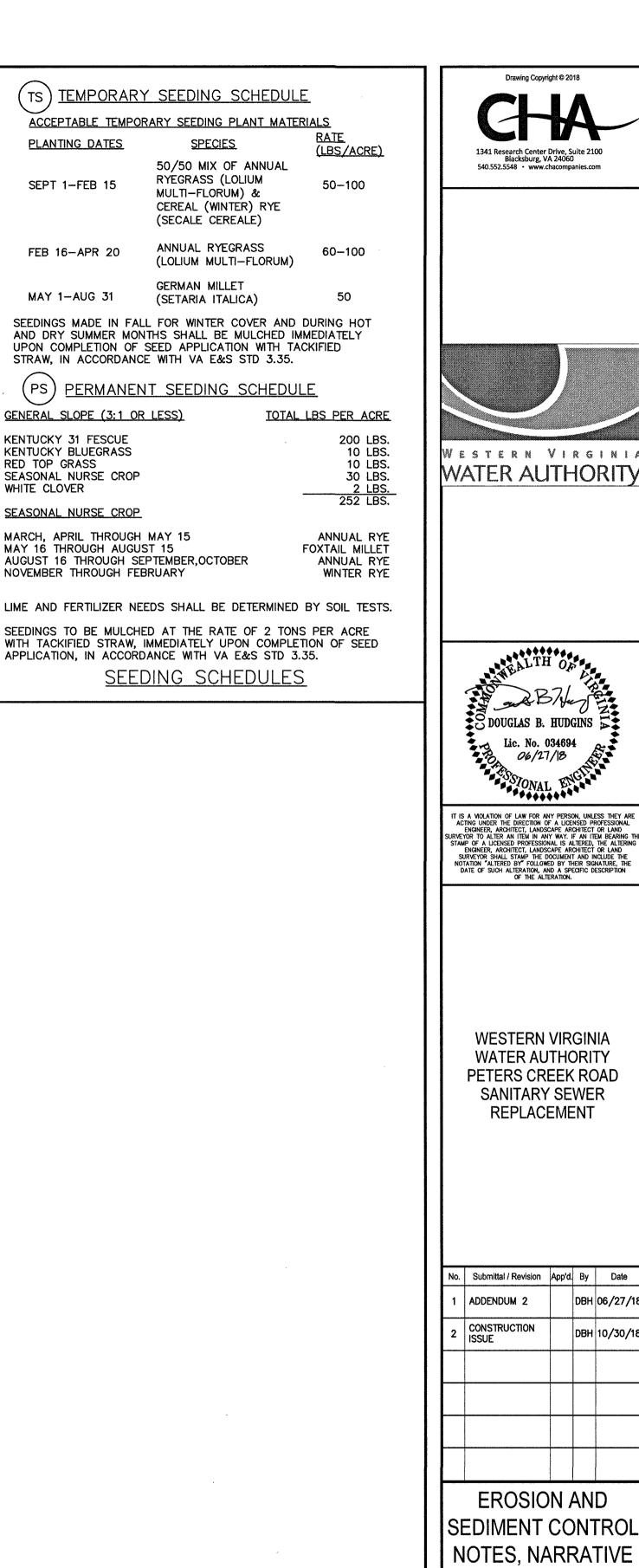
IMPRACTICAL, THEY SHALL BE IMPLEMENTED AS SOON AS PRACTICAL.





INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL CURB INLET SEDIMENT FILTER



DISTURBED

GRASSED

