QASCD-_____- L_____

QUEEN ANNE'S COUNTY
STANDARD EROSION and SEDIMENT CONTROL PLAN
FOR SINGLE-FAMILY CONSTRUCTION

Tax Map _____ Parcel _____ Lot _____

Property Location: _____

Owner's Name: _____ Owner's Phone: _____

Owner's Address: _____

_____ Zip: _____

Developer's Name: _____ Developer's Phone: _____

Developer's Address: _____

. . . . . .

Project Description

Subdivision Name (if applicable): _____

_____

Total Lot/Parcel Area: _____ acres

Total Area to be disturbed by development: _____ sq. ft.

_____ cu. yds.

Waterfront Lots – Distance of disturbance from Mean High Water line, wetland or free-flowing stream: _____ feet

Include/attach a sketch on 8 ½ " x 11" paper showing proposed work and relationship to site and surrounding area, for all projects.

. . . . . .

Certification

"I certify that I have the authority to make the foregoing application; that the information above and on the attached plan is correct; and that I have the ability to meet all the limitations and conditions set forth by this agreement."

APPLICANT'S SIGNATURE: _____ DATE: _____

CORPORATE NAME (IF APPLICABLE) _____

LANDOWNER'S SIGNATURE (IF DIFFERENT) _____ DATE: _____

APPROVED:

Queen Anne's Soil Conservation District

211 E. Water Street

Centreville, MD 21617

(410) 758-3136

_____ Date: _____

Queen Anne's Soil Conservation District

QASCD-_____- L_____

I. CONDITIONS

A. This Standard Erosion and Sediment Control Plan may be used instead of a detailed plan for earth disturbances Where all of the following conditions are met:

1. The owner, builder, or developer is not the same owner, builder, or developer of any contiguous lots undergoing development.
2. The undeveloped lot is completely vegetated.
3. No slopes steeper than 3 horizontal units to 1 vertical unit, (33%), will be disturbed.
4. No more than 15,000 square feet of earth will be disturbed and no more than 500 cubic yards of earth movement will occur.
5. No grading will take place within 100 feet of any perennial stream, non-tidal wetlands or mean high water line of any tidal waters.
6. The attached plat plan shows the proposed development, with arrows indicating the drainage pattern of the site, limits of grading, location of silt fence, SCE and stockpile.

II. PROVISIONS

A. Access to the site and this plan shall be available at all times for inspection by the inspection agency.

B. **The applicant must notify the QASCD at least 48 hours prior to commencing clearing or grading at 410-758-3136, x.3 to schedule pre-construction meeting.**

C. In the event that the applicant fails to provide adequate sediment control according to the provisions of this plan, the inspection agency reserves the right to require corrective action.

D. Nothing herein relieves the applicant from complying with any and all other State or County/Municipal regulations.

E. This Standard Erosion and Sediment Control Plan will remain valid for two (2) years from the date of approval.

III. GRADING

A. Initial earth disturbance shall be limited to that necessary to install sediment control measures.

B. The permanent driveway or entrance shall be used as a stabilized construction entrance. Two inch stone shall be placed at least 6 inches deep, 30 feet long and 10 feet wide. The entrance shall be top dressed as necessary to prevent tracking of sediment onto public roads, streets or right-of-ways.

C. All load bearing fills will be free of any organic or other deleterious material and will be compacted. All areas to receive fill will have the ground surface prepared by removing all existing vegetation.

D. At any location where surface runoff from disturbed or graded areas flows off the property, silt fence, stone check dams or straw bale dikes shall be installed to prevent sediment from being transported off-site. Specifications for silt fence, stone check dams and straw bale dikes are attached to this plan.

E. Swales or other areas that transport concentrated flow shall be sodded or seeded and mulched/matted. Downspouts shall be protected by splashblocks, pipe or sod.

F. Grading shall not impair existing surface drainage, create an erosion hazard, or create a source of sediment to any adjacent watercourse or property.

G. Final graded slopes shall be no steeper than three (3) horizontal units to (1) vertical unit (33%).

H. All sediment control structures shall be maintained in effective operating condition until the site is permanently stabilized.

I. The applicant bears the continuing responsibility to effectively abate sediment pollution and comply with all other applicable local and state laws.

IV. EROSION AND SEDIMENT CONTROL MEASURES

A. Stabilization, Silt Fence, SCE; attached

B. For any other specifications reference the "2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control," or any subsequent revisions, or contact the Queen Anne's Soil Conservation District.

EROSION & SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

1.) Contractor shall install soil erosion and sediment control devices prior to any grading. Following initial disturbance or re–disturbance, permanent or temporary stabilization shall be completed within three (3) calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes greater than three (3) horizontal to one (1) vertical (3:1) and seven days (7) as to all other disturbed or graded areas on the project site.

2.) All temporary erosion and sediment control devices are to be provided as indicated on this plan, with location adjustments to be made in the field as necessary, and to be maintained at the end of each working day until project completion. The minimum area practical shall be disturbed for the minimal amount of time possible.

3.) Clearing and grubbing shall include all trees, brush, debris, root mat and organic materials to be removed.

4.) Temporary seeding shall be accomplished between February 15th through April 30th, or August 15th through November 30th. During other times, temporary mulching shall be provided.

5.) Temporary seeding shall conform to the following applications: 436 lbs. per acre of 10–20–20; 4,000 lbs. per acre of ground limestone, to be incorporated into the soil by disking or other suitable means. Annual rye grass shall be applied at a rate of 50 lbs. per acre using suitable equipment. Mulching shall be accomplished immediately after seeding

Seed Mixture (For Hazard Zone 7a) (From Table B–1)					Fertilizer Rate (10–20–20)	Lime Rate
No.	Species	Appl. Rate (lbs./ac.)	Seeding Dates	Seeding Depths		
	ANNUAL RYE GRASS	50 lbs.	2/15–4/30 8/15–11/30	1/2"	436 lb/ac 10 lb/ 1000 sf	2 tons/ac 90 lb/ 1000 sf
	BARLEY OATS WHEAT CEREAL RYE	96 lbs. 72 lbs. 120 lbs. 112 lbs.	2/15–4/30, 8/15–11/30 2/15–4/30, 8/15–11/30 2/15–4/30, 8/15–11/30 2/15–4/30, 8/15–12/15	1" 1" 1" 1"		
	FOXTAIL MILLET PEARL MILLET	30 lbs. 20 lbs.	5/1–8/14 5/1–8/14	1/2"		

6.) Mulching shall be unchopped, unrotted, small grain straw applied at a rate of 2–2 1/2 tons per acre. Anchor mulch with a mulch anchoring tool on the contour. Wood cellulose fiber may be used for anchoring straw at 750 lbs. per acre mixed with water at a maximum of 50 lbs. of wood cellulose fiber per 100 gals of water, or with a synthetic liquid binder according to manufacture recommendations. Wood cellulose fiber used as mulch must be applied at a net dry weight of 1,500 lbs. per acre. Mix wood cellulose fiber with water to attain a mixture with a maximum of 50 lbs. of wood cellulose fiber per 100 gals. of water.

7.) Permanent seeding shall be accomplished between March 1st through May 15th, or August 15th through October 15th. Permanent seeding at other than specified times will be allowed only upon written approval. Permanent seeding shall conform to the following applications: Permanent seeding for sites having disturbed over five (5) acres shall use fertilizer rates recommended by a soil testing agency and the recommendations provided in the Permanent Seeding Summary Table. Permanent seeding for conditions other than listed above shall be performed at the rates and dates as provided in the Permanent Seeding Summary Table below. Fertilizer and lime amendments shall be incorporated into the top 3" – 5" of the soil be disking or other suitable means. Mulching shall be accomplished as discussed in Item #6 of these specifications.

Seed Mixture (For Hazard Zone 7a) (From Table B–3)					Fertilizer Rate (10–20–20)			Lime Rate
No.	Species	Appl. Rate (lbs./ac.)	Seeding Dates	Seeding Depths	N	P205	K20	
7	CREEPING RED FESCUE KENTUCKY BLUEGRASS	60 lbs 15 lbs.	3/1–5/15 8/15–10/15	1/4" to 1/2"	45 lb/ac 1 lb/ 1000 sf	90 lb/ac 2 lb/ 1000 sf	90 lb/ac 2 lb/ 1000 sf	2 tons/ac 90 lb/ 1000 sf
8	TALL FESCUE	100 lbs.	3/1–5/15 8/15–10/15	1/4" to 1/2"				
9	TALL FESCUE KENTUCKY BLUEGRASS PERENNIAL RYEGRASS	60 lbs 40 lbs. 20 lbs.	3/1–5/15 8/15–10/15	1/4" to 1/2"				

8.) Any spoil or borrow will be placed at a site approved by the Soil Conservation District.

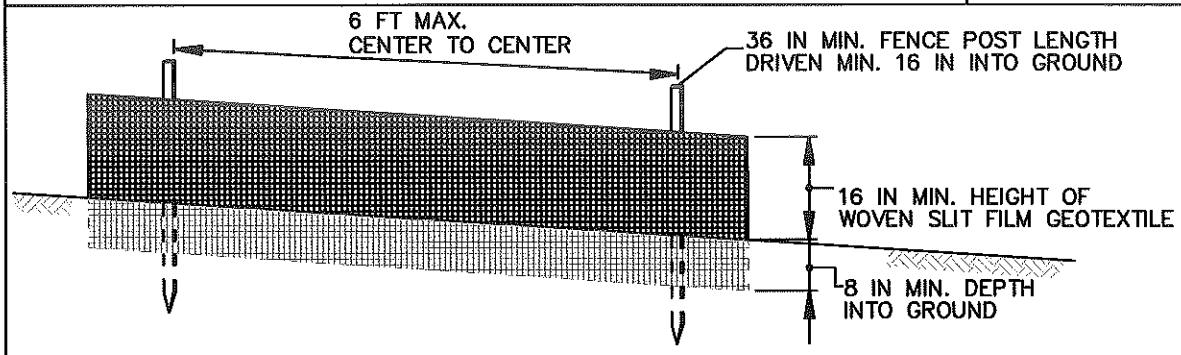
9.) All areas remaining or intended to remain disturbed for longer than seven (7) days shall be stabilized in accordance with the USDA, Natural Resources Conservation Service Standards and Specifications for Soil Erosion and Sediment Control in developing areas for critical area stabilization.

10) It will be the responsibility of the Contractor or Subcontractor to notify the Engineer of any deviation from this plan. Any change made in this plan without written authorization from the Engineer will place responsibility of said change on the Contractor or the Subcontractor.

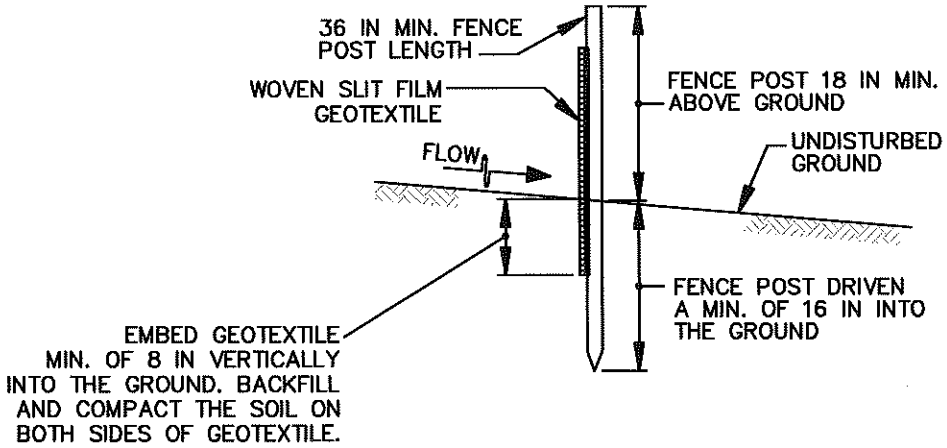
DETAIL E-1 SILT FENCE

STANDARD SYMBOL

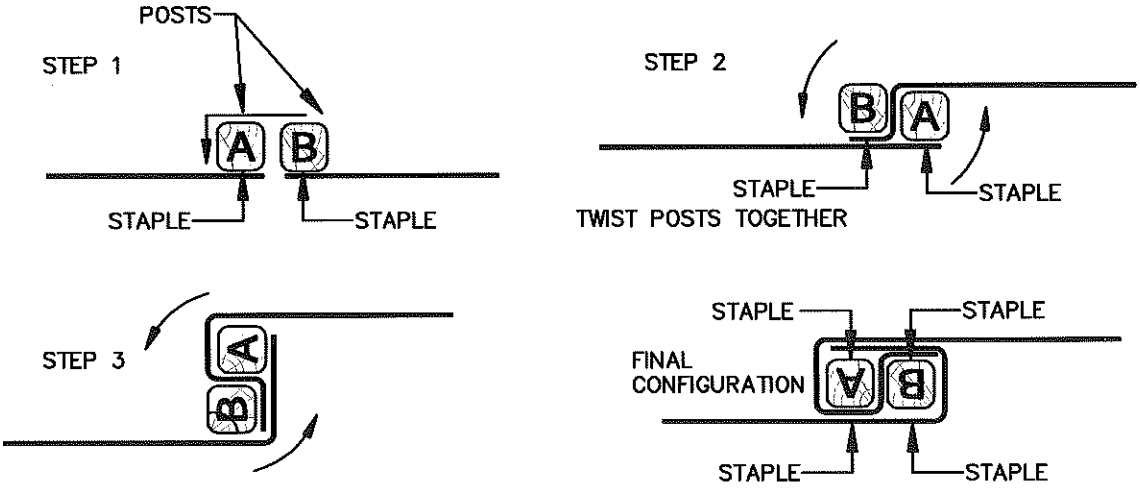
SF



ELEVATION



CROSS SECTION



JOINING TWO ADJACENT SILT FENCE SECTIONS (TOP VIEW)

1 OF 2

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

DETAIL E-1 SILT FENCE

STANDARD SYMBOL

|———SF———|

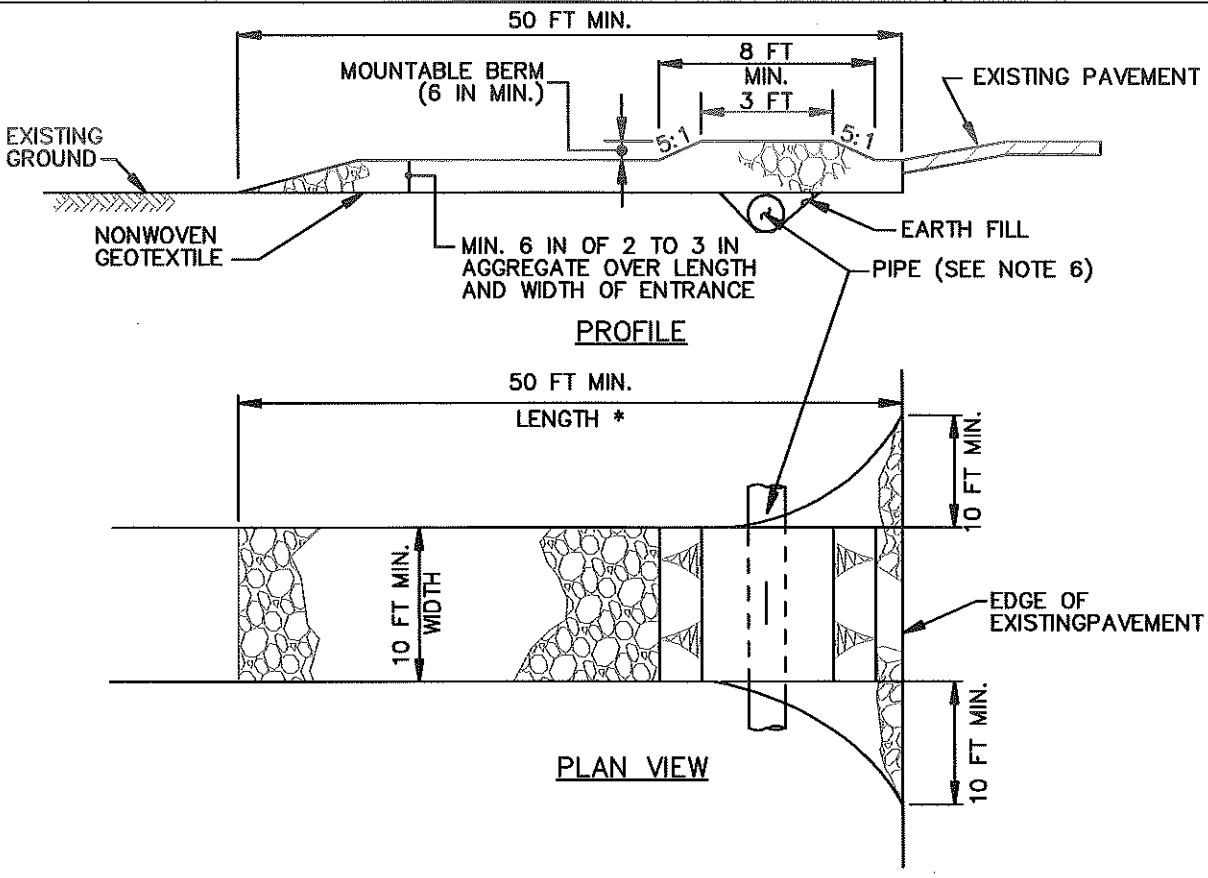
CONSTRUCTION SPECIFICATIONS

1. USE WOOD POSTS 1¾ X 1¾ ± 1/16 INCH (MINIMUM) SQUARE CUT OF SOUND QUALITY HARDWOOD. AS AN ALTERNATIVE TO WOODEN POST USE STANDARD "T" OR "U" SECTION STEEL POSTS WEIGHING NOT LESS THAN 1 POUND PER LINEAR FOOT.
2. USE 36 INCH MINIMUM POSTS DRIVEN 16 INCH MINIMUM INTO GROUND NO MORE THAN 6 FEET APART.
3. USE WOVEN SLIT FILM GEOTEXTILE AS SPECIFIED IN SECTION H–1 MATERIALS AND FASTEN GEOTEXTILE SECURELY TO UPSLOPE SIDE OF FENCE POSTS WITH WIRE TIES OR STAPLES AT TOP AND MID–SECTION.
4. PROVIDE MANUFACTURER CERTIFICATION TO THE AUTHORIZED REPRESENTATIVE OF THE INSPECTION/ENFORCEMENT AUTHORITY SHOWING THAT THE GEOTEXTILE USED MEETS THE REQUIREMENTS IN SECTION H–1 MATERIALS.
5. EMBED GEOTEXTILE A MINIMUM OF 8 INCHES VERTICALLY INTO THE GROUND. BACKFILL AND COMPACT THE SOIL ON BOTH SIDES OF FABRIC.
6. WHERE TWO SECTIONS OF GEOTEXTILE ADJOIN: OVERLAP, TWIST, AND STAPLE TO POST IN ACCORDANCE WITH THIS DETAIL.
7. EXTEND BOTH ENDS OF THE SILT FENCE A MINIMUM OF FIVE HORIZONTAL FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND THE ENDS OF THE SILT FENCE.
8. REMOVE ACCUMULATED SEDIMENT AND DEBRIS WHEN BULGES DEVELOP IN SILT FENCE OR WHEN SEDIMENT REACHES 25% OF FENCE HEIGHT. REPLACE GEOTEXTILE IF TORN. IF UNDERMINING OCCURS, REINSTALL FENCE.

DETAIL B-1 STABILIZED CONSTRUCTION ENTRANCE

STANDARD SYMBOL

SCE



CONSTRUCTION SPECIFICATIONS

1. PLACE STABILIZED CONSTRUCTION ENTRANCE IN ACCORDANCE WITH THE APPROVED PLAN. VEHICLES MUST TRAVEL OVER THE ENTIRE LENGTH OF THE SCE. USE MINIMUM LENGTH OF 50 FEET (*30 FEET FOR SINGLE RESIDENCE LOT). USE MINIMUM WIDTH OF 10 FEET. FLARE SCE 10 FEET MINIMUM AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.

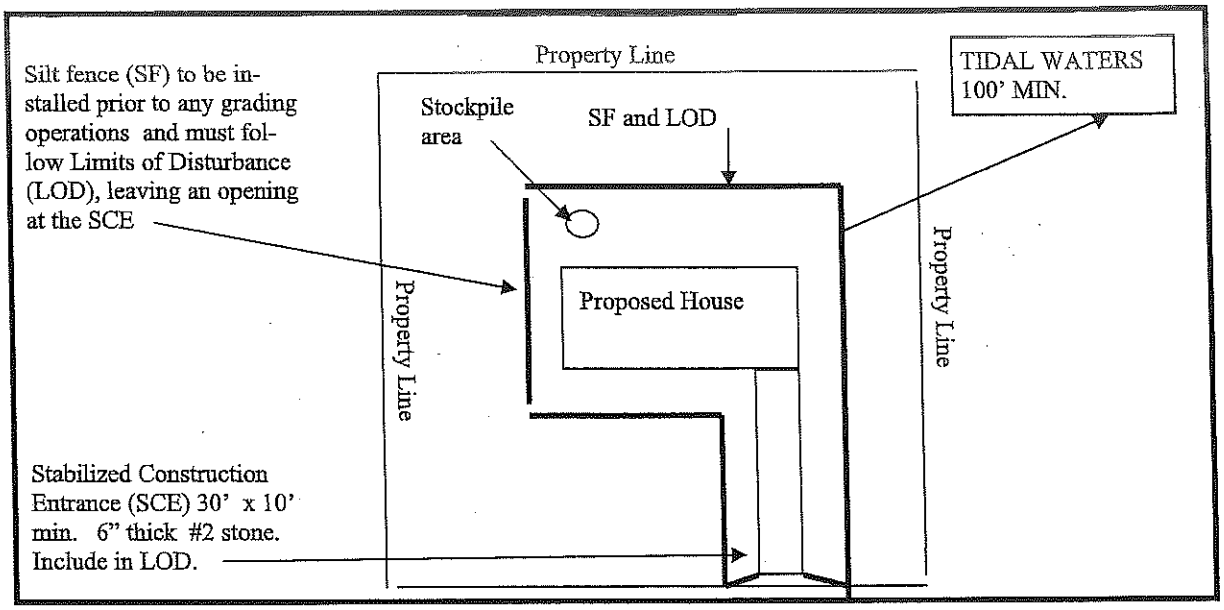
2. PIPE ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD THE SCE UNDER THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PROTECT PIPE INSTALLED THROUGH THE SCE WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 12 INCHES OF STONE OVER THE PIPE. PROVIDE PIPE AS SPECIFIED ON APPROVED PLAN. WHEN THE SCE IS LOCATED AT A HIGH SPOT AND HAS NO DRAINAGE TO CONVEY, A PIPE IS NOT NECESSARY. A MOUNTABLE BERM IS REQUIRED WHEN SCE IS NOT LOCATED AT A HIGH SPOT.

3. PREPARE SUBGRADE AND PLACE NONWOVEN GEOTEXTILE, AS SPECIFIED IN SECTION H–1 MATERIALS.

4. PLACE CRUSHED AGGREGATE (2 TO 3 INCHES IN SIZE) OR EQUIVALENT RECYCLED CONCRETE (WITHOUT REBAR) AT LEAST 6 INCHES DEEP OVER THE LENGTH AND WIDTH OF THE SCE.

5. MAINTAIN ENTRANCE IN A CONDITION THAT MINIMIZES TRACKING OF SEDIMENT. ADD STONE OR MAKE OTHER REPAIRS AS CONDITIONS DEMAND TO MAINTAIN CLEAN SURFACE, MOUNTABLE BERM, AND SPECIFIED DIMENSIONS. IMMEDIATELY REMOVE STONE AND/OR SEDIMENT SPILLED, DROPPED, OR TRACKED ONTO ADJACENT ROADWAY BY VACUUMING, SCRAPING, AND/OR SWEEPING. WASHING ROADWAY TO REMOVE MUD TRACKED ONTO PAVEMENT IS NOT ACCEPTABLE UNLESS WASH WATER IS DIRECTED TO AN APPROVED SEDIMENT CONTROL PRACTICE.

TYPICAL SINGLE LOT SEDIMENT & EROSION CONTROL PLAN



1. This plan is applicable for minor earth disturbances between 5,000 and 15,000 sq ft and/or earth movement between 100 and 500 cubic yards shall follow the above Standard Erosion and Sediment Control Plan. Any activity involving disturbance of more that 15,000 square feet of land area or 500 cubic yards of earth movement shall require a site specific Erosion and Sediment Control Plan. (Also known as an Engineered or "Full" plan)
2. Sediment control measures shall be maintained as necessary so that they continually perform their intended function.
3. No existing slopes greater than 3:1 shall be disturbed. Final graded slopes shall not be steeper than 3:1.
4. Initial earth disturbance shall be limited to that necessary to install erosion and sediment control measures.
5. The applicant bears the continuing responsibility to effectively abate sediment pollution and comply with all applicable local and state laws.
6. The applicant shall notify the Maryland Department of the Environment at 410.901.4020 at least two weeks prior to any land disturbing activity.
7. Following initial disturbance or redisturbance, permanent or temporary stabilization shall be completed within 3 calendar days as to surface of all perimeter controls, dikes, swales, ditches, perimeter slopes greater than 3:1 and 7 days as to all other disturbed or graded areas on the project site.

UPDATED
May 2014