

# Best Management Practices (BMPs)



# BMPs

- Best management practices are generally structural devices used to minimize erosion and movement of sediment.
- Best management practices can also be non-structural practices such as limiting disturbed areas.



**pennsylvania**

DEPARTMENT OF ENVIRONMENTAL PROTECTION

**EROSION AND SEDIMENT POLLUTION  
CONTROL PROGRAM MANUAL**

**FINAL**

**Technical Guidance Number  
363-2134-008**

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**BUREAU OF WATERWAYS ENGINEERING AND WETLANDS  
DIVISION OF WETLANDS, ENCROACHMENT AND TRAINING**

# Typical Best Management Practices (BMPs) for Smaller Projects

- Filter Fabric Fence (Silt Fence)
  - Different Sizes
- Compost Filter Socks
  - Different Sizes
- Straw Bale Barriers
- Rock Construction Entrance
- Rock Aprons / Energy Reducers
- Temporary Stabilization (Seed & Mulch)

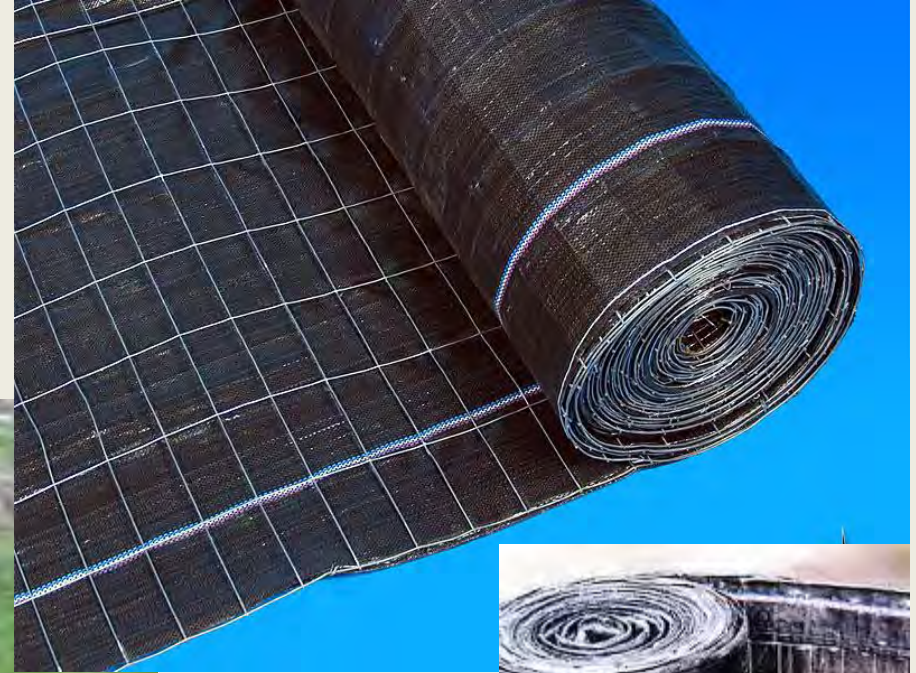
# Filter Fabric Fence (Silt Fence)



# Standard 18" Filter Fabric Fence (Silt Fence)



# 30" Reinforced Filter Fence



# Super Silt Fence



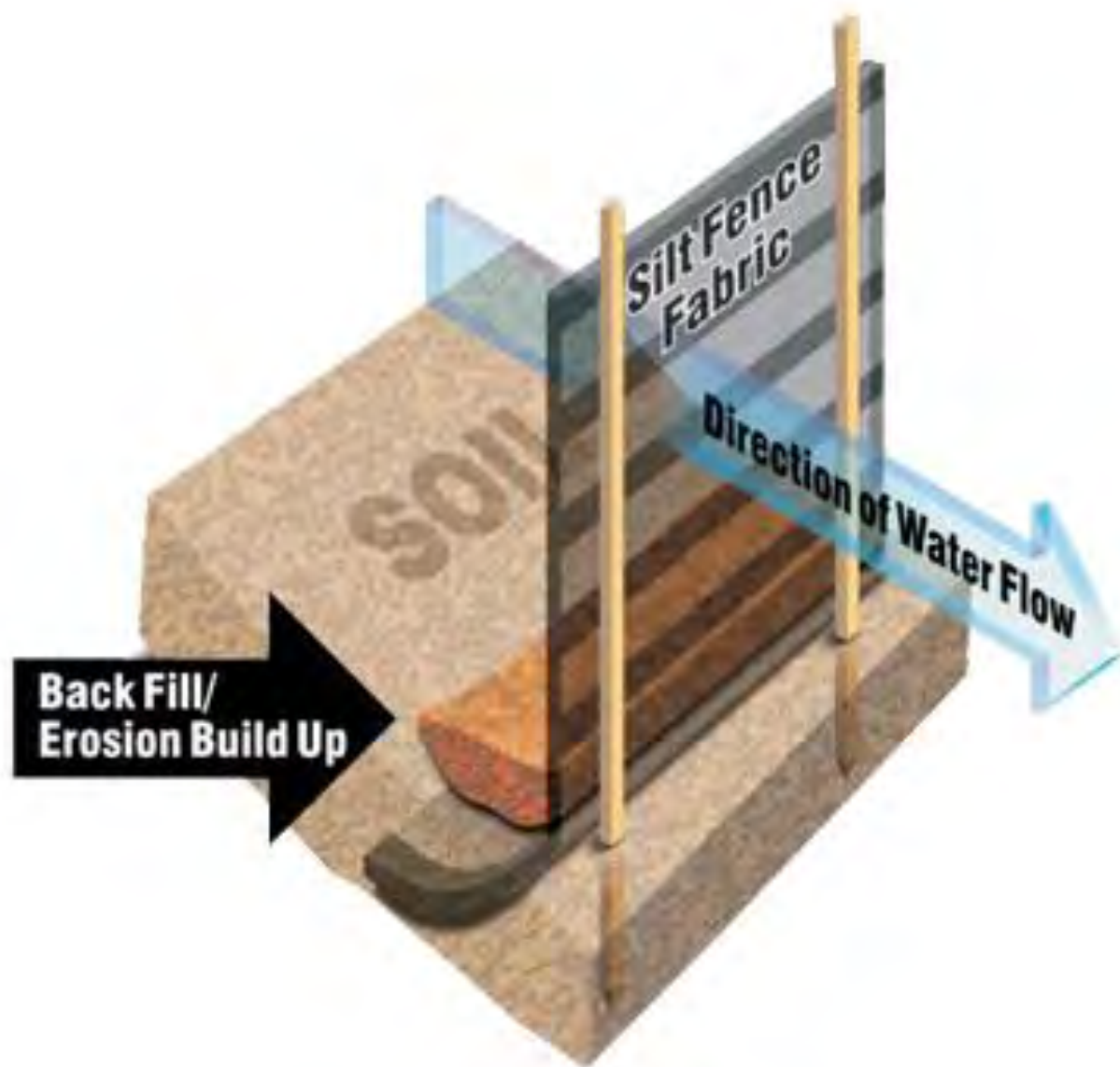
# Not All Filter Fence is Created Equal

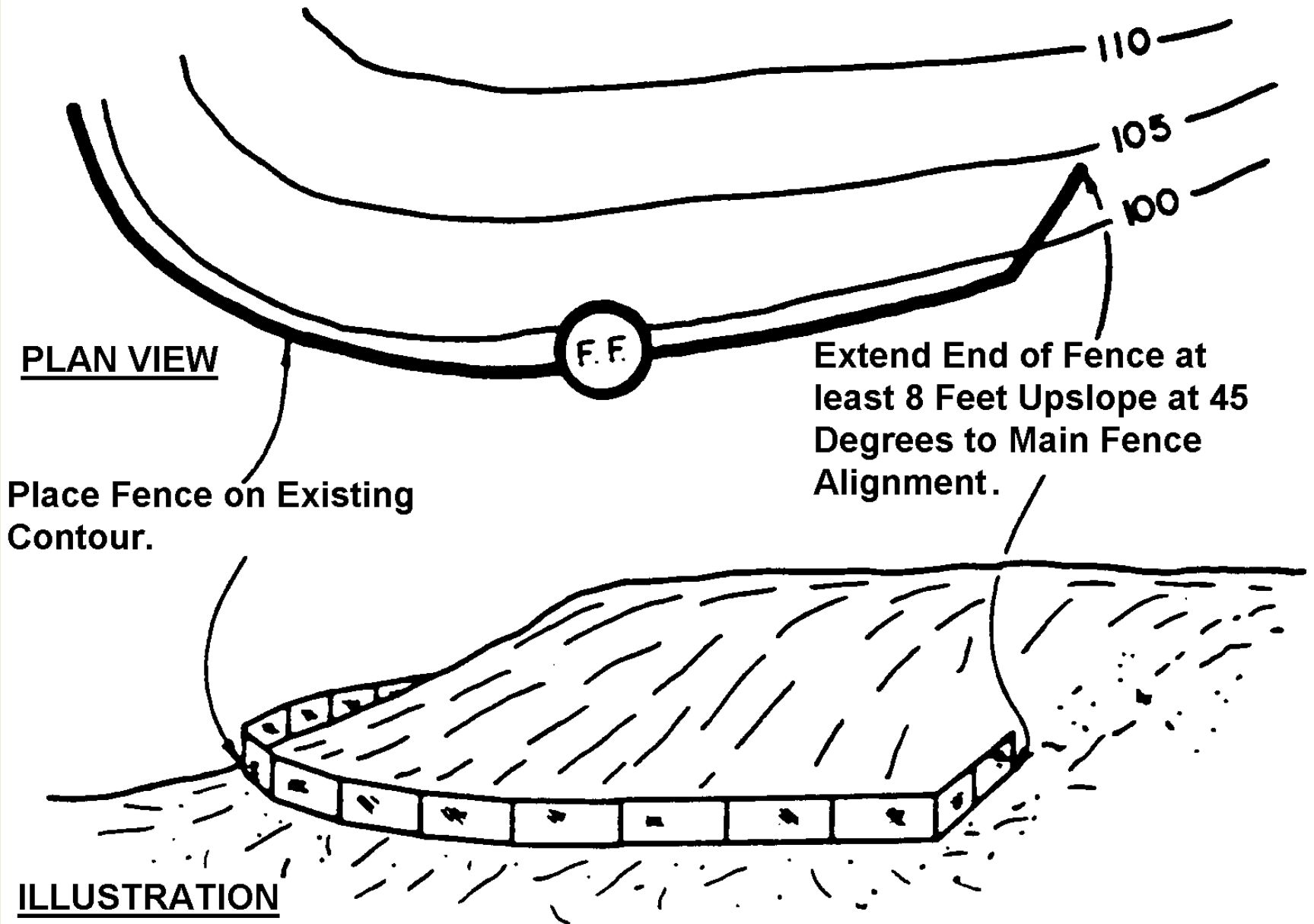


# Filter Fence

## Keys to Success

- Proper sizing
- Proper trenching of the bottom
- Support posts on the downslope side
- Install parallel to the contour
- Angle ends upslope 45 degrees
- Proper joining of two ends
- Maintenance & Replacement





# Mechanical Installation



# Old Fashion Installation



# Compost Filter Socks (Silt Socks) (Silt Soxx)



# Compost Filter Socks

- Advantages Over Filter Fence
  - Ease of Installation
    - (no earth disturbance required)
  - Ease of Maintenance
  - Biodegradable / Photodegradable
  - More Versatile
- Various Sizes
  - 8” through 32” sock sizes
  - 8” sock not acceptable on commercial sites

# Compost Filter Sock



# Filter Sock Installation

Pre-filled socks can be installed by hand



Sock being installed with a blower



# Can Be Installed In Difficult Areas



# Not All Socks Are Created Equal

- Differences in Compost Material
  - Compost vs Wood Chips



Compost

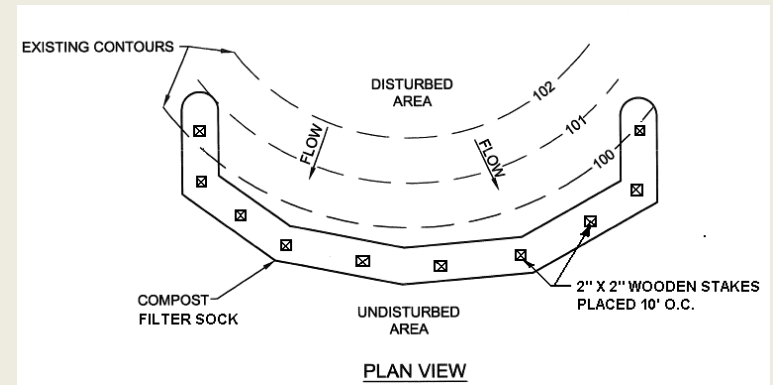


Wood Chips

# Compost Filter Socks

## Keys to Success

- Proper Sizing
- Proper Installation
- Proper Material
- Proper Locations
- Maintenance & Replacement
- Know the Limitations



# Versatility of Compost Filter Socks

- Can be installed in area of concentrated flow
- Socks can be stacked
- Much more versatile than filter fence
  - Inlet protection
  - Dewatering areas
  - Sediment traps
  - Bank stabilization

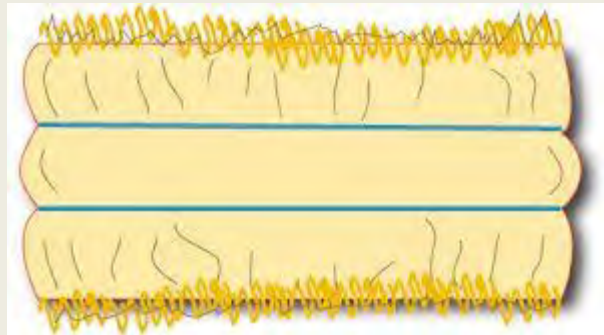
# Versatility of Filter Socks



# Versatility of Filter Socks



# Straw Bale Barriers



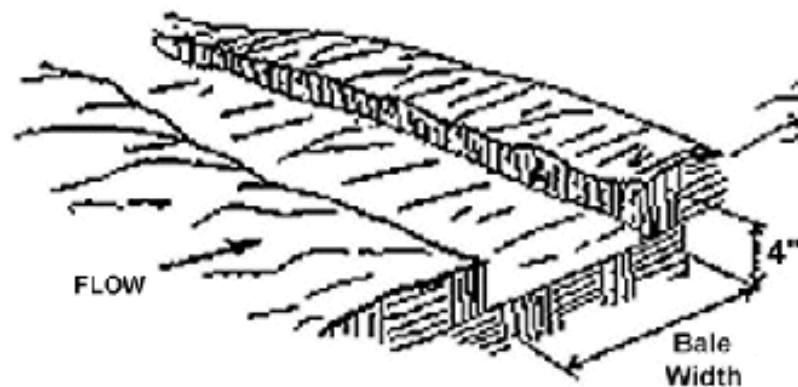
# Straw Bale Barriers



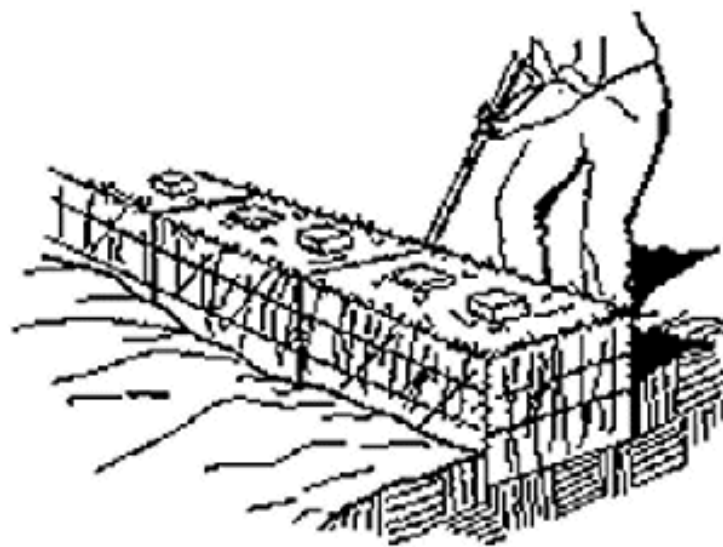
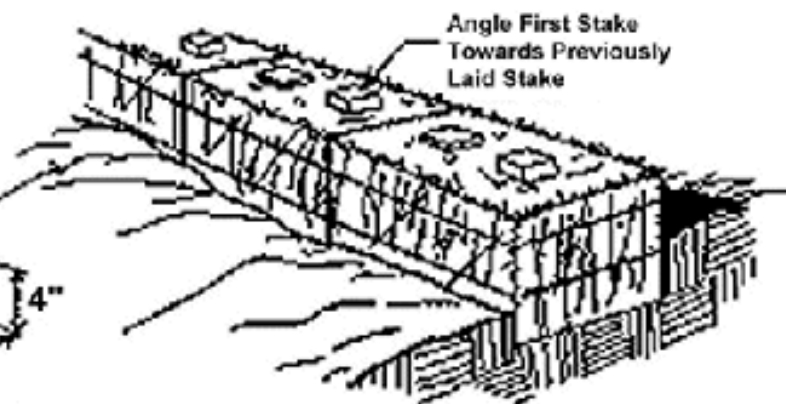
# Straw Bale Barriers

- Advantages
  - Accessibility of straw bales
  - Biodegradable
- Disadvantages
  - Improper installation
  - Degrade quickly (3 months)
  - Poor filters
  - Labor intensive
  - Not very versatile

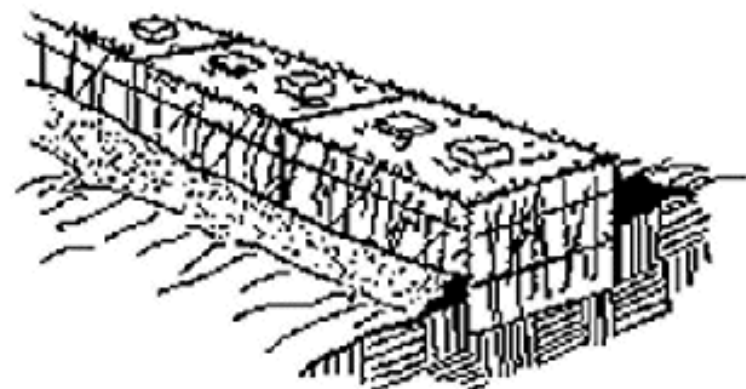
### 1. Excavate the Trench



### 2. Place and Stake Straw Bales



### 3. Wedge Loose Straw Between Bales



### 4. Backfill and Compact the Excavated Soil

# Straw Bale Barriers

