

# July 2016 Howard SCD Engineering Newsletter

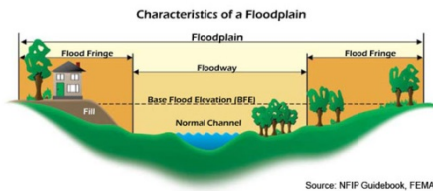


## Computations

Where an earth dike is used to convey clear water runoff, the discharge must be to an undisturbed, stable area at a non-erosive velocity (4 fps); otherwise, provide outlet protection.

In order to meet the above criteria, computations MUST BE provided. Please (**effective immediately**) provide the computations as required by the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control. Please also know this requirement is needed for swales, diversion fencing, etc.

## Waters of the State

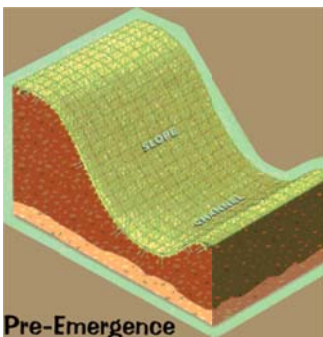


There are several references to "Waters of the State" in the 2011 MDE E&S manual which need to be shown

(delineated/labeled) on plans when near the L.O.D. Please note that "Waters of the State" include floodplains of all waterways, per COMAR 26.17.01.01.B(30). Floodplains typically extend beyond the "Waters of the U.S.", i.e. the "ordinary high water mark" (ca. streambanks). Also note that floodplains extend well upstream and beyond the FEMA floodplains, commonly referenced by consultants, however Waters of the State will not need to be labeled past the county 30 Ac. threshold. Refer to MDE Water Management Administration for any further requirements.

Tier II and impaired (sediment) status of receiving waters should be listed on plan.

## Erosion Control Matting



Erosion control matting is required on all swales, channels, diversion fencing, etc. The computations needed are those to show the maximum shear stress, and whether permanent or

temporary matting will be needed. **There is no instance when soil stabilization matting is not required in swales, channels, etc.**

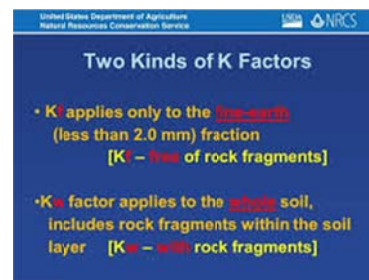
**In addition, all LOD within sensitive areas must receive immediate, same-day SSM for slope application**



## Phasing of Grading Operations Over 20 acres of disturbance

**Again, there can be no disturbance of land of 20 (twenty) acres or more without prior written consent of the approval agency. Plans are to address interim sediment control for the phasing operations. (Page A.3 of the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control...."**

**When phasing is necessary, the sediment control plan must include initial, interim, and final phase sediment control practices, as appropriate. A sequence of construction must be provided with enough detail to guide the construction, maintenance, and removal of the erosion and sediment controls."** Plans submitted that require Howard SCD signature approval that do not provide the above information will be subjected to resubmittal without further review or comment.



## "K" Factors"

Please show the highest "K" factor that will be "exposed" during grading operations, when providing soil erodibility in the Soils Tables on

plans not just the "K" factor at the soil surface. Also, please be sure to use the "Kw" number. For "Urban land (Ur)" please use the K-factor of the adjacent, non-urban soils.



## **Rainfall Depths**

Please begin using current NOAA rainfall depths and distributions from Win-TR55 (please see NRCS website).



## **SLIPLINING REPAIRS OF PONDS**

In an effort to streamline approvals, the MDE Dam Safety Division has agreed to allow the Howard SCD to review and approve sliplining projects so long as they meet certain conditions. These conditions are necessary as sliplining is not an explicit part of the MD-378 specifications. These conditions include the verification by consultant of original As-built approval, current NOAA hydrologic conditions revised hydraulic performance, new storage (“clogged”) routing (per NOAA C rainfall depth and distribution), structural strength of new barrel lining (assuming full loss of metal), and the addition of a filter diaphragm. Without these items the HSCD will defer review and approval to the MDE Dam Safety Division for their review and permit.



## **Capital Projects**

Note that Capital Projects are not exempt from the MDE 3 step plan process and must meet the requirements of the 2011 MD Stds. & Specs.. To facilitate processing and promote uniformity, the HSCD will emulate the recently enacted SHA “Sediment and Stormwater Guidelines and Procedures”, which subdivides a project into 30% Preliminary Investigation (a.k.a. Concept Stage), 65% Semi-Final Review (a.k.a. Site Development Stage) and 90% Final Review (a.k.a. Final Plan Stage), before submission of originals for signature approval. Please refer to these guidelines and associated checklists (available at the SHA website) for items typically expected at each planning stage. Please Note However: If a project qualifies for the use of the Howard SCD Standard Sediment Control Plan, there is NO NEED to provide the Howard SCD for a print for review. Simply download the Standard Plan from the District website, fill it out and obtain the necessary permit from the DILP.

## **Redlines to Plans**



Please know changes to plans that **affect only sediment control** can be submitted directly to the Howard SCD for review and approval. There is no need to send these plans through Howard County Department of Planning and Zoning, Development Engineering Division for their review or approval. The changes must involve sediment control only and cannot include an increase to the limit of disturbance.