

Woven Wire Fence (Min. 141/2 Gauge, Max. 6" Mesh spacing). With Fil Yer Sloth over. -

36" Min. Fence Posts, driven min.

cloth a Min. 8

·· Stabilization as required. On steep slopes excayate to provide

required flow width at flow depth

(5acorloss) (5-10 ac)

Humana sco

And meets Technical Requirements

Demas Modelin 2-15-85

U.S. Soil Conservation Service

THIS DEVELOPMENT PLAN IS APPROVED

FOR SOIL EROSION AND SEDIMENT

CONTROL BY THE HOWARD SOIL

CONSERVATION DISTRICT.

SECTION

POSTS: Steel either Tor U Type or 2" Hard wood

FILTER CLOTH: FilterX, Mirafi 100X

PREFABRICATED UNIT: Geofab, Envirofence, or Approv. equal.

Stablinka, TI40N or Approv. equal.

FENCE: Woven Wire, 141/2 Gage 6" Max. Mesh Opening

16" Min.

SILT FENCE DETAIL (9)

. 2:1 Slope or flatter.

NO SCALE

a. DIKE HEIGHT
b. DIKE WIDTH
positive Drainage-Grade Sufficient to Diain c. FLOW WIDTH
d. FLOW DEPTH

3. Top width may be wider and side slopes may be flatter if desired, to facilitate

4. Field location should be adjusted as needed to utilize a stabilized safe outlet.

5. Earth dikes shall have an outlet that functions with a minimum of erosion. Runoff shall be conveyed to a sediment trapping device such as a sediment trap or sediment basin where either, the dike channel or the drainage area above the dike are not

6. Stabilization shall be: (A) In accordance with standard specifications for seed and straw mulch or straw mulch if not in seeding season, (B) flow channel as

5.1- 8.0% Seed w/Jule, or Sad; 2"Stone Lined RID Rap 4"-8" Store

Seed or Straw Mulch

Seed w/Jute, or Excelsion; Sad; 2"Stone

beviewed for

FLOW CHANNEL STABILIZATION

8.1-20.0% Lined Rip Rap 4-8"Stone Engineering Design

7. Periodic Inspection and Required Maintenance must be provided after each rain.

EARTH DIKE DETAIL (E.D.)

A Stone to be 2" Stone, or recycled concrete equivilent, in a layer at least 3" thick and be pressed into soil with construction equipment.

B. Rip Rap to be 4"-8" in a layer at least 8" thick, pressed into soil.

C. Approved equivalents can be substituted for any of the above materials.

2-27-85

251-82

10 Max. C. to C

CONSTRUCTION SPECIFICATIONS:

CUT OF FILL SLOPE

adequately stabilized.

per chart below.

CONSTRUCTION SPECYFICATIONS:

crossing by construction traffic.

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

FOR PUBLIC WATER AND PUBLIC SEWERAGE,

STORM DRAINAGE SYSTEMS AND PUBLIC ROADS

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS

All dikes shall be compacted by earth-moving equipment.
All dikes shall have positive drainage to an outlet.

0.5-3.0% Seed & Straw Mulch 3.1-5.0% Seed & Straw Much

PERSPECTIVE VIEW

I. Woven wire fence to be fastened securely to fence posts with wire ties or staples.

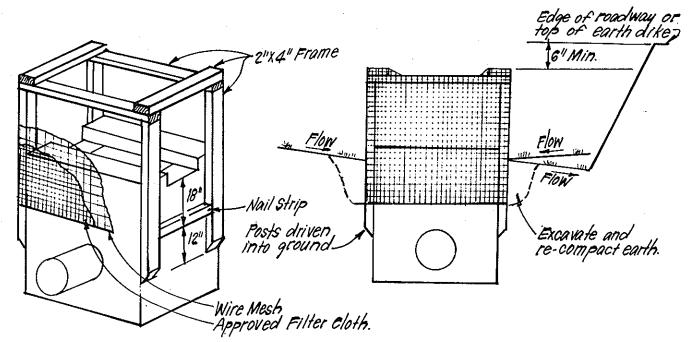
3. When 2 sections of filter cloth adjoin each other they shall be overlapped by 6" and folded.

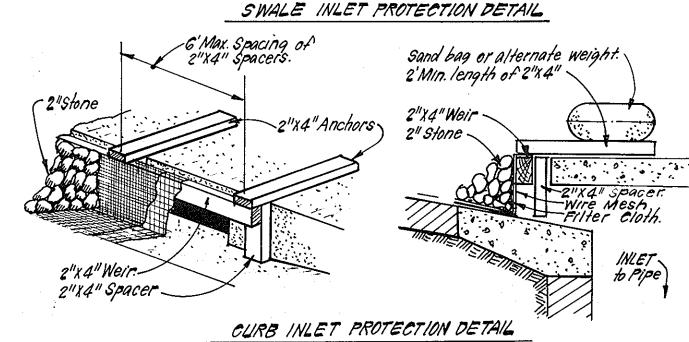
4. Maintenance shall be performed as needed and material removed when "Bulges" develop in Silt Fence.

2. Filter Cloth to be fastened securely to woven wire fence with ties spaced every 24" at top and mid section.

8. Washing Wheels shall be cleaned to remove sediment prior to entrance onto public rights of way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.

9. Periodie inspection and needed maintenance shall be provided after each rain. STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)





CONSTRUCTION SPECIFICATIONS:

I MATERIALS: A. Wooden frame is to be constructed of 2"K4" construction grade lumber.

B. Wire mesh must be of sufficient strength to support filter fabric, and stone for curb inlets, with water fully impounded against it. C. Filter cloth must be of a type approved for this purpose; resistant to sunlight with sieve size EOS, 40.85, to allow sufficient passage of water and removal of sediment.

D. Shore is to be 2" in size and clean since fines would elog the cloth.

I PROCEDURE: SWALE, DITCHLINE OR YARDINLET PROTECTION

1. Excavate completely around inlet to a depth of 18" below norch elevation.

2. Drive 2x4 post 1' into ground at four corners of inlet. Place nail strips between pasts on ends of inlet. Assemble top portion of 2x4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of road way adjacent to inlet.

3. Stretch wire mesh tightly around frame and fasten securely. Ends must meet at post.

4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frame to 18" below inlet notch elev. Fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down.

5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides.

notch elevation on ends and top elevation on sides.

6. If the Inlet is not in a low point, construct a compacted earth dike in the ditch line below it. The top of this earth dike is to be at least 6" higher than the top of frame (weir).

7. The structure must be inspected frequently and filter fabric replaced when cloqued.

I PROCEDURE: CLIBB INLET PROTECTION

1. Attach a continuous pièce of wire mesh (30" min. width by throat length plus 4') to the 2x4" weir (measuring throat length plus 2') as shown on std. drawing. 2. Place a pièce of approved filter cloth (40.85 siève) of the same dimensions as

the wire mesh over the wire mesh and securely attach to the 2"x4" weir.

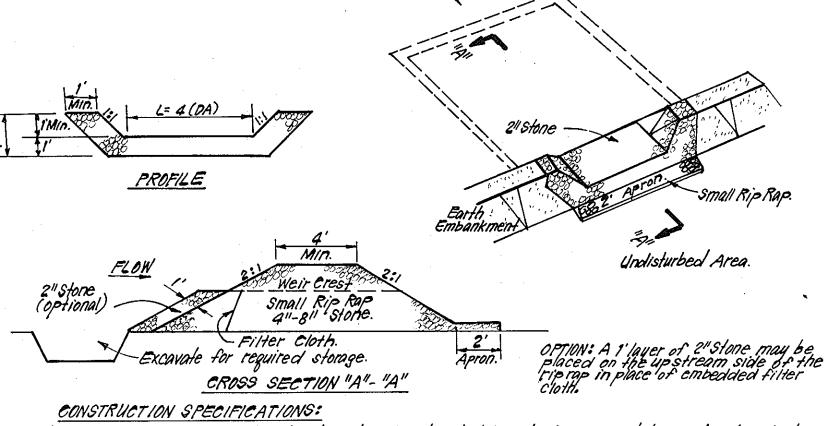
3. Securely nail the 2"x4" weir to 3" long vertical spacers to be located between the weir and inlet face (max 6' apart). 4. Place the assembly against the inlet throat and nail (min. 2' lengths of 2X4"

to the top of the weir at spacer locations. These 2"x4" anchors shall extend accross the inlet top and be held in place by sandbags or alternate weight.

5. The assembly shall be placed so that the end spacers are a min I' beyond both ends of throat opening. 6. From the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2" stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or

7. This type of protection must be inspected frequently and the filter cloth and stone replaced when clogged with sediment. 8. Assure that storm flow does not bypass inlet by installing temporary earth or asphalt dikes directing flow to inlet.

INLET PROTECTION DETAIL (I.P.D.)



I. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The

1. Area under embankment shall be cleared, grubbed and stripped of any vegetation and root mat. The popl area shall be cleared.

2. The fill material for the embankment shall be free of roots and other woody vegetation as well as oversized stones, rocks, organic material or other objectionable material. The embankment shall be compacted by traversing with equipment while it is being constructed.

3. All cut and fill slopes shall be 2:1 or flatter.

4. The stone used in the outlet shall be small rip rap 4"-8" along with 1'thickness of 2"aggregate placed on the up-grade side on the small rip rap or embedded filter cloth in the rip rap.

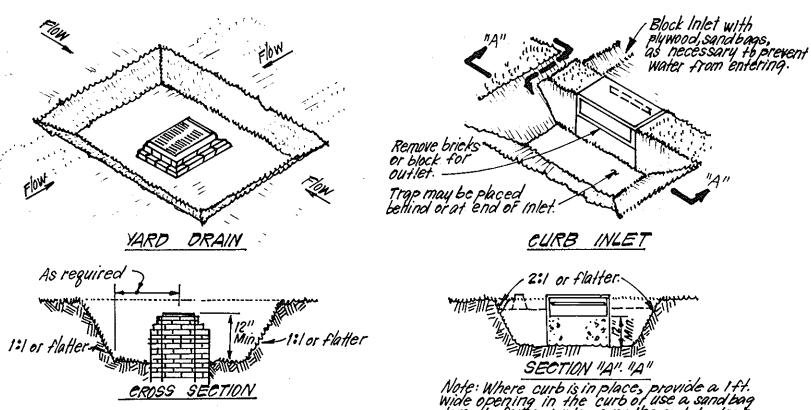
5. Sediment shall be removed and trap restored to its orginal dimensions when the sediment has accumulated to 1/2 the desian depth of the trap.

6. The structure shall be inspected after each min and repairs made as needed.

7. Construction operations shall be corried out in such a manner than erosion and water pollution is

7. Construction operations shall be carried out In such a manner than erosion and water pollution is 8. The structure shall be removed and the area stabilized when the drainage area has been properly

STONE OUTLET SEDIMENT TRAP (S.O.ST.) ST.V. NO SCALE



dam to force water over the curb to trap. CONSTRUCTION SPECIFICATIONS: l. Sediment shall be removed and the trap restored to its original dimensions when sediment has accumulated to 1/2 the design depth, of the trap. Removed sediment shall be deposited in a

sulfable area and in such a manner that it will not erode.

2. The volume of sediment storage shall be 1800 c.f./acre of contributory drainage.

3. The structure shall be inspected after each rain and repairs made as needed.

4. Construction operations shall be carried out in such a manner that erosion and water pollution

5. The sediment trap shall be removed and the area stabilized when the constructed drainage area has been properly stabilized.

6. All cut slopes shall be 1:1 or flatter. STORM INLET SEDIMENT TRAP (SIST.) ST III

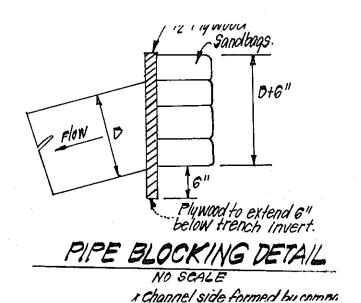
GENERAL NOTES

- Grading Permits shall be obtained prior to installation of sediment control. 2. All Sediment Control Measures will be installed and stabilized according to this plan prior to any other
- grading, clearing or disturbance of existing surface of site. 3. Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- 4. All Sediment Control Practices to conform to the "Standards and Specs. for Soil Erosion and Sediment Control in Developing Areas", and shall be adjusted to meet actual field conditions.
- 5. All structural sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits. 6. On Site inspection and maintenance of all sediment control measures including clean-out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- 7. If will be the developer's responsibility to provide additional sediment & Erosion Control Devices to protect stabilized areas during construction.
- 8. The contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- 9. Approval of this plan is conditional upon the approval of sediment Control Plan for the off site waste or borrow area prior to the Import of any borrow or export of waste to or from this site. 10. See Pages 51.01 - 51.08 of the Maryland Stals & Specs. for Soil Erosion and Sediment Control for Permanent
- Seeding and Pages 50.01-50.05 for Temporary Seeding.

 11. As per CAMAR 08.05.01.06 -- "Following initial soil disturbance or redisturbance, permanent or temp.
- Stabilization shall be completed within : (a) Seven calendar days as to the surface of all perimeter controls, dikes, swales, ditches, perimeter slopes, and all slopes greater than 3 horizontal to one vertical (3:1) and (b) fourteen days as to all other disturbed orgraded areas on the project site."
- 12. All Pipes to be blocked at the end of each day (See detail below).
- 13. The total amount of Straw Bale Dikes | Silt Fence shown = 1500 LF

14. SITE ANALYSIS: A Total Area: ____ 4.209 Acres B Area to be Roofed: 0.359 Acres C. Area to be Paved: 2.086 Acres D. Area to be seeded: 1.764 Acres

E Area Undisturbed: None Acres 15. All sediment traps must be fenced and warning signs posted around their perimeter in accordance With Vol. 1, Chapter 12, of the Ho. Co. Design Manual for Storm Drainage.



APPROVED PLANNING BOARD OF HOWARD COUNTY



CLARK • FINEFROCK & SACKETT ENGINEERS • PLANNERS • SURVEYORS 11315 LOCKWOOD DRIVE (301) 593-3400 SILVER SPRING, MARYLAND 20904 SCALE DESIGNED SEDIMENT É EROSION CONTROL PLAN WATERVIEW OFFICE CENTRE As Shown DRAWING DRAWN COLUMBIA 40F5 KIW ILLAGE OF OWEN BROWN JOB NO. CHECKED 84.033 VARD COUNTY, MARYLAND FILE NO. DATE FOR: Owen Brown Assoc. Limited Partnership 84.033 SE

DEVELOPER'S GUILDER'S CERTIFICATE with certify that all development and construction will be done

according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the constructionproject will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Ercelon before beginning the project. I also authorize periodic onsite inspection by the Howard Soil Conservation District or their

authorized agents, as are deemed necessary."

NO SCALE

W.A. KEHOE

one Knoll North Drive Columbia Md 81045 SDP-85-88

ENGINEER'S CERTIFICATE I hereby certify that this plan for Erosion and

Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conserva-

