

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF IMPROVEMENTS ASSOCIATED WITH A NEW ALDI GROCERY STORE TO BE LOCATED AT THE CORNER OF VIRGINIA BEACH BOULEVARD AND THALIA ROAD IN VIRGINIA BEACH, VIRGINIA. THE SITE AREA IS 6.812 ACRES, AND THE DISTURBED AREA IS 2.99 ACRES.

PROPOSED IMPROVEMENTS INCLUDE A NEW 19,054 SQUARE-FOOT BUILDING AND ASSOCIATED DRIVE AISLES, PARKING AREAS, CURBING, WATER AND SEWER SYSTEMS, AND STORM DRAINAGE SYSTEMS. SITE WORK INCLUDES DEMOLITION OF PORTIONS OF THE EXISTING STORE, PORTIONS OF THE EXISTING DRAINAGE NETWORK, CLEARING AND GRADING, UTILITY INSTALLATIONS, PAVING, AND LANDSCAPING.

THE PROJECT ALSO INCLUDES CONSTRUCTION OF A NEW LOADING DOCK AND PARKING AREA FOR MILLIS WAYSIDE FURNITURE.

ACCESS WILL BE PROVIDED FROM AN EXISTING ENTRANCE ON VIRGINIA BEACH BOULEVARD ON THE SOUTHERN SIDE OF THE SITE AS WELL AS TWO EXISTING ENTRANCES ON THALIA ROAD ON THE WESTERN SIDE OF THE SITE.

EXISTING SITE CONDITIONS

CURRENTLY, THE SITE IS A SHOPPING CENTER, WITH EXISTING BUILDINGS, PARKING, UTILITIES, AND LANDSCAPING REMAINING. THE MAJORITY OF THE EXISTING SITE IS IMPERVIOUS.

THE EXISTING ELEVATIONS RANGE FROM APPROXIMATELY 10 FEET TO 13 FEET WITH RELATIVELY FLAT SLOPES THROUGHOUT THE CENTER OF THE PROPERTY AND EXISTING PARKING LOTS AND DRIVE AISLES. THE EXISTING SITE IS APPROXIMATELY 60% IMPERVIOUS WITH TYPE 2 SOILS. CURRENTLY, THE MAJORITY OF THE SITE DRAINS TOWARD CATCH BASINS AND ULTIMATELY INTO AN INFILTRATION BASIN ON THE NORTHWEST CORNER OF THE SITE. A SMALL PORTION OF THE SITE DRAINS INTO CURB INLETS ON THE SOUTH SIDE OF THE ADJACENT PROPERTY AND ULTIMATELY CONNECTS TO THE DRAINAGE NETWORK ON VIRGINIA BEACH BOULEVARD.

ADJACENT AREAS

THE SUBJECT SITE IS BORDERED BY EXISTING COMMERCIAL TO THE EAST, RESIDENTIAL TO THE NORTH, VIRGINIA BEACH BOULEVARD TO THE SOUTH, AND THALIA ROAD TO THE WEST.

OFF-SITE AREAS

OFF-SITE LAND DISTURBANCE IS LIMITED TO UTILITY CONNECTIONS ALONG THALIA ROAD AND CURB TIE-INS ON THE ADJACENT PROPERTY.

SOILS

THE MAJORITY OF THE SITE HAS BEEN ALTERED FROM ITS NATURAL STATE. MUCH OF THE SITE CONSISTS OF PAVED AREAS AND FILL SECTIONS REMAINING FROM THE EXISTING COMMERCIAL USE.

FOR MORE DETAILED SOILS INFORMATION, SEE THE FINAL EGS GEOTECHNICAL REPORT.

CRITICAL AREAS

NO CRITICAL AREAS ARE IDENTIFIED WITH THIS PROJECT, AND NO AREAS ARE EXPECTED TO BECOME CRITICAL DURING CONSTRUCTION.

PERMANENT STABILIZATION

PERMANENT STABILIZATION SHALL BE PROVIDED BY THE SITE CONTRACTOR AND WILL BE ACHIEVED WITH SEEDING OR SODDING AS SHOWN ON THE LANDSCAPING PLAN SHEET FOR ALL VEGETATED AREAS. CONCRETE, PAVEMENT, AND OTHER IMPERVIOUS SURFACES WILL STABILIZE THE REMAINDER OF THE SITE.

SOIL STOCKPILE NOTE

NO SOIL STOCKPILES ARE ANTICIPATED FOR THIS PROJECT. HOWEVER, IF ONE IS NEEDED, AN AREA IS DESIGNATED ON SHEETS CE-101 AND CE-102.

EROSION & SEDIMENT CONTROL (ESC) AND TREE PROTECTION NOTES

- 1. THE OWNER/DEVELOPER/CONTRACTOR/R/LD WILL COMPLY WITH THE APPLICABLE REGULATIONS OF THE CITY OF VIRGINIA BEACH AND THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS, LATEST EDITION, AS DEEMED NECESSARY BEFORE, DURING, AND AFTER CONSTRUCTION.
2. ALL EROSION AND SEDIMENT CONTROL AND TREE PROTECTION DEVICES SHALL BE INSTALLED WITH THE FIRST STAGE OF CONSTRUCTION AND WILL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS ARE STABILIZED, EROSION AND SEDIMENT CONTROL, AND TREE PROTECTION DEVICES SHOWN ON THE PLAN ARE THE MINIMUM NECESSARY AND SHALL REMAIN IN PLACE UNTIL THE RELEASE OF THE EROSION AND SEDIMENT CONTROL BOND. THE ADDITION OR DELETION OF EROSION AND SEDIMENT CONTROL AND TREE PROTECTION DEVICES WILL BE AT THE DIRECTION OF THE PLANNING CIVIL INSPECTOR.
3. ALL LAND DISTURBING ACTIVITIES MUST CONFORM WITH THE APPLICABLE REGULATIONS OF THE CITY OF VIRGINIA BEACH CODES, ORDINANCES, AND PMS AND THE VIRGINIA DEPARTMENT OF CONSERVATION AND RECREATION EROSION AND SEDIMENT CONTROL HANDBOOK. THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION, INCLUDING THE APPLICATION OF TEMPORARY AND/OR CONSTRUCTION TO CONTROL EROSION AND PREVENT OR MINIMIZE SEDIMENT RUNOFF. THE PLANNING DEPARTMENT/PERMITS AND INSPECTIONS DIVISION SHALL ENFORCE THESE REQUIREMENTS. THE CITY INSPECTOR RESERVES THE RIGHT TO REQUIRE OTHER MEASURES NOT SPECIFICALLY DESCRIBED HEREIN TO CORRECT ANY EROSION OR SITUATION CONDITION.
4. THE OWNER/DEVELOPER/CONTRACTOR/R/LD WILL CONSTRUCT AND MAINTAIN A TEMPORARY CONSTRUCTION ENTRANCE AT EACH POINT OF INGRESS/EGRESS USING FILTER FABRIC UNDERLAYER WITH TWO-INCH(2") STONE OR GREATER WITH A MINIMUM WIDTH OF 12 FEET AND MINIMUM LENGTH OF 70 FEET. SITES WITH SIGNIFICANT CONSTRUCTION TRAFFIC MAY BE REQUIRED TO INSTALL A LARGER WIDTH AND/OR LONGER LENGTH CONSTRUCTION ENTRANCE AS DEEMED NECESSARY BY THE DSC'S ENGINEER OR THE PLANNING CIVIL INSPECTOR. A WASH RACK MAY BE DEEMED NECESSARY AND REQUIRED BY THE PLANNING CIVIL INSPECTOR.
5. THE OWNER/DEVELOPER/CONTRACTOR/R/LD WILL CONSTRUCT, INSTALL, AND MAINTAIN SUFFICIENT EROSION AND SEDIMENT CONTROL DEVICES TO PREVENT SOIL FROM BEING ERODED AND PLACED ON ADJACENT STREETS, DRAINAGE SYSTEMS, AND WATERCOURSES. DEVICES WILL BE CLEAR OF MUD, DEBRIS, AND ERODED MATERIAL DURING ALL STAGES OF CONSTRUCTION. DEVICES ARE SUBJECT TO INSPECTIONS AFTER A STORM EVENT AND/OR AS REQUIRED BY THE PLANNING CIVIL INSPECTOR. DEWATERING AND WELL POINT DISCHARGE OPERATIONS MUST PROVIDE APPROPRIATE EROSION AND SEDIMENT CONTROL DEVICES AND PRACTICE AND BE APPROVED BY THE PLANNING CIVIL INSPECTOR PRIOR TO THE COMMENCEMENT OF DISCHARGE OPERATIONS. A STOP WORK ORDER MAY BE ISSUED AND/OR OTHER LEGAL ACTION TAKEN FOR NON-COMPLIANCE.
7. ALL DISTURBED AREAS WILL BE IMMEDIATELY BE STABILIZED IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND WILL NOT EXCEED A MAXIMUM HORIZONTAL TO VERTICAL SLOPE OF THREE (3) TO ONE (1). TEMPORARY SEEDING IS REQUIRED IMMEDIATELY AFTER DISTURBANCE DURING ALL PHASES OF CONSTRUCTION.
8. THE OWNER/DEVELOPER/CONTRACTOR/R/LD WILL MONITOR AND TAKE PRECAUTIONS TO CONTROL DUST, (INCLUDING BUT NOT LIMITED TO) THE USE OF WATER OR CHEMICAL DUST PALLIATIVE, BY LIMITING THE NUMBER OF VEHICLES ALLOWED ON-SITE, AND MINIMIZING THE OPERATING SPEED OF ALL VEHICLES.
9. RIPRAP WILL BE PLACED AT NORMAL WATER ELEVATIONS OF THE PROPOSED WET POND TO PREVENT EROSION OR AS DIRECTED BY THE PLANNING CIVIL INSPECTOR.
10. PRIOR TO CLEARING, GRADING, OR CONSTRUCTION, TREE PROTECTION WILL BE PLACED AROUND ALL TREES TO BE RETAINED. THE TREE PROTECTION WILL BE IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. SPECIFICATION 3.36 TREE PRESERVATION AND PROTECTION REPLACING ANY PAVEMENT (WITH THE MINIMUM AS SPECIFIED IN CHAPTER 5 OF THE PMS) WITH MATCHING MATERIALS, SUCH AS, AND SHALL BE LOCATED IN A CIRCULAR PATTERN AROUND THE TREE WITH A MINIMUM DISTANCE EQUAL TO THE DRUPINE OF THE TREE, OR A MINIMUM OF FIVE FEET (5'), WHICHEVER IS GREATER.
11. ITEMS INCLUDING, BUT NOT LIMITED TO, BOARDS, WIRES, OR SIGNAGE, SHALL BE NAILED OR ATTACHED TO TREES TO BE RETAINED.
12. DAMAGED TREE LIMBS WILL BE CUT BACK TO THE NEXT LATERAL BRANCH OR PARENT STEM AT THE BRANCH COLLAR. CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY CITY ARBORIST.
13. TREES TO BE RETAINED, THAT ARE DESTROYED DURING CONSTRUCTION WILL BE REPLACED BY TREES OF AT LEAST 2 1/2-INCH CALIPER, OF THE SAME SPECIES AND QUALITY OR AS SPECIFIED BY THE CITY ARBORIST. REPLACEMENT TREES WILL CONFORM TO THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK AND LANDSCAPING GUIDE CITY OF VIRGINIA BEACH (2002).
14. AFTER OBTAINING THE LAND DISTURBING PERMIT, AND AT LEAST 48-HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL CONTACT PLANNING/CIVIL INSPECTIONS AT 757-385-4558 TO SCHEDULE A PRE-CONSTRUCTION MEETING. FAILURE TO CONTACT PLANNING/CIVIL INSPECTIONS PRIOR TO ANY LAND DISTURBING ACTIVITY MAY RESULT IN A STOP WORK ORDER OR OTHER LEGAL ACTION.
15. SILT FENCE FABRICS SHALL BE 36" TALL, STAKED WITH 2X2" HARDWOOD STAKES, 6-FOOT ON CENTERS.
16. TRUCKS ENTERING HIGHWAY SIGNS MUST BE PLACED BEFORE THE CONSTRUCTION ENTRANCE IN EACH DIRECTION.
17. ANY AND ALL MATERIAL OR DEBRIS TRACKED ONTO A PUBLIC OR PRIVATE ROAD SURFACE WILL BE REMOVED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR SWEEPING AND BE TRANSPORTED TO A SEDIMENT CONTROLLED DISPOSAL AREA.
18. ALL EXCAVATED MATERIAL SHALL BE DISPOSED IN A LAWFUL MANNER.

EROSION CONTROL MEASURES

THE FOLLOWING EROSION CONTROL MEASURES AS SHOWN ON THE EROSION CONTROL PLAN SHEET(S) OF THE SITE PLAN WILL BE USED FOR THIS PROJECT:

3.01 SAFETY FENCE - A PROTECTIVE BARRIER INSTALLED TO PREVENT ACCESS TO EROSION CONTROL MEASURES. THE PURPOSE OF THIS PRACTICE IS TO PROHIBIT THE UNDESIRABLE USE OF AN EROSION CONTROL MEASURE BY THE PUBLIC. SAFETY FENCE SHALL BE CHECKED REGULARLY FOR WEATHER-RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS MUST BE MADE IMMEDIATELY. CARE SHOULD BE TAKEN TO SECURE ALL ACCESS POINTS (GATES) AT THE END OF EACH WORKING DAY. ALL LOCKING DEVICES MUST BE REPAIRED OR REPLACED AS NECESSARY.

3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE - A STABILIZED STONE PAD WITH A FILTER FABRIC UNDERLAYER WILL BE PROVIDED AT THE PRIMARY CONSTRUCTION ACCESS POINT. THE PURPOSE OF THIS PRACTICE IS TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PAVED PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

3.05 SILT FENCE - A TEMPORARY SEDIMENT BARRIER CONSISTING OF A SYNTHETIC FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENRENCHED WILL BE PROVIDED AROUND MUCH OF THE SITE PERIMETER AND PARALLEL TO SLOPED AREAS. THE PURPOSE OF THIS PRACTICE IS TO INTERCEPT AND DETAIN SMALL ANIMAL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

3.07 STORM DRAIN INLET PROTECTION - A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN DRAIN INLET OR CURB INLET WILL BE PROVIDED AT ALL INLET LOCATIONS WITHIN THE LIMITS OF DISTURBANCE. THE PURPOSE OF THIS PRACTICE IS TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

3.18 OUTLET PROTECTION - STRUCTURALLY LINED APRONS OR OTHER ACCEPTABLE ENERGY DISSIPATING DEVICES PLACED AT THE OUTLETS OF PIPES OR PAVED CHANNEL SECTIONS. THE PURPOSE OF THIS PRACTICE IS TO PREVENT SCOUR AT STORMWATER OUTLETS, TO PROTECT THE OUTLET STRUCTURE, AND TO MINIMIZE THE POTENTIAL FOR DOWNSTREAM EROSION BY REDUCING THE VELOCITY AND ENERGY OF CONCENTRATED STORMWATER FLOWS.

3.31 TEMPORARY SEEDING - THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH APPROPRIATE RAPIDLY GROWING ANNUAL PLANTS WILL BE PROVIDED ON ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN 90 DAYS. TEMPORARY SEEDING SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN LONGER THAN 30 DAYS AS PER MS-1. THE PURPOSE OF THIS PRACTICE IS TO PROVIDE PROTECTION TO BARE SOILS EXPOSED DURING CONSTRUCTION UNTIL PERMANENT VEGETATION OR OTHER EROSION CONTROL MEASURES CAN BE ESTABLISHED.

3.32 PERMANENT SEEDING - THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PERMANENT SEEDING WILL BE PROVIDED AS SHOWN ON THE LANDSCAPING PLAN. PERMANENT SEEDING SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED AS PER MS-1. THE PURPOSE OF THIS PRACTICE IS TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS AND TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THAT IS ECONOMICALLY ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.

3.33 SODDING: STABILIZATION OF FINE-GRADED DISTURBED AREAS BY ESTABLISHING PERMANENT GRASS STANDS WITH SOO WILL BE PROVIDED FOR ALL AREAS ON-SITE AS SHOWN ON THE LANDSCAPING PLAN. THE PURPOSE OF THIS PRACTICE IS TO ESTABLISH PERMANENT TURF IMMEDIATELY AND TO PREVENT EROSION AND DAMAGE FROM SEDIMENT AND RUNOFF BY STABILIZING THE SOIL SURFACE.

3.36 TREE PRESERVATION & PROTECTION - PROTECTION OF DESIRABLE TREES FROM MECHANICAL AND OTHER INJURY DURING LAND DISTURBING AND CONSTRUCTION ACTIVITY. THE PURPOSE OF THIS PRACTICE IS TO ENSURE THE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL, WATERSHED PROTECTION, LANDSCAPE BEAUTIFICATION, DUST AND POLLUTION CONTROL, NOISE REDUCTION, SHADE AND OTHER ENVIRONMENTAL BENEFITS WHILE THE LAND IS BEING CONVERTED FROM FOREST TO URBAN-TYPE USES.

STOCKPILING - TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT. STABILIZE OR PROTECT STOCKPILES IN ACCORDANCE WITH MINIMUM STANDARD #2. THE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2H:1V. PERIMETER CONTROLS MUST BE PLACED AROUND THE STOCKPILE IMMEDIATELY. SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 7 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH STD. AND SPEC. 3.31 (TEMPORARY SEEDING). IF IT IS TO REMAIN DORMANT FOR LONGER THAN 30 DAYS (REFER TO MINIMUM STANDARD #1 AND #2).

PERMANENT STABILIZATION

PERMANENT STABILIZATION WILL BE ACHIEVED WITH SODDING AND SEEDING AS SHOWN ON THE LANDSCAPING AND PHASE II EROSION CONTROL PLAN SHEETS OF THE SITE PLAN FOR ALL VEGETATED AREAS. CONCRETE, PAVEMENT, AND OTHER IMPERVIOUS SURFACES WILL STABILIZE THE REMAINDER OF THE SITE.

MAINTENANCE

BEFORE THE TIME THE EROSION CONTROL PLAN IS IMPLEMENTED AND FINAL SITE STABILIZATION IS ACHIEVED, ALL DISTURBED AREAS AND EROSION CONTROLS MUST BE INSPECTED NOT LESS THAN ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN FORTY-EIGHT (48) HOURS FOLLOWING A RUNOFF PRODUCING RAINFALL EVENT.

EXAMPLES OF PARTICULAR ITEMS TO BE EVALUATED DURING SITE INSPECTIONS ARE LISTED BELOW. THIS LIST IS NOT INTENDED TO BE COMPREHENSIVE. DURING EACH INSPECTION, EACH INSPECTOR MUST EVALUATE OVERALL EROSION CONTROL SYSTEM PERFORMANCE, AS WELL AS THE EFFECTIVENESS OF SYSTEM COMPONENTS. ADDITIONAL FACTORS SHOULD BE CONSIDERED AS APPROPRIATE TO THE CIRCUMSTANCES.

- LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED WHERE VEHICLES ENTER AND EXIT. THIS ENTRANCE WILL BE MAINTAINED OR SUPPLEMENTED AS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE ON VEHICLES. SEDIMENT TRACKED ONTO PUBLIC ROADWAYS MUST BE SHOVELED OR SWEEPED FROM THE ROADWAY AND RE-DEPOSITED ON SITE IN A MANNER THAT MINIMIZES ITS OFFSITE RELEASE POTENTIAL.
SEDIMENT BARRIERS MUST BE INSPECTED AND, IF NECESSARY, THEY MUST BE ENLARGED OR CLEANED IN ORDER TO PROVIDE ADDITIONAL CAPACITY. ALL MATERIAL EXCAVATED FROM BEHIND SEDIMENT BARRIERS SHALL BE STOCKPILED ON THE UP SLOPE SIDE OF THE BARRIER. ADDITIONAL SEDIMENT BARRIERS MUST BE CONSTRUCTED AS NEEDED.
INSPECTIONS WILL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVERS MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERMS MUST BE CONSTRUCTED, IF NEEDED, IN ORDER TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS.
GRASSED AREAS WILL BE INSPECTED TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED. THE SITE HAS ACHIEVED FINAL STABILIZATION WHEN TURF GRASS COVER PROVIDES PERMANENT STABILIZATION OF THE SOIL SURFACE EXCLUSIVE OF AREAS THAT HAVE BEEN PAVED OR COVERED BY BUILDING(S). PERMANENT STABILIZATION IS NOT CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO RECEIVING WATERS.

BASED UPON THE RESULTS OF THE INSPECTIONS, EACH EROSION AND SEDIMENT CONTROL MEASURE SHALL BE REPAIRED AND/OR MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE REQUIREMENTS SPECIFIED IN THE CORRESPONDING COPY OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK. THE CONTRACTOR SHALL MAINTAIN A COPY OF THIS HANDBOOK ON SITE AT ALL TIMES DURING CONSTRUCTION.

TEMPORARY SEEDING REQUIREMENTS

Table with 3 columns: APPLICATION DATES, SPECIES, APPLICATION RATES. Includes rows for Sept 1 - Feb 15, Feb 16 - Apr 30, and May 1 - Aug 31 with various species like Ryegrass and Fescue.

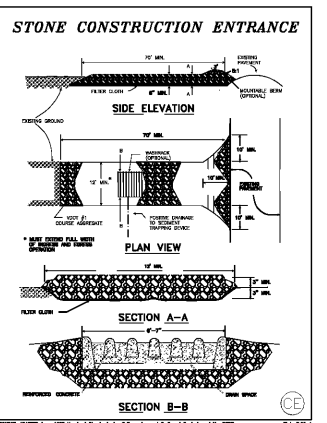
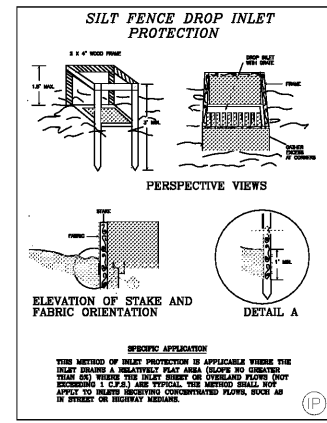
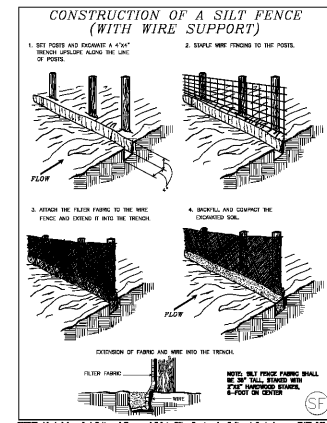
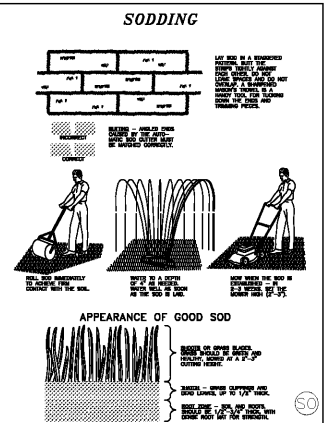
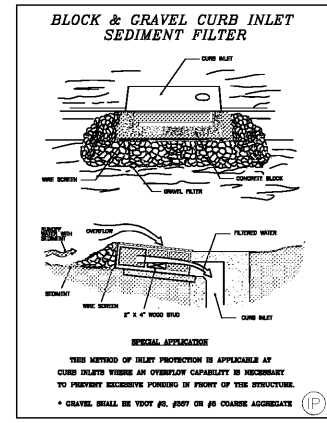
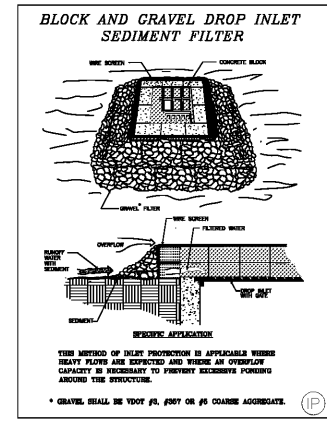
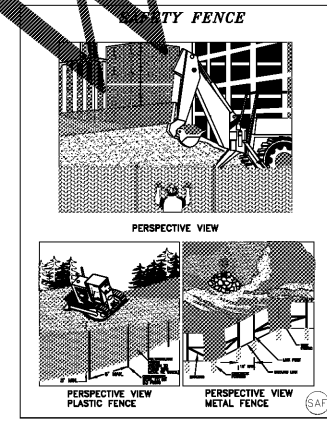
PERMANENT SEEDING REQUIREMENTS

Table with 3 columns: LAND USE, SPECIES, APPLICATION RATES. Includes rows for General Case, Steep Slope (3:1 or steeper), and Low-Maintenance Slope (Steeper than 3:1).

- 1 - When selecting varieties of turfgrass, use the Virginia Crop Improvement Association (VCI) recommended turfgrass variety list. Quality seed will have a label indicating that they are approved by VCI. A current turfgrass variety list is available at the Loudoun County Extension office or through VCI at 804-749-4888 or at http://www.vci.virginia.edu/extension/turfgrass/varietylist.html
2 - Use seasonal nurse crop in accordance with seeding dates as stated below:
February, March - April Annual Ryegrass
May 1st - August Perennial Ryegrass
September, October - November 1st Annual Ryegrass
November 1st - January Winter Ryegrass
3 - May through October, use hulled seed. All other seeding periods, use unhulled seed. If Winter Ryegrass is used, include in any slope or low maintenance moisture during warmer seeding periods, increase to 30-40 lbs/acre.

FERTILIZER & LIME

- Apply 10-20-10 fertilizer at a rate of 500 lbs./acre (or 12 lbs./1,000 sq. ft.)
Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs./1,000 sq. ft.)
NOTE:
- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4 - 6 inches of the soil by diskage or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 14, 2003 Nutrient Management for Development Sites at http://www.dsc.state.virginia.edu/technicalbulletins/



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A BID SET
B
C
D
Revisions: Date:
1 ADDRESS CITY COMMENTS 05/11/2017
2 ADDRESS CITY COMMENTS 07/11/2017
3
4
5
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Project Name & Location:
EROSION & SEDIMENT CONTROL NOTES AND DETAILS
Date: 02/08/17
Type:
Drawn By: SMP
Scale: As Noted
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Order Plans @

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