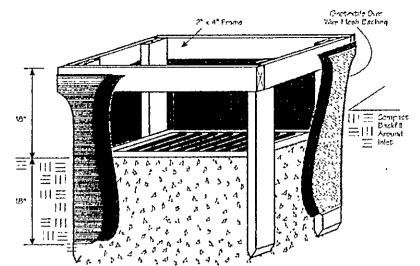
Construction Entrance

18° or Sufficient

50 ft (n= 30 ft for Access to Individual House Lot)

- Inlet protection shall be constructed either before upslope land disturbance begins or before the storm drain becomes operational
- 2 The wooden frame is to be constructed of 2-by-4 in construction-grade lumber. The end spacers shall be a minimum of 1 ft beyond both ends of the threat opening The anchors shall be nailed to 2-by-4-in stakes driven on the opposite side of the
- 3 The wire mesh shall be of sufficient strength to support fabric and stone It shall be a continuous piece with a minimum width of 30 in and 4 ft longer than the throat length of the inlet, 2 ft on each side

Inlet Protection in Swales, Ditch Lines or Yard Inlets



Specifications

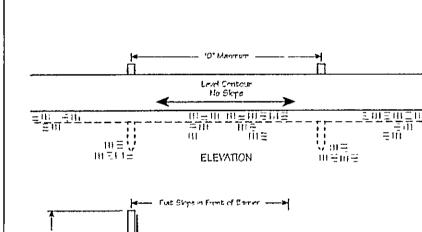
- Inlet protection shall be constructed either before upstope land disturbance begins or before the storm drain becomes operational
- 2 The earth around the inlet shall be excavated completely to a depth at least 18
- 3 The wooden frame shall be constructed of 2-by-4-in construction grade lumber. The 2-by-4-in posts shall be driven 1 ft into the ground at four corners of the inlet and the top portion of 2-by-4-in frame assembled using the overlap joint shown The top of the frame shall be at least 6 in below adjacent roads if bonded water would 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

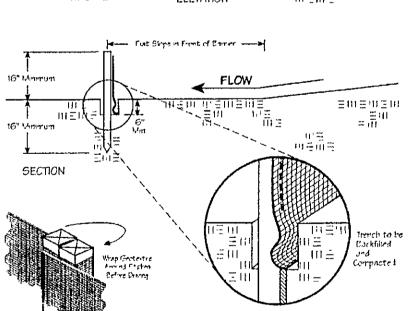
Sections of Silt Fence

- Gootextile shall have an equivalent opening size of 20-40 sieve and be resistant t sunlight it shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 in below the inlet notch elevation. The geotextile shall overlap across one side of thin inlet so the ends of the cloth are not fastened to the same post
- Backfill shall be placed around the inlet in compacted 8-in layers until the earth is even with notch elevation on ends and top
- A compacted earth dike or a check dam shall be constructed in the ditch line below the injet if the injet is not in a depression and if runoff bypessing the inlet will not flow to a sattling pand. The top of earth dikes shall be at least 8 in higher than the top of the frame

±ıñı

Specifications Silt Fence





Stong Size--Two-inch stone shall be used,

or recycled concrete equivalent

PLAN VIEW

10 ts Hermum and Not Lens Than Math of Inspense Frees

- 2 Length-The construction entrance shall be as long as required to stabilize high traffic areas but not less than 50 ft (except on single residence lot where a 30 ft minimum length applies)
- 3 Thickness--The stone layer shall be at least
- Width-The entrance shall be at least 10 ft wide, but not less than the full width at points where ingress or egress occurs
- Bedding-A geotextile shall be placed over the entire area prior to placing stone It shall have a Grab Tensile Strength of at least 200 lb and a Mullen Burst Strength of
- 6 Culvert--A pipe or culvert shall be constructed under the entrance if needed to prevent surface water flowing across the entrance from being directed out onto paved surfaces

7 Water Bar--A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces

Road or Other Existin Paird Surface

4 Geotextile cloth shall have an equivalent

5 The wire mesh and geotextile cloth shall be

opening size (EOS) of 20-40 sieve and be

resistent to sunlight it shall be at least the

formed to the concrete gutter and against

the face of the curb on both sides of the

inlet and securely fastened to the 2-by-4-in

6 Two inch stone shall be placed over the

inder or around the geotextile cloth

wire mesh and geotextile in such a manner

as to prevent water from entering the inlet

- 8 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, shell be removed immediately Removal shall be accomplished by screping
- 9 Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction-site shall be

Specifications Permanent Seeding

SITE PREPARATION

- A 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 Subsciling shall not be done on slip-prone areas where soil preparation should be limited to what is necessary for establishing
- 2 The site shall be graded as needed to permit the use of conventional equipment
- for seedbed preparation and seeding 3 Resoil shall be applied where needed to

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 lb /1,000 sq. ft
- Fertilizer-Fertilizer shall be applied as recommended by a soil test. In lieu of a soil test, fertilizer shall be applied at a rate of 12 lb/1,000 sq ft or 500 lb/ac of 10-10-10 or 12-12-12 analysis
- The time and fertilizer shall be worked into the soil with a disk horrow, spring-tooth harrow, or other suitable field implement to a depth of 3 in. 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 Aug 1 to September 30. These seeding dates are ideal but, with the use of additional mulch and irrigation, seedings may be made any time throughout the growing season - Tillage/saedbed 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 SEEDINGS

- Seedings shall not be planted from October 1 through November 20. During this period the seeds are likely to perminate but probably will not be able to survive the
- The following methods may be used for
- 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
- From November 20 through Merch 15, when soil conditions permit, prepare the seedbed, lime and fertilize, apply the selected seed mixture, mulch and enchor. 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 feasible

MULCHING

Mulch material shall be applied immediately after seeding. Seedings made during optimum seeding dates and with favorable soil conditions and on very flat areas may not need mulch to achieve adequate stabilization. Dormant seading shall be

2 Materials

- Straw-If straw is used it shall be unrotted small-grain straw applied at the rate of 2 tons/sc or 90 lb /1,000 sq ft (two to three boles). The mulch shall be spread uniformly by hand or mechanically so the soil surface is covered For uniform distribution of hand spread mulch, divide area into approximately 1,000-sq -ft sections and sproad two 45 lb bales of straw in
- Hydrosecders- If wood cellulose fiber is used, it shall be used at 2,000 lb /ac or 46 lb /1,000 sq ft
- Other--Other acceptable mulches include mulch mattings applied according to manufacturer's recommendations or wood chosapplied at 6 tens/ac
- Straw Mulch Anchoring Methods

Straw mulch shall be enchored immediately to minimize less by wind or water

- 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 feft longer than B in
- Mulch Nettings—Nettings shall be used according to the manufacturer's dations Netting may be necessary to hold mulch in place in areas of concentrated runoff and ori critical slopes
- Asphalt Emulsion--Asphalt shall be applied as recommended by the manufacturer or at the rate of 160
- Synthetic Binders--Synthetic binders such as Acrylic DLR (Agri-Tite), DCA-70, Petroset, Terra Tack or equal may be used at rates recommended by the
- Wood Cellulose Fiber-Wood cellulose fiber binder shall be applied at a net dry weight of 750 lb/sc. The wood cellulose fiber shall be mixed with water and the mixture shall contain a maximum of 50 lb/100 gal of wood cellutose fiber

IRRIGATION

- Permanent seeding shall include irrigation to establish vegetation during dry or hot weather or on adverse site conditions as needed for adequate moisture for seed germination and plant growth
- 2 Excessive irrigation rates shall be avoided and irrigation monitored to prevent crosion and damage from runoff

	run	manent Seeding	
Seed Mix	Sceding Rate		
	lb /ac	lb /1,000It ²	Notes
		General Use	
Creeping Red Fescus Domestic Ryegrass Kentucky Bluegrass	20-40 10-20 10-20	½-1 ¼-½ ¼-½	
Tall Fescue	40	†	
Dwarf Fescue	40	1	
	Steep E	Banks or Cut Slope	8
Tall Fascue	40	1	
Crown Vetch Tall Fescus	10 20)% %	Do not seed later than August
Fint Pea Tall Fescue	20 20	У2 У5	Do not seed later than August
	Road D	Ditches and Swales	3
Tall Fescue	40	1	
Dwerf Fescue Kentucky Bluegress	90 5	2%	
		Lawns	
Kentucky Bluegrass Perennial Ryegress	60 60	1 ½ 1 ½	
Kentucky Bluegrass Creeping Red Fescue	60	1 35 1 35	For shaded ereas

EROSION CONTROL DETAILS

Foresight Engineering Group

440 286-1010 440 286-1034 fax 320 Center Street, Unit F Chardon, Ohio 44024

Engineers & Surveyors

SCALE: NONE

Page: 2/2

Specifications Small Lot Building Sites

- 1 Preexisting vegetation shall be retained on idle portions of the building for for as long as construction operations allow Cleaning shall be done so only active working areas
- 2 Temporary seed (annual rye, oats, etc.) and/or mulch shall be applied to areas, such as stockpiles, that are bare and not actively being worked. This shall apply to areas that will not be reworked for 14 days or more
- 3 Stockpiles excavated from basements shall be situated away from streets, swales, or other waterways and shall be seeded and/or mulched
- Silt fence shall control sheet flow runoff from the building let It shall not be constructed in channels or areas of concentrated flow. Other sediment controls such as inlet protection and sediment traps shall also be used as needed to control sediment runoff
- Construction valuels access shall be limited to one route, to the greatest extent practical. The access shall be gravel or crushed rock applied to the driveway area
- Mud tracked onto the street or sediment settled around curb inlet protection shall be removed daily or as needed to prevent it from accumulation. It shall be removed by shovelling and scraping and shall NOT be washed off paved surfaces or into storm

Temporary Seeding

Onts Tall Fescue Annual Ryegrass Perennial Ryegrass Tall Fescue Annual Ryegrass	3 1 1 1	4 bushel 40 lb 40 lb 40 lb 40 lb 40 lb
Tall Fescue Annual Ryegrass	1 1 1	40 lb
Rya		CHARLE ME . CT . CC . A TOTAL . C.
Tall Fescue Annual Ryegrass	3 1 1	2 bushel 40 lb 40 lb
Whost Tall Fescue Annual Ryegross	, 3 1 1	2 bushel 40 lb 40 lb
Perennial Ryegrass Tall Fescue Annual Ryegrass	1 1 1	40 lb 40 lb 40 lb
1	Whoat Tall Fescue Annual Ryegrass Perennal Ryegrass Tall Fescue Annual Ryegrass	Whoat . 3 Fall Fescue . 1 Annual Ryegrass . 1 Perennal Ryegrass . 1 Fall Fescue . 1

1 Structural crosion- and sediment-control practices such as diversions and sediment trops shall be installed and stabilized with temporary seeding prior to grading the rest

Note. Other approved and species may be substituted

- 2 Temporary seed shall be applied between construction operations on soil that will not be graded or reworked for 45 days or more These idle areas should be accord as soon as possible after grading or shall be seeded within 7 days. Several applications of temperary seeding are necessary on typical construction projects
- 3 The seedbed should be pulverized and loose to ensure the success of establishing venetation. However, temporary seeding shall not be postponed if ideal seedback preparation is not possible
- 4 Soil Amendments--Applications of adequate stands of vegetation which may require the use of soil amendments. Soil tests should be taken on the site to predict the need for lime and fertilizer
- '5 Seeding Method-Seed shall be applied uniformly with a cyclone seeder, drill, cultipacker seeder, or hydrogreder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly temped into place using a roller or cultipacker If hydroseeding is used, the seed and fortilizer will be mixed on site and the seeding shall be done immediately and without interruption

MULCHING TEMPORARY SEEDING

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

2 Materials

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- sq ft (two to three bales). The mulch shall be spread uniformly by hand or mechanically so the soil surface is cavered 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
- Hydroseeders-If wood cellulose fiber is used, it shall be used at 2,000 lb /ac or 46 lb /1,000 sq. ft

each section

- Other--Other acceptable mulches include mulch mattings applied according to manufacturer's ecommendations or wood chips applied at 6 tons/ac
- Straw mulch shall be anchored immediately to minimize loss by wind or water Anchoring Methods
- 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 in
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