

### Structural BMP Examples-Vehicle Tracking Pad

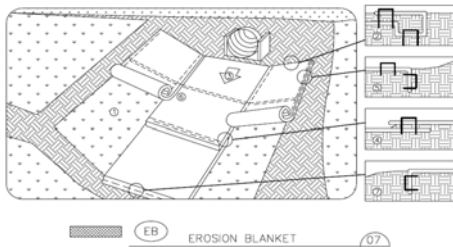


### Structural BMP Examples-Vehicle Tracking Pad



### Structural BMP Examples

- Erosion Control Blanket



### Structural BMP Examples-Erosion Control Blanket



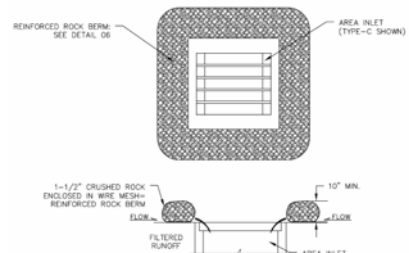
### Structural BMP Examples-Erosion Control Blanket

- Example of an alternative use



### Structural BMP Example

- Inlet Protection



### Structural BMP Example-Inlet Protection



### What are Non-Structural BMPs?

- Anything not requiring an engineer to design?
- There are numerous types of non-structural BMPs for stormwater quality improvement
- Common examples include:
  - County planning controls
  - education programs
  - enforcement programs

### Non-Structural BMPs



### Non-Structural BMPs

- Simple and effective BMPs for the construction site:
  - Seeding and mulching
  - Maintain existing vegetation
  - Grading techniques
    - Direct
    - Divert
    - Roughen

### Non-Structural Erosion Control

- Seeding and Mulching/Hydro-seeding



### Non-Structural Erosion Control

- Diversion Swale/Berm



## Non-Structural Erosion Control

- Surface Roughening



## Non-Structural Erosion Control?

- Erosion Control or Torpedo?



## Non-Structural BMPs

- Plan for final stabilization
  - All disturbed areas must be built upon, armored, or established with uniform vegetative cover of a density of at least 70%
  - Details
    - What type of cover will be used?
    - Seed mixtures and application rates?
    - Will the soils need to be amended?
    - Special methods for steep slopes/concentrated flows?

## Why is this important?



## Examples

- Proper vs. Improper Implementation



## Examples



- Before and After Construction

### Good or Bad Example?



### Good or Bad Example?



### What Not To Do...



### Land Disturbance Permit Approval

- NOI: Only need approved plan set acceptable to the County
- Grading Permit:
  - Requires an approved set of construction plans
  - Performance Guarantee
  - Construction Permit



### County Enforcement of Construction Sites

- Land Disturbance Permit Issuance: Upon approval by Planning and Zoning, the approved plans will be referred to an Engineering Inspector for permit issuance as referenced in the Jefferson County Policies and Procedures.
- The work associated with the permit shall be completed within 2 years of the date of permit issuance, unless an extension has been granted by Planning and Zoning.

### County Enforcement of Construction Sites

- Enforcement Mechanisms:
  - Verbal warnings
  - Written warnings
  - Stop Work Orders
  - Zoning Violations
  - Court Actions