SECTION

- land disturbance begins or before the inlet becomes
- The earth around the inlet shall be excavated completely to a depth at least 18 inches.
- 3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
- 4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- 1. Inlet protection shall be constructed either before upslope 5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
 - Backfill shall be placed around the inlet in compacted 6inch layers until the earth is even with notch elevation on ends and top elevation on sides.
 - 7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

THE PATENTED DANDY BAG IS DESIGNED FOR USE WITH FLAT GRATES (INCLUDING ROUND) AND MOUNTABLE CURBS TO DETAIN SEDIMENT-LADEN STORM WATER. THE SUSPENDED SOLIDS ARE ALLOWED TO SETTLE OUT OF THE SLOWED FLOW PRIOR TO ENTERING THE DANDY BAG.

INSTALLATION 1. STAND THE GRATE ON END

- 2. PLACE THE DANDY BAG OVER THE GRATE 3. ROLL THE GRATE OVER SO THAT THE OPEN END IS UP 4. PULL UP THE SLACK
- 5. TUCK THE FLAP IN 6. PRESS THE VELCRO STRIPS TOGETHER 7. BE SURE THAT THE END OF THE GRATE IS COMPLETELY COVERED BY THE FLAP OR THE DANDY BAG WILL NOT
- WORK PROPERLY 8. HOLDING THE HANDLES, CAREFULLY PLACE THE DANDY BAG WITH THE GRATE INSERTED INTO THE CATCH BASIN FRAME

MAINTENANCE

TO INSURE PROPER OPERATION REMOVE SILT, SEDIMENT, AND DEBRIS FROM THE SURFACE AND THE VICINITY OF THE UNIT WITH A SQUARE POINT SHOVEL OR STIFF BRISTLE BROOM AWAY FROM ENVIRONMENTALLY SENSITIVE AREAS AND WATERWAYS IN MANNER SATISFACTORY TO THE ENGINEER/INSPECTOR. REMOVE FINE MATERIAL FROM INSIDE DANDY BAG AS NEEDED. DISPOSE OF DANDY BAG NO LONGER IN USE AT AN APPROPRIATE RECYCLING OR SOLID WASTE FACILITY.

INLET INSPECTION

LATH & FLAGGING ON ALL SIDES

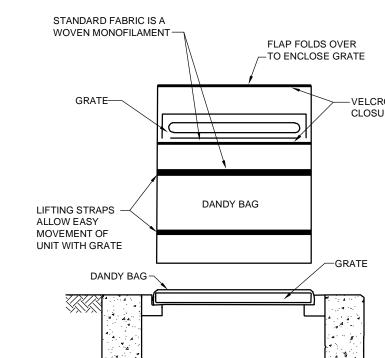
PLASTIC

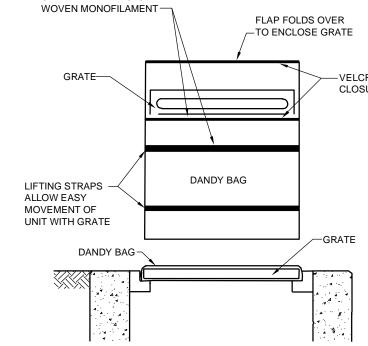
STAPLE DETAIL

CONCRETE WASHOUT PIT DETAIL

NOT TO SCALE

TO INSPECT INLET, REMOVE DANDY BAG WITH GRATE INSIDE, INSPECT CATCH BASIN AND REPLACE DANDY BAG BACK INTO GRATE FRAME.





PLASTIC LINING

SECTION A-A

INLET PROTECTION IN EXISTING PAVEMENT (IP)

rot-proof polymeric fibers and meet the following specifications: Figure 7.4.1 Geotextile Specification for Construction Entrance Minimum Tensile Strength Minimum Puncture Strength Minimum Tear Strength Minimum Burst Strength Minimum Elongation Equivalent Opening Size

Specifications **Temporary Seeding**

Table 7.8.1 Temporary Seeding Species Selection

Seeding Dates	Species	Lb./1000 ft2	Lb/Acre
March 1 to August 15	Oats Tall Fescue Annual Ryegrass	3 1 1	128 (4 Bushel) 40 40
	Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1.25 3.25 0.4 0.4	55 142 17 17
	Oats Tall Fescue Annual Ryegrass	3 1 1	128 (3 bushel) 40 40
August 16th to November	Rye Tall Fescue Annual Ryegrass	3 1 1	112 (2 bushel) 40 40
	Wheat Tall Fescue Annual Ryegrass	3 1 1	120 (2 bushel) 40 40
	Perennial Rye Tall Fescue Annual Ryegrass	1 1 1	40 40 40
	Annual Ryegrass Perennial Ryegrass Creeping Red Fescue Kentucky Bluegrass	1.25 3.25 0.4 0.4	40 40 40
November 1 to Feb. 29	Use mulch only or dormant seeding		

Construction Entrance

(Not To Scale)

70 ft. (or 30ft for Access to Individual House Lot)

Right of Way Diversion

as Needed

Specifications

Construction Entrance

1. Stone Size—ODOT # 2 (1.5-2.5 inch) stone shall be used or 6. Timing—The construction entrance shall be installed as

118" or Sufficient

of Divert Runoff

Road or Other Existing

Paved Surface

Culvert as

soon as is practicable before major grading activities.

7. Culvert -A pipe or culvert shall be constructed under the

out onto paved surfaces.

onto paved surfaces.

scraping or sweeping.

from muddy areas.

oadway or entrance.

entrance if needed to prevent surface water from flowing

B. Water Bar -A water bar shall be constructed as part of the

construction entrance if needed to prevent surface runoff

Maintenance -Top dressing of additional stone shall be

applied as conditions demand. Mud spilled, dropped.

washed or tracked onto public roads, or any surface

where runoff is not checked by sediment controls, shall be

removed immediately. Removal shall be accomplished by

10. Construction entrances shall not be relied upon to remove

11. Removal—the entrance shall remain in place until the

disturbed area is stabilized or replaced with a permanent

that enter and leave the construction-site shall be restricted

from flowing the length of the construction entrance and out

across the entrance or to prevent runoff from being directed

14ft Minimum

and Not Less

PLAN VIEW

PROFILE

recycled concrete equivalent.

residence lots).

2. Length—The Construction entrance shall be as long as

70 ft. (exception: apply 30 ft. minimum to single

required to stabilize high traffic areas but not less than

3. Thickness -The stone layer shall be at least 6 inches thick

4. Width -The entrance shall be at least 14 feet wide, but

5. Geotextile -A geotextile shall be laid over the entire area

prior to placing stone. It shall be composed of strong

for light duty entrances or at least 10 inches for heavy duty

not less than the full width at points where ingress or egress

80 psi.

50 lbs.

320 psi.

EOS < 0.6 mm.

1×10-3 cm/sec.

20%

Than Width of

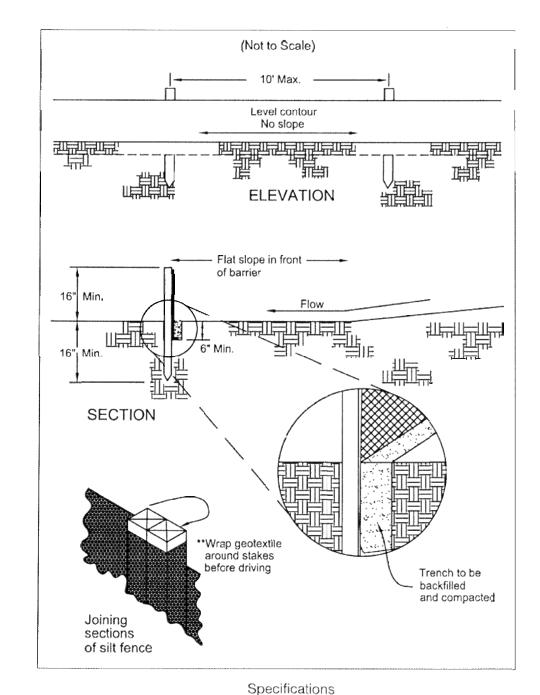
Ingress or Egress

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- Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
- 2. Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 21 days or greater. These idle areas shall be seeded within 7 days after grading.
- 3. The seedbed should be pulverized and loose to ensure the success of establishing vegetation. Temporary seeding should not be postponed if ideal seedbed preparation is not possible.
- When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or cultipacker. If hydroseeding the seeding shall be done immediately and without

Specifications

Silt Fence



Silt Fence

- 1. Silt fence shall be constructed before upslope land distur- 9. Seams between sections of silt fence shall be spliced bance begins.
- 2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are dissipated along its length.
- 3. Ends of the silt fences shall be brought upslope slightly so that water ponded by the silt fence will be prevented from flowing around the ends.
- 4. Silt fence shall be placed on the flattest area available. 5. Where possible, vegetation shall be preserved for 5 feet
- vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- 6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
- 7. The silt fence shall be placed in an excavated or sliced trench cut a minimum of 6 inches deep. The trench shall be made with a trencher, cable laying machine, slicing machine, or other suitable device that will ensure an
- adequately uniform trench depth. 8. The silt fence shall be placed with the stakes on the downslope side of the geotextile. A minimum of 8 inches of geotextile must be below the ground surface. Excess material shall lay on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both

sides of the fabric.

- together only at a support post with a minimum 6-in. overlap prior to driving into the ground, (see details).
- 10. Maintenance—Silt fence shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flows under the fabric or around the fence ends, or in any other way allows a concentrated flow discharge, one of the following shall be performed, as appropriate: 1) the layout of the silt fence shall be changed, 2) accumulated sediment shall be removed, or 3) other practices shall be installed.
- Sediment deposits shall be routinely removed when the deposit reaches approximately one-half of the height of
- Silt fences shall be inspected after each rainfall and at least daily during a prolonged rainfall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. If damaged, the silt fence shall be repaired immediately
- Criteria for silt fence materials
- Fence post The length shal be a minimum of 32 inches Wood posts will be 2-by-2-in. nominal dimensioned hardwood of sound quality. They shall be free of knots splits and other visible imperfections, that will weaken the posts. The maximum spacing between posts shall be 10 ft. Posts shall be driven a minimum 16 inches into the ground, where possible. If not possible, the posts shall be adequately secured to prevent overturning of the fence due to sediment/water loading.
- Silt fence fabric See chart below.

FABRIC PROPERTIES	VALUES	TEST METHOD
Minimum Tensile Strength	120 lbs. (535 N)	ASTM D 4632
Maximum Elongation at 60 lbs	50%	ASTM D 4632
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833
Minimum Tear Strength	40 lbs (180 N)	ASTM D 4533
Apparent Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permittivity	1X10-2 sec1	ASTM D 4491
JV Exposure Strength Retention	70%	ASTM G 4355

Specifications

Temporary Seeding

Mulching Temporary Seeding

1. Applications of temporary seeding shall include mulch, which shall be applied during or immediately after seeding. Seedings made during optimum seeding dates on favorable, very flat soil conditions may not need mulch to achieve adequate stabilization.

Materials:

- Straw—If straw is used, it shall be unrotted small-grain straw applied at a rate of 2 tons per acre or 90 lbs./ 1,000 sq. ft. (2-3 bales)
- Hydroseeders—If wood cellulose fiber is used, it shall be used at 2000 lbs./ ac. or 46 lb./ 1,000-sq.-ft.
- Other—Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chips applied at 6 ton/ ac.
- 3. Straw Mulch shall be anchored immediately to minimize
- Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely chopped but left to a length of approximately 6 inches.
- Mulch Netting—Netting shall be used according to the manufacturers recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
- Synthetic Binders—Synthetic binders such as Acrylic DLR (Agri-Tac), DCA-70, Petroset, Terra Track or equivalent may be used at rates recommended by the manufacturer.
- Wood-Cellulose Fiber—Wood-cellulose fiber binder shall be applied at a net dry wt. of 750 lb./ac. The wood-cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb. / 100 gal.

Specifications

Permanent Seeding

Site Preparation

- 1. Subsoiler, plow, or other implement shall be used to reduce soil compaction and allow maximum infiltration. (Maximizing infiltration will help control both runoff rate and water quality.) Subsoiling should be done when the soil moisture is low enough to allow the soil to crack or fracture. Subsoiling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing vegetation.
- The site shall be graded as needed to permit the use of conventional equipment for seedbed preparation and seeding.
- 3. Topsoil shall be applied where needed to establish vegetation.

Seedbed Preparation

- Lime—Agricultural ground limestone shall be applied to acid soil as recommended by a soil test. In lieu of a soil test, lime shall be applied at the rate of 100 pounds per 1,000-sq. ft. or 2 tons per acre.
- 2. Fertilizer—Fertilizer shall be applied as recommended by a soil test. In place of a soil test, fertilizer shall be applied at a rate of 25 pounds per 1,000-sq. ft. or 1000 pounds per acre of a 10-10-10 or 12-12-12 analyses.
- 3. The lime and fertilizer shall be worked into the soil with a disk harrow, spring-tooth harrow, or other suitable field implement to a depth of 3 inches. On sloping land, the soil shall be worked on the contour.

Seeding Dates and Soil Conditions

Seeding should be done March 1 to May 31 or August 1 to September 30. If seeding occurs outside of the abovespecified dates, additional mulch and irrigation may be required to ensure a minimum of 80% germination. Tillage for seedbed preparation should be done when the soil is dry enough to crumble and not form ribbons when compressed by hand. For winter seeding, see the following section on dormant seeding.

Dormant Seedings

wind or water.

- 1. Seedings should not be made from October 1 through November 20. During this period, the seeds are likely to germinate but probably will not be able to survive the winter.
- The following methods may be used for "Dormant Seeding"

3. Straw and Mulch Anchoring Methods Straw mulch shall be anchored immediately to minimize loss by

 Mechanical—A disk, crimper, or similar type tool shall be set straight to punch or anchor the mulch material into the soil. Straw mechanically anchored shall not be finely

chopped but, generally, be left longer than 6 inches.

- Mulch Netting—Netting shall be used according to the manufacturer's recommendations. Netting may be necessary to hold mulch in place in areas of concentrated runoff and on critical slopes.
- Asphalt Emulsion—Asphalt shall be applied as recommended by the manufacture or at the rate of 160 gallons per acre.

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- From October 1 through November 20, prepare the seedbed. add the required amounts of lime and fertilizer, then mulch and anchor. After November 20, and before March 15, broadcast the selected seed mixture. Increase the seeding rates by 50% for this type of seeding.
- From November 20 through March 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and anchor. Increase the
- seeding rates by 50% for this type of seeding. Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydro-seeder (slurry may include seed and fertilizer) on a firm, moist seedbed.
- Where feasible, except when a cultipacker type seeder is used, the seedbed should be firmed following seeding operations with a cultipacker, roller, or light drag. On sloping land, seeding operations should be on the contour where

- Mulch material shall be applied immediately after seeding. Dormant seeding shall be mulched. 100% of the ground surface shall be covered with an
- approved material
- Straw—If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons per acre or 90 pounds (two to three bales) per 1,000-sq. ft. The mulch shall be spread uniformly by hand or mechanically applied so the soil surface is covered. For uniform distribution of hand-spread mulch, divide area into approximately 1,000-sq.-ft. sections and spread two 45-lb. bales of straw in each section.
- Hydroseeders—If wood cellulose fiber is used, it shall be applied at 2,000 lb./ac. or 46 lb./1,000 sq. ft.
- Other—Other acceptable mulches include rolled erosion control mattings or blankets applied according to manufacturer's recommendations or wood chips applied at 6 tons per acre.

Synthetic Binders—Synthetic binders such as Acrylic DLR

 Wood Cellulose Fiber—Wood cellulose fiber shall be applied at a net dry weight of 750 pounds per acre. The wood cellulose fiber shall be mixed with water with the mixture containing a maximum of 50 pounds cellulose per 100 gal-

Permanent seeding shall include irrigation to establish vegetation during dry weather or on adverse site conditions, which require adequate moisture for seed germination and plant

Irrigation rates shall be monitored to prevent erosion and dam-

Table 7.10.2 Permanent Seeding

Seed Mix	Seeding Rate		Notes
	Lbs./acre	Lbs./1,000 Sq. Feet	Notes:
		General Use	
Creeping Red Fescue Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 20-40	1/2-1 1/4-1/2 1/2-1	For close mowing & for waterways with <2.0 ft/sec velocity
Tall Fescue	40-50	1-1 1/4	
Turf-type (dwarf) Fescue	90	2 1/4	
	S	teep Banks or Cut Slopes	
Tall Fescue	40-50	1-1 1/4	
Crown Vetch Tall Fescue	10-20 20-30	1/4-1/2 1/2-3/4	Do not seed later than August
Flat Pea Tall Fescue	20-25 20-30	1/2-3/4 1/2-3/4	Do not seed later than August
		Road Ditches and Swales	
Tall Fescue	40-50	1-11/4	
Turf-type (Dwarf) Fescue Kentucky Bluegrass	90 5	2 1/4 0.1 Lawns	
Kentucky Bluegrass	100-120	Lawiis 2	
Perennial Ryegrass		2	
Kentucky Bluegrass Creeping Red Fescue	100-120	2 1-1/2	For shaded areas

Note: Other approved seed species may be substituted

SWPP NOTES & DETAILS

(Agri-Tac), DCA-70, Petroset, Terra Tack or equivalent may be used at rates specified by the manufacturer.

lons of water.

age to seeded areas from excessive runoff.

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PLASTIC LINING — PLAN PLASTIC LINING -STAPLES -BINDING (2 PER BALE) PLASTIC - WOOD FRAME SECURELY FASTENED AROUND ENTIRE PERIMETER WITH **SECTION A-A** TRAW BALE TWO-STACKED -PLAN PLASTIC LINING 2 X 12 ROUGH WOOD FRAME NATIVE MATERIAL— - WOOD OR METAL (OPTIONAL) STAKES (TWO PER

PLAN

 Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for lime and fertilizer shall be used.

5. Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cultipacker seeder, or hydroseeder. is used, the seed and fertilizer will be mixed on-site and

oss by wind or water. Anchoring methods: