

**Material and Performance Specification
S75 Erosion Control Blanket**

Description	Index Property	Test Method	Typical
The short-term single net erosion control blanket shall be a machine-produced mat of 100% agricultural straw with a functional longevity of up to 12 months. (NOTE: functional longevity may vary depending upon climatic conditions, soil, geographical location, and elevation). The blanket shall be of consistent thickness with the straw evenly distributed over the entire area of the mat. The blanket shall be covered on the top side with a lightweight, photodegradable polypropylene netting having an approximate 0.50 x 0.50 (1.27 x 1.27 cm) mesh. The blanket shall be sewn together on 1.50 inch (3.81 cm) centers with degradable thread. The blanket shall be manufactured with a colored thread stitched along both outer edges (approximately 2-5 inches (5-12.5 cm) from the edge) as an overlap guide for adjacent mats.	Thickness	ASTM D6525	0.37 in (9.4 mm)
	Resiliency	ECTC Guidelines	78.8%
	Water Absorbency	ASTM D1117	426%
	Mass/Unit Area	ASTM 6475	11.97 oz/yd ² (407 g/m ²)
	Swirl	ECTC Guidelines	15%
	Smolder Resistance	ECTC Guidelines	Yes
	Stiffness	ASTM D1388	6.31 oz-in
	Light Penetration	ECTC Guidelines	7.3%
	Tensile Strength - MD	ASTM D6818	130.8 lbs/ft (1.94 kN/m)
	Elongation - MD	ASTM D6818	24.4%
Tensile Strength - TD	ASTM D6818	85.2 lbs/ft (1.26 kN/m)	
Elongation - TD	ASTM D6818	26.8%	

Material Content		Maximum Permissible Shear Stress	
Matrix	100% Straw Fiber	Unvegetated Shear Stress	1.55 lbs/ft ² (74 Pa)
Netting	Top side only, lightweight photodegradable	Unvegetated Velocity	5.00 ft/s (1.52 m/s)
Thread	degradable		

Slope Design Data: C Factors	
Slope Length (L)	≤ 3:1 3:1 - 2:1 ≥ 2:1
≤ 20 ft (6 m)	0.029 NA NA
20-50 ft	0.11 NA NA
≥ 50 ft (15.2 m)	0.19 NA NA

Roughness Coefficients (Unveg)	
Flow Depth	Manning's n
≤ 0.50 ft (0.15 m)	0.055
0.50 - 2.0 ft	0.055 - 0.021
≥ 2.0 ft (0.60 m)	0.021

Bench Scale Testing (NTEPP)	
ECTC 2 Rainfall	50 mm (2 in)/hr-30 min SLR** = 8.30
ECTC 3 Shear Res.	150 mm (6 in)/hr-30 min SLR** = 7.81
ECTC 4 Germination Incubation	Top Soil, Fescue, 21 day 228% improvement of biomass

Tensar International Corporation warrants that at the time of delivery the product furnished hereunder shall conform to the specification stated herein. Any other warranty including merchantability and fitness for a particular purpose, are hereby excluded. If the product does not meet specifications on this page and Tensar is notified prior to installation, Tensar will replace the product at no cost to the customer. This product specification supersedes all prior specifications for the product described above and is not applicable to any products shipped prior to January 1, 2011.

FILTREXX SWPPP Cut Sheet
Last Updated: 7-1-07
Section 1: Erosion and Sediment Control - Construction Activities
1.1 Filtrexx SiltSoxx™
Sediment & Perimeter Control Technology

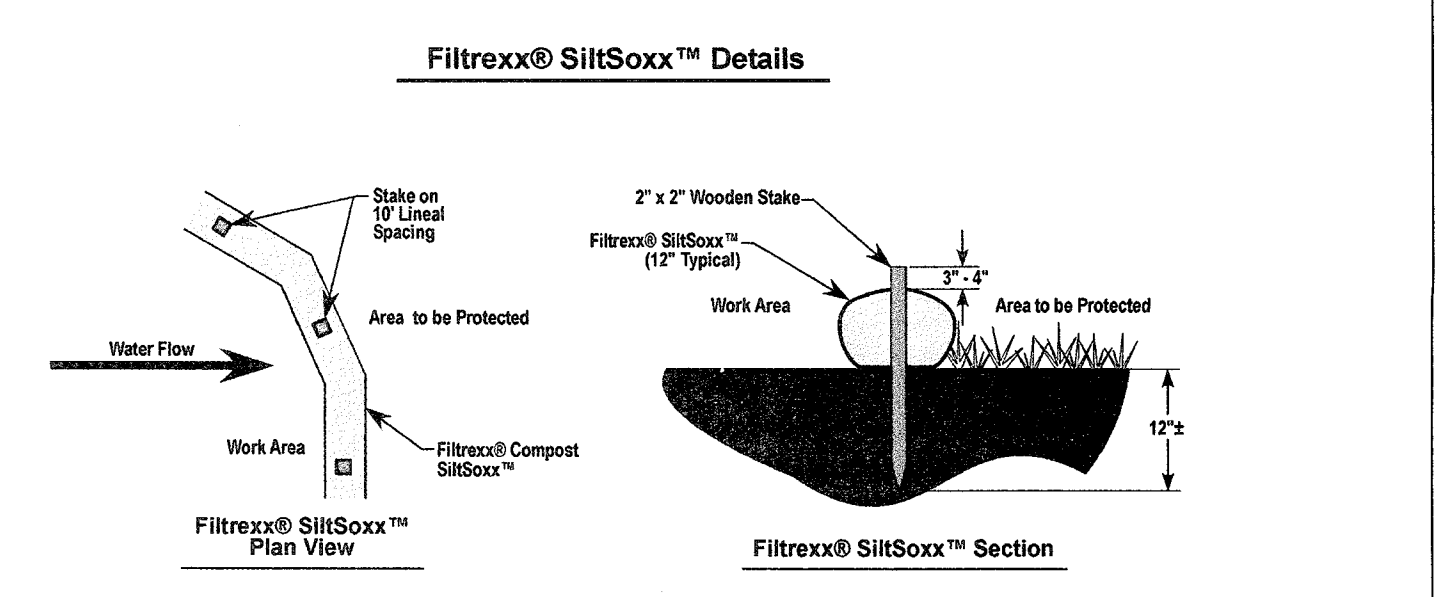
PURPOSE & DESCRIPTION
Filtrexx SiltSoxx™ are a three-dimensional tubular sediment control and storm water runoff filtration device typically used for perimeter control of sediment and other soluble pollutants (such as phosphorus and petroleum hydrocarbons), on and around construction activities.

APPLICATION
Filtrexx SiltSoxx™ are to be installed down slope of any disturbed area requiring erosion and sediment control and filtration of soluble pollutants from runoff. SiltSoxx™ are effective when installed perpendicular to sheet or low concentrated flow. Acceptable applications include:

- Site perimeters
- Above and below disturbed areas subject to sheet runoff, interrill and silt erosion
- Above and below exposed and erodible slopes
- Around area drains or inlets located in a 'sump'
- On compacted soils where trenching of silt fence is difficult or impossible
- Around sensitive trees where trenching of silt fence is not beneficial for tree survival or may unnecessarily disturb established vegetation.
- On frozen ground where trenching of silt fence is impossible.
- On paved surfaces where trenching of silt fence is impossible.

INSTALLATION
1. SiltSoxx™ used for perimeter control of sediment and soluble pollutants in storm runoff shall meet Filtrexx SiltSoxx™ Material Specifications and use Certified Filtrexx FilterMedia™.
2. Contractor is required to be Filtrexx Certified™ as determined by Filtrexx International, LLC (440-926-2607 or visit website at www.filtrexx.com). Certification shall be considered current if appropriate identification is shown during time of bid or at time of application (current listing can be found at www.filtrexx.com). Look for the Filtrexx Certified™ Seal.
3. SiltSoxx™ will be placed at locations indicated on plans as directed by the Engineer.
4. SiltSoxx™ should be installed parallel to the base of the slope or other disturbed area. In extreme conditions (i.e., 2:1 slopes), a second SiltSoxx™ shall be constructed at the top of the slope.
5. Stakes shall be installed through the middle of the SiltSoxx™ on 10 ft (3m) centers, using 2 in (50mm) by 2 in (50mm) by 3 ft (1m) wooden stakes. In the event staking is not possible, i.e., when SiltSoxx™ are used on pavement, heavy concrete blocks shall be used behind the SiltSoxx™ to help stabilize during rainfall/runoff events.
6. Staking depth for sand and silt loam soils shall be 12 in (300mm), and 8 in (200mm) for clay soils.
7. Loose compost may be backfilled along the upslope side of the SiltSoxx™, filling the space between the soil surface and the device, improving filtration and sediment retention.
8. If the SiltSoxx™ is to be left as a permanent filter or part of the natural landscape, it may be seeded at time of installation for establishment of permanent vegetation. The Engineer will specify seed requirements.
9. Filtrexx SiltSoxx™ are not to be used in perennial, ephemeral, or intermittent streams.
See design drawing schematic for correct Filtrexx SiltSoxx™ installation (Figure 1.1).

INSPECTION AND MAINTENANCE
Routine inspection should be conducted within 24 hrs of a runoff event or as designated by the regulating authority. SiltSoxx™ should be regularly inspected to make sure they maintain their shape and are producing adequate hydraulic flow-through. If ponding becomes excessive, additional SiltSoxx™ may be required to reduce effective slope length or sediment removal may be necessary. SiltSoxx™ shall be inspected until area above has been permanently stabilized and construction activity has ceased.
1. The Contractor shall maintain the SiltSoxx™ in a functional condition at all times and it shall be routinely inspected.
2. If the SiltSoxx™ has been damaged, it shall be repaired, or replaced if beyond repair.
3. The Contractor shall remove sediment at the base of the upslope side of the SiltSoxx™ when accumulation has reached 1/2 of the effective height of the SiltSoxx™, or as directed by the Engineer. Alternatively, a new SiltSoxx™ can be placed on top of and slightly behind the original one creating more sediment storage capacity without soil disturbance.
4. SiltSoxx™ shall be maintained until disturbed area above the device has been permanently stabilized and construction activity has ceased.
5. The FilterMedia™ will be dispersed on site once disturbed area has been permanently stabilized, construction activity has ceased, or as determined by the Engineer.
6. For long-term sediment and pollution control applications, SiltSoxx™ can be seeded at the time of installation to create a vegetative filtering system for prolonged and increased filtration of sediment and soluble pollutants (contained vegetative filter strip). The appropriate seed mix shall be determined by the Engineer.



Notes:
1. All material to meet Filtrexx specifications.
2. SiltSoxx™ compost/backfilled fill to meet application requirements.
3. SiltSoxx™ depicted is for minimum slopes. Greater slopes may require larger stakes per the Engineer.
4. Compost material to be dispersed on site, as determined by Engineer.

Slope Percent	Maximum Slope Length Above SiltSoxx™ in Feet (meters)*				
	8 in (200 mm) SiltSoxx™	12 in (300 mm) SiltSoxx™	18 in (450 mm) SiltSoxx™	24 in (600 mm) SiltSoxx™	32 in (800 mm) SiltSoxx™
7 in (175 mm)**	7 in (175 mm)**	10 in (250 mm)**	15 in (375 mm)**	20 in (500 mm)**	26 in (650 mm)**
2 (or less)	600 (180)	750 (225)	1000 (300)	1300 (400)	1650 (500)
5	400 (120)	500 (150)	550 (165)	650 (200)	750 (225)
10	200 (60)	250 (75)	300 (90)	400 (120)	500 (150)
15	140 (40)	170 (50)	200 (60)	325 (100)	450 (140)
20	100 (30)	125 (38)	140 (42)	260 (80)	400 (120)
25	80 (24)	100 (30)	110 (33)	200 (60)	275 (85)
30	60 (18)	75 (23)	90 (27)	130 (40)	200 (60)
35	60 (18)	75 (23)	80 (24)	115 (35)	150 (45)
40	60 (18)	75 (23)	80 (24)	100 (30)	125 (38)
45	40 (12)	50 (15)	60 (18)	80 (24)	100 (30)
50	40 (12)	50 (15)	55 (17)	65 (20)	75 (23)

*Based on a failure point of 36 in (0.9 m) super silt fence (wire reinforced) at 1000 ft (303 m) of slope, watershed width equivalent to receiving length of sediment control device, 1 in/24 hr (25 mm/24 hr) rain event. **Effective height of SiltSoxx™ after installation and with constant head from runoff as determined by Ohio State University.

PROJECT TITLE:
SCCAD BASE 18
Bax Project #95-7632G

ENGINEERING PLANNING SURVEYING
231 Point West Blvd.
St. Charles, MO 63301
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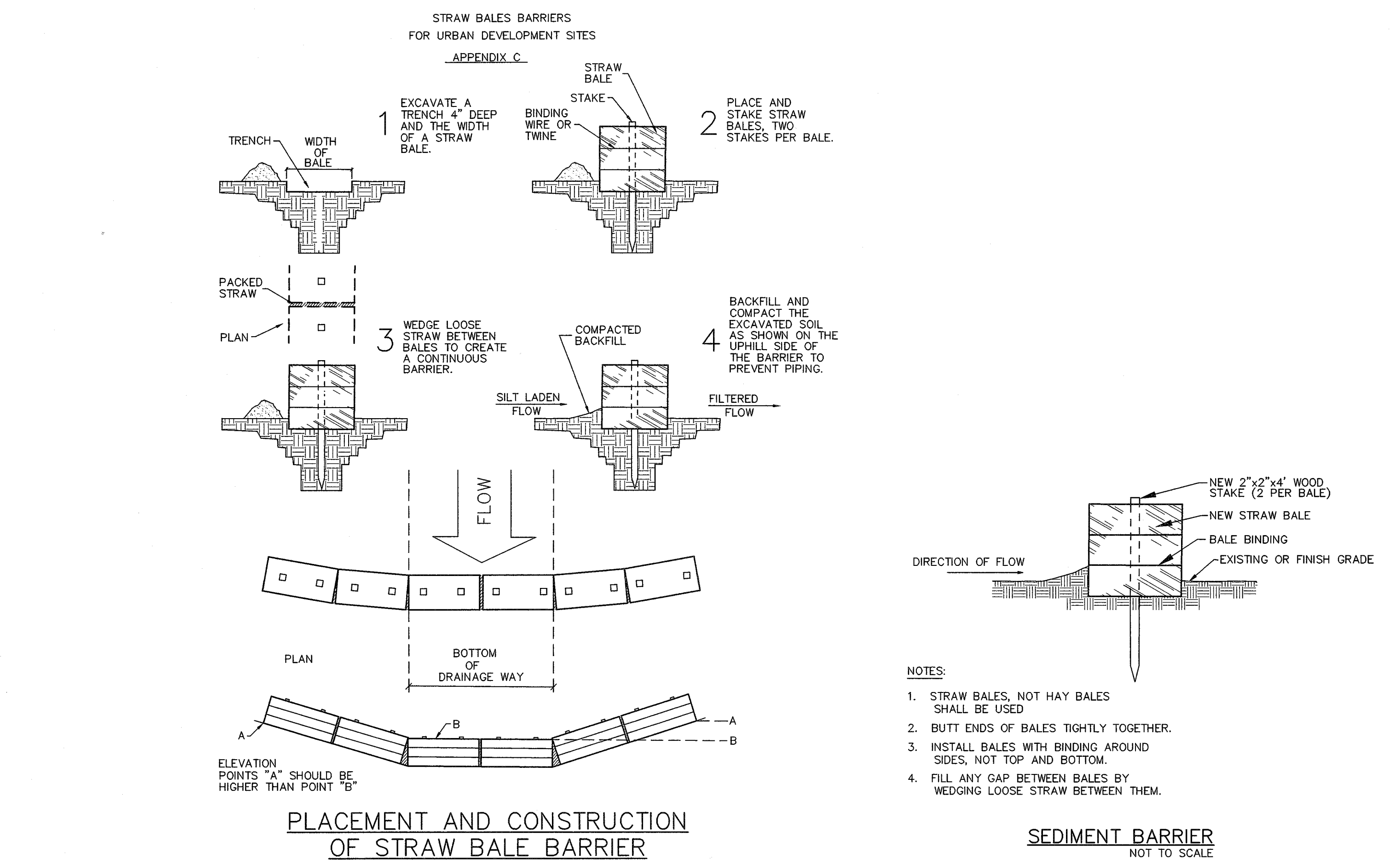
REFERENCE DRAWINGS ONLY

REVISIONS	
8-15-17	CITY COMMENTS

Developer / Owner:
ST. CHARLES COUNTY AMBULANCE DISTRICT
4169 OLD MILL PARKWAY
ST. PETERS, MISSOURI 63376

Plat No. #04-16.02.01
City No. #17-005139
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EROSION CONTROL DETAILS



NOTES:
1. STRAW BALES, NOT HAY BALES SHALL BE USED.
2. BUTT ENDS OF BALES TIGHTLY TOGETHER.
3. INSTALL BALES WITH BINDING AROUND SIDES, NOT TOP AND BOTTOM.
4. FILL ANY GAP BETWEEN BALES BY WEDGING LOOSE STRAW BETWEEN THEM.

SEDIMENT BARRIER
NOT TO SCALE