

SedsoX

Filter Sock for Sediment Control

Manufactured & Distributed throughout Michigan by:



www.interfaceh2o.com

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Zeeland, MI 49464

(616)931-5584



SedsoX



Pre-Filled SedsoX Pallets

SedsoX are highly effective at removing sediment from storm-water runoff. These filter socks are a great replacement for silt fence, straw wattle and other sediment controls for all types of construction projects. With several different mesh types to choose from, SedsoX provides your site with the protection it needs. Each pallet is shipped with hardwood stakes.



Why Use Pre-Filled SedsoX Pallets?

Repairs – With pallets on your site and an inspector on the way, you install when you want, where you want, with your people - no excuses.

Pipelines – On sewer, water, or gas-line work, erosion controls need to go in just before digging so with pallets in your yard, things can keep moving.

Durability – SedsoX Pallet Netting has to survive coiling and handling so it can take some abuse - it's tougher than field install netting.

Large Jobs – On many large jobs, pallets goes faster, with less people and less equipment. A 2-bobcat/4-man crew can install a mile of 12-inch a day.

Small Jobs – Pallets work great on small jobs where paying a mobilization fee to an installer just doesn't make sense.

616-931-5584



Michigan's SedsoX Manufacturer

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SedsoX Palletized Filter Sock

Diameter	8-inch		12-inch		18-inch		24-inch	
	Linear Feet	180-ft	180-ft	110-ft	100-ft	55-ft	50-ft	30-ft
Configuration	1 piece	18 10-ft pieces	1 piece	10 10-ft pieces	1 piece	5 10-ft pieces	1 piece	
Part Number	SS8-18-1	SS8-18-10	SS12-110-1	SS12-100-10	SS18-55-1	SS18-50-10	SS24-30-1	
Stakes (per pallet)	18 stakes	none	12 stakes	none	6 stakes	none	4 stakes	
Hardwood Stake Size	1 7/8"x1 7/8"x22"	none	1 7/8"x1 7/8"x22"	none	1 7/8"x1 7/8"x28"	none	1 7/8"x1 7/8"x40"	
Shipping Weight ($\pm 10\%$)**	1600 lbs	1600 lbs	1700 lbs	1650 lbs	1750 lbs	1650 lbs	1750 lbs	
Dry weight (per foot $\pm 10\%$)**	8 lbs	8 lbs	16 lbs	16 lbs	35 lbs	35 lbs	60 lbs	
Fabric Color	Black with thin blue line							
Shipping Dimensions	40L x 48W x 66H							
Fabric Material	Heavy Duty Multi-Filament Polypropylene (HDMFPP)							
Fabric Name	SedsoX Pallet (1/8 inch opening, diamond pattern, Filter Sock Fabric)							
Degradation Type	Photodegradable - NOTE: Upon stabilization, it is recommended to cut open FS and removing fabric from jobsite							
Tensile Strength	222 psi							
Filler Material Composition	Natural blend of composted hardwood materials (shredded/chipped oak, poplar, cherry, etc.)							
Field Functional Longevity	2 years							
Packaging	Plastic stretch-wrapped with top sheet cover							
Storage Life	Under roof - 6 months / Outdoors - 3 months							



SedsoX - Netting Specifications

Material Type	High Density Polyethylene (5-mil HDPE)	Multi-Filament Polypropylene (MFPP)	Heavy Duty Multi-Filament Polypropylene (HDMFPP)	Heavy Duty Multi-Filament Polyester (HDMFPE)
Product Name	Installer Netting			
Color	Black			
Applications	Field Installation with Filling Machine		Palletized Manufacturing Rugged Field Installation	High Visibility / Extreme Application Extended Duration, OSHA Safety Requirement, Permanent Vegetation, or When Complete Removal is Required
Packaging	"Field Ready" SedsoX Vac Pack <input type="checkbox"/>			
Material Characteristics	Photodegradable	Photodegradable	Photodegradable	Negligible Degradation
Sock Diameters	8", 12", 18"	24", 32"	8", 12", 18", 24"	8", 12", 18", 24"
Mesh Opening	3/8"	3/8"	1/8"	1/8"
Strength (ASTM 5035)	46 psi	44 psi (est.)	222 psi	497 lbs. (ASTM D 6797-07 Modified CRE Ball Burst Test)
UV Stability (ASTM G-155)	42% at 1000 hours	100% at 1000 hours	100% at 1000 hours	100% at 1000 hours
Minimum Functional Longevity	9 months	1 year	2 years	3-5 years
Visual Profile				

FILTER SOCK - PLAN SHEET DETAILS

GENERAL

- Filter Sock (FS) can be delivered to the jobsite "pre-filled" and coiled onto 40x48 wood pallets. FS can also be filled on-site. It can be installed with a skid steer, backhoe, or other machinery. The contractor should determine which method is best, based on site conditions.
- Proper jobsite diameter sizing for FS should be done by a Certified Professional Engineer according to the Maximum Slope Length Chart and/or applicable Local or State E&S Manual. FS diameters are 8-inch, 12-inch, 18-inch, 24-inch, and 32-inch. Commonly used **pyramids** include: three 12s, two 18s with one 12, and three 18s (equates to single 32-inch diameter). When pyramiding with different diameters, always place the smaller FS on top.
- **FS Effective Heights** in the field are as follows: 8-inch (effective height 6.5 inches), 12-inch (9.5 inches), 18-inch (14.5 inches), 24-inch (19.5 inches), and 32-inch (25 inches). When determining settled Sediment Storage Capacity, the effective height should be used – not the FS diameter.
- **Filler Material** (HQ or EV) should be specified by a Certified Professional Engineer. Contractor – select the appropriate Filler Material when ordering. HQ Filler Material is a 100% all natural blend of **well-aged shredded, chipped, and ground hardwood** (PA DEP 2012 E&S Manual Specs for High Quality watershed ABACT Applications). EV Filler Material is 50% HQ Filler Material plus 50% Certified Compost (PA DEP 2012 E&S Manual Specs for Exception Value watershed ABACT Applications). For sediment removal or installation in a **High Quality watershed**, choose HQ Filler Material. For additional pollutant removal (heavy metals, nitrates, phosphates, etc.), diversion berms, or installation in an **Exception Value watershed**, choose EV Filler Material. EV Filler Material pallets are typically 15% heavier than HQ FS Filler Material pallets. If not specified at time of order, **default Filler Material is HQ**.
- **Contractor** – Allow two extra days lead-time when ordering EV Filler Material. Certificates for Compost used in EV Filler Material are available upon request.
- Under normal conditions, **stake FS at 10-ft intervals** and at FS Joints (continuous palletized FS includes stakes in kit - under coiled FS). For 8-inch and 12-inch diameter, use a 28-inch stake $\geq 1\frac{1}{4}$ -inch. For 18-inch and 24-inch, use a 42-inch stake $\geq 1\frac{1}{2}$ -inch. For 32-in FS use a 48-inch stake $\geq 1\frac{1}{2}$ -inch. When staking pyramids, for three 12s, use 42-inch stake; for two 18s plus one 12, and three 18s, use 48-inch stake.

INSTALLATION

- FS should be laid on a flat level area, in sections running perpendicular to the runoff flow direction from the Area of Disturbance. Loose material (soil, mulch, sand, or fill) may **optionally** be placed along the up slope side, filling the seam between the soil surface and the sock, improving sediment retention.
- Hardwood stakes shall be installed through the middle of *continuous* FS on 10-ft intervals. FS may also be staked on the down slope side with stakes tilted downward wedging the FS in place. Staking depth for sand clay, and silt loam soils shall be 12-inches. In the event staking is not possible (when FS is used on concrete or paved hard surface) heavy concrete blocks shall be used behind FS to help stabilize during rainfall/runoff events. Where two sections meet, j-hook higher elevation end, or side overlap ends 1-2-ft and tightly side-butt. Stake through each end and add loose material as needed.
- Palletized pre-cut FS can be used in areas where machine access is difficult. FS needs to be occasionally moved, or FS needs to run diagonal to grade. FS sectional installation allows periodic "j-hooks" at section ends. This prevents parallel unchecked water flow that can undermine the FS.
- **FS Joint:** Where two FS sections meet on **level** grade, overlap the adjoining ends, tightly butt together, and stake through each end (see detail). Where two sections meet on **un-level** grade, j-hook higher elevation end, stake, and begin new section just below. Use loose mulch to fill any voids in joint.

MAINTENANCE

- FS should be inspected after each runoff event. Sediment to be removed once it has accumulated to one-half the original height of the FS. Repair with handwork if a given section of FS shows signs of undercutting. Reinforce with handwork if a given section of FS shows signs of pushing.
- A given section of FS shall be replaced whenever it has deteriorated to such an extent that the effectiveness is reduced or diminished. Deterioration could occur because of natural mesh fabric breakdown over time or abusive field activities such as dragging/moving on the jobsite or driving over FS.

- Some ripping and tearing of the FS fabric is acceptable as long as the overall structural integrity of the FS is not compromised. The fabric must continue to hold the Filler Material securely in place in an oval form.
- A given section of FS shall be replaced whenever sediment has built up and been removed three times. This section of FS is likely full of fine powdery sediment - this is normal.

REMOVAL

- FS shall remain in place until disturbed areas have been stabilized. All sediment accumulation at FS shall be removed and properly disposed of before de-installing FS. When de-installing, cut FS open and spread the Filler Material around the site. The netting shall be removed from jobsite.

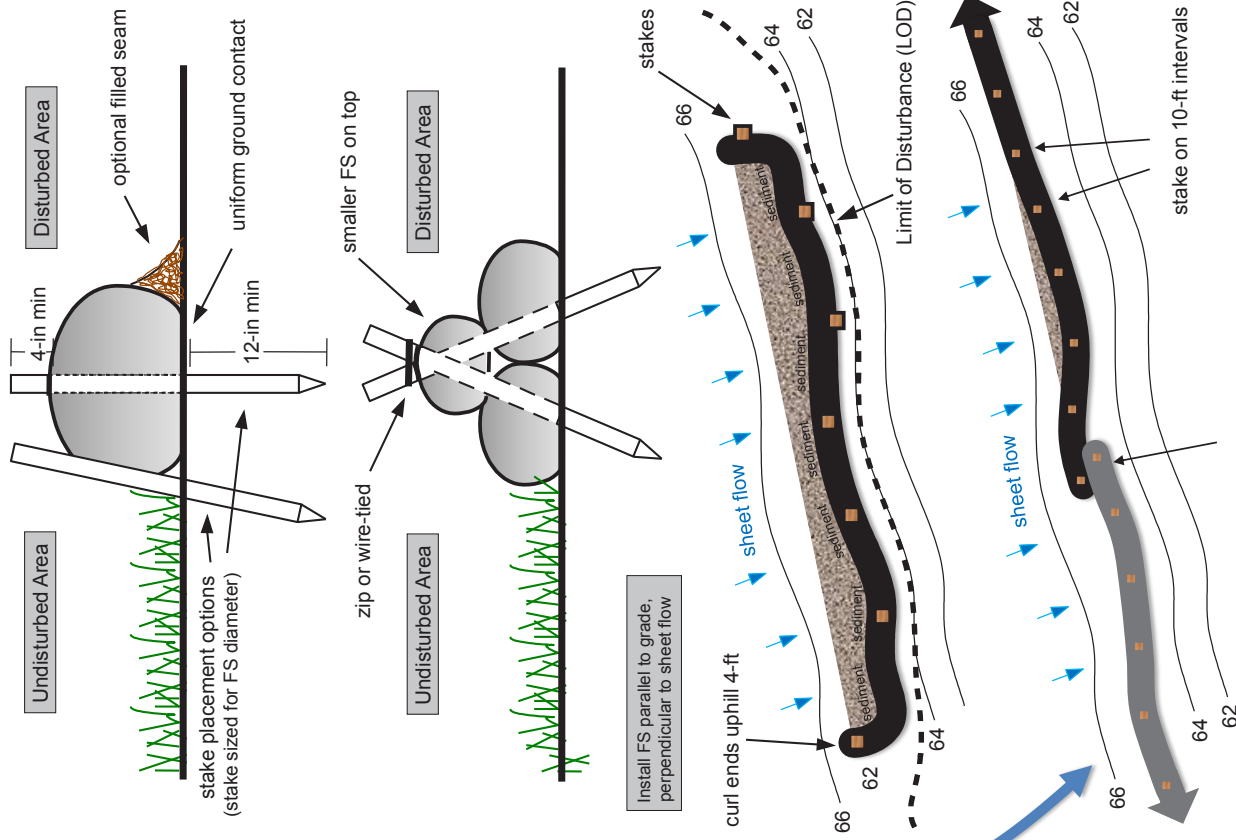
SedsoX

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

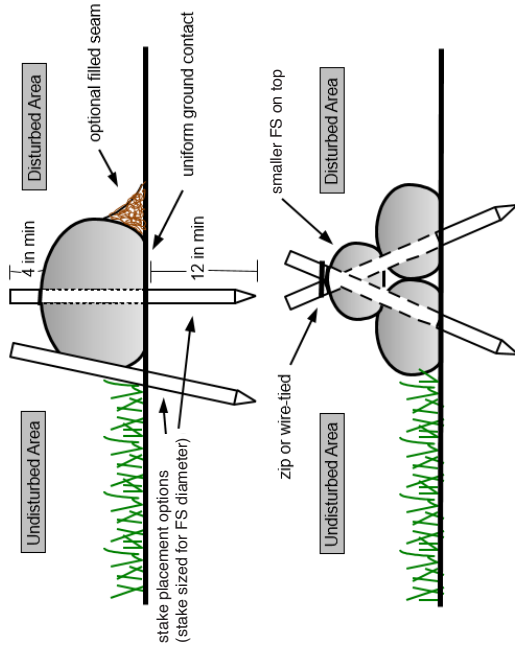
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FILTER SOCK - CROSS SECTION



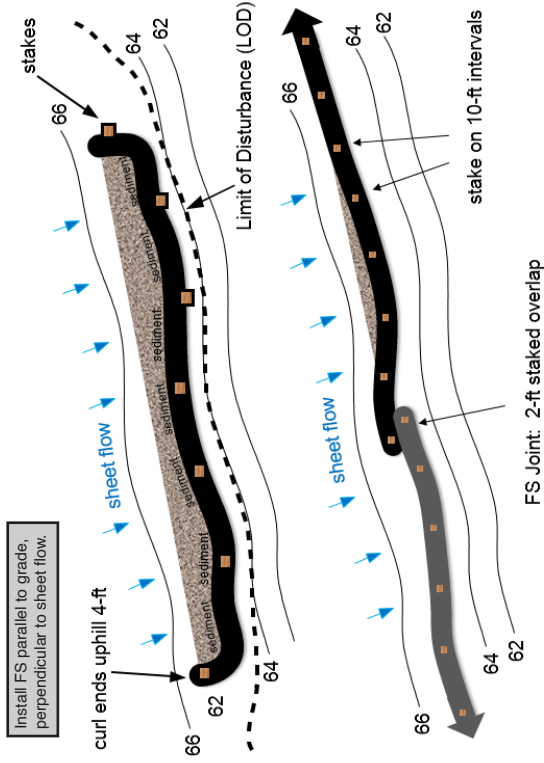
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FILTER SOCK - FIELD LAYOUT



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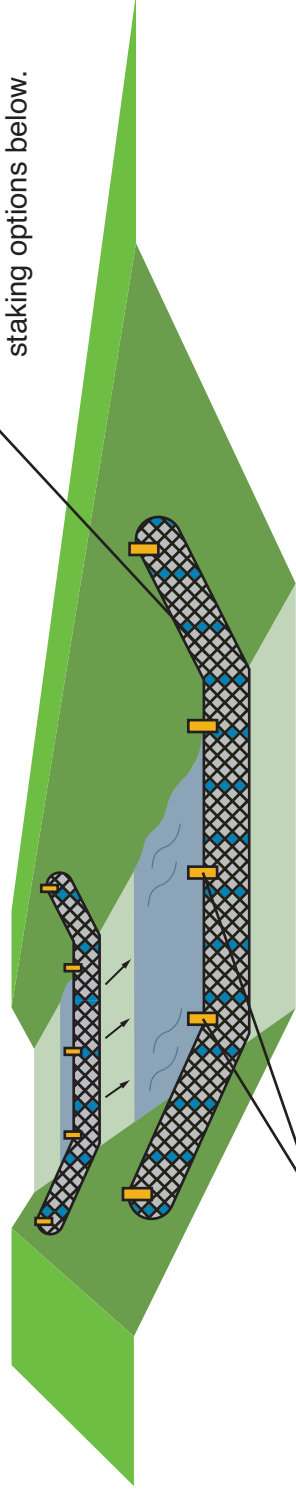
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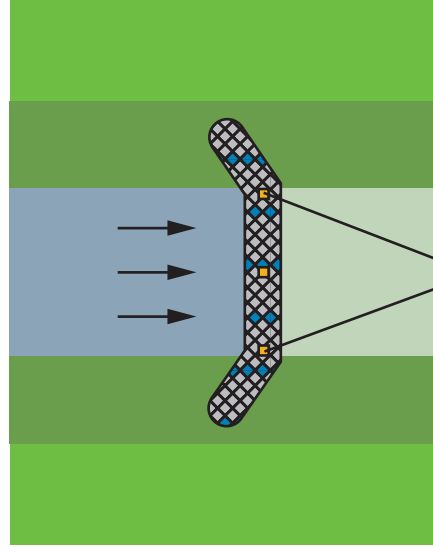
Ditch Check

SedsoX - Filter Sock (FS) Ditch Checks, also called Check Dams, can be placed in a swale, grassed waterway or diversion. They reduce the velocity of concentrated flows, thereby reducing erosion within the swale or waterway. The primary use of FS Ditch Checks is to reduce flow velocity and trap sediment, especially during vegetative establishment. When sufficient vegetation is established, the FS Ditch Check should be removed from the waterway. Leave no stakes, fabric, or filler material behind.

Minimum 12" diameter FS is recommended. For additional filtration, use a larger sock or see staking options below.



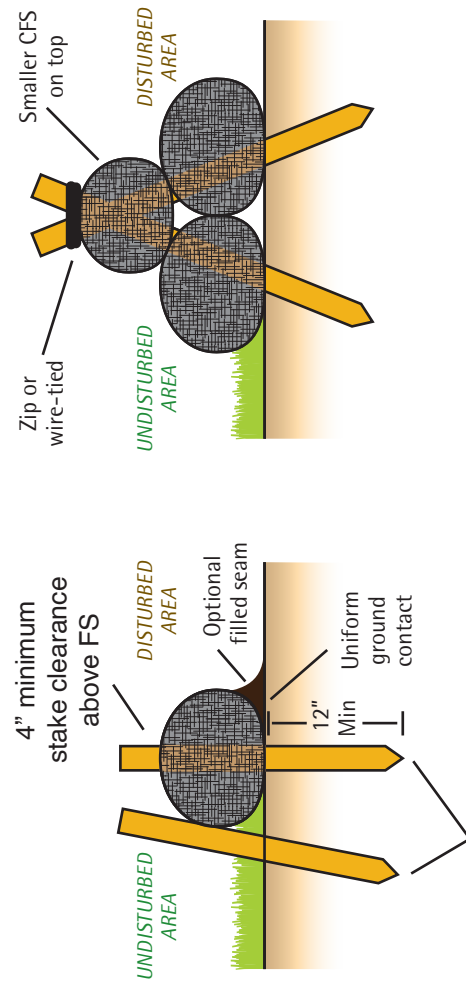
Stake on 2' intervals



Stake should be placed at toe of each side slope

* These are **SedsoX** recommended specifications. Consult your state or local regulations for further information

Optionally, sock may be staked on low side, pinning it in place, or pyramided:

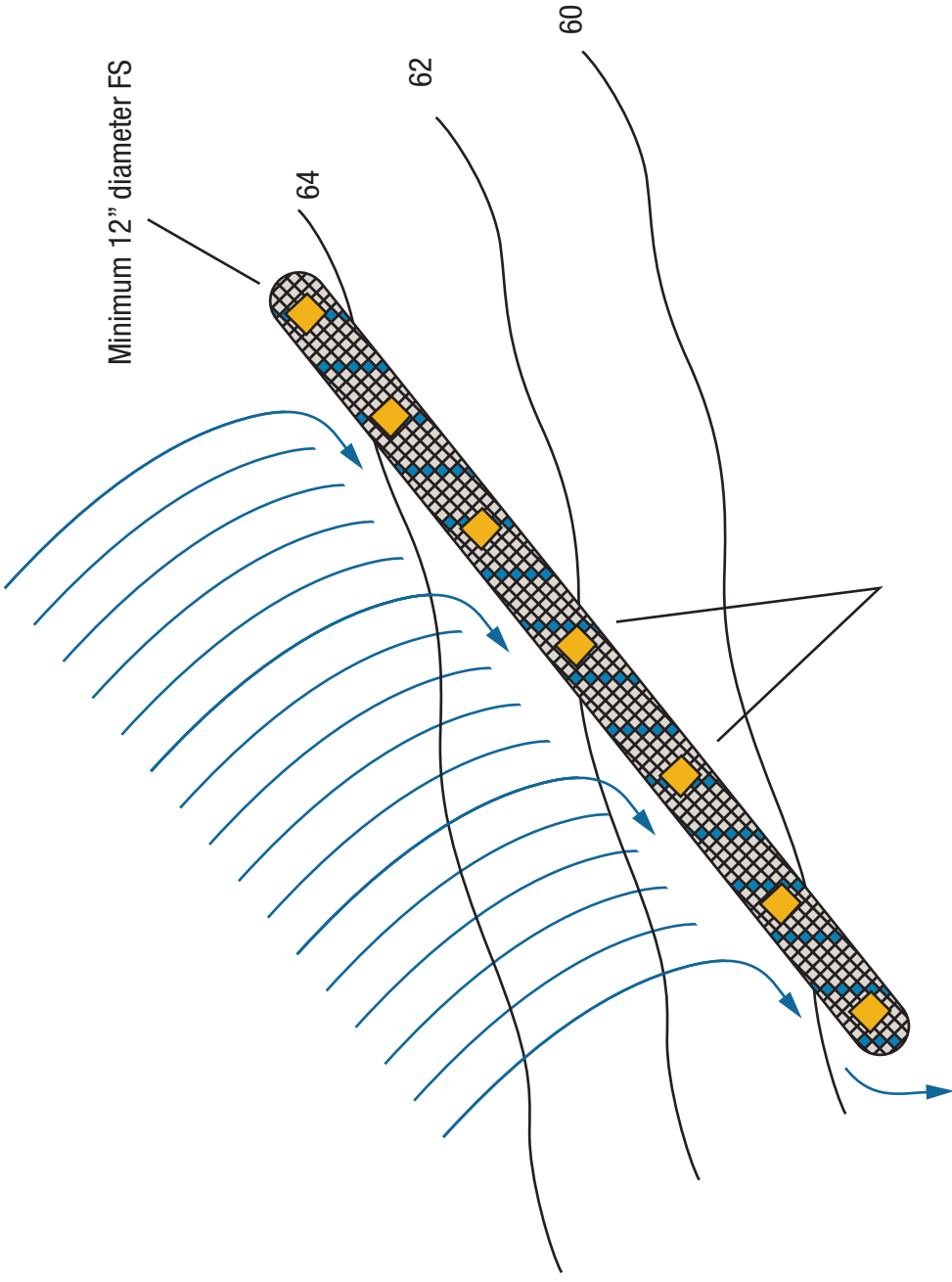


Stake placement options (Stake sized for FS diameter)

Diversion Berm

V1.0

Use SedsoX - Filter Sock (FS) to divert water flow away from or around disturbed areas and in to a catch basin, sediment trap, sediment basin or vegetative area. FS filler material should be weighted with sand or aggregate and compost should be dense (approximately 50% passing through a 3/8" sieve).



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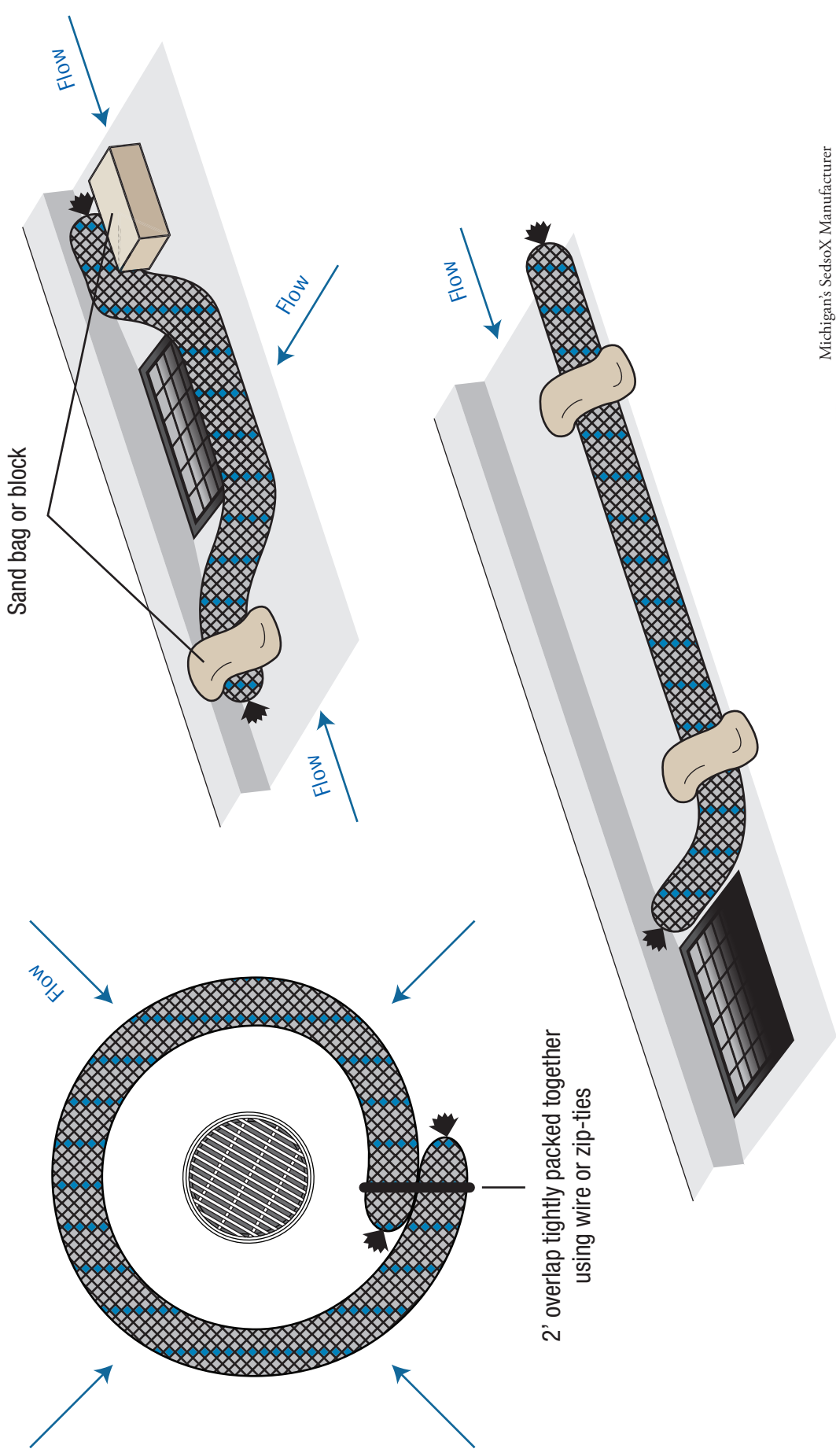
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Inlet Protection

V1.0

Use 8" - 18" diameter SedsoX - Filter Sock (FS) on curbside for inlet protection. High Visibility Green may be used in traffic areas for increased safety. Blocks, sand bags or stakes may be used to secure FS in place.



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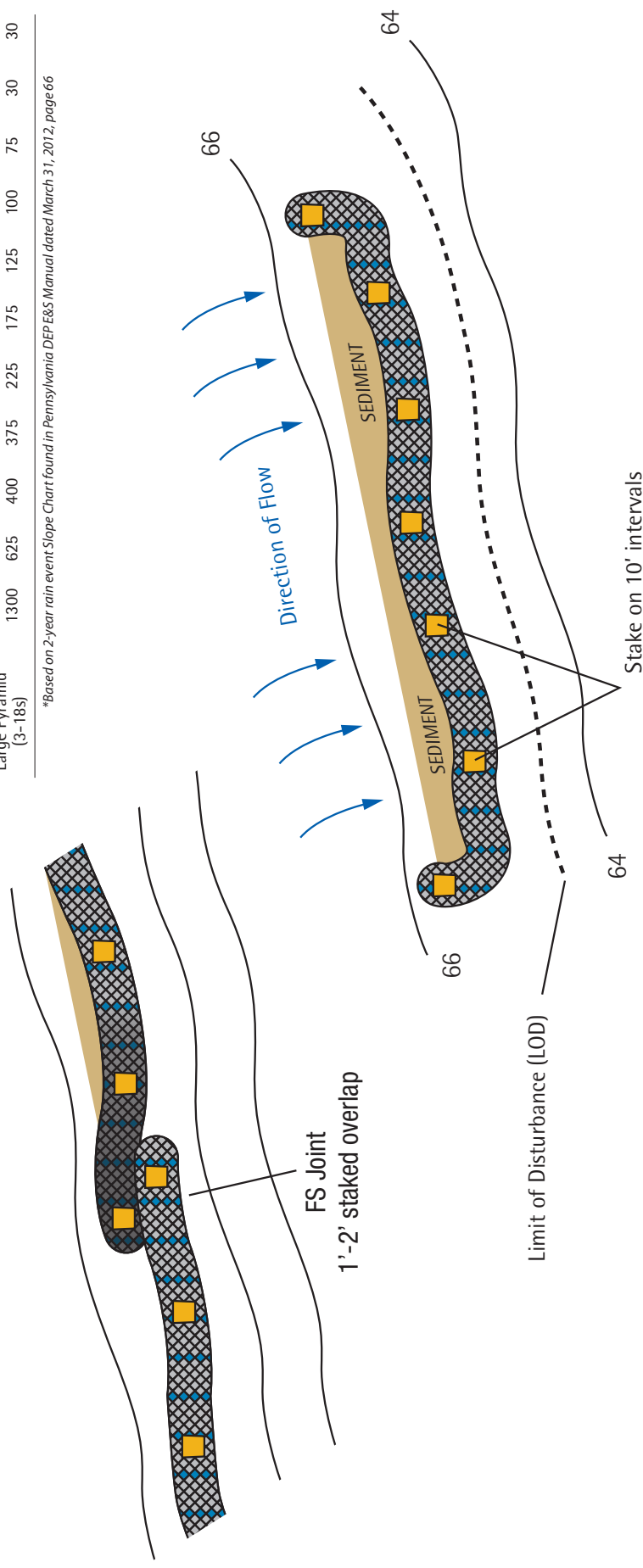
Perimeter Control

V1.0

Place SedsoX - Filter Sock (FS) on a flat, level grade running perpendicular to the sheet flow direction from the Area of Disturbance. Where two FS sections meet, tightly overlap the adjoining ends, and stake through each end section. FS size should be determined by E&S Planner according to local or state slope chart.

FS Diameter	Recommended Maximum Slope Length Above Filter Sock (in feet)										
	2%	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%
8 in	400	200	100	25	20	15	10	5	5	5	5
12 in	500	225	175	100	35	25	20	15	15	10	10
18 in	700	375	225	175	100	75	50	25	25	15	15
Small Pyramid (3-12s)	700	375	225	175	100	75	50	25	25	15	15
24 in	1000	500	300	225	200	175	100	75	50	25	25
Medium Pyramid (2-18s, 1-12)	1000	500	300	225	200	175	100	75	50	25	25
32 in	1300	625	400	375	225	175	125	100	75	30	30
Large Pyramid (3-18s)	1300	625	400	375	225	175	125	100	75	30	30

*Based on 2-year rain event Slope Chart found in Pennsylvania DEP E&S Manual dated March 31, 2012, page 66



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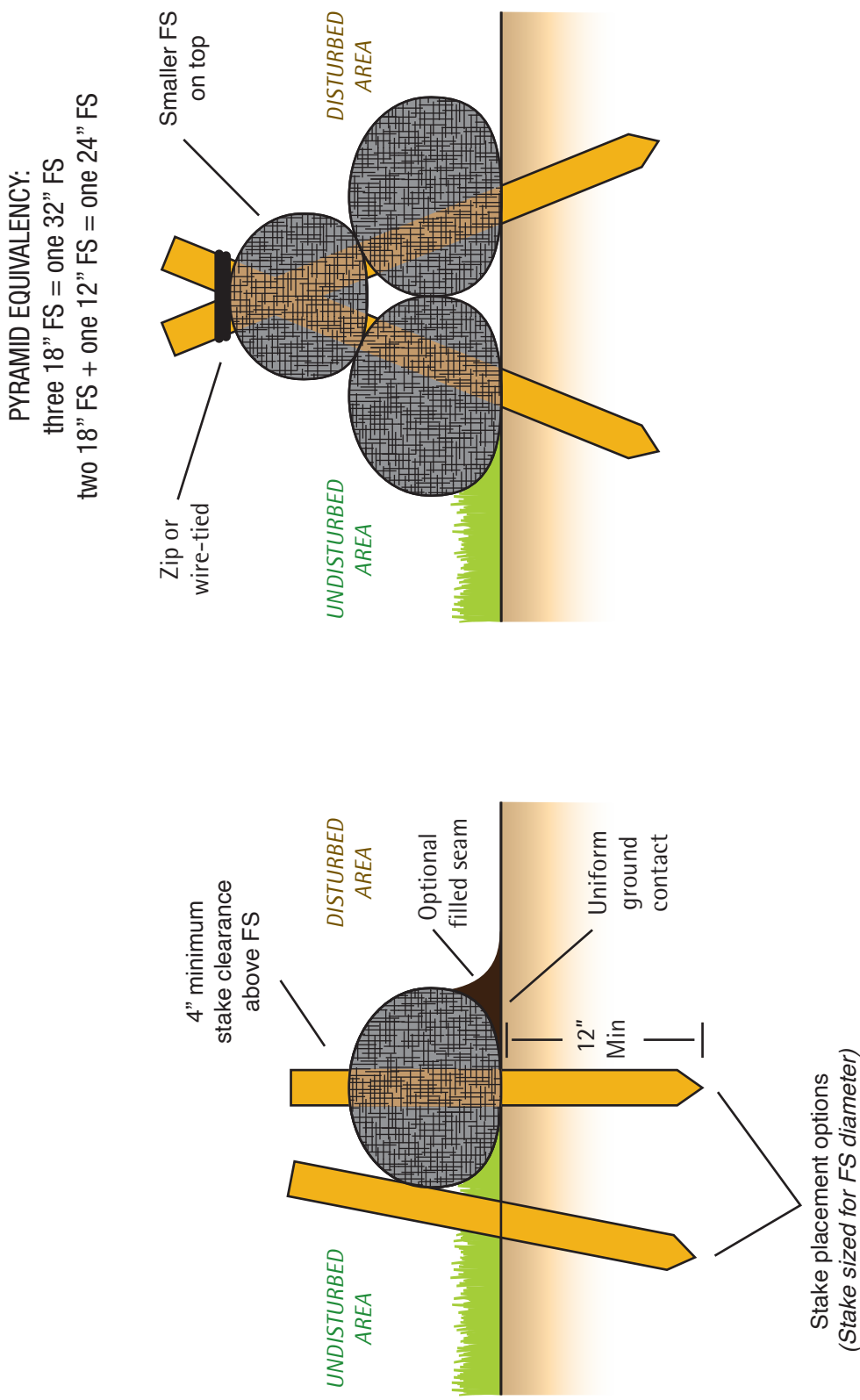
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Staking and Stacking – Single and Pyramid

V1.0

Under normal conditions, stake SedsoX Filter Sock (FS) at 10' intervals and at FS Joints. Use hardwood stakes only with a minimum size of 1 5/8" x 1 5/8". Minimum length of stake should equal FS diameter plus 16".



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