APPENDIX B — WORKSHEETS & EXHIBITS

A **worksheet** provides the designer a representation of a measure that allows for input of specific design criteria. The plan designer will be required to assess field conditions and apply engineering principles to determine dimensions and specifications. An **exhibit** is a representative view of a measure. An exhibit often includes standardized dimensions and specifications. Several exhibits are only a representative view of the measure, and will require the designer to assess field conditions and input dimensions and specifications for the measure. These exhibits have been identified with a note.

APPENDIX B — WORKSHEETS & EXHIBITS

Worksheet — Page

Exhibit — Page

Exhibit Page

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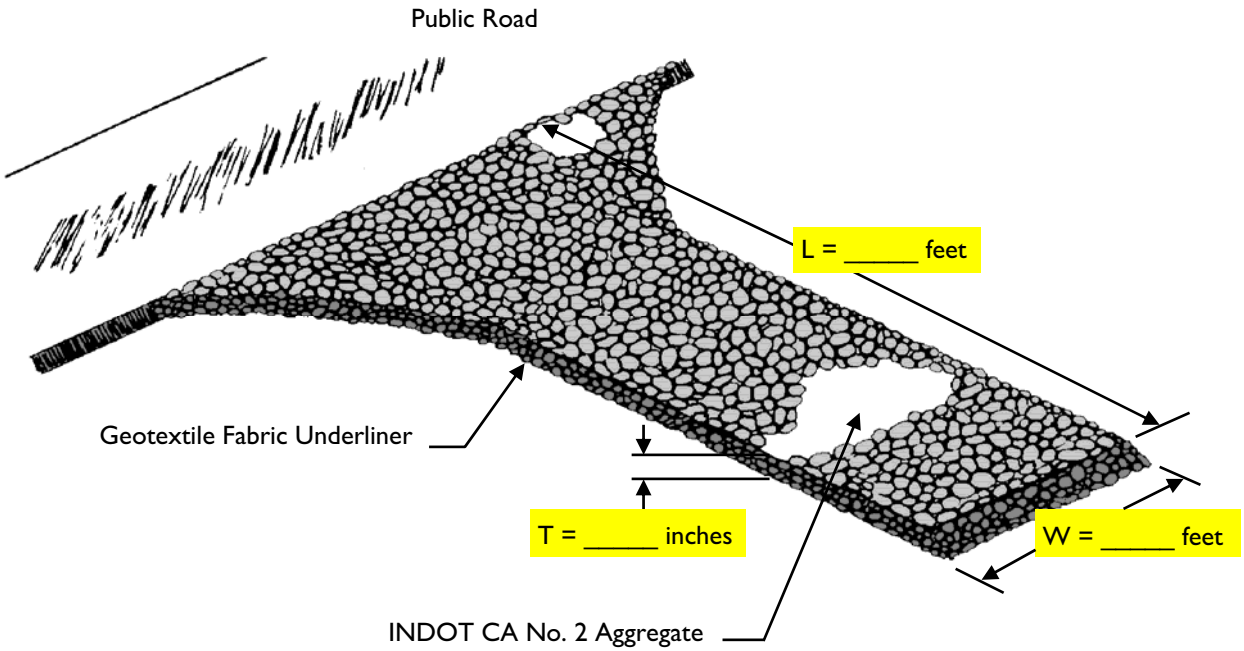
Temporary Construction Ingress/Egress Pad Plan View Worksheet (large sites—two acres or larger)



L = Ingress/Egress Pad Length
W = Ingress/Egress Pad Width
T = Aggregate Thickness

(Note: For minimum dimensions, see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 17

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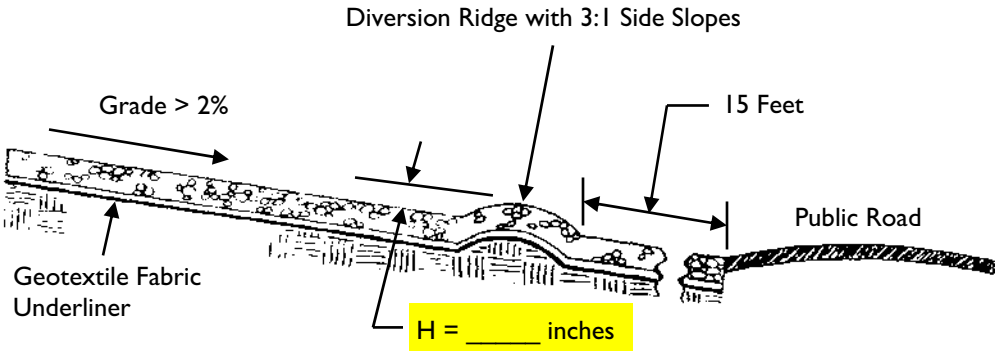
Temporary Construction Ingress/Egress Pad Cross-Section View Worksheet (large sites two acres or larger)



H = Height of Diversion Ridge
(Note: 8 inches minimum)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 17

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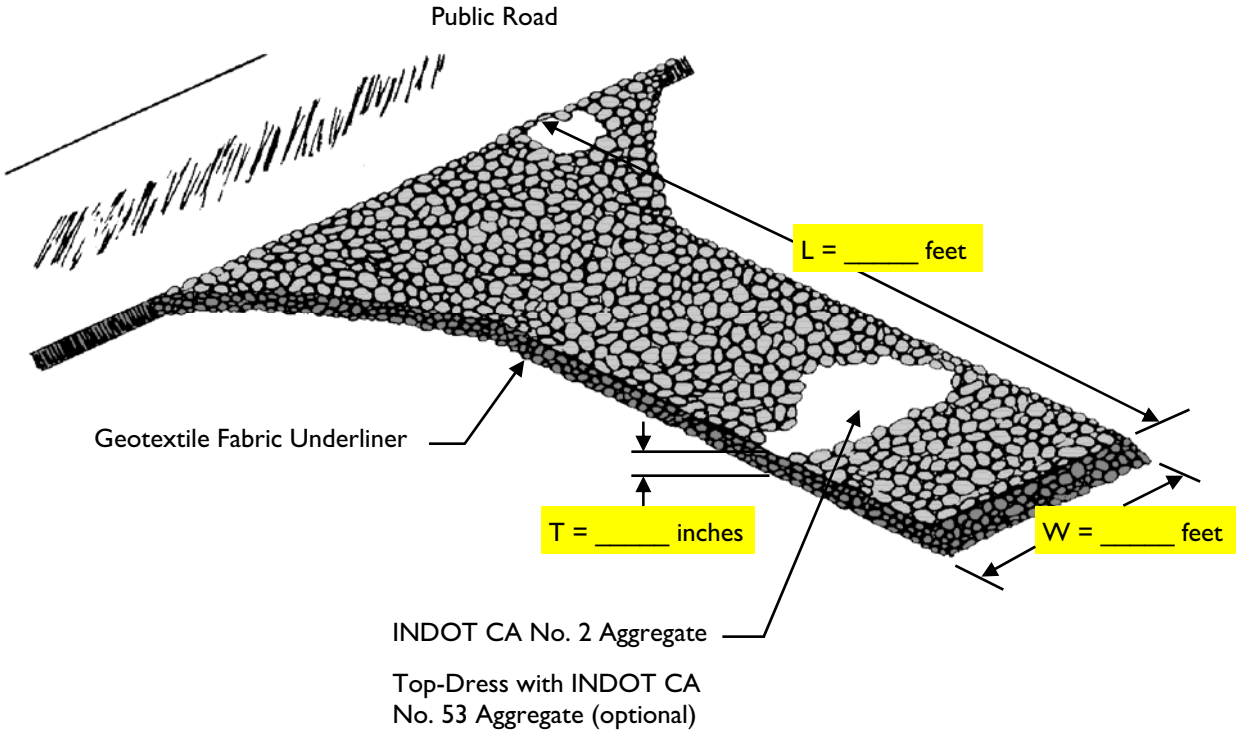
Temporary Construction Ingress/Egress Pad Plan View Worksheet (small sites—less than two acres)



L = Ingress/Egress Pad Length
W = Ingress/Egress Pad Width
T = Aggregate Thickness

(Note: For minimum dimensions, see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 21

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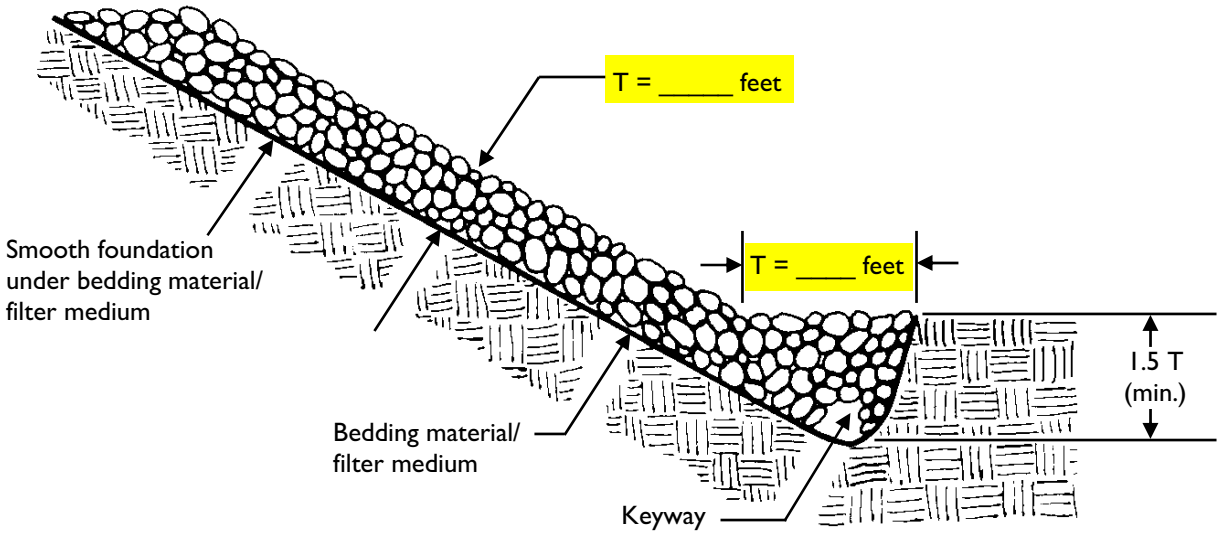
Riprap Slope Protection Worksheet



T = Aggregate Thickness (≥ 2 x d_{50})

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 69

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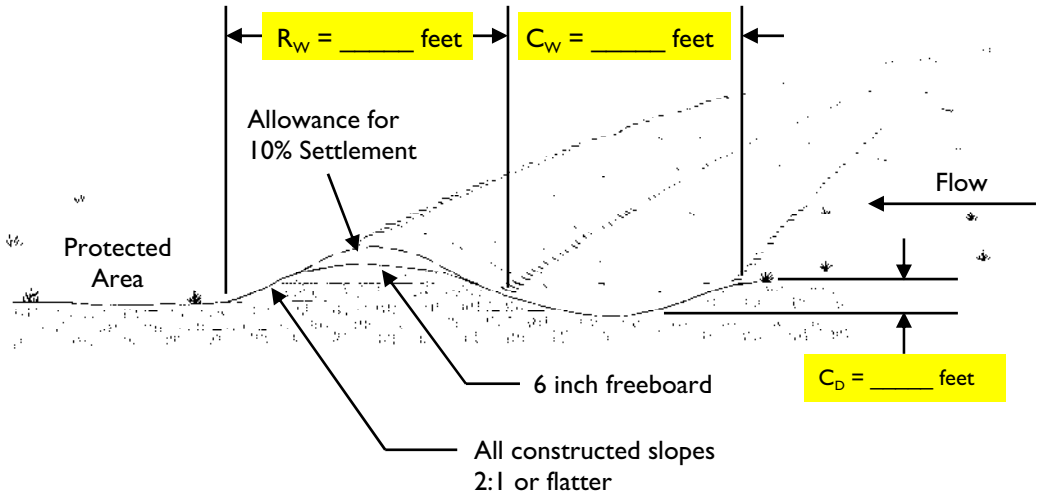
Temporary Diversion Worksheet



C_D = Channel Depth

C_W = Channel Width

R_W = Ridge Width

For information on this measure, see Chapter 7, page 75

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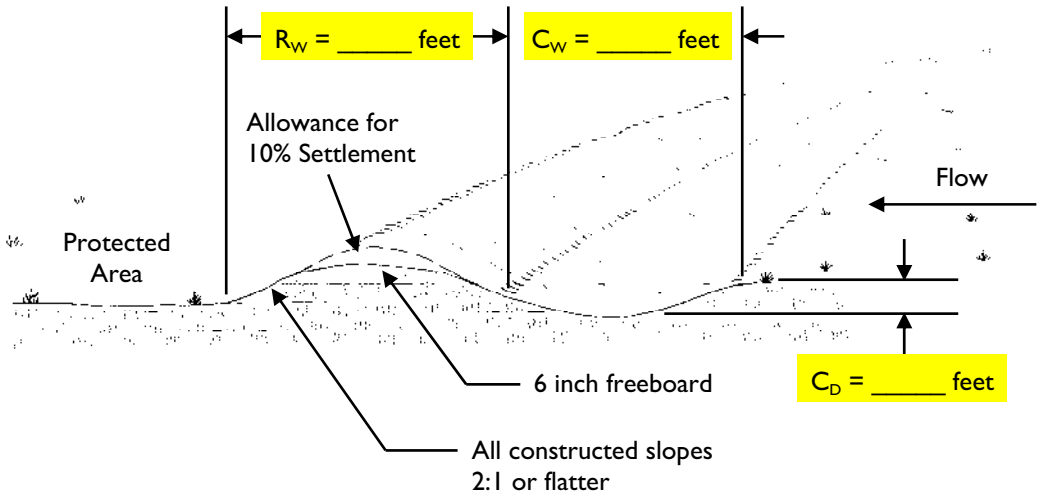
Permanent Diversion Worksheet



C_D = Channel Depth

C_W = Channel Width

R_W = Ridge Width

For information on this measure, see Chapter 7, page 79

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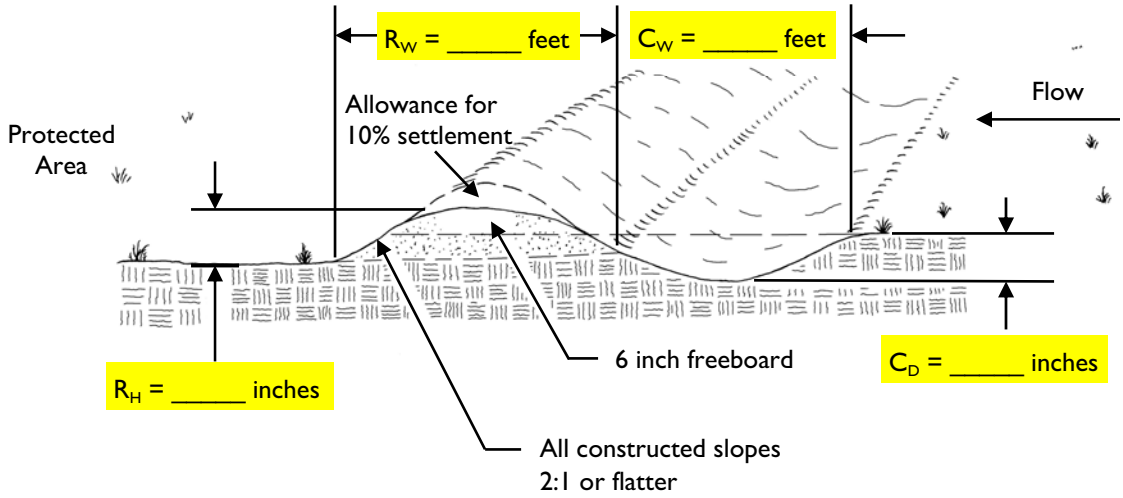
Perimeter Diversion Dike Worksheet



R_H = Ridge Height

R_W = Ridge Base Width

C_D = Channel Depth

C_W = Channel Top Width

Note: Drainage channel is optional.

For information on this measure, see Chapter 7, page 83

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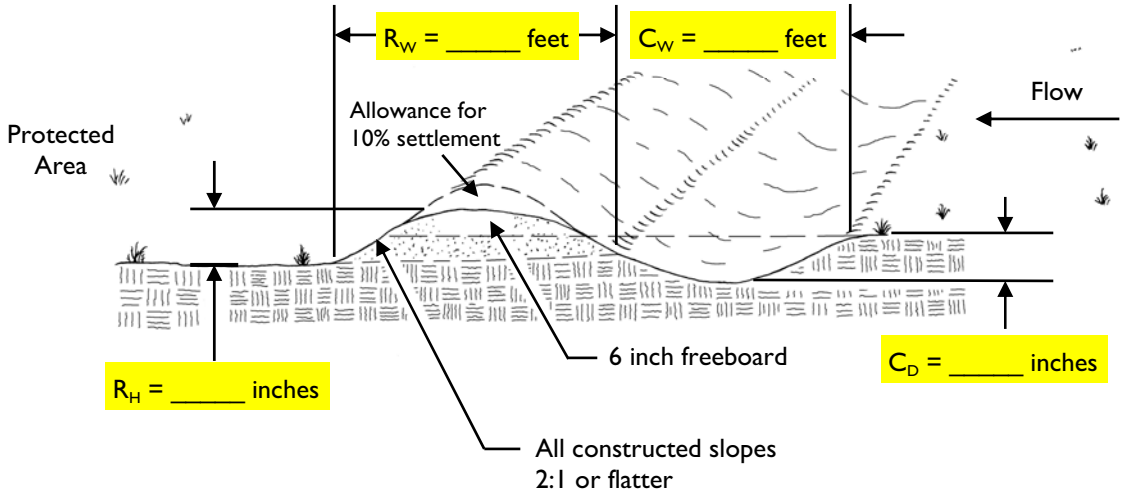
Water Bar Worksheet



R_H = Ridge Height

R_W = Ridge Base Width

C_D = Channel Depth

C_W = Channel Top Width

Note: Drainage channel is optional.

For information on this measure, see Chapter 7, page 89

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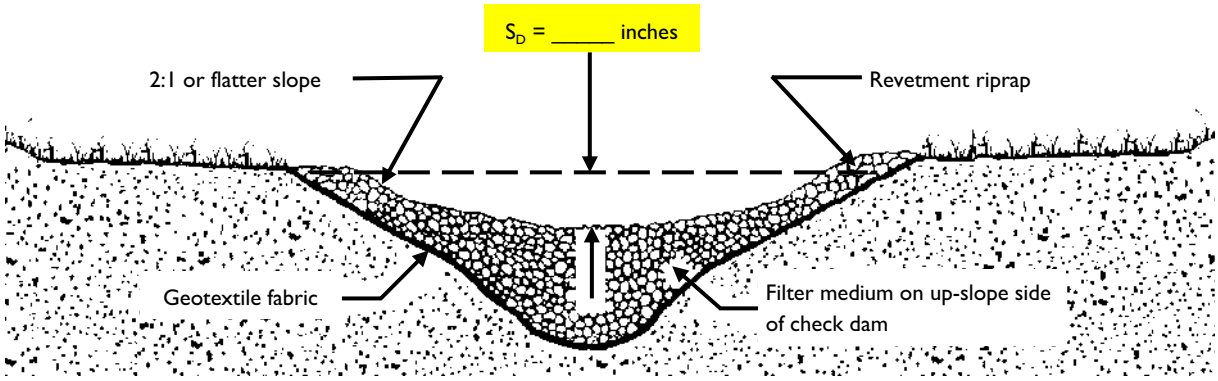
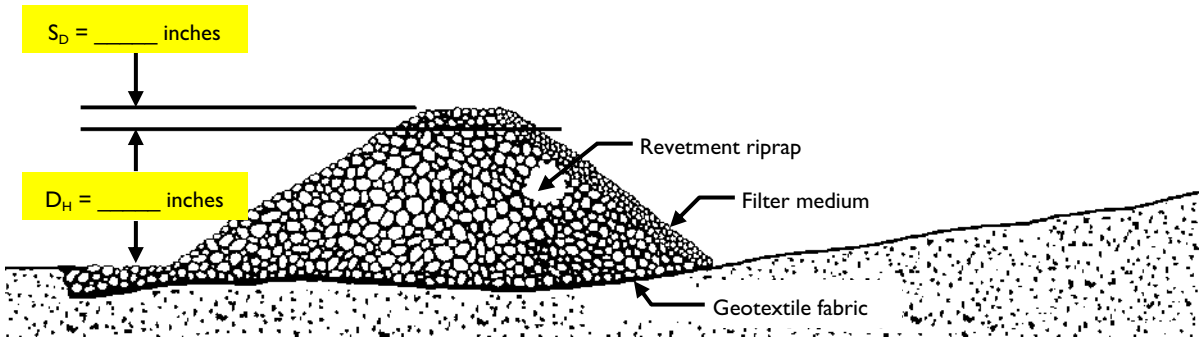
Rock Check Dam Worksheet



S_D = Spillway Depth

(NOTE: For minimum dimensions see the "Specifications" section of this measure.)



D_H = Dam Height

S_D = Spillway Depth

(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 97

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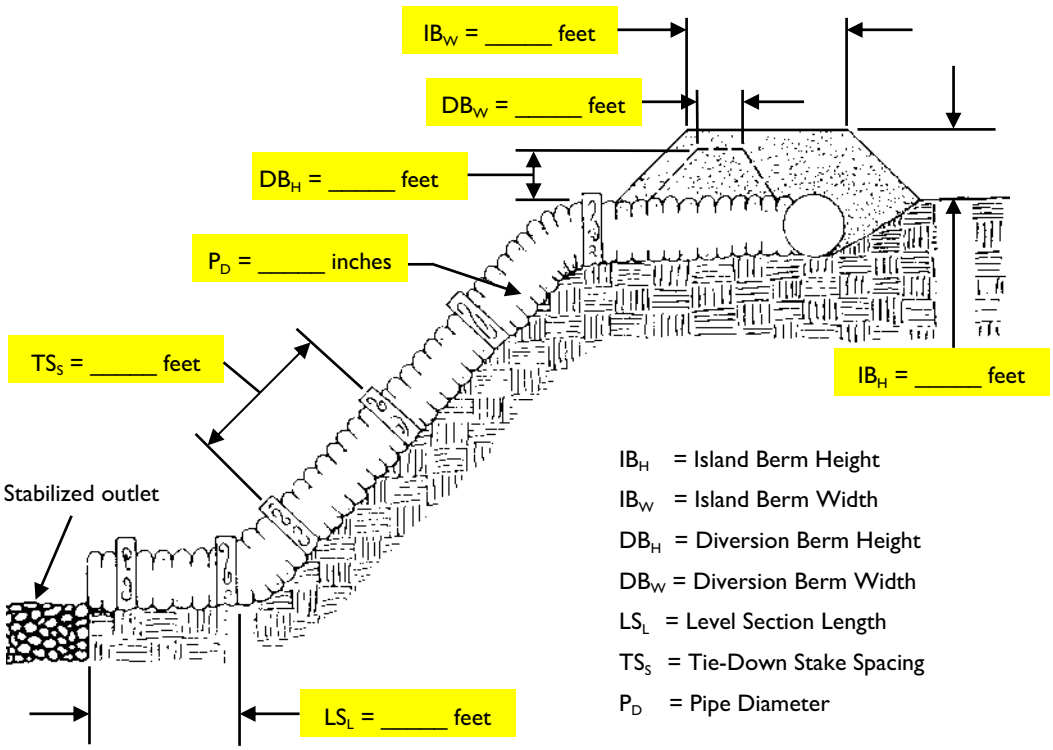
Temporary Slope Drain Worksheet



IB_H = Island Berm Height
IB_W = Island Berm Width
DB_H = Diversion Berm Height
DB_W = Diversion Berm Width
LS_L = Level Section Length
TS_S = Tie-Down Stake Spacing
P_D = Pipe Diameter

(Note: For minimum and maximum dimensions, see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 103

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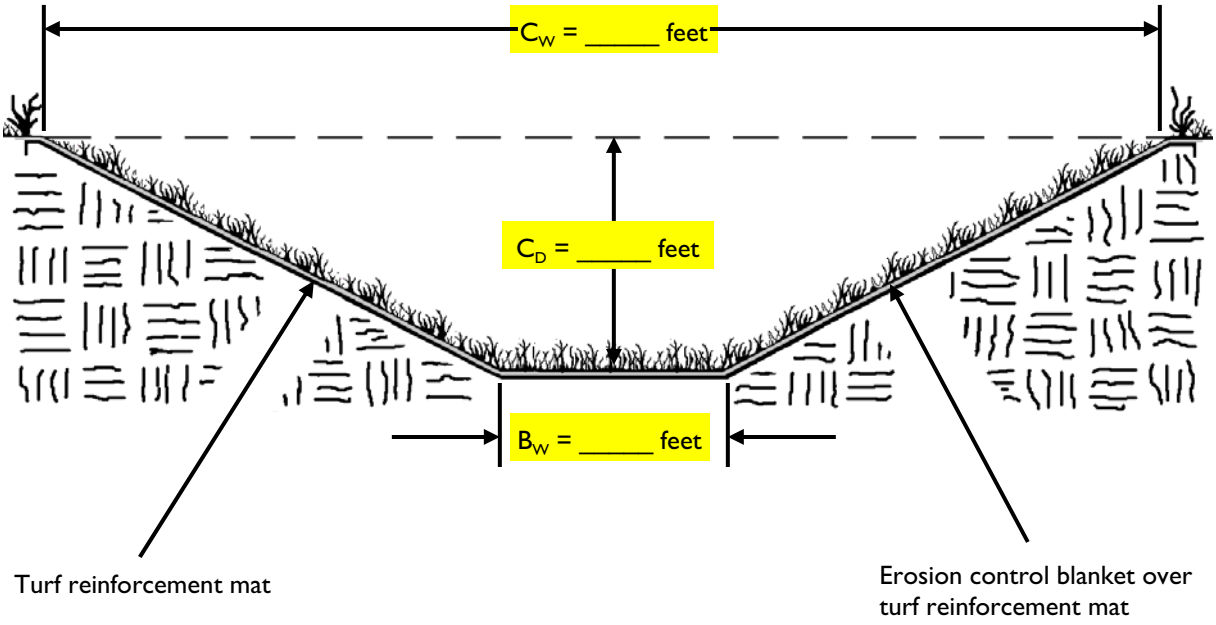
Grass-Lined Channel Worksheet



B_W = Designed Bottom Width of Channel

C_W = Designed Top Width of Channel

C_D = Designed Depth of Channel

For information on this measure, see Chapter 7, page 111

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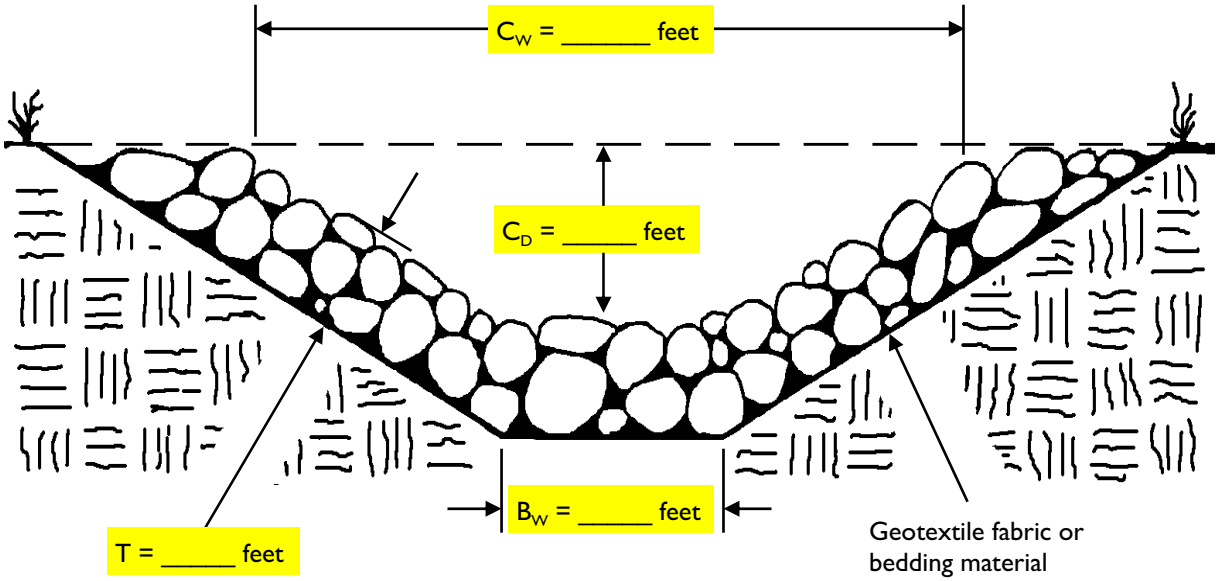
Riprap-Lined Channel Worksheet



B_W = Designed Bottom Width of Channel

C_W = Designed Top Width of Channel

C_D = Designed Depth of Channel

T = Thickness of Riprap Layer

For information on this measure, see Chapter 7, page 115

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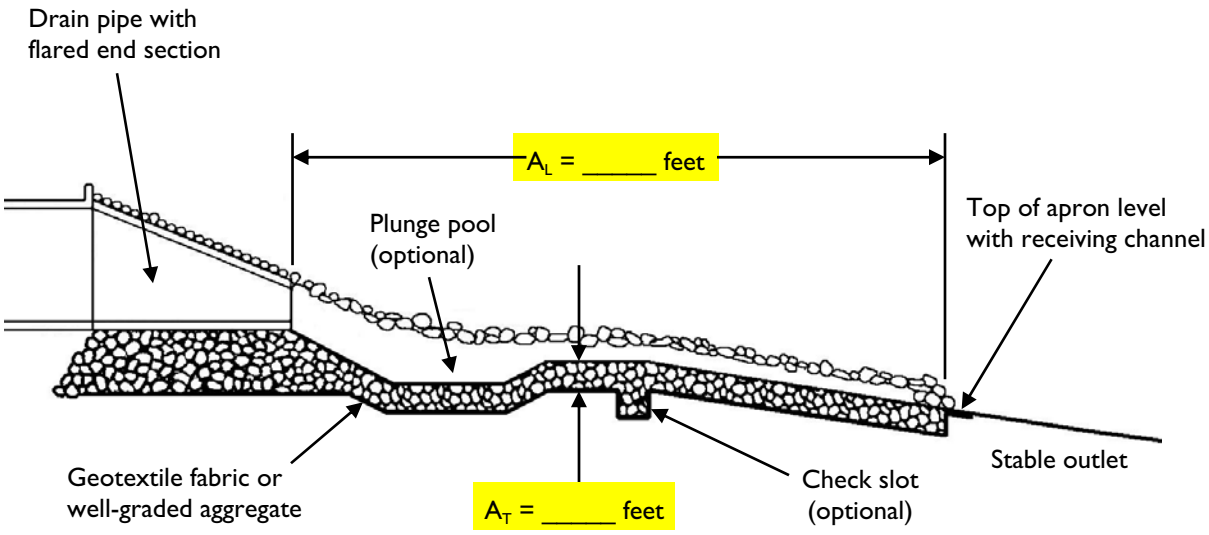
Energy Dissipater Worksheet 1



A_L = Apron Length

A_T = Apron Thickness

For information on this measure, see Chapter 7, page 121

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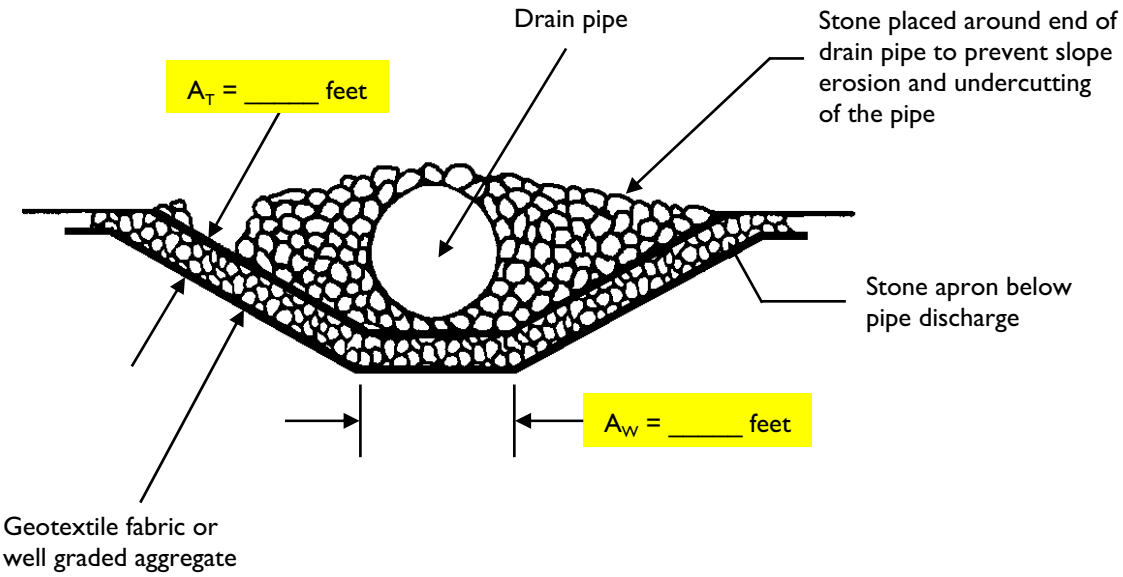
Energy Dissipater Worksheet 2



A_T = Apron Thickness
A_W = Apron Width

Note: A_W is the apron width at the narrow end of the apron.

For information on this measure, see Chapter 7, page 121

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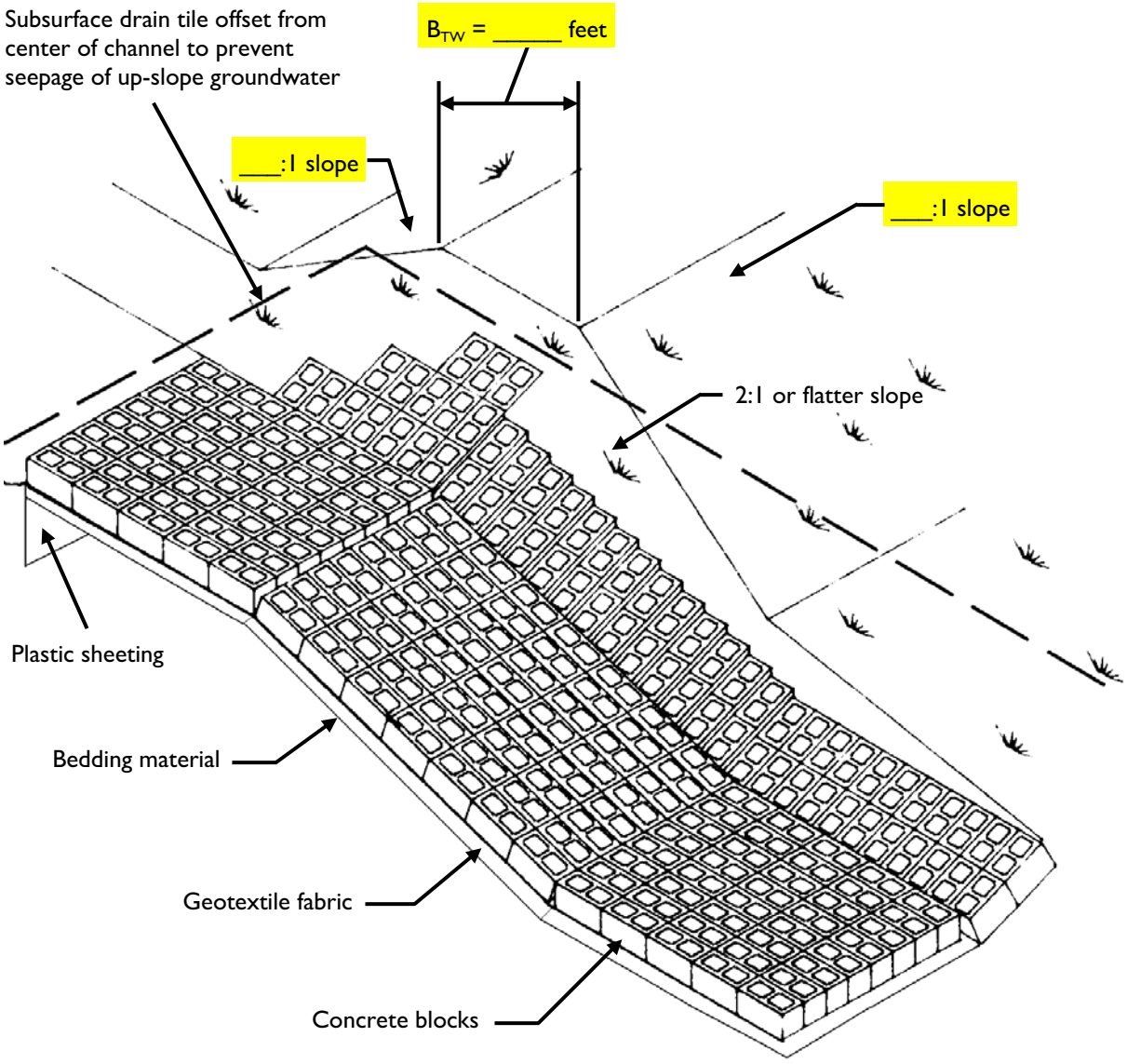
Concrete Block Chute Worksheet



B_{TW} = Berm Top Width

Source: Adapted from U.S. Department of Agriculture, Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 131

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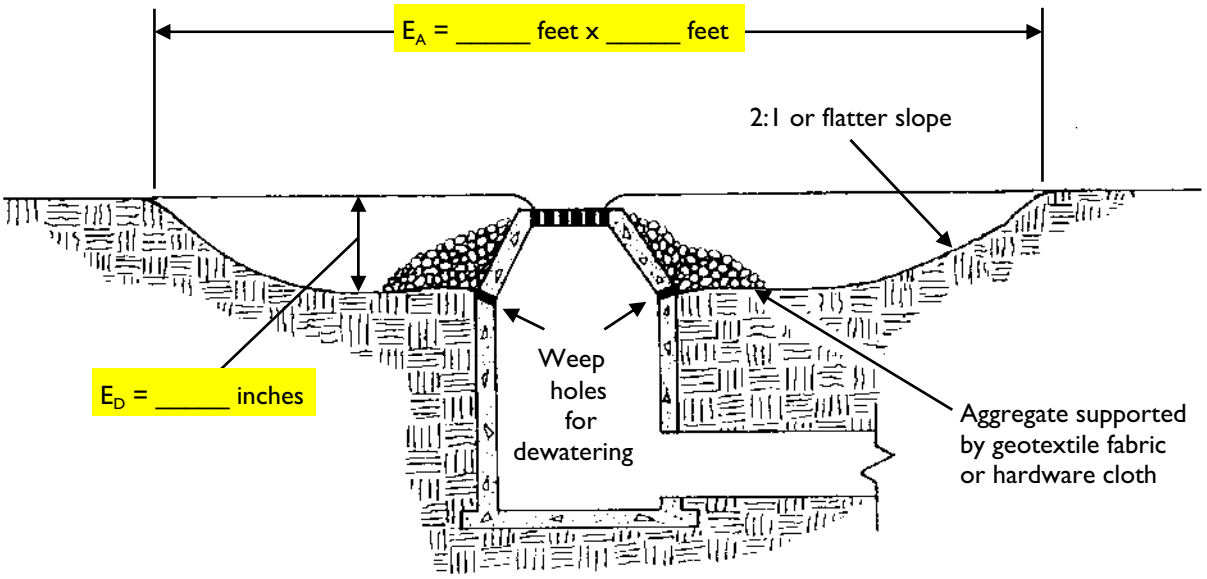
Excavated Drop Inlet Protection Worksheet



E_A = Excavated Area (as required)

E_D = Excavated Depth

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 145

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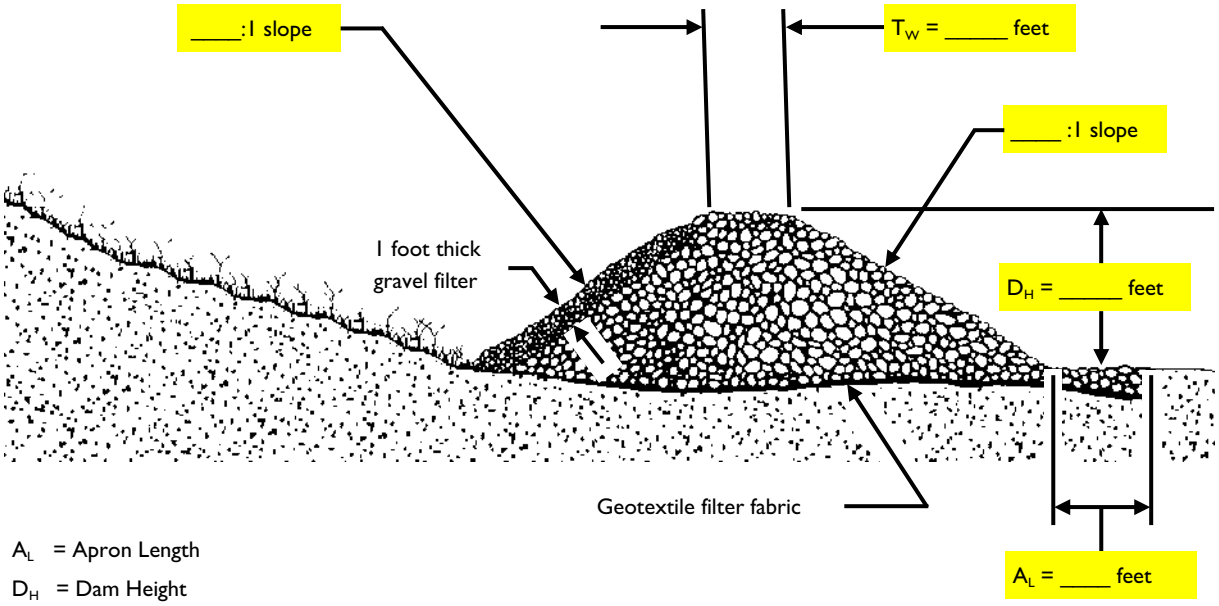
Temporary Sediment Trap
Rock Dam Worksheet



A_L = Apron Length
D_H = Dam Height
FP_E = Flood Pool Elevation
S_D = Spillway Depth
T_W = Top Width

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 183

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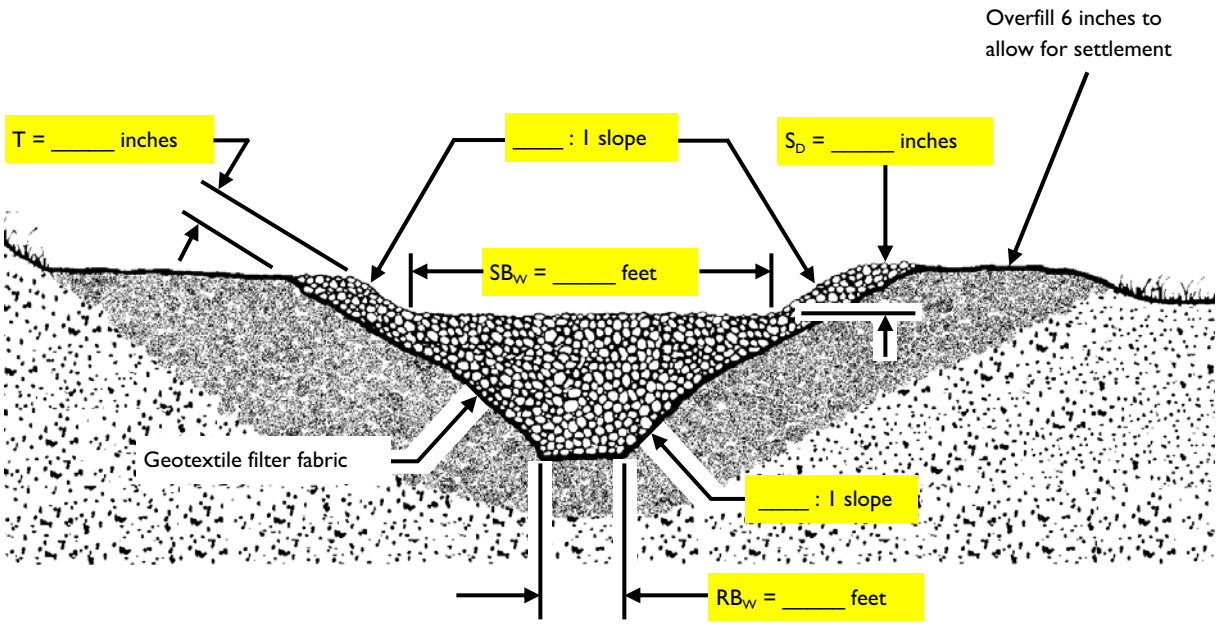
Temporary Sediment Trap Outlet Worksheet



RB_W = Rock Dam Bottom Width

S_D = Spillway Depth

SB_W = Spillway Bottom Width

T = Spillway Side-Slope Armament Thickness

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 183

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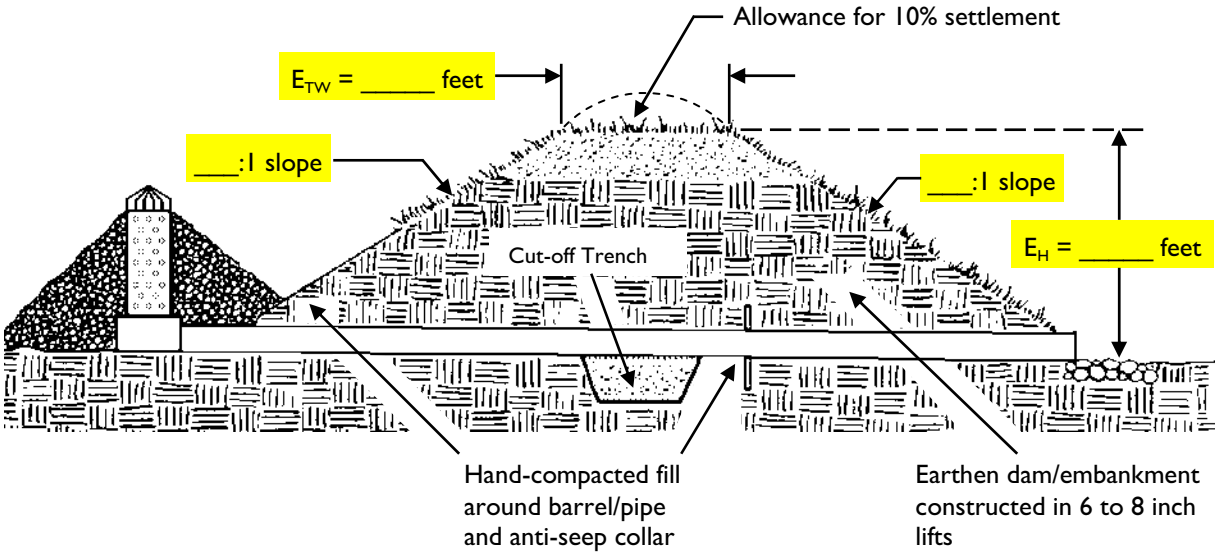
Temporary Dry Sediment Basin
Earthen Dam/Embankment Worksheet



E_H = Earthen Dam/Embankment Height
E_{TW} = Earthen Dam/Embankment Top Width

(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 191

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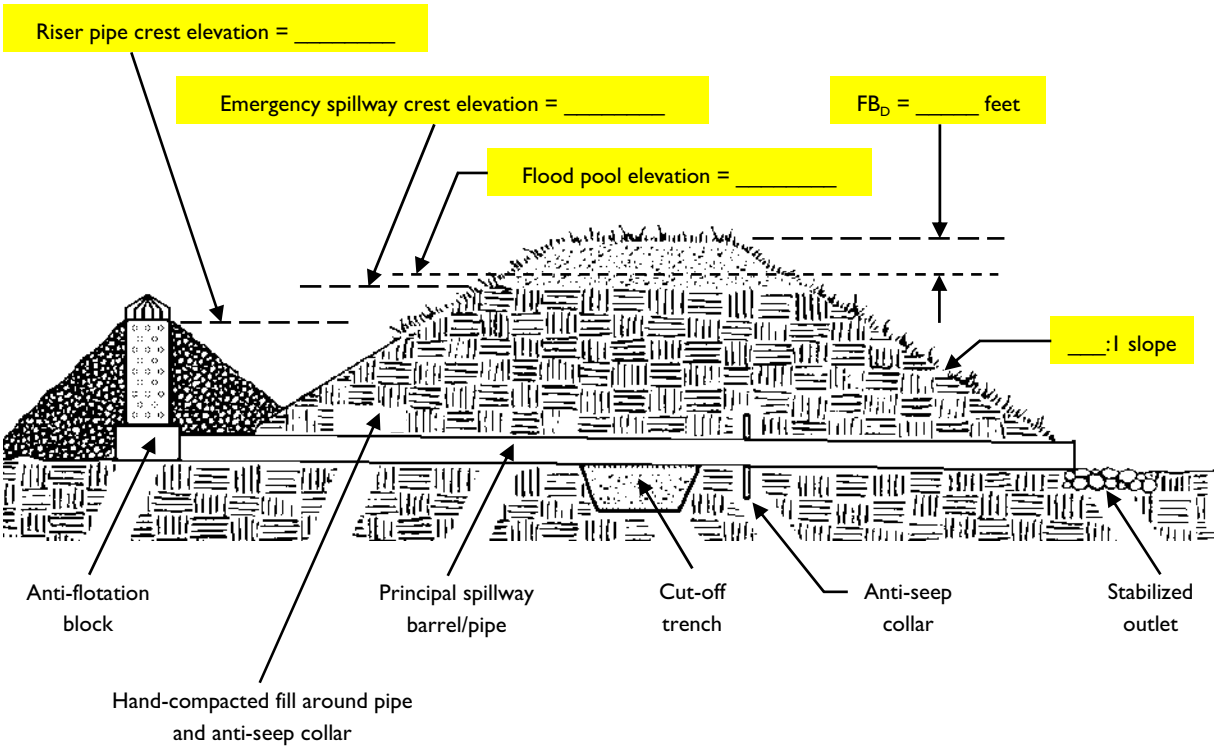
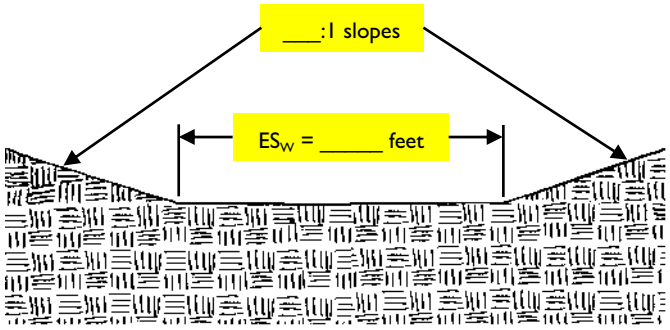
Temporay Dry Sediment Basin Spillway Worksheet 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993



ES$_W$ = Emergency Spillway Width

FB$_D$ = Free Board Depth

(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

Source: Adapted from U.S. Department of Agriculture, Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 191

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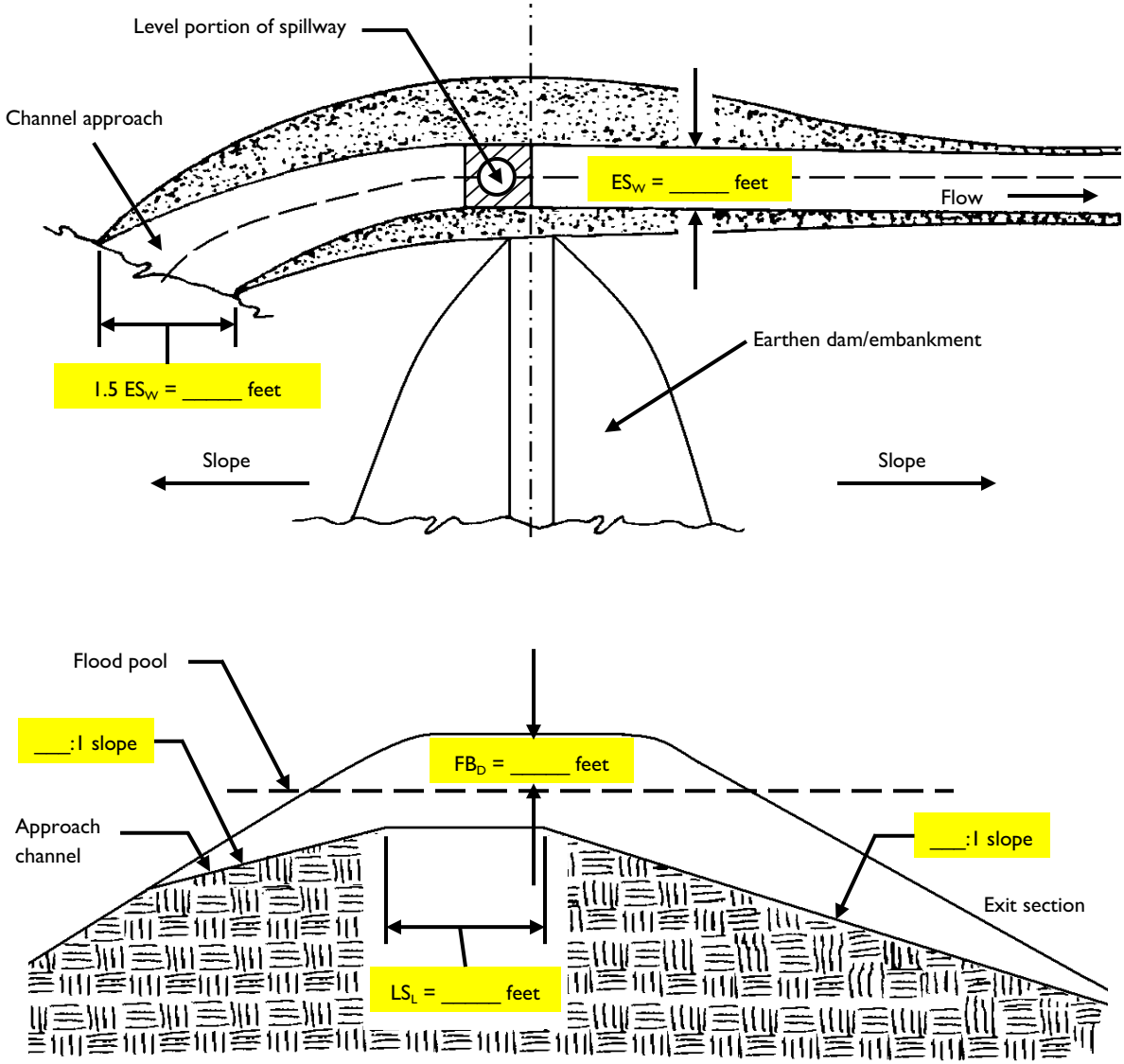
Temporary Dry Sediment Basin
Spillway Worksheet 2



ES_W = Emergency Spillway Width

FB_D = Free Board Depth

LS_L = Level Section Length

(NOTE: For minimum dimensions see the "Specifications" section of this measure.)

For information on this measure, see Chapter 7, page 191

Source: Adapted from USDA Natural Resources Conservation Service

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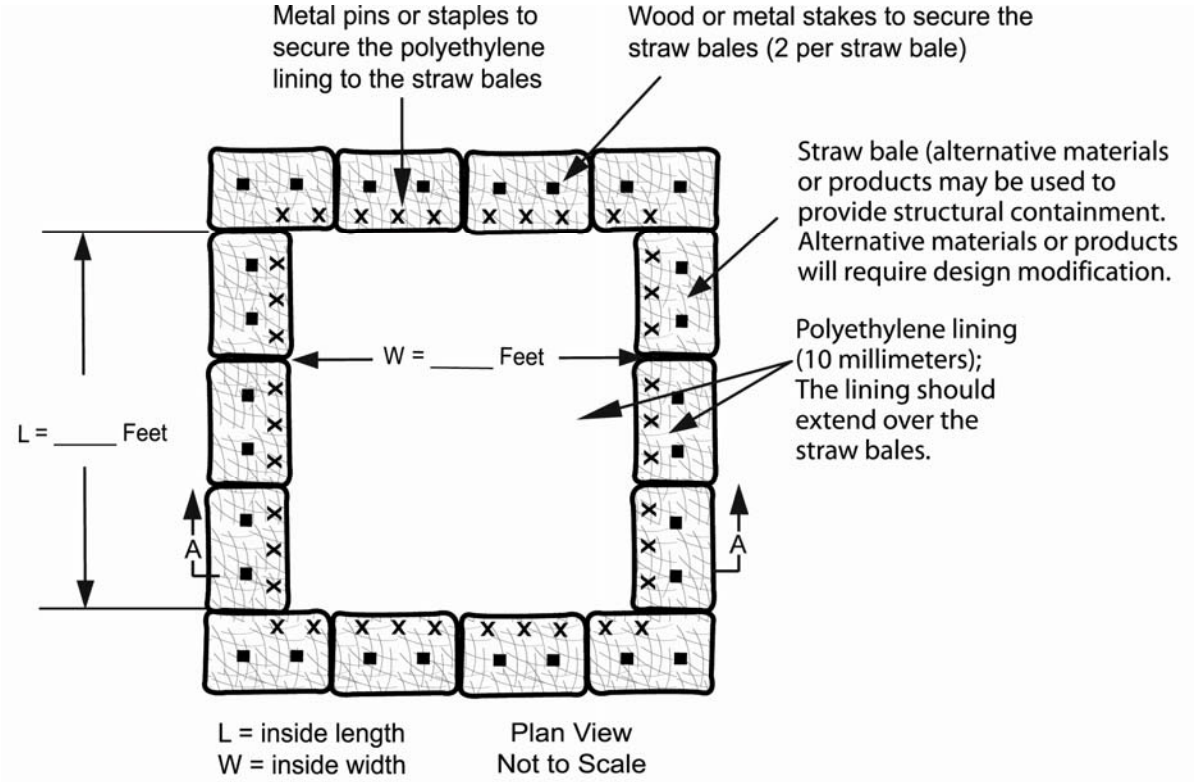
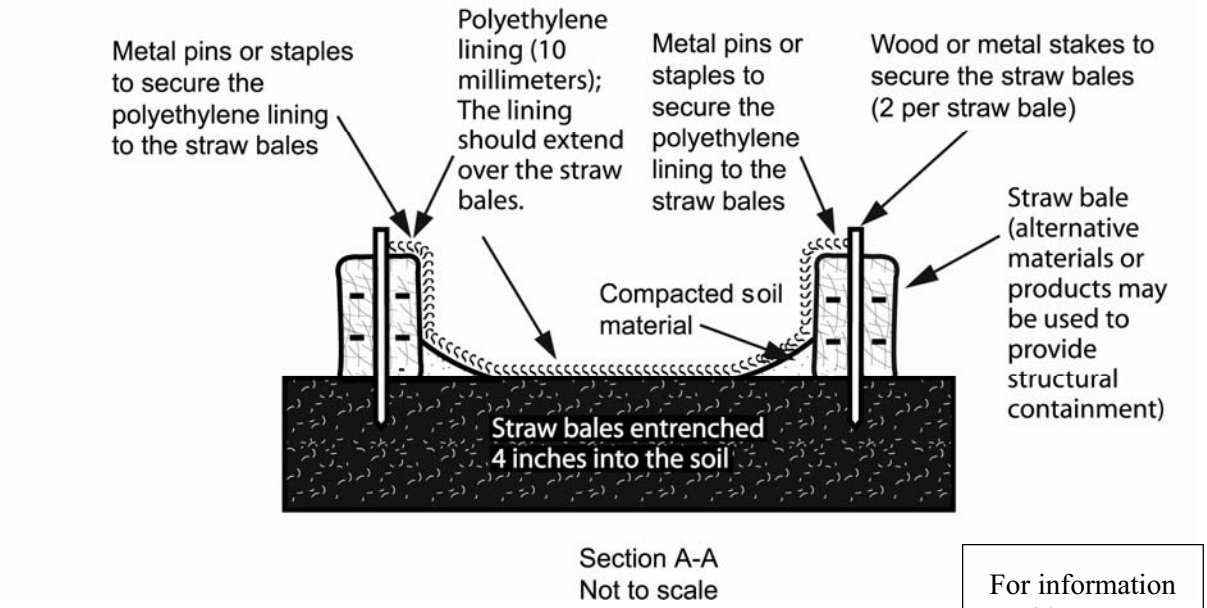
Concrete Washout (Above Grade System) Worksheet





For information on this measure, see Chapter 7, page 247

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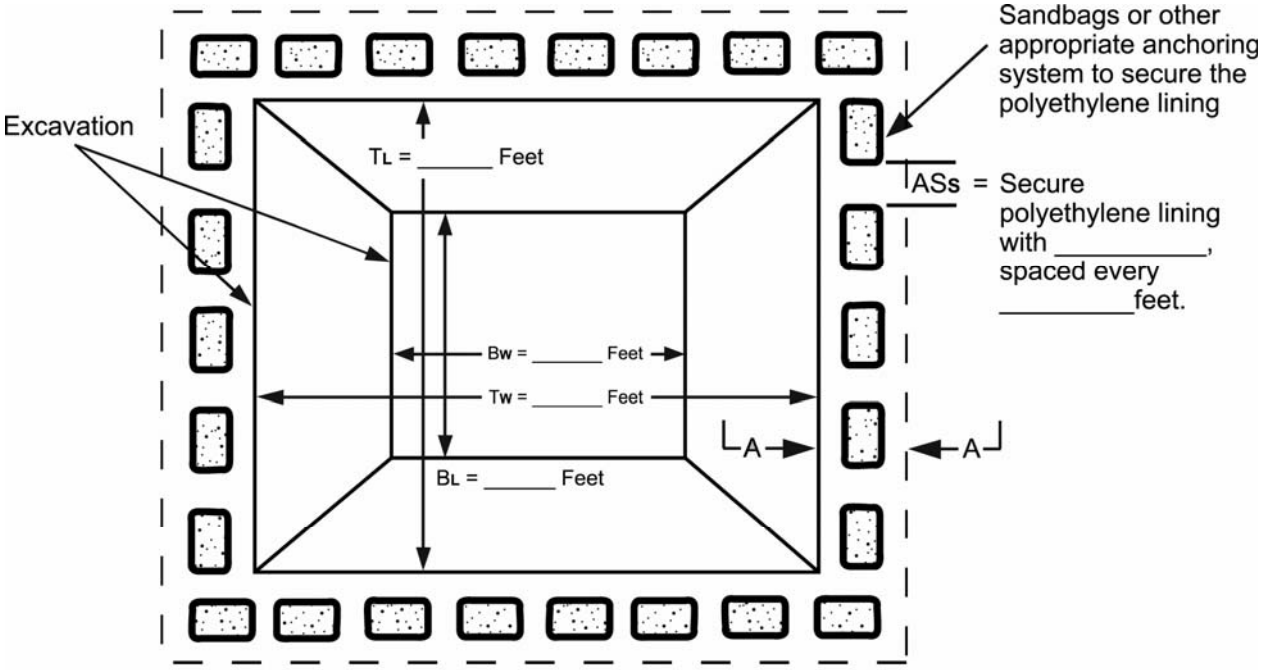
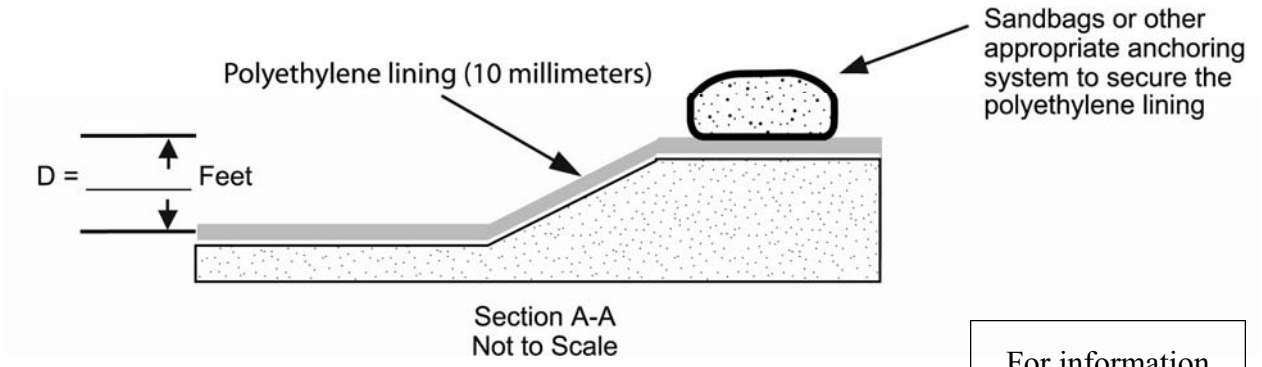
Concrete Washout (Below Grade System) Worksheet



TL = Top Length of Excavation
BL = Bottom Length of Excavation
Tw = Top Width of Excavation
Bw = Bottom Width of Excavation
ASs = Anchoring System type and spacing

Plan View
Not to Scale



Section A-A
Not to Scale

For information on this measure, see Chapter 7, page 247

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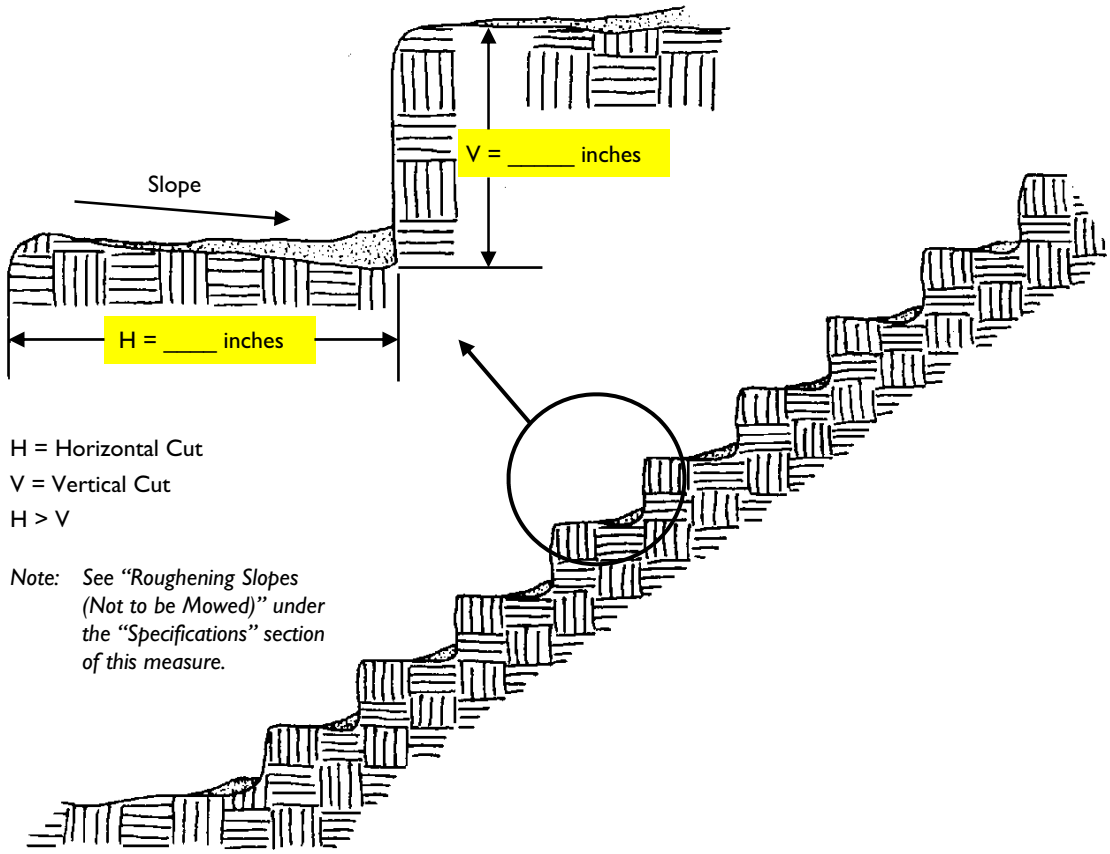
Surface Roughening – Stair-Step Worksheet



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 297

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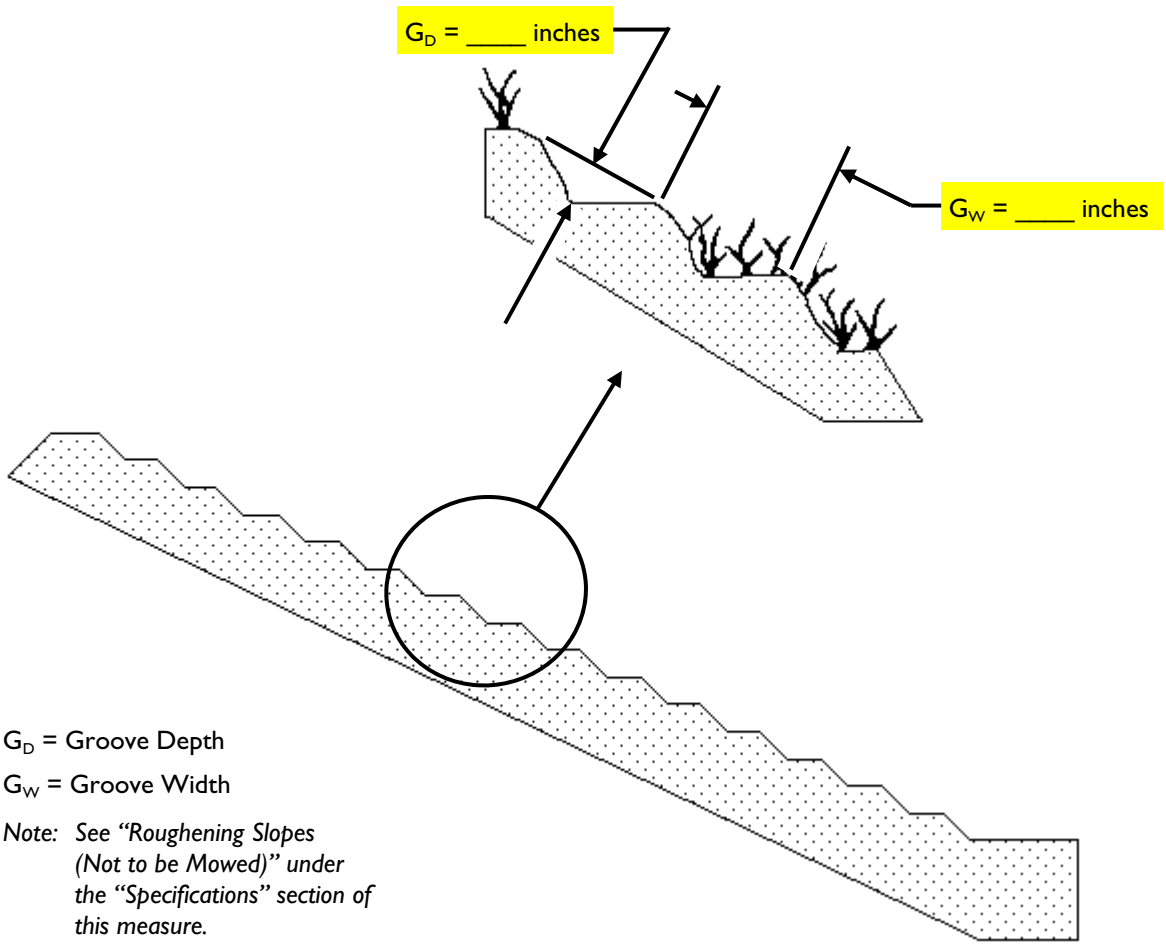
Surface Roughening – Grooving Worksheet



G_D = Groove Depth

G_W = Groove Width

Note: See "Roughening Slopes (Not to be Mowed)" under the "Specifications" section of this measure.

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 297

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Sod

Exhibit 1

Perspective View

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 47

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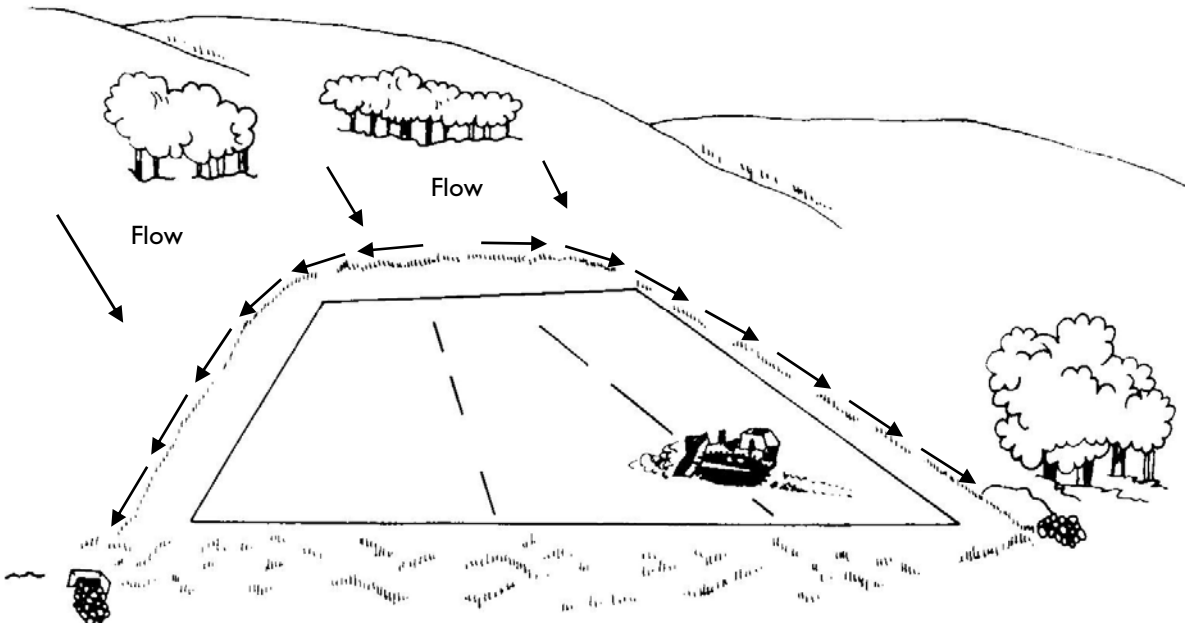
Perimeter Diversion Dike

Exhibit 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 83

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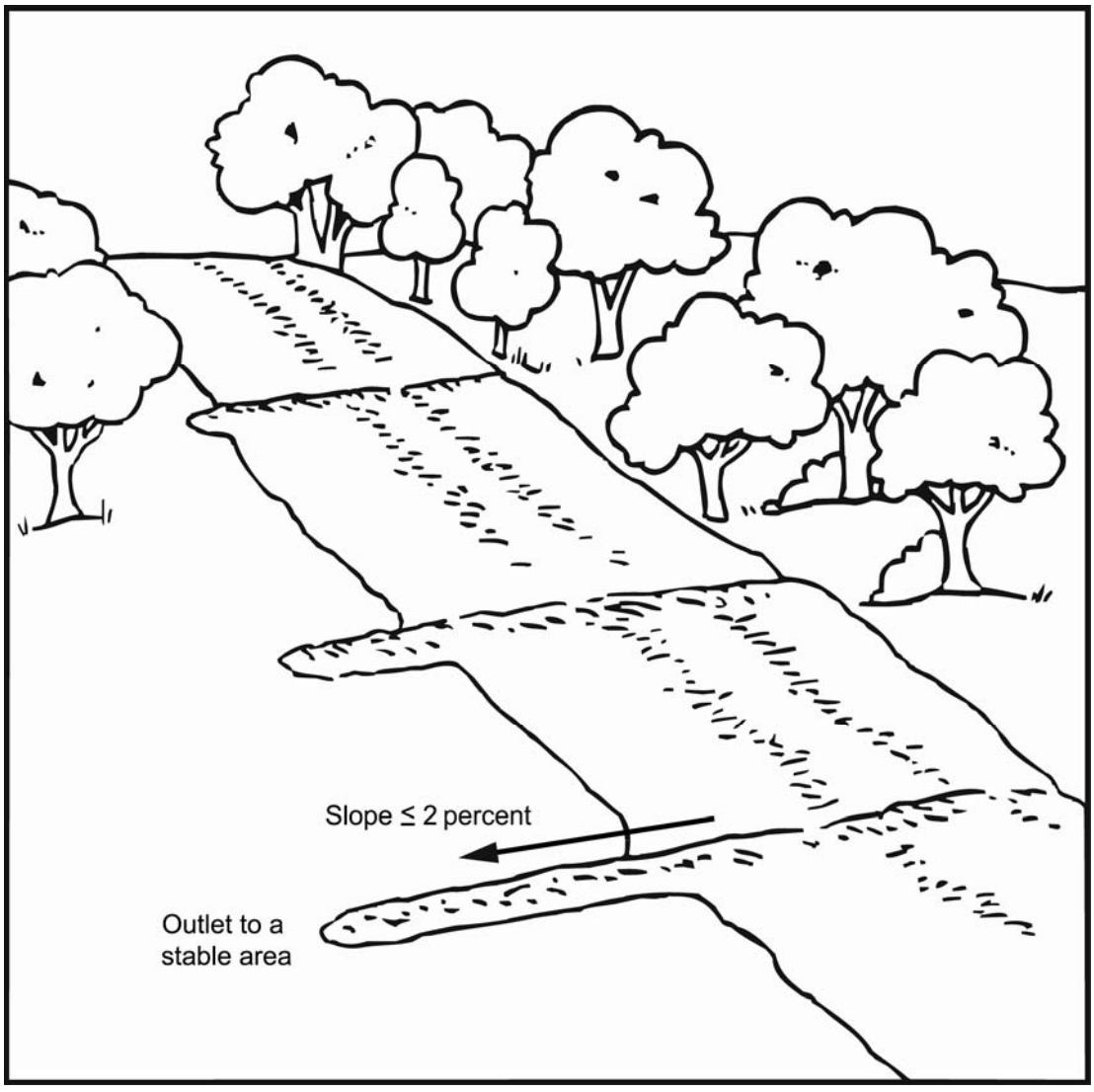
Water Bar

Exhibit 1



For information on this measure, see Chapter 7, page 89

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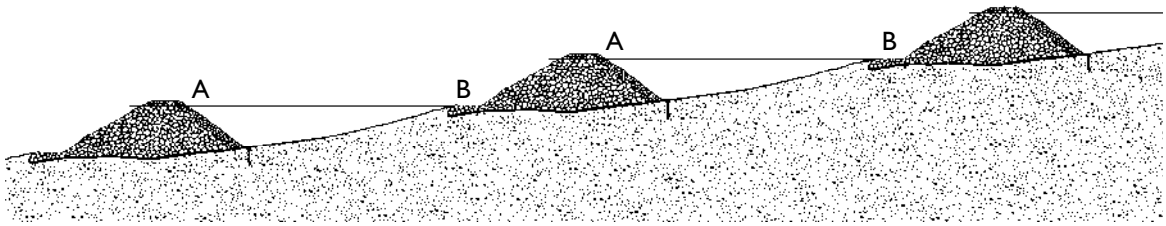
Rock Check Dam

Exhibit 1



A = Crest of Dam

B = Toe of Dam

For information on this measure, see Chapter 7, page 97

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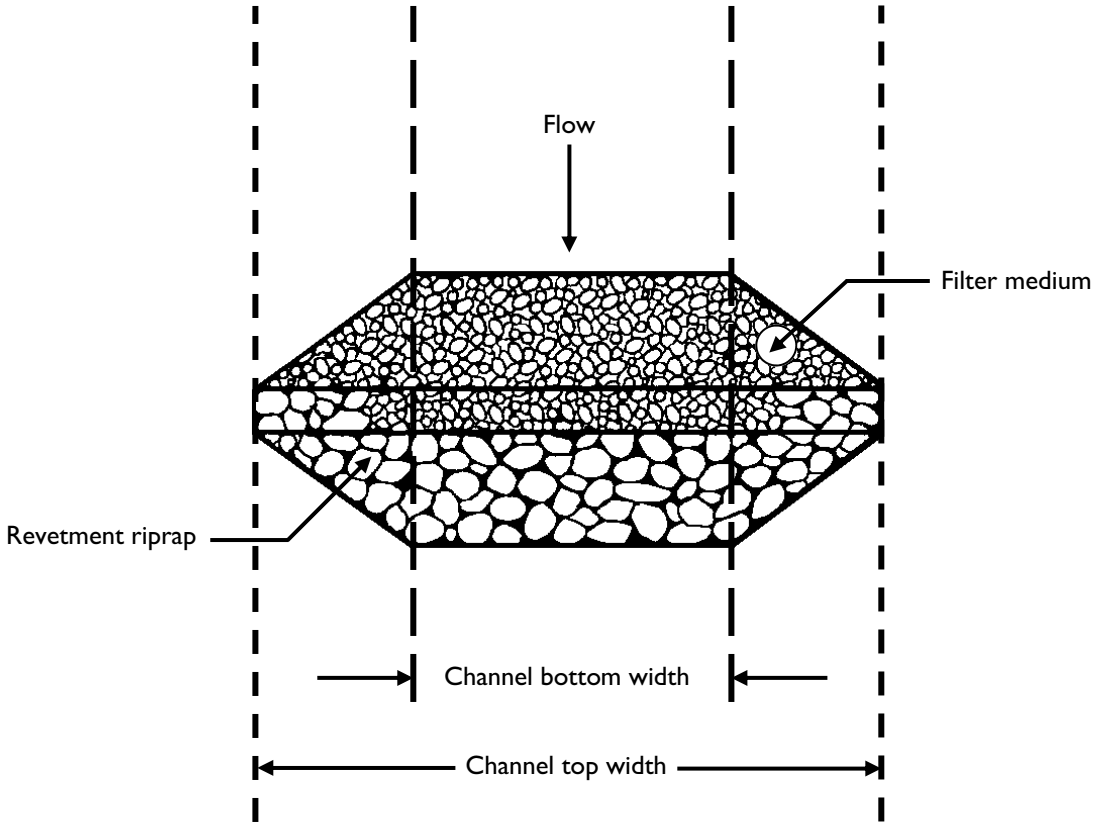
Rock Check Dam

Exhibit 2



For information on this measure, see Chapter 7, page 97

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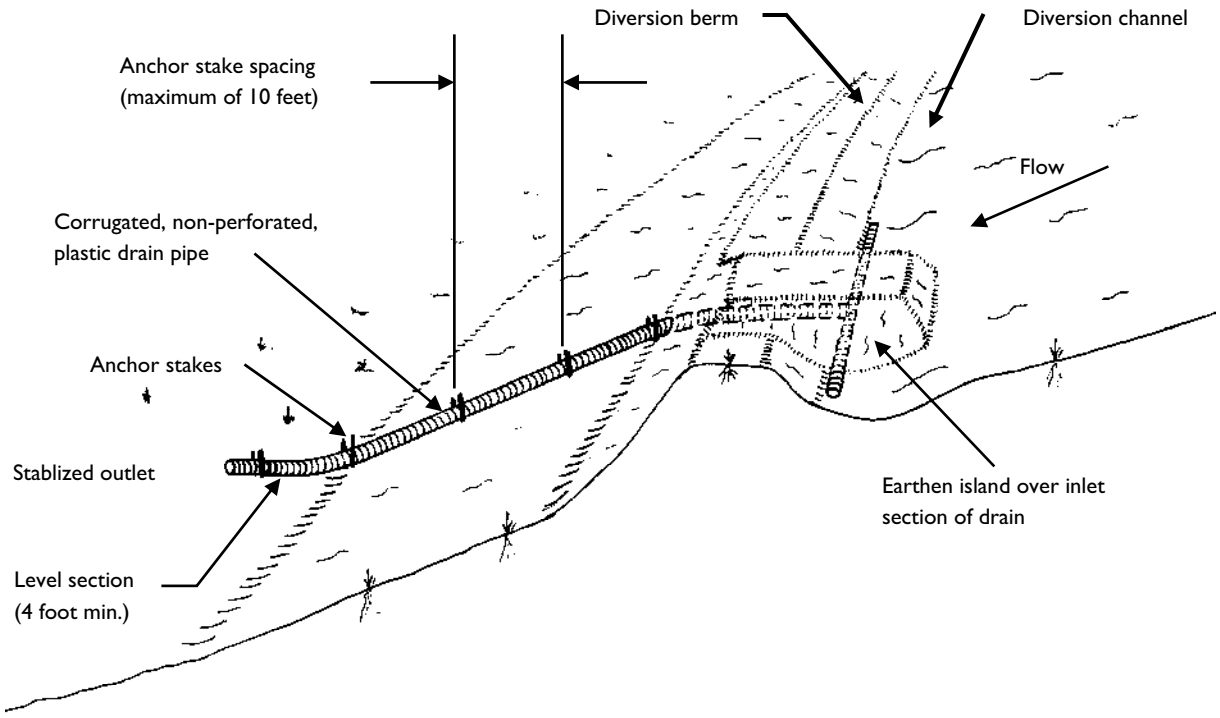
Temporary Slope Drain

Exhibit 1



For information on this measure, see Chapter 7, page 103

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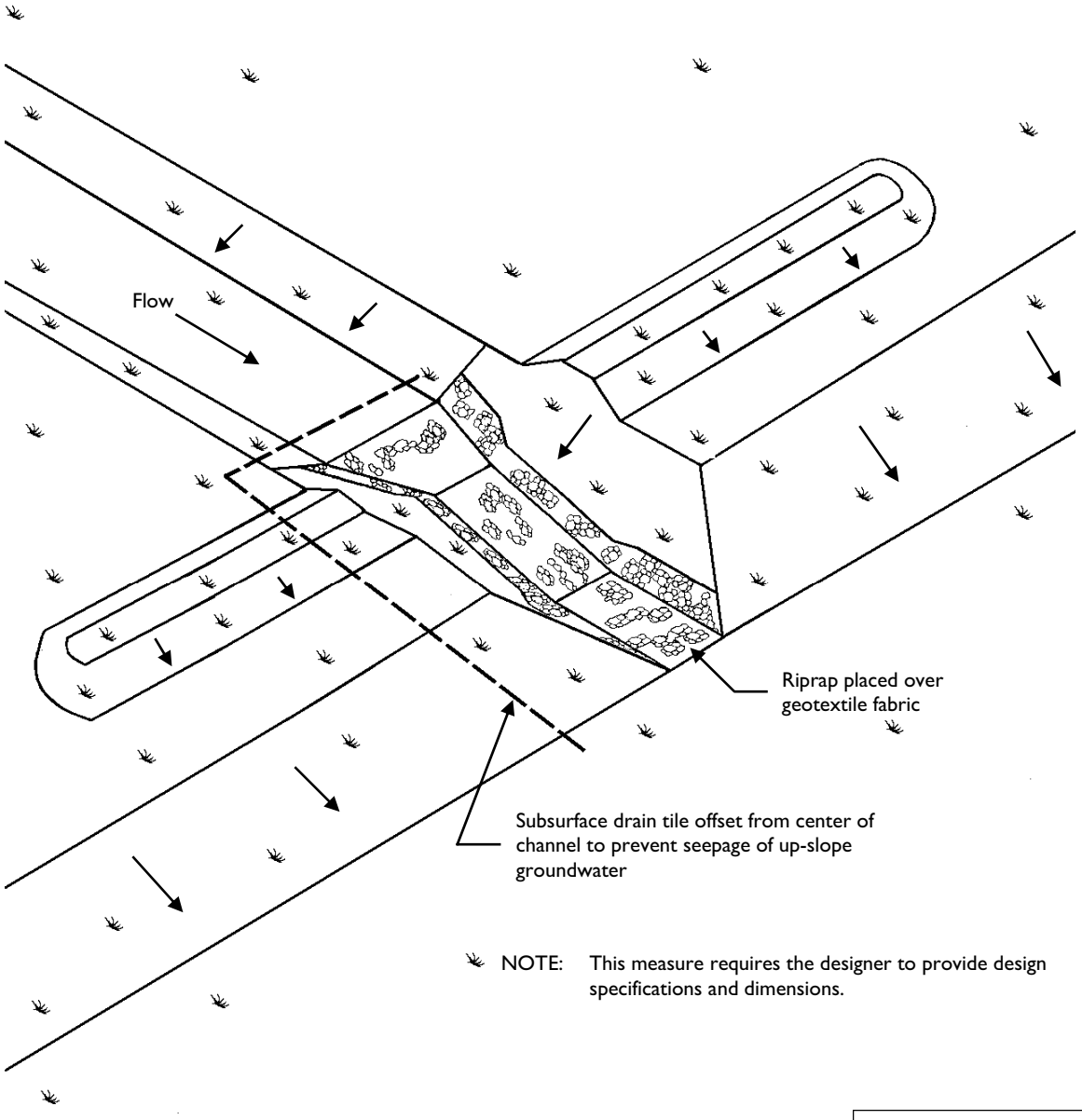
Rock-Lined Chute

Exhibit 1



Source: Adapted from USDA Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 127

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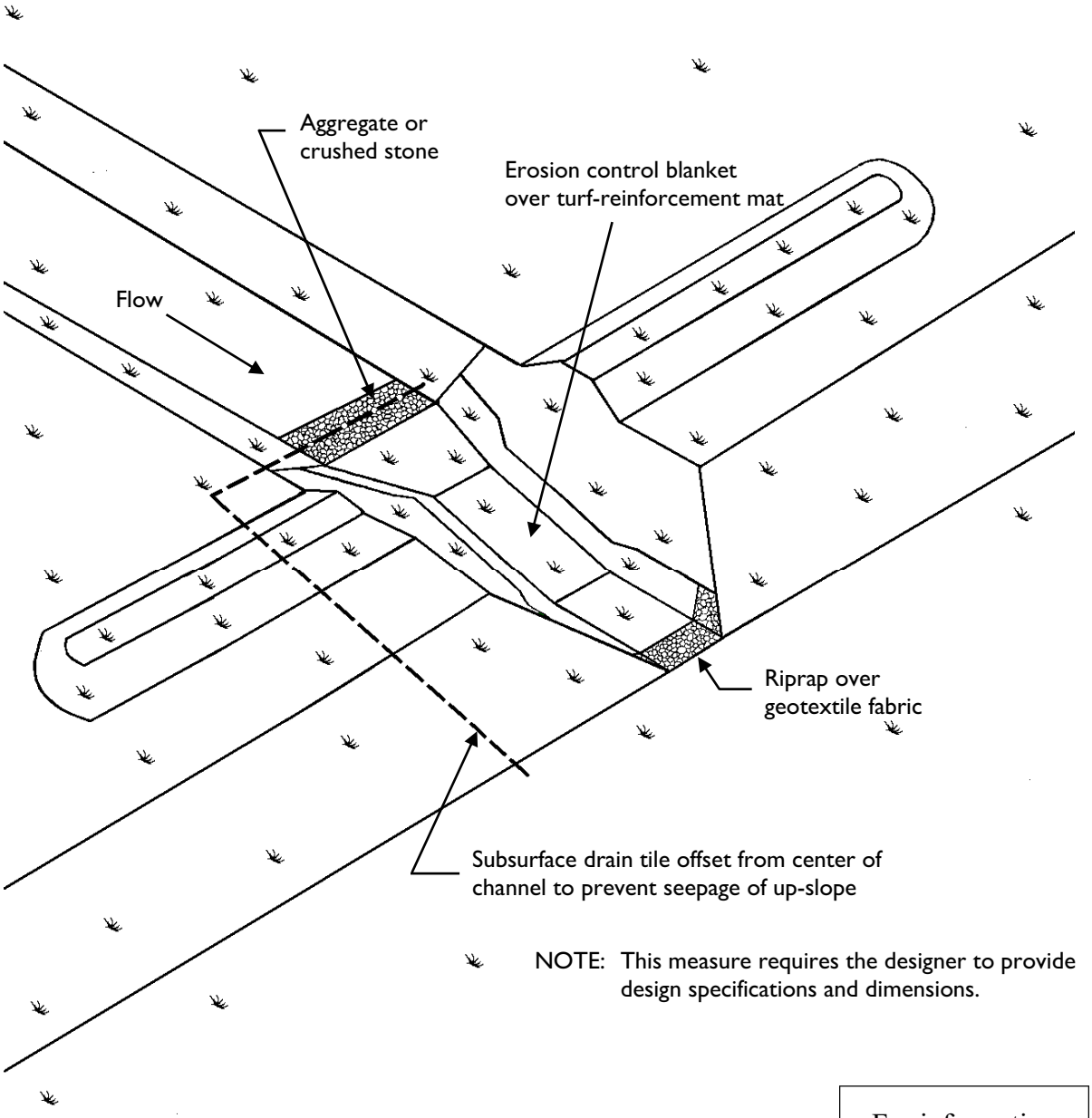
Reinforced Vegetated Chute

Exhibit 1



NOTE: This measure requires the designer to provide design specifications and dimensions.

Source: Adapted from USDA Natural Resources Conservation Service

For information on this measure, see Chapter 7, page 135

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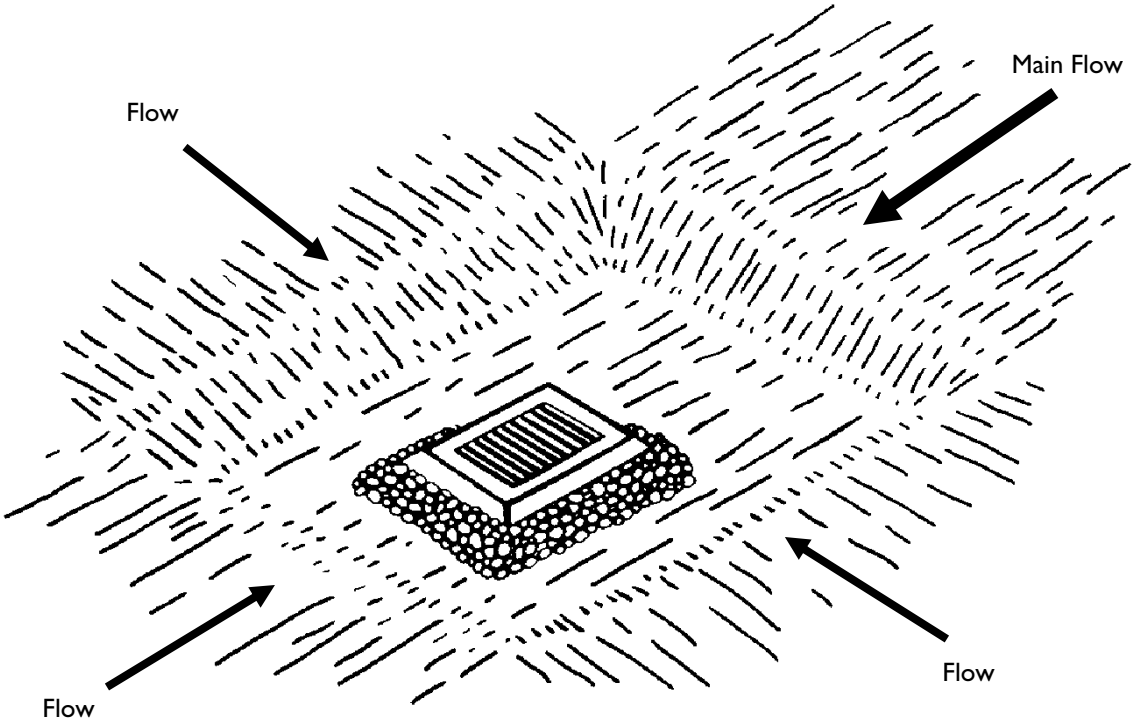
Excavated Drop Inlet Protection

Exhibit 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 145

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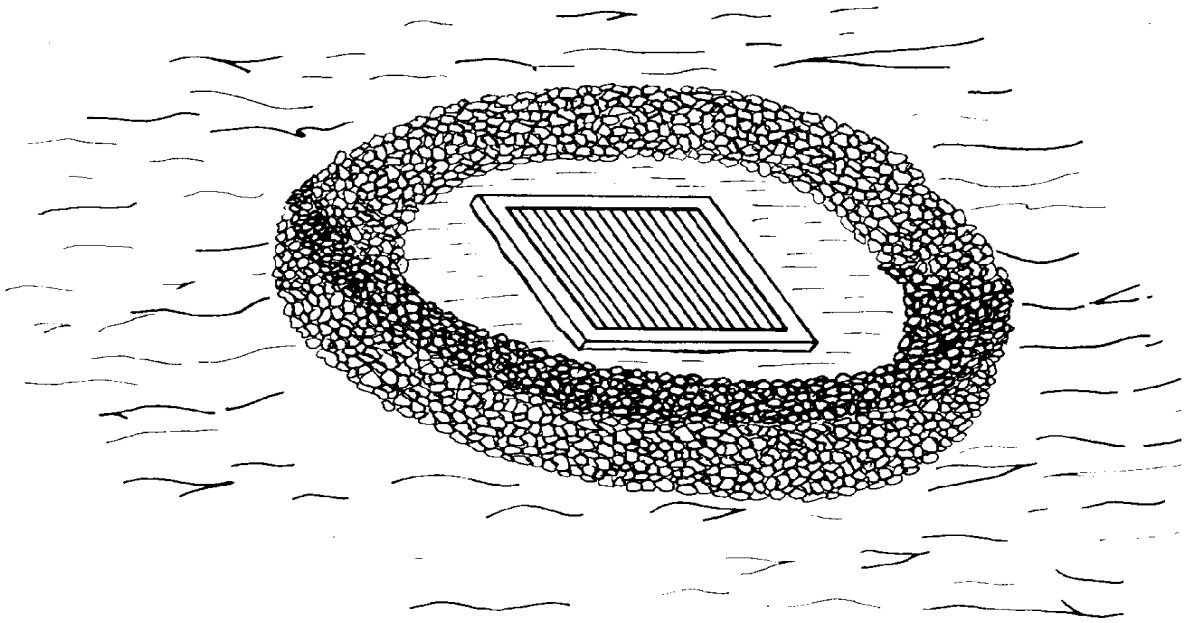
Gravel Donut Drop Inlet Protection

Exhibit 1



For information on this measure, see Chapter 7, page 149

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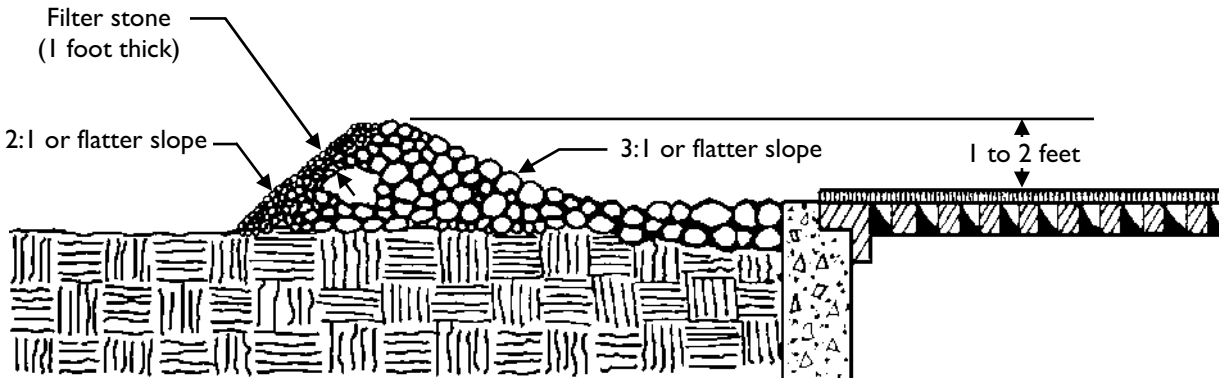
Gravel Donut Drop Inlet Protection

Exhibit 2



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 149

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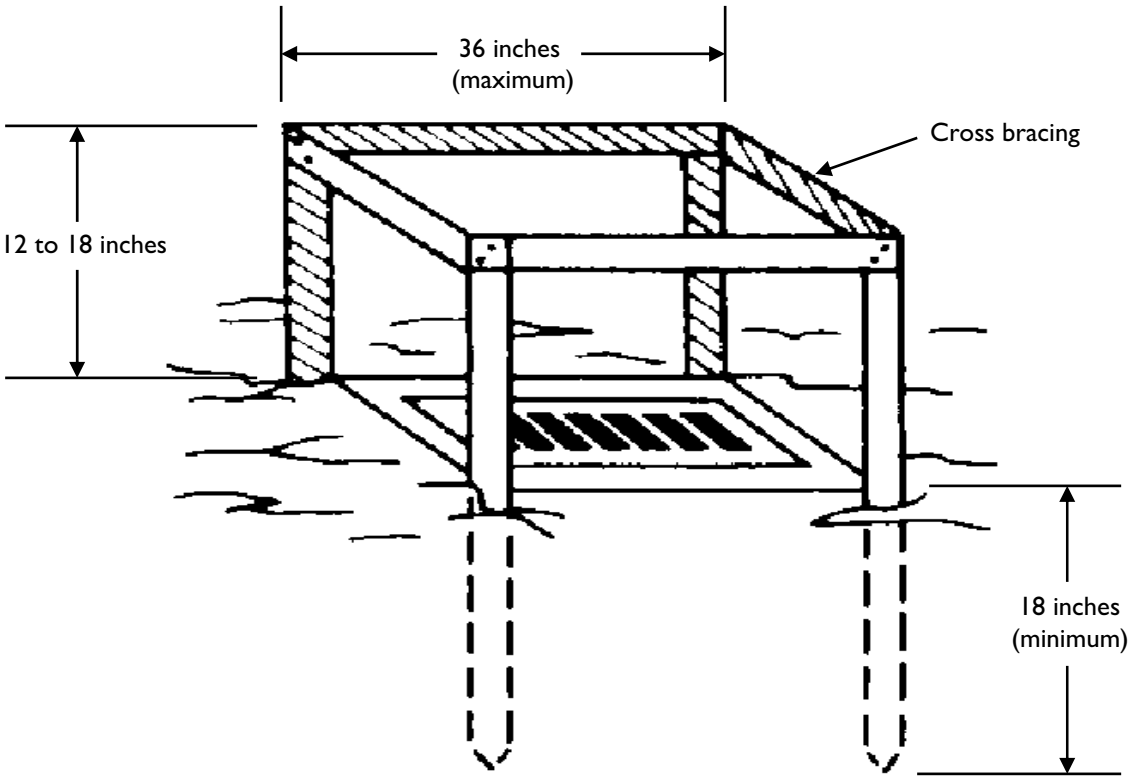
Geotextile Fabric Drop Inlet Protection

Exhibit 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 153

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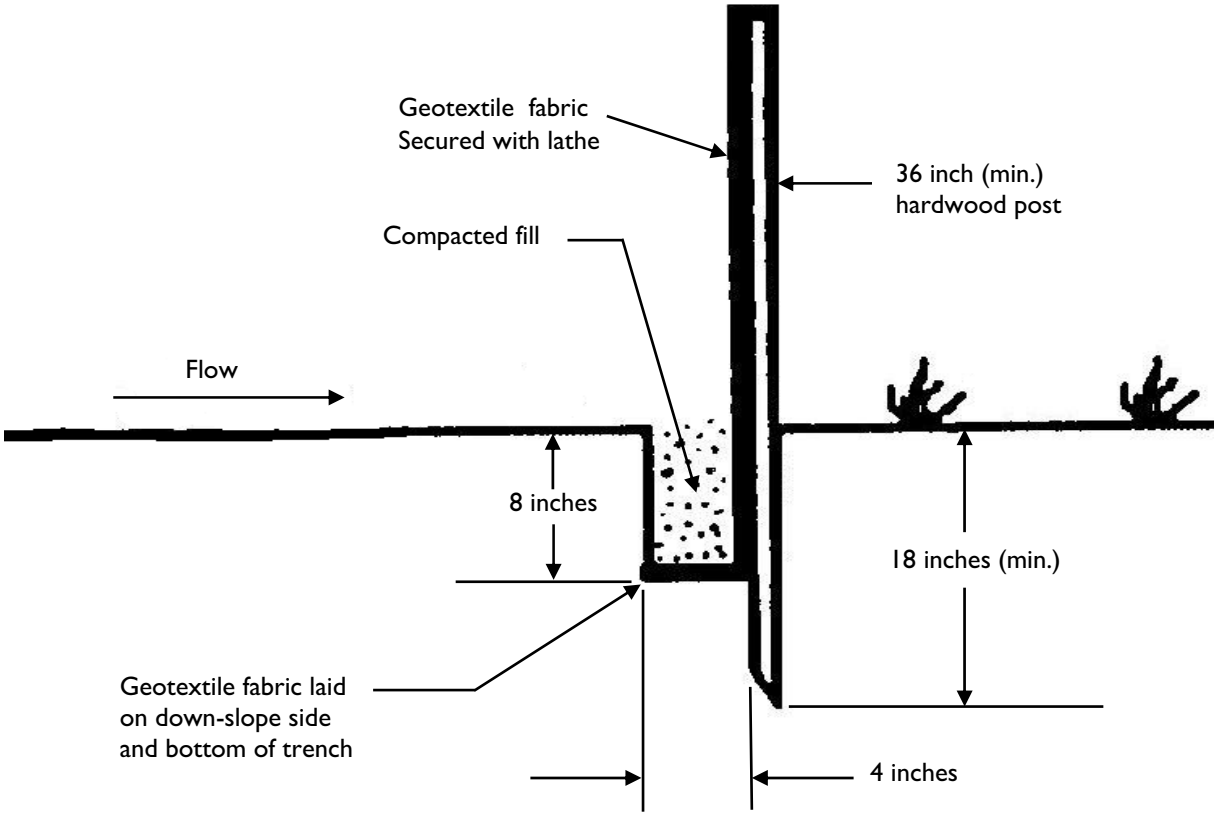
Geotextile Fabric Drop Inlet Protection

Exhibit 2



For information on this measure, see Chapter 7, page 153

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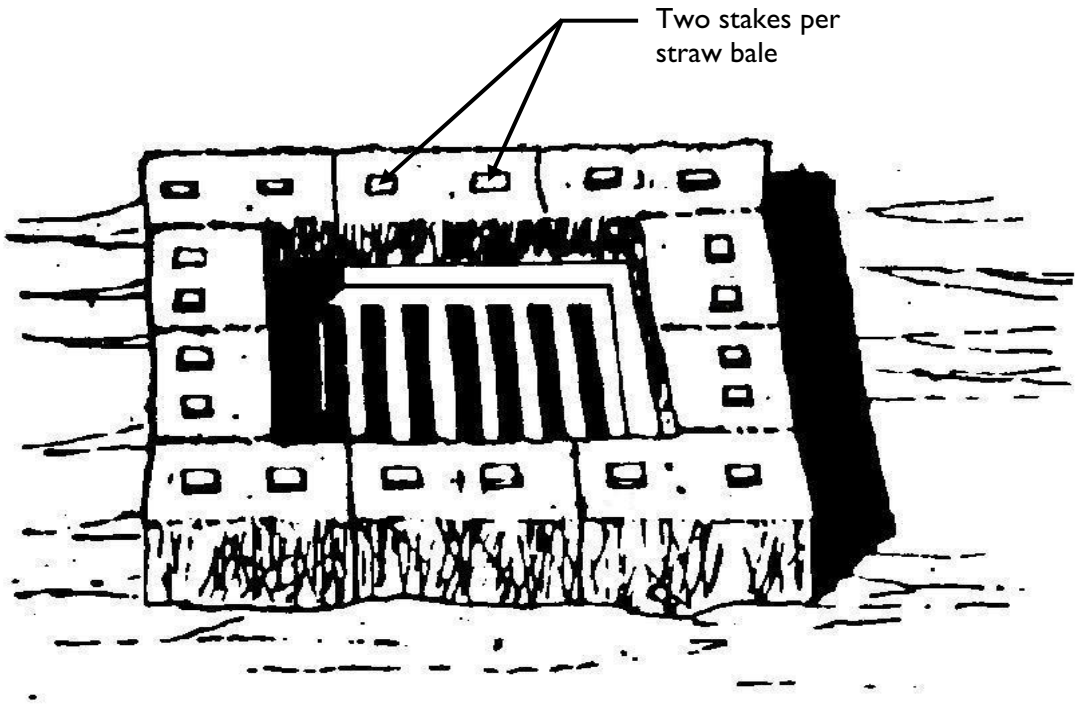
Straw Bale Drop Inlet Protection

Exhibit 1



Source: Adapted from Michigan Soil Erosion and Sedimentation Control Guidebook, 1975

For information on this measure, see Chapter 7, page 159

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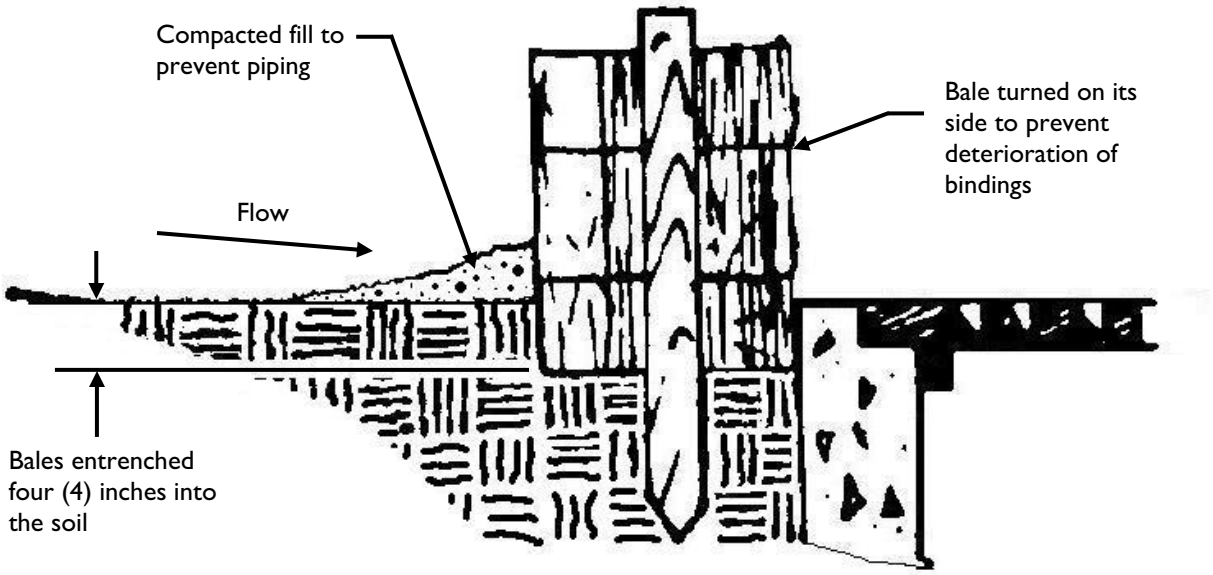
Straw Bale Drop Inlet Protection

Exhibit 2



Source: Adapted from Michigan Soil Erosion and Sedimentation Control Guidebook, 1975

For information on this measure, see Chapter 7, page 159

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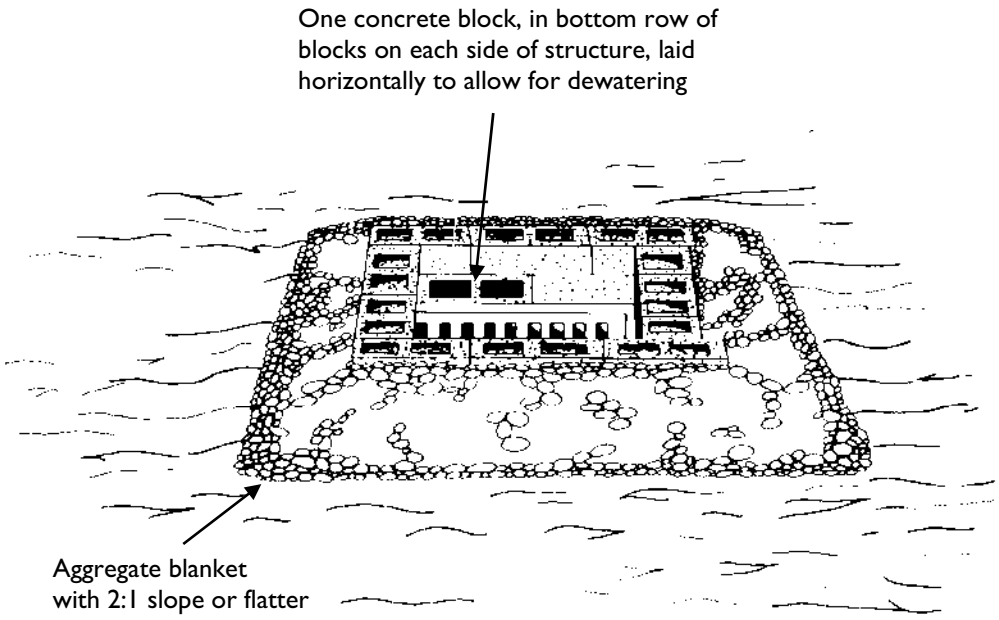
Block & Gravel Drop Inlet Protection

Exhibit 1



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 163

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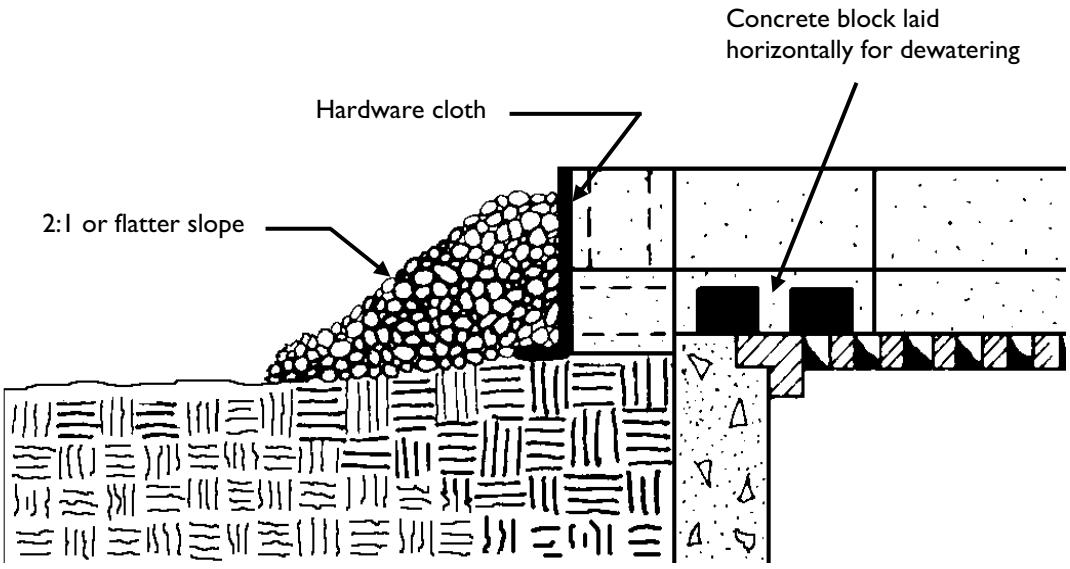
Block & Gravel Drop Inlet Protection

Exhibit 2



Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 163

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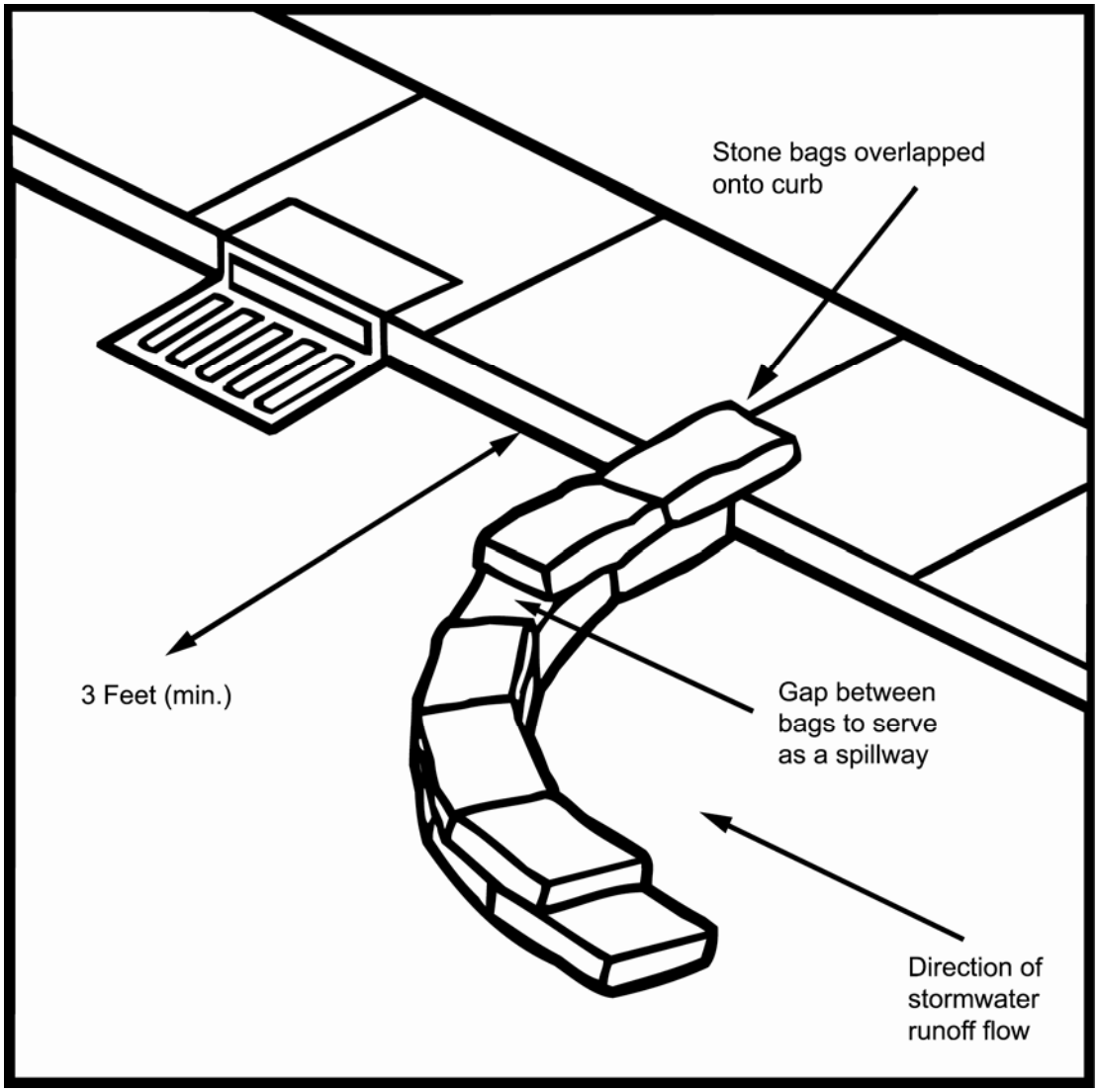
Stone Bag Curb Inlet Protection

Exhibit 1



For information on this measure, see Chapter 7, page 169

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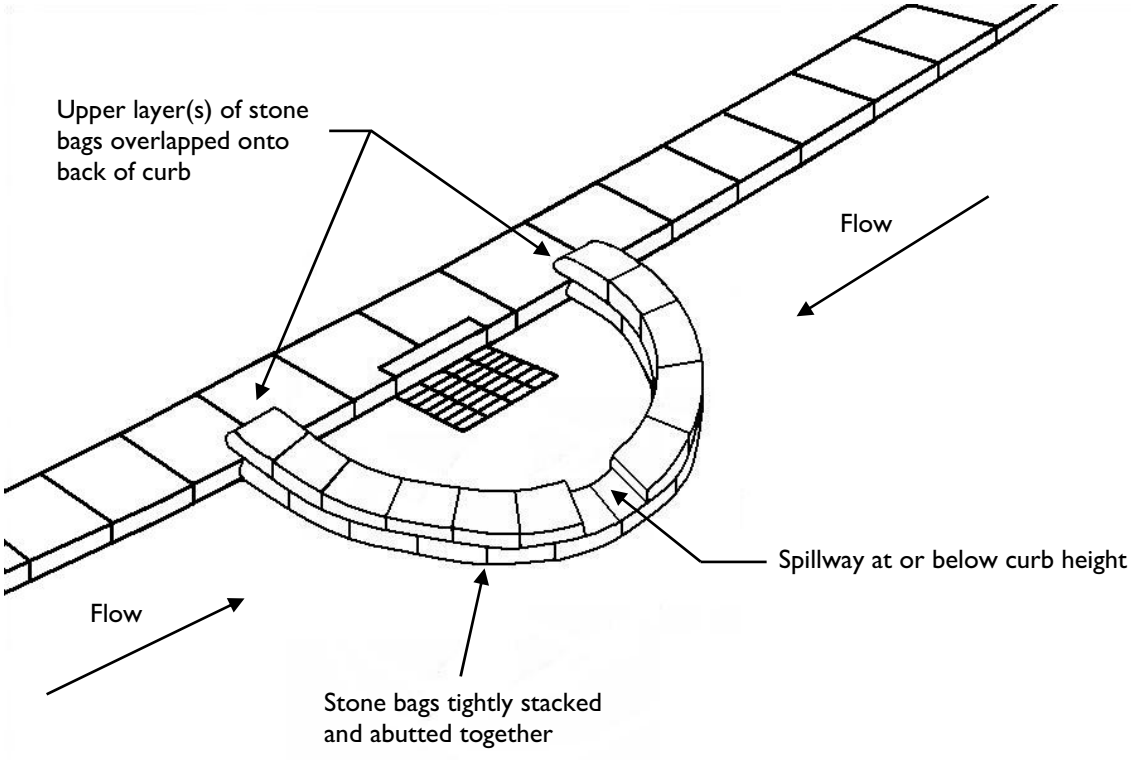
Stone Bag Curb Inlet Protection

Exhibit 2



For information on this measure, see Chapter 7, page 169

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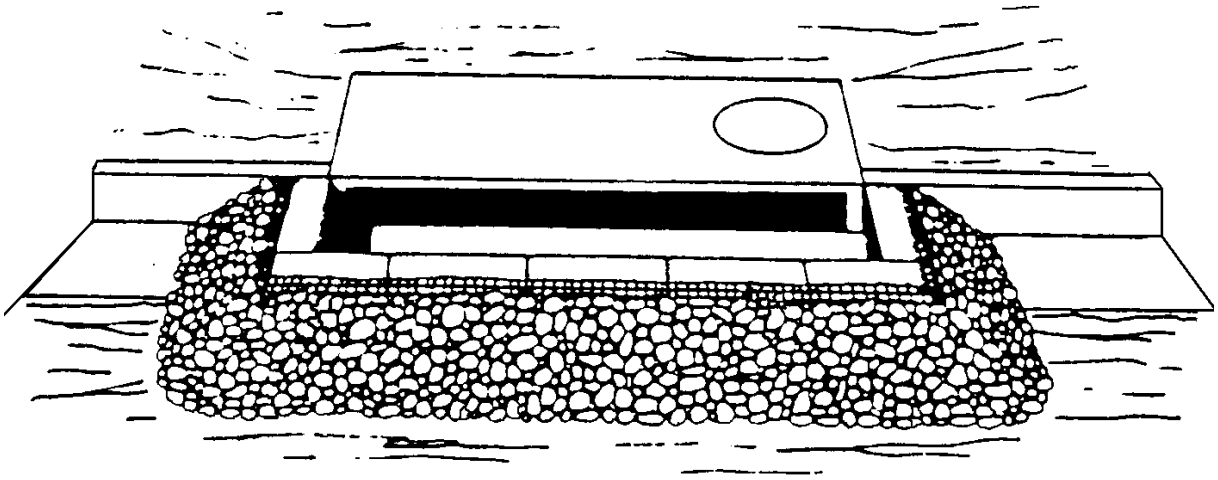
Block & Gravel Curb Inlet Protection

Exhibit 1



Source: Adapted from Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation

For information on this measure, see Chapter 7, page 173

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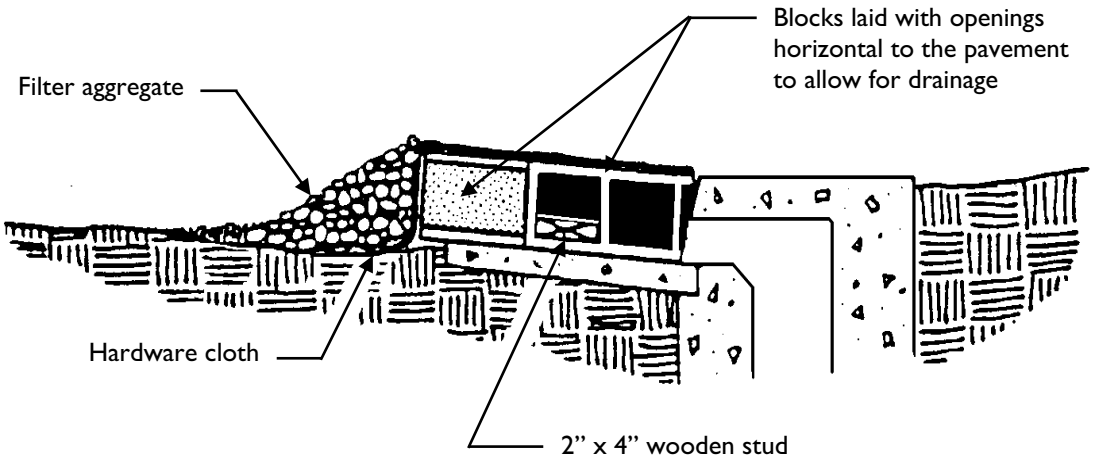
Block & Gravel Curb Inlet Protection

Exhibit 2



For information on this measure, see Chapter 7, page 173

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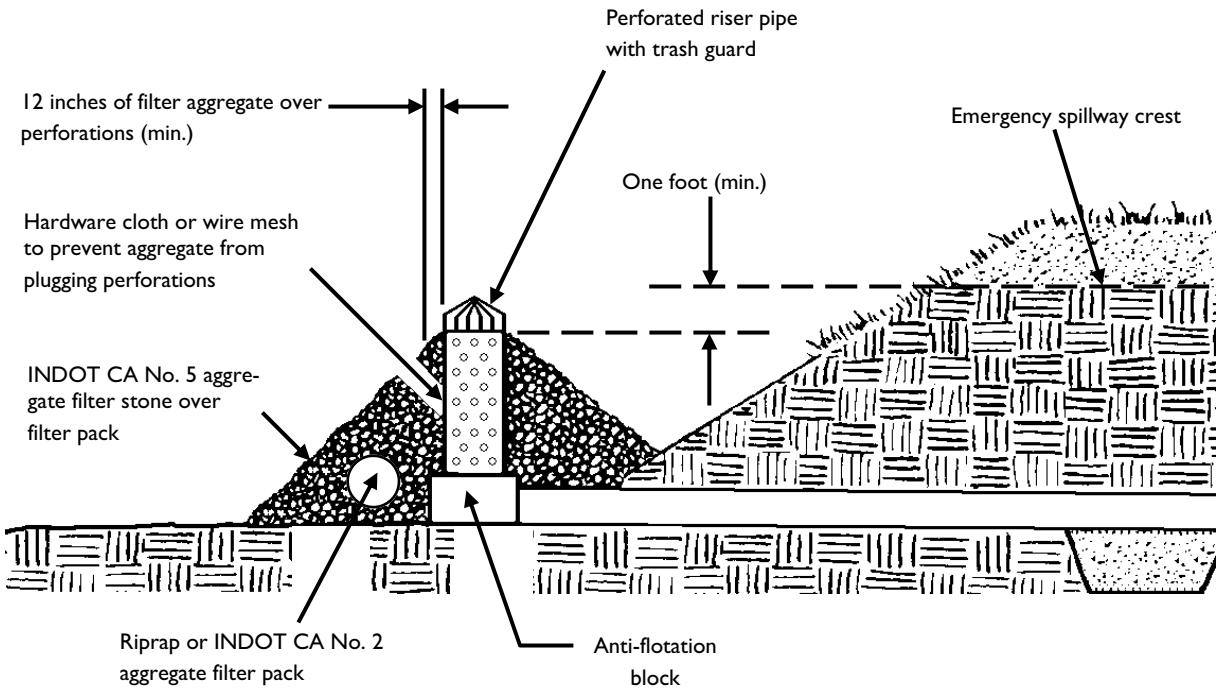
Temporary Dry Sediment Basin Riser Pipe

Exhibit 1



NOTE: For minimum dimensions see the "Specifications" section of this measure.

Source: Adapted from North Carolina Erosion and Sediment Control Planning and Design Manual, 1993

For information on this measure, see Chapter 7, page 191

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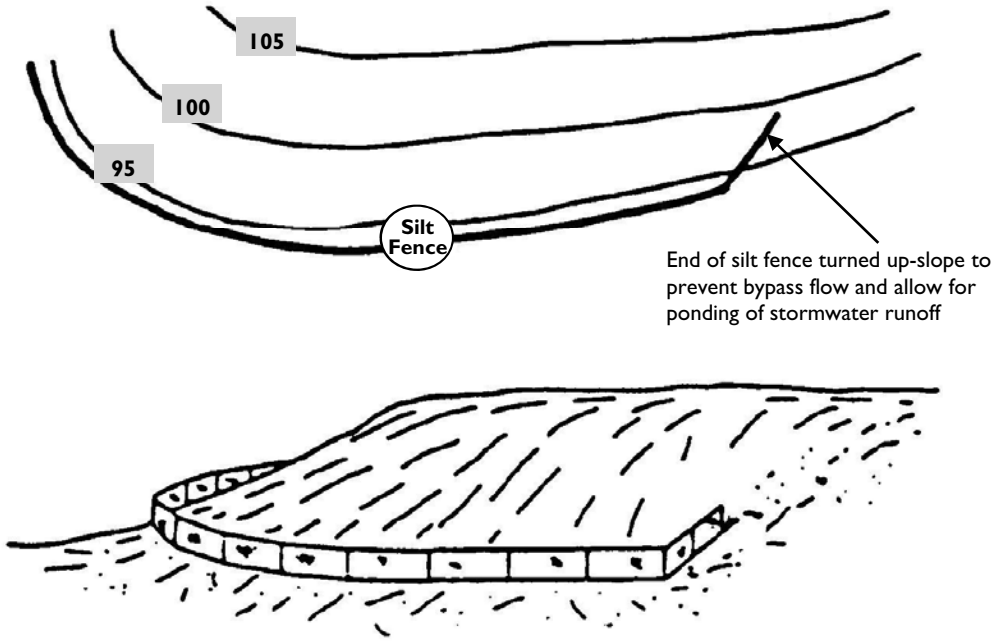
Silt Fence

Exhibit 1



Source: Adapted from Commonwealth of Pennsylvania Erosion and Sediment Pollution Control Program Manual, 1990

For information on this measure, see Chapter 7, page 215

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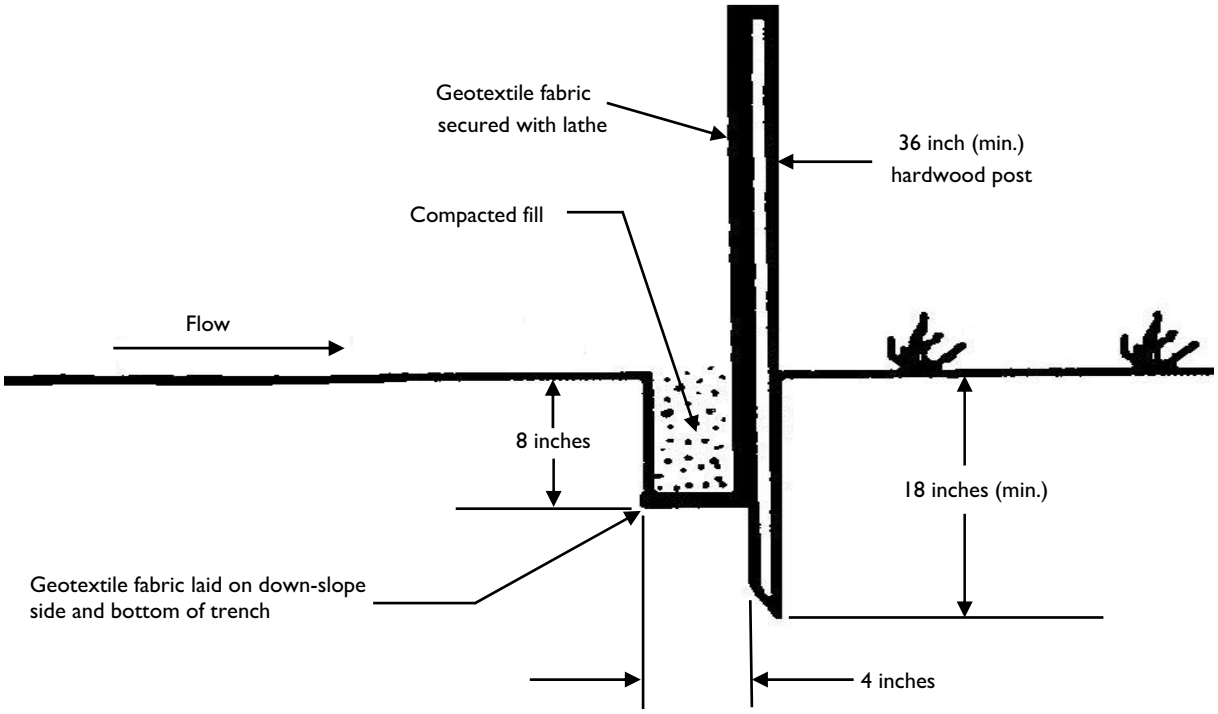
Silt Fence

Exhibit 2



For information on this measure, see Chapter 7, page 215

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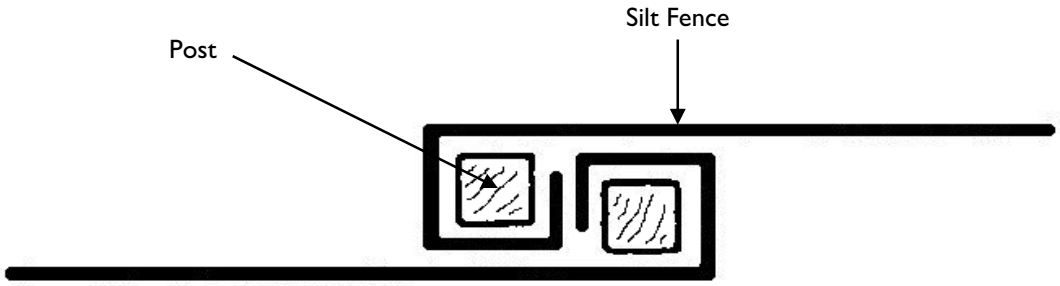
Silt Fence

Exhibit 3



For information on this measure, see Chapter 7, page 215

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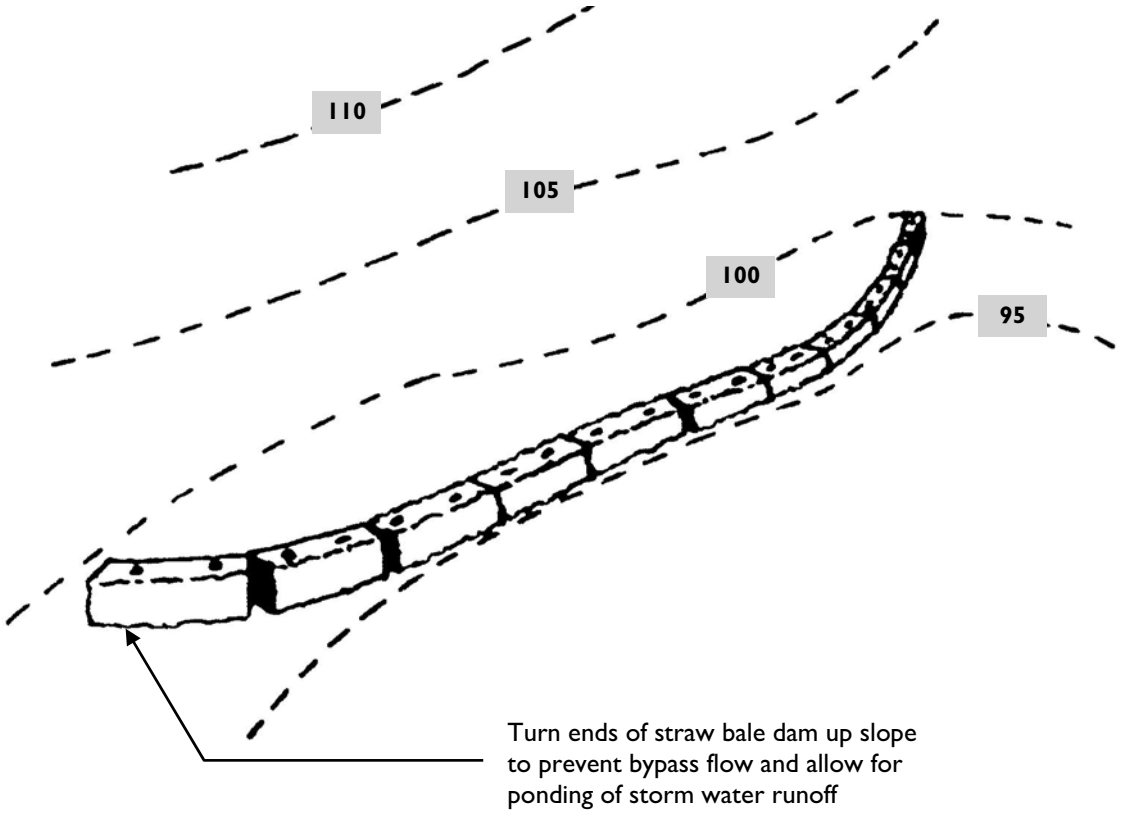
Straw Bale Dam

Exhibit 1



Source: Adapted from Minnesota Pollution Control Agency, Minnesota Construction Site Erosion and Sediment Control Planning Handbook, 1987

For information on this measure, see Chapter 7, page 223

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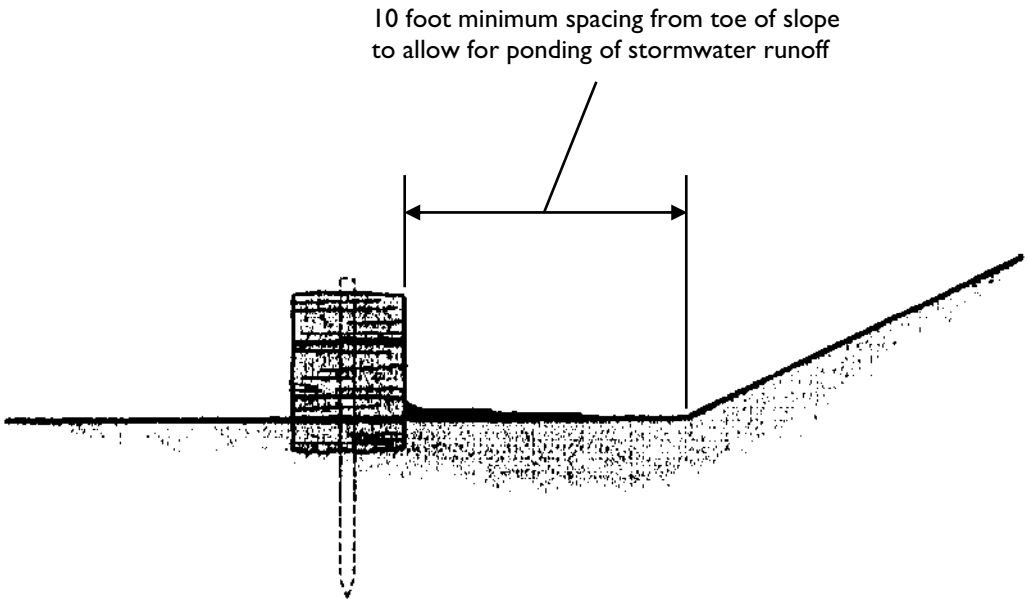
Straw Bale Dam

Exhibit 2



Source: California Regional Water Quality Control Board, San Francisco Bay Region
Erosion and Sediment Control Field Manual, Second Edition

For information on this measure, see Chapter 7, page 223

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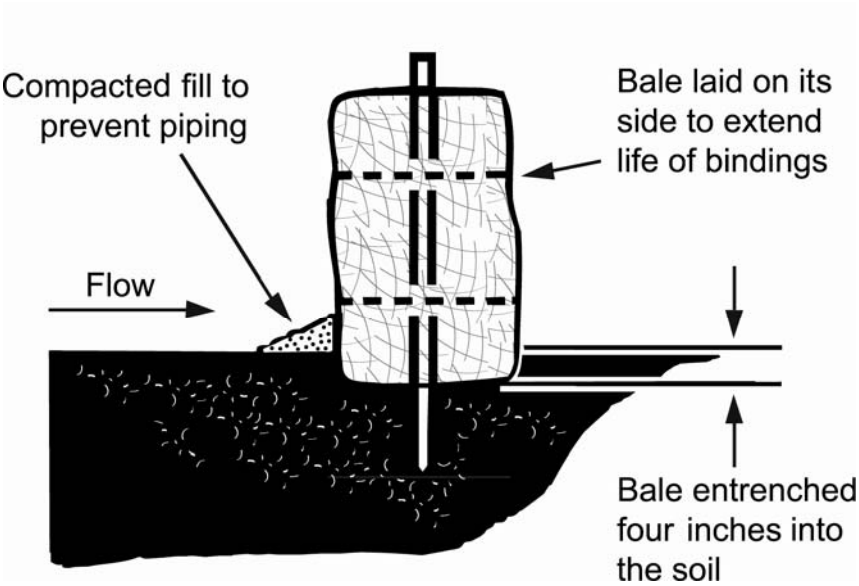
Straw Bale Dam

Exhibit 3



For information on this measure, see Chapter 7, page 223

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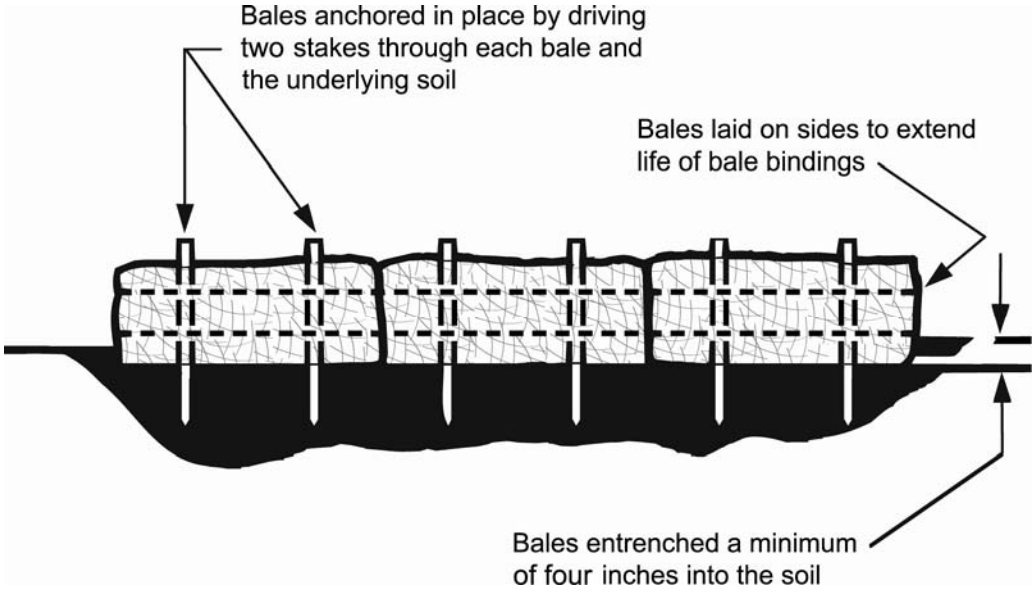
Straw Bale Dam

Exhibit 4



For information on this measure, see Chapter 7, page 223

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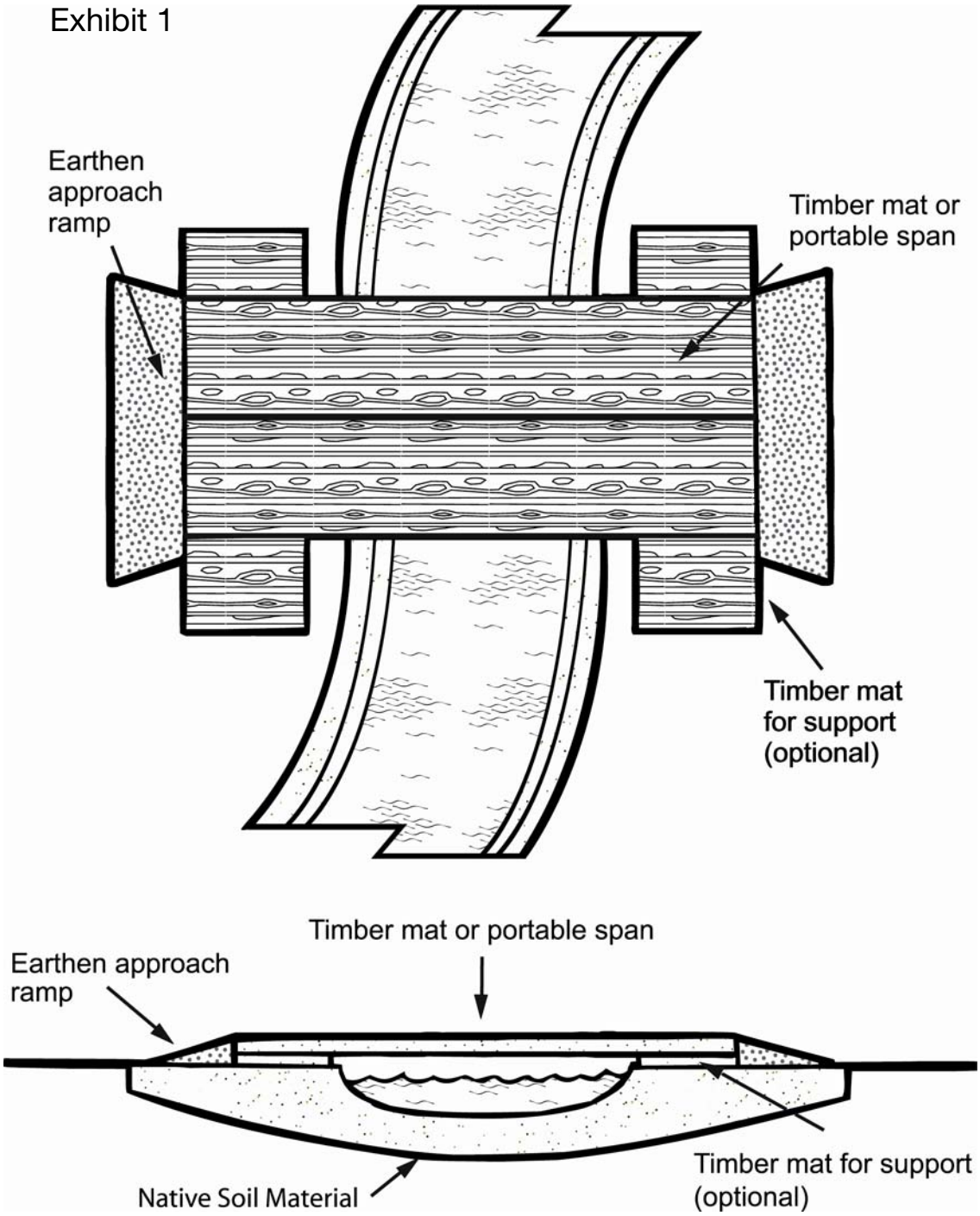
Temporary Stream Crossing - Bridges



NOTE: This measure requires the designer to provide design specifications and dimensions.

For information on this measure, see Chapter 7, page 267

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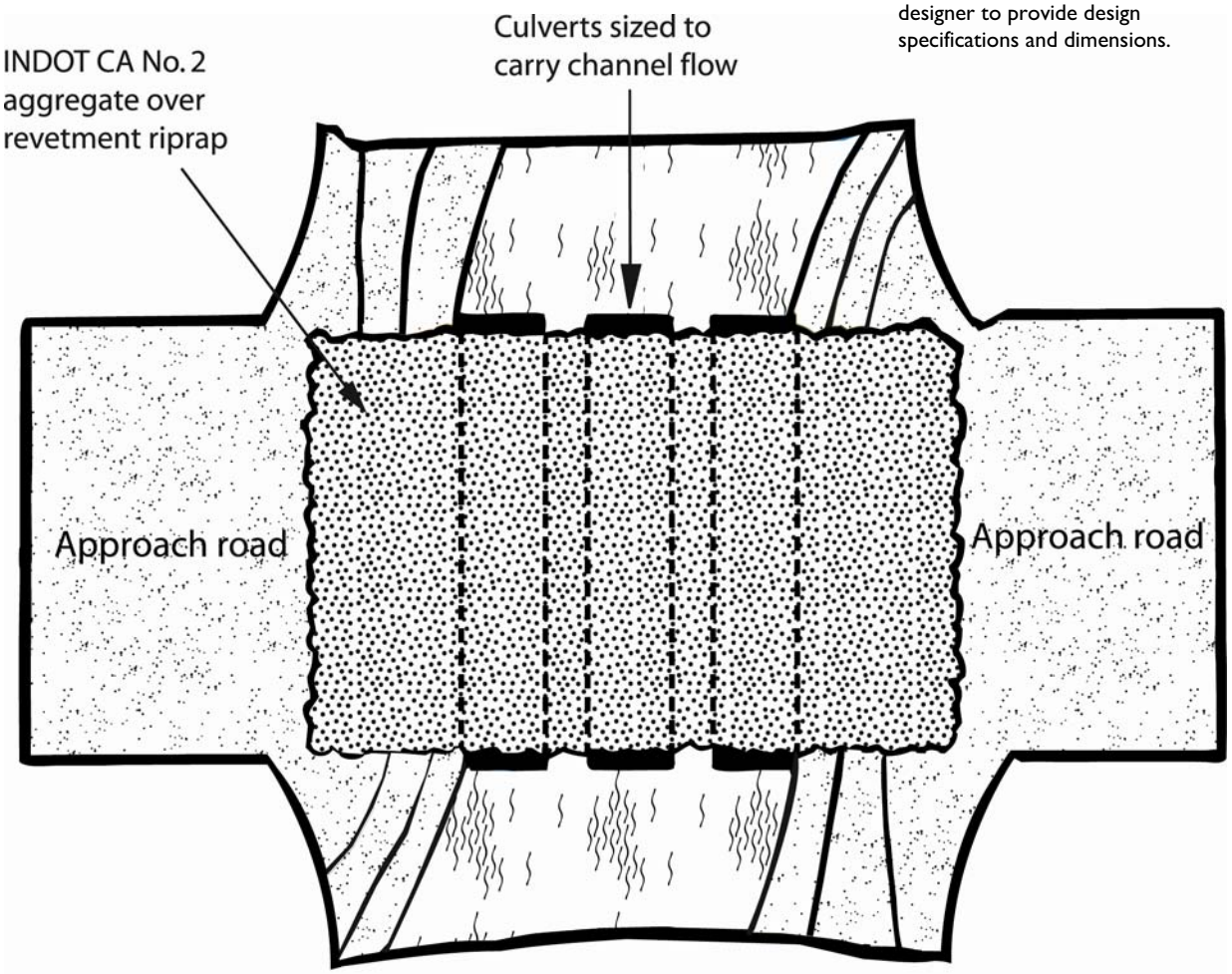
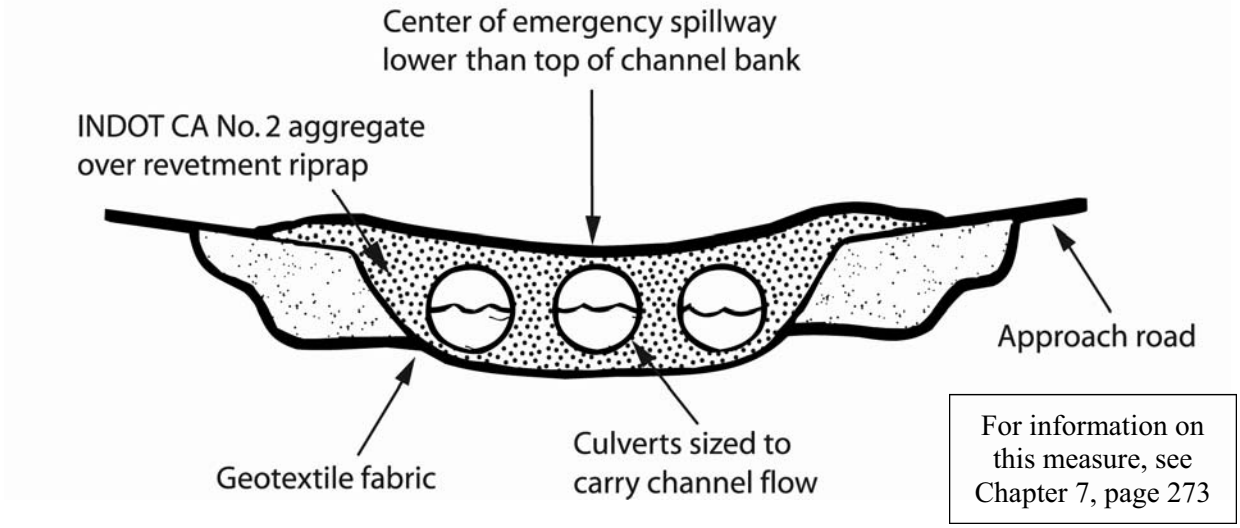
Temporary Stream Crossing - Culverts

Exhibit 1

NOTE: This measure requires the designer to provide design specifications and dimensions.





For information on this measure, see Chapter 7, page 273

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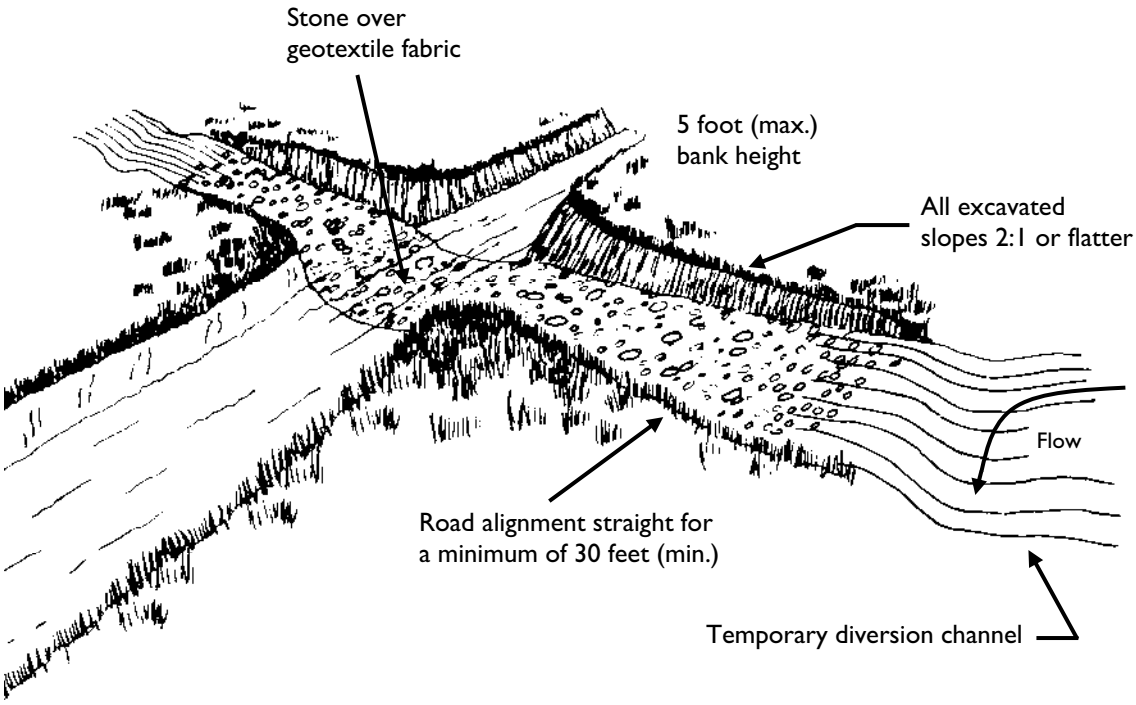
Temporary Stream Crossing - Fords

Exhibit 1



NOTE: This measure requires the designer to provide design specifications and dimensions.

Source: Adapted from Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1992

For information on this measure, see Chapter 7, page 279

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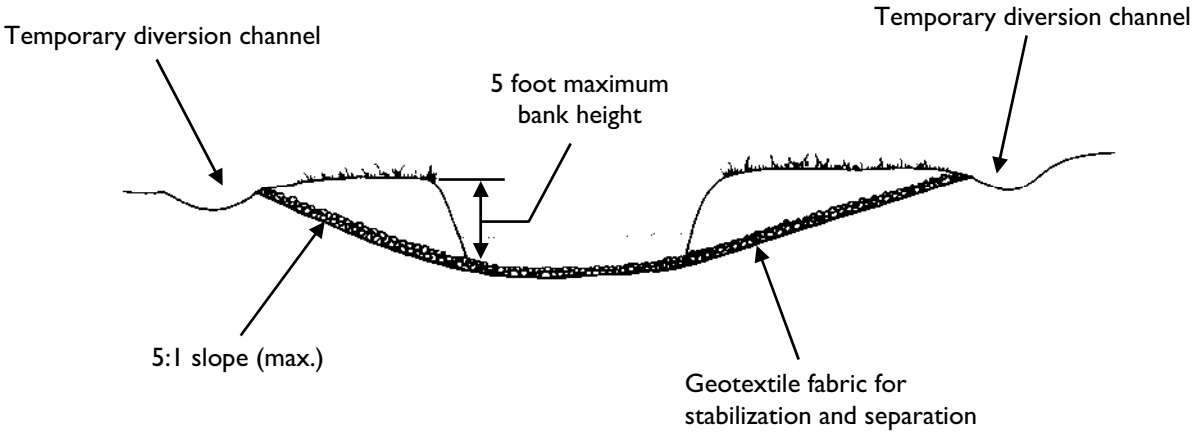
Temporary Stream Crossing - Fords

Exhibit 2



NOTE: This measure requires the designer to provide design specifications and dimensions.

Source: Adapted from Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1992

For information on this measure, see Chapter 7, page 279

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