

- Notes:
- Meters shall be Neptune Trident 10 Water Meters, pit version, complete with an R900, integral antenna. Meter shall read in US 100-gallons.
 - Length of box "B" should be distance "C" plus distance required to install fittings as shown.
 - Vault walls to be of concrete.
 - Vault roof to be of reinforced concrete with access opening centered over meter.
 - Vault frame and lid shall be removable and not cast in concrete. Double sets of lids and frames to be provided for openings on all boxes.
 - Valves on each side of meter must have flanged ends, be in alignment, and be adequately secured to withstand water thrust with meter removed.
 - Dismantling joint with strainer is required.
 - Drainage facilities must be provided, or box otherwise kept free of water, no French Drains will be allowed.
 - Service to be run at right angles from meter box to the street.
 - Meter box control valve to be located as near to box as practical.
 - Steps to be provided if City of St. Peters Utility Department allows box depth to exceed 6 feet.
 - D.I. Class S2 Pipe minimum required, extended minimum 6 feet from outlet side of meter pit.
 - Type "K" or "L" copper on domestic, extended minimum 6 feet from outlet side of meter pit.
 - Any deviation from pipe depth shown must be approved by City of St. Peters Utility Department prior to construction.
 - Box to be set with top of box at finished grade with no extension allowed.
 - A drawing of the vault and meter components along with component specifications shall be submitted to the City of St. Peters Utility Department for approval.

Tensar. NORTH AMERICAN GREEN

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**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)
	Swell	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	139.8 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	

Standard Roll Sizes	
Width	6.67 ft (2.03 m), 8.0 ft (2.44 m), 16.0 ft (4.87 m)
Length	108 ft (32.92 m), 112 ft (34.14 m), 108 ft (32.92 m)
Weight ± 10%	40 lbs (18.14 kg), 50 lbs (22.68 kg), 96 lbs (43.54 kg)
Area	80 yd ² (66.9 m ²), 100 yd ² (83.61 m ²), 192 yd ² (162.5 m ²)

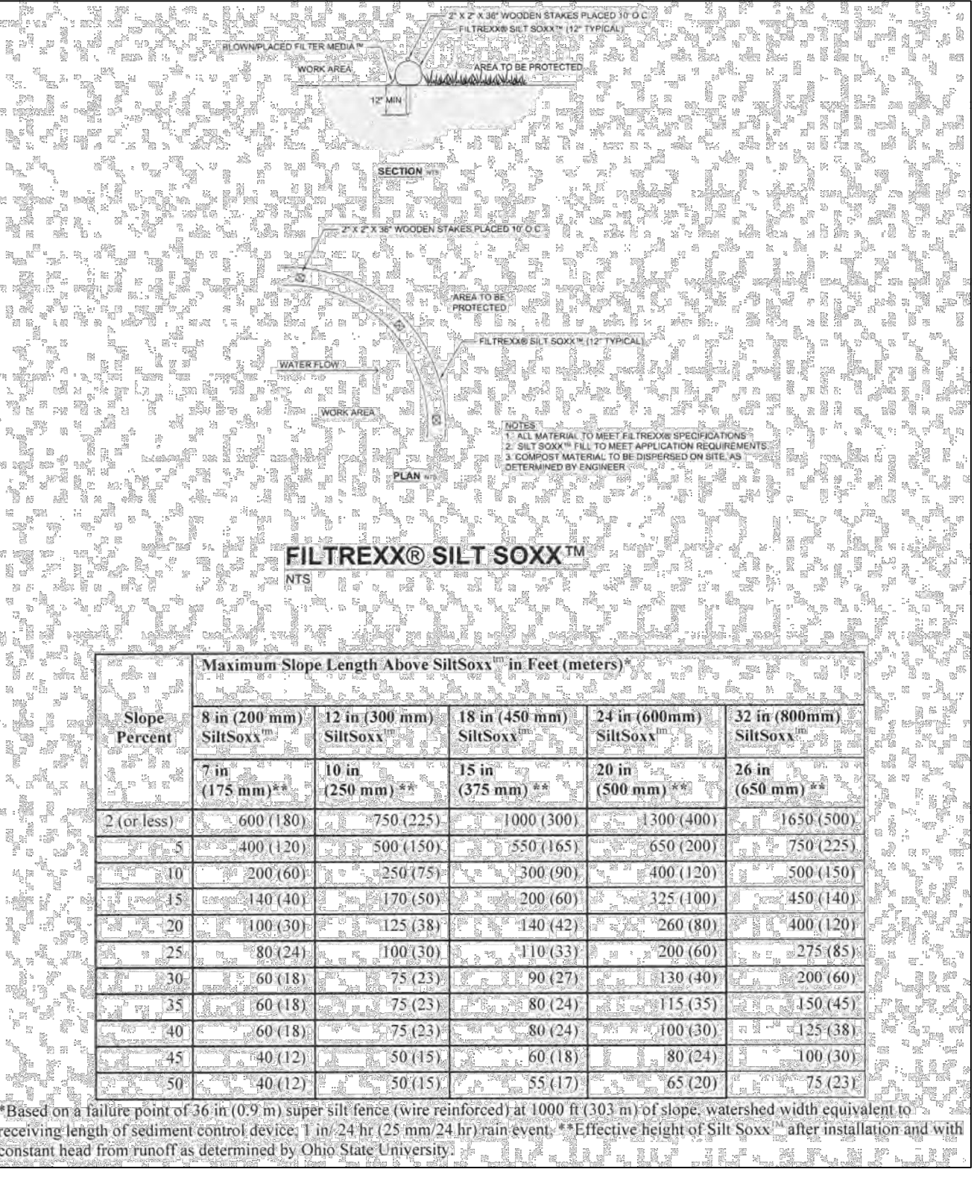
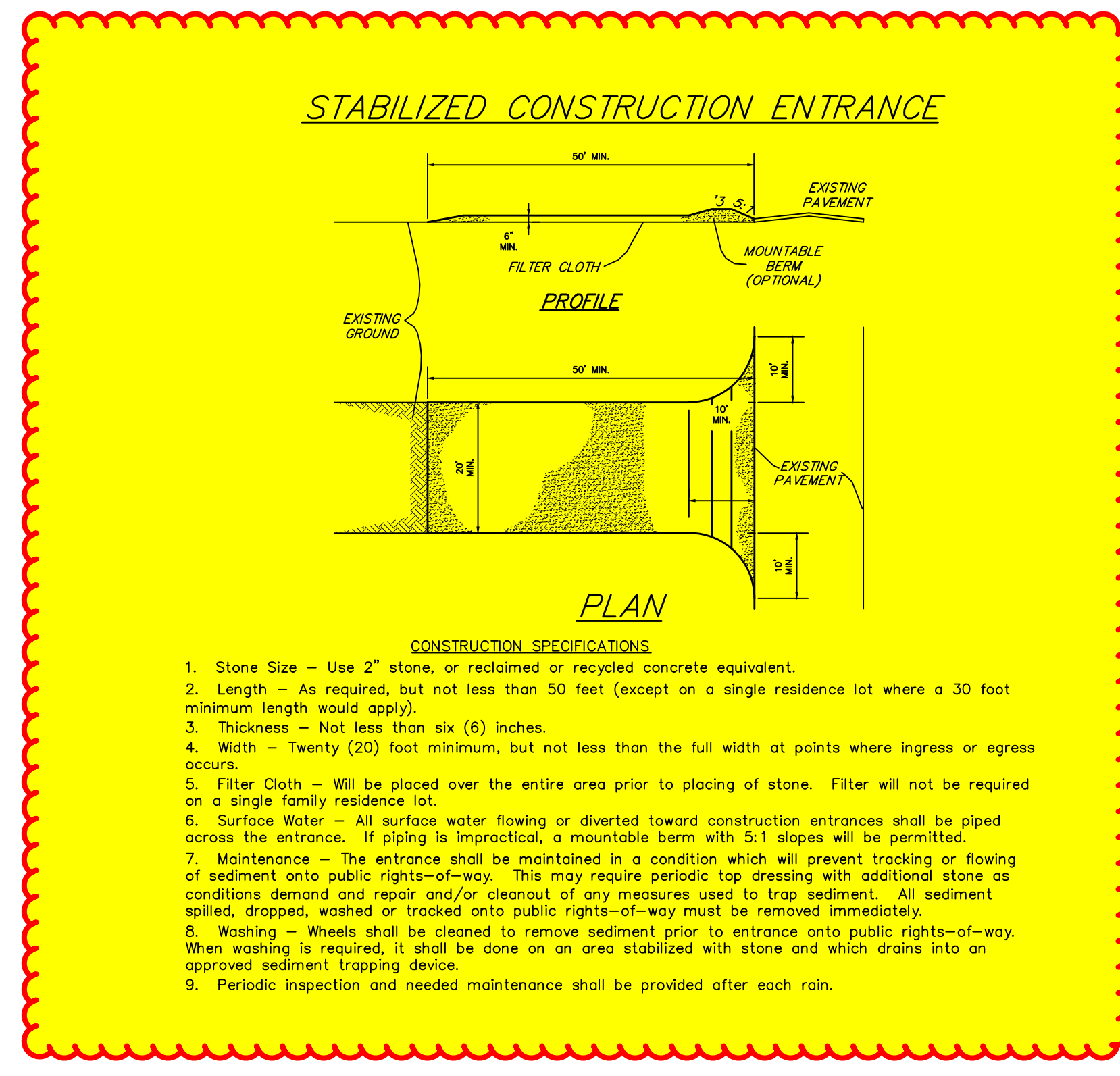
Test Method	Parameters	Results
ECTC 2 Rainfall	50 mm (2 in)/hr-30 min	SLR** = 8.80
	100mm (4 in)/hr-30 min	SLR** = 8.16
	150 mm (6 in)/hr-30 min	SLR** = 7.81
ECTC 3 Shear Res.	Shear at 0.50 inch soil loss	1.80 lbs/ft ²
ECTC 4 Germination	Top Soil, Fescue, 21 day incubation	228% improvement of biomass

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

Proud Participant of:

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 executed. 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.

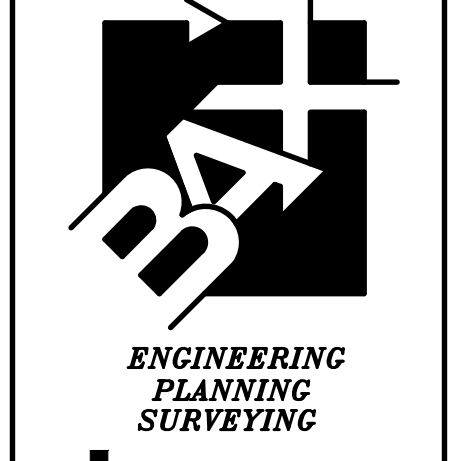
*EROSION CONTROL BLANKET TO BE INSTALLED ON ALL 3:1 SLOPES



REFERENCE DRAWINGS ONLY
ENGINEERS SEAL DOES NOT APPLY
TO DETAILS ON THIS SHEET.

IMPROVEMENT PLANS FOR
ST. PETERS OUTDOOR AQUATIC CENTER
5200 MEXICO ROAD
ST. PETERS, ST CHARLES COUNTY, MISSOURI, 63376

PREPARED FOR:
CITY OF ST. PETERS
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**ENGINEERING
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Box Engineering Company, Inc.
Missouri State Certificate of Authority
Engineering #000655
Missouri State Certificate of Authority
Surveying #000144

REVISIONS

NO.	DATE	DESCRIPTION

08/03/2017
DATE
15-16693A
PROJECT NUMBER
16693sketch_02
FILE NAME
TMM
DRAWN
LDW LDW
DESIGNED CHECKED

CONSTRUCTION
DETAILS

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