Erosion & Sediment Control Workshop

Best Management
Practices
(BMPs)
for Linear
Transportation
Projects

Erosion & Sediment Control Workshop

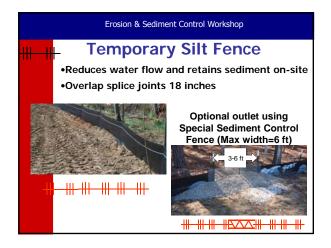
Perimeter Control Devices
Runoff Conveyance Measures
Velocity Control Treatments
Drain Inlet/Catch Basin Controls
Sediment Containment Systems

Erosion & Sediment Control Workshop

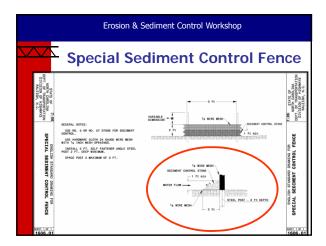
Perimeter Control Devices

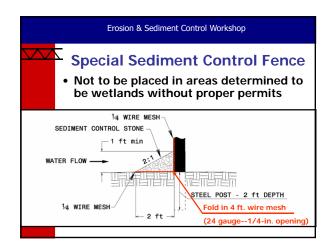
Safety Fence •Polyethylene or polypropylene orange fencing •Installed along the outside riparian buffer, wetland, or water boundary located within the construction corridor •Installed prior to ANY land disturbance •Conform to the ground contours •Wood or steel posts

Gravel Construction Entrance •2-5" stone placed on filter fabric •Approximately 50' long and 12' wide •Allow adequate turning radius for trucks •Minimizes tracking of soil onto pymt •Supplement stone



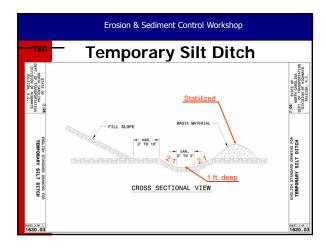






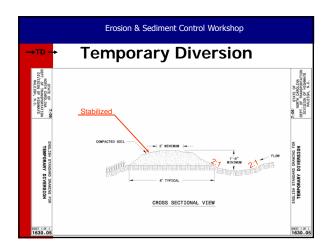




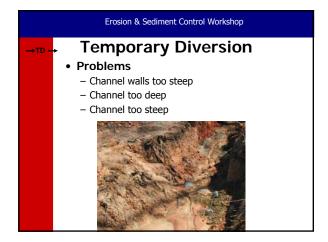








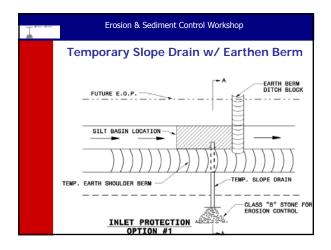


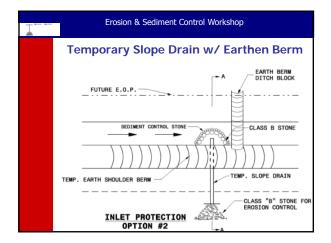


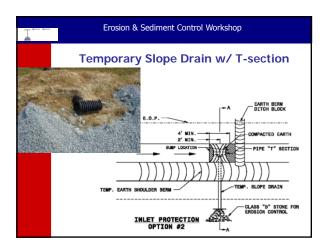


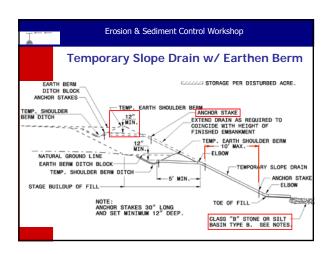
Runoff Conveyance Measures









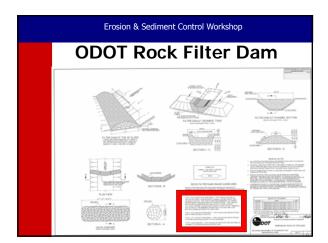


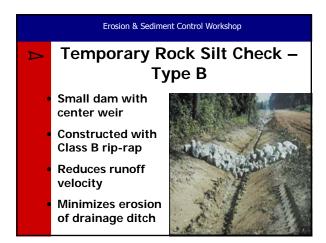


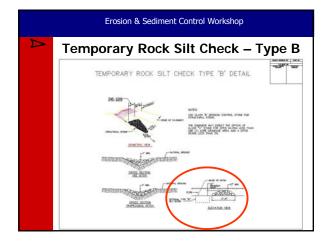


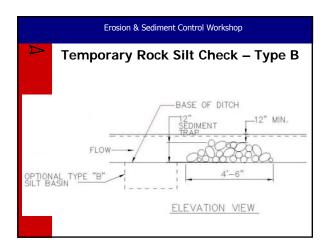


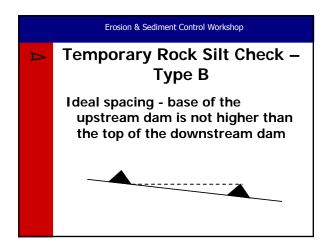
Velocity Control Treatments





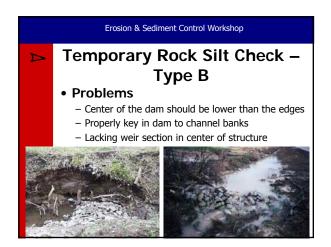




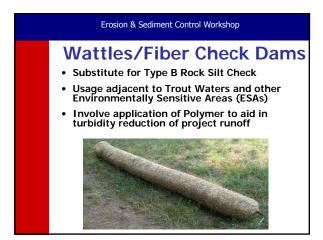


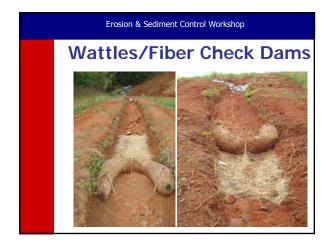


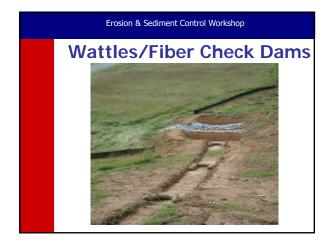




Temporary Rock Silt CheckType A Small dam with weir outlet Constructed of Class B Rip-rap and Sediment Control Stone Usage Outlet of slope drain In ditches and channels Can lead off-site Naturally formed storage area traps sediment

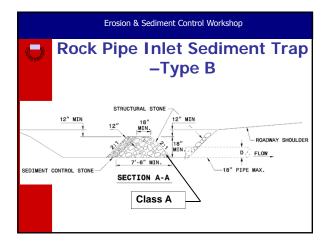


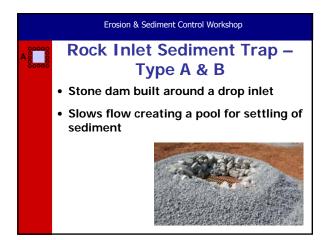


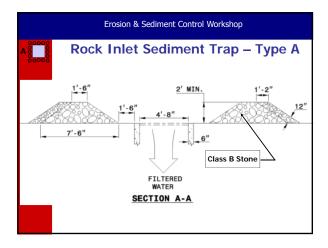


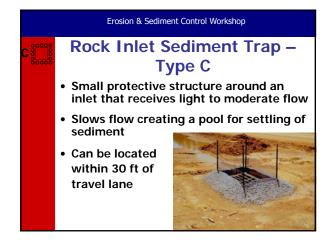
Drain Inlet/Catch Basin
Controls

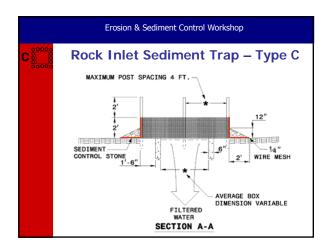


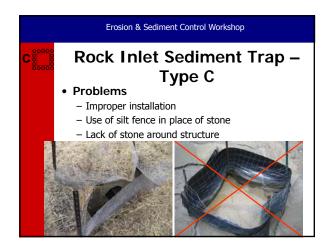


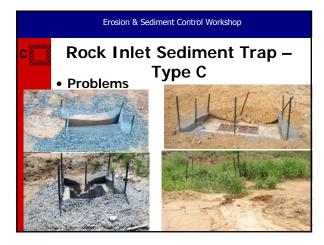












Erosion & Sediment Control Workshop **Summary-Rock Inlet Sediment Traps** Type B Type A Type C 1632.01 1632.02 1632.03 Structure Hardware Material cloth/t-post Class B Class A Sediment control stone Yes Yes Yes Dist. from travel lane <30 ft. >30 ft. <30 ft. Min. volume 3600 ft³/ac 3600 ft³/ac 3600 ft3/ac

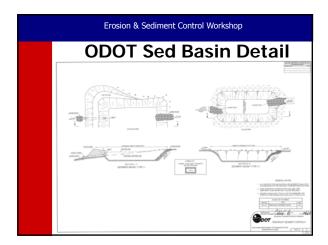
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BMPs must be

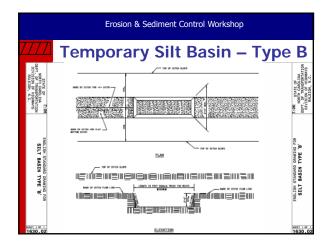
- 1. installed correctly
- 2. inspected often
- 3. maintained as needed to work effectively.

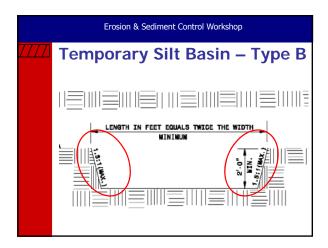
BMP's should be inspected before and after rainfall events.

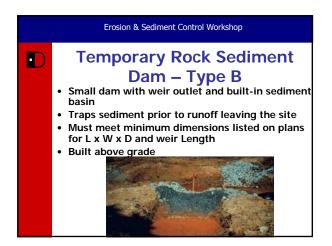
Sediment Control Workshop Sediment Containment Systems



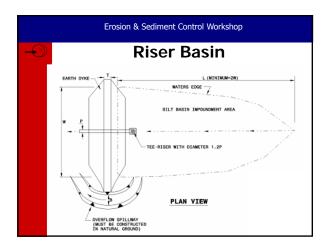


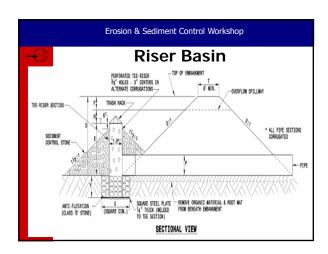








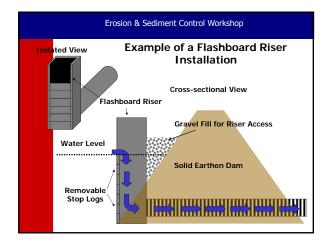


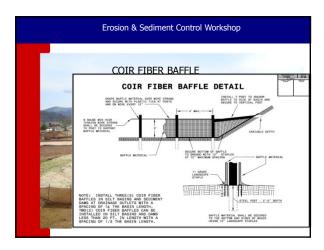


Riser Basin Serves large drainage areas with concentrated flows where other BMPs are inadequate Storage area of 1800 cu ft/disturbed ac

Riser Basin Common Problems Outlet pipe not protected Lack of maintenance Steep inlet channels generating sediment Drainage bypasses basin







Porous Baffle Spacing • Baffles in Silt Basins at drainage turnouts and all other temporary rock sediment dams—Type-A and -B: - If basin length ≤ 10 feet; 1 baffle. (state Forces Projects) - If basin length > 20 feet; 3 baffles. - If basin length between 10 -20 feet; 2 baffles.

