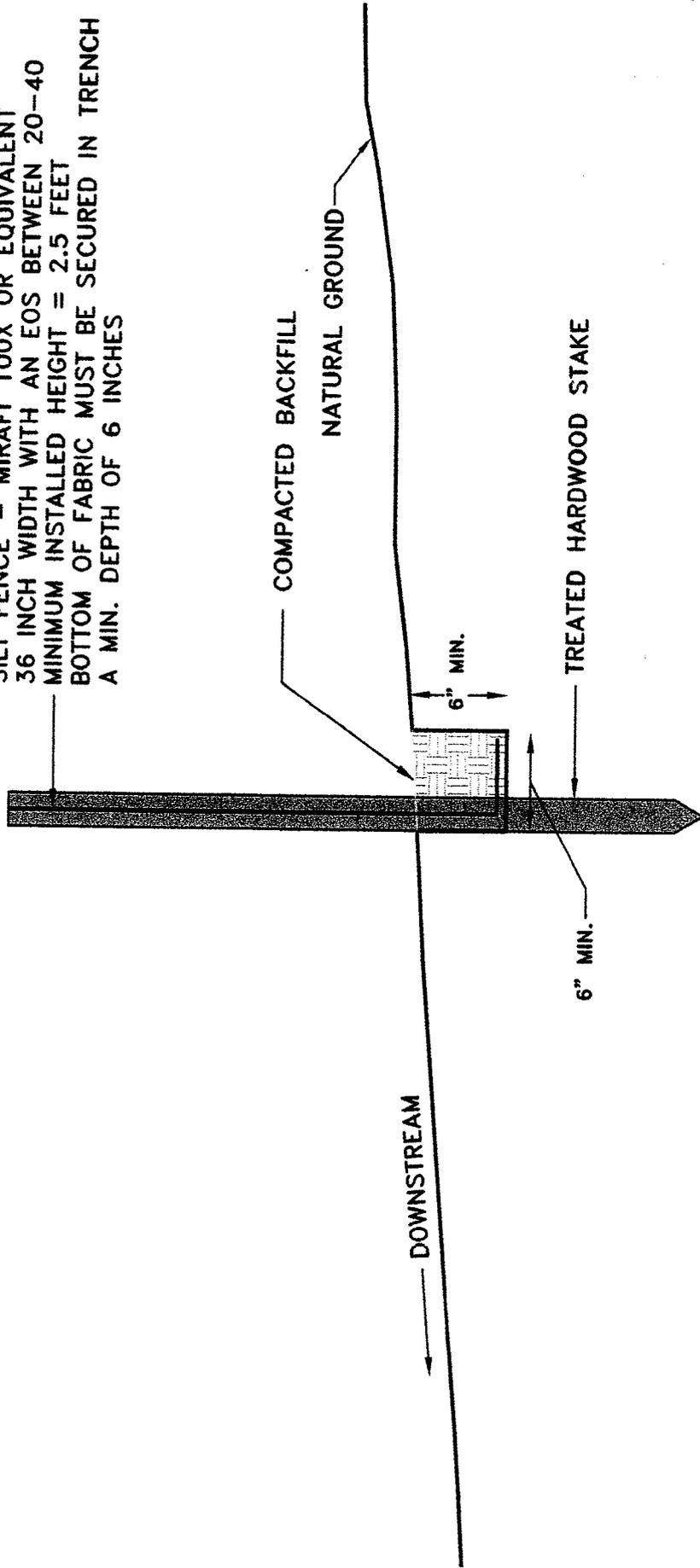


TYPICAL SILT FENCE CONSTRUCTION LAYOUT

SILT FENCE - MIRAFI 100X OR EQUIVALENT
36 INCH WIDTH WITH AN EOS BETWEEN 20-40
MINIMUM INSTALLED HEIGHT = 2.5 FEET
BOTTOM OF FABRIC MUST BE SECURED IN TRENCH
A MIN. DEPTH OF 6 INCHES



product

Mirafi® X-Series Woven Polypropylene Geotextiles

for Sediment Control, Soil Separation, and Road Base Stabilization

Mirafi® Construction Products offers a wide range of woven and nonwoven geotextiles for paving and soil reinforcement applications. These fabrics are cost-effective geosynthetic elements which improve and enhance modern construction techniques.

PRODUCT DESCRIPTION

Mirafi® X-Series products are woven geotextiles comprised of UV stabilized polypropylene slit film. Mirafi® X-Series Woven Polypropylene Geotextiles provide excellent puncture and tear resistant properties in addition to high tensile strengths.

Mirafi® X- Series Products:

- Mirafi® Envirofence - Mirafi® Silt Fence
- Mirafi® 100X, 100CX - Mirafi® 500X, 600X

FEATURES AND BENEFITS

- **Construction.** Woven construction offers excellent resistance to installation abuse.
- **Strength.** High modulus provide outstanding performance in a wide range of applications.
- **Flow.** Uniform openings provide excellent filtration and flow characteristics.

- **Fabrication.** Mirafi® Silt Fence is prefabricated using Mirafi® 100X geotextile and 3.2 cm (1.25") nominal square hardwood posts. Mirafi® Silt Fence is available with 2.5 m (8.3') or 3 m (10') post spacings.

Mirafi® Envirofence is prefabricated using Mirafi® 100X, 3.2 cm (1.25") nominal square hardwood posts, and a net backing for additional support. All Mirafi® prefabricated silt fence products are ready for immediate installation upon delivery.

APPLICATIONS

Mirafi® 100X is predominantly used for sediment control applications. Fine-grained sediment is trapped by the geotextile while storm water run-off passes through at a moderate rate.

Mirafi® 500X applications include separation under parking lots, residential streets, and roadways. Mirafi® 500X is used over good to moderate strength subgrades for separation and confinement of base materials. Mirafi® 500X is also utilized over moderate to poor

subgrades for separation, confinement, and stabilization of base material. Mirafi® 500X meets AASHTO M288-96 Specifications for Stabilization and Separation - Class 3.

Mirafi® 600X is used for separation and stabilization over very weak subgrades; and separation, confinement, and reinforcement for critical roadways and site construction where very coarse, angular, and abrasive base material is required. Mirafi® 600X provides stabilization and reinforcement when heavy loads are expected. Mirafi® 600X meets AASHTO M288-96 Specifications for Stabilization and Separation - Class 1.

Mirafi® 500X/600X geotextiles were developed to improve the economics and performance of roadway systems by reducing the amount of aggregate required, increasing the design life and reducing the maintenance cost, preventing periodic overstressing of the subgrade, and eliminating costly project delays by allowing all-weather construction.

In addition, panels can be sewn together in the factory or in the field, providing cross-roll direction strength to facilitate installation, and providing reinforcement strength.



Mirafi® Silt Fence with posts used for sedimentation control



Mirafi® 500X used for separation under residential street



Mirafi® 600X used for stabilization in roadway repair



product **Mirafi® X-Series Woven Polypropylene Geotextiles**
for Sedimentation Control, Soil Separation, and Road Base Stabilization

Mirafi® X-Series Technical Data

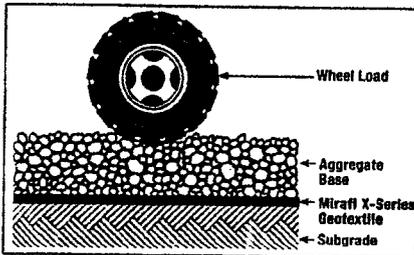
Property	Test Method	Units	100X	500XL	500X	600X
Grab Tensile Strength ¹	ASTM D 4632	kN (lbs)	0.55 (124)	0.62 (140)	0.90 (200)	1.40 (315)
Grab Tensile Elongation	ASTM D 4632	% MD / CD	15 / 15	15 / 10	15 / 10	15 / 10
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.29 (65)	0.20 (45)	0.33 (75)	0.53 (120)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	2060 (300)	2240 (325)	2756 (400)	4134 (600)
Puncture Strength	ASTM D 4833	kN (lbs)	0.27 (60)	0.29 (65)	0.40 (90)	0.53 (120)
UV Resistant after 500 hours	ASTM D 4355	% Strength	70	70	70	70
Apparent Opening Size	ASTM D 4751	mm (US Sieve)	0.60 (30)	0.60 (30)	0.30 (50)	0.425 (40)
Permittivity	ASTM D 4491	sec ⁻¹	0.1	0.05	0.05	0.05

¹ Values apply to both machine and cross-machine directions

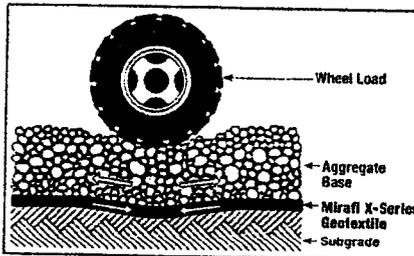
Packaging

Property	Units	100X	500XL	500X	600X
Roll Width	m (ft)	0.9 (3)	3.8 (12.5)	3.8 (12.5) 5.3 (17.5)	3.8 (12.5) 5.3 (17.5)
Roll Length	m (ft)	100 (330)	154 (504)	132 (432) 94.2 (309)	110 (360) 78.7 (258)
Est. Gross Weight	kg (lbs)	12 (26)	89 (195)	95 (210)	109 (240)
Roll Area	m ² (yd ²)	92 (110)	585 (700)	502 (600)	418 (500)

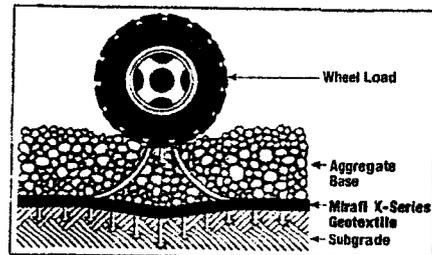
Subgrade/Aggregate Separation



Aggregate Confinement



Subgrade Load Distribution



For more information: www.mirafi.com

WARRANTY

MIRAFI® Construction Products assumes no liability for the accuracy or completeness of this information or for the ultimate use by the purchaser. MIRAFI® disclaims any and all express, implied, or statutory standards, warranties or guarantees, including without limitation any implied warranty as to merchantability or fitness for a particular purpose or arising from a course of dealing or usage of trade as to any equipment, materials, or information furnished herewith. This document should not be construed as engineering advice.

ABOUT US

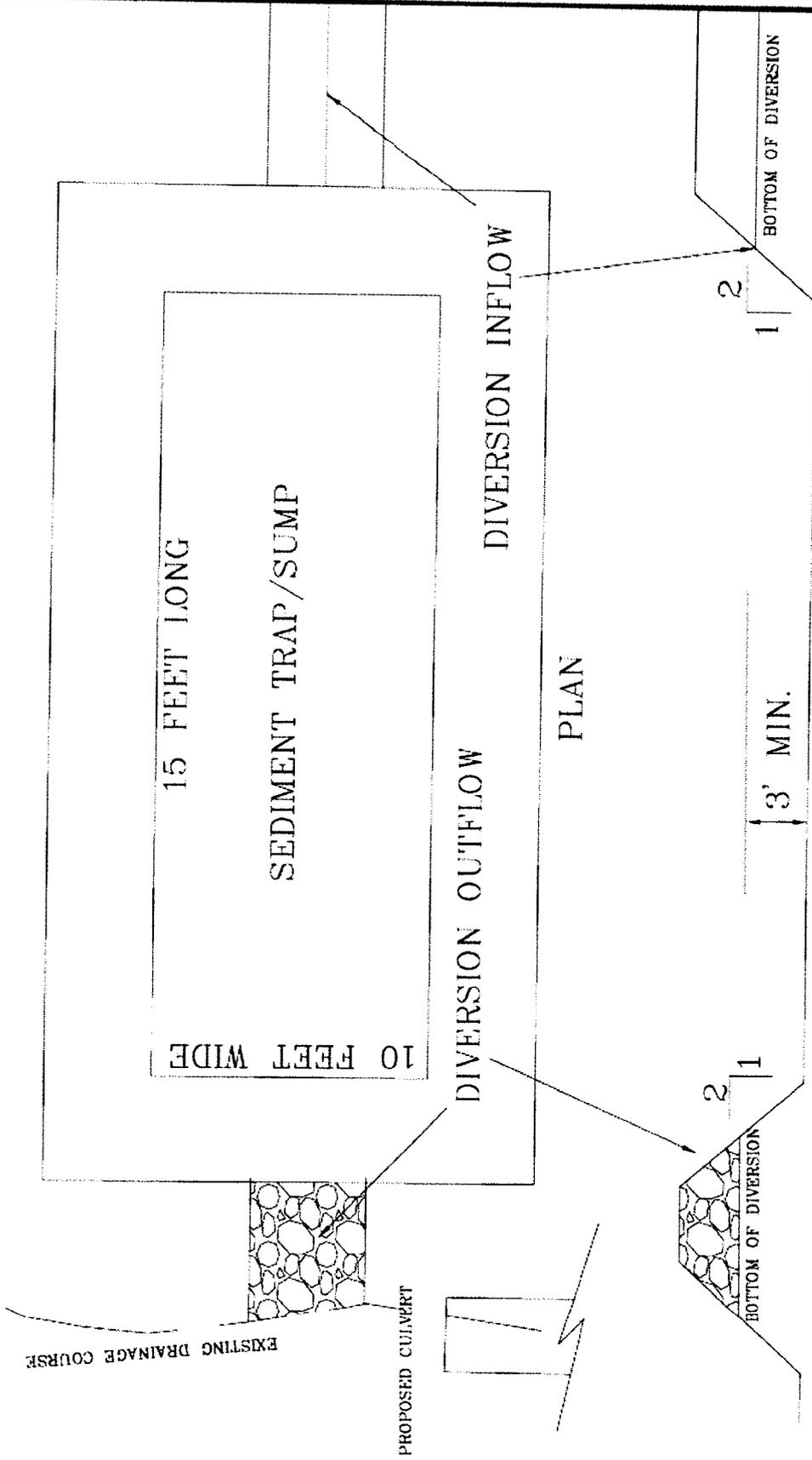
MIRAFI® Construction Products is a division of Ten Cate Nicolon USA. MIRAFI® is a proud member of FAI and GMA. Ten Cate Nicolon USA is a registered SC9901-2000 company.

CORPORATE OFFICE

365 South Holland Drive • Perduegrass, GA 30567
 (888) 795-2808 • (706) 693-2226 • Fax (706) 693-4400

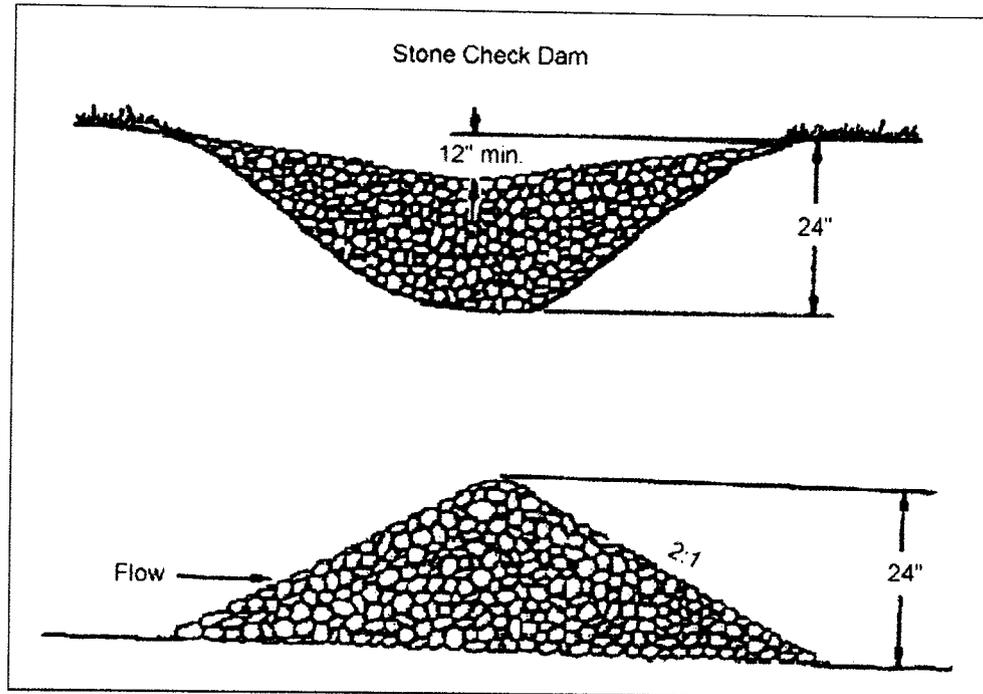


TYPICAL SUMP FOR COAL STOCKPILE RUNOFF

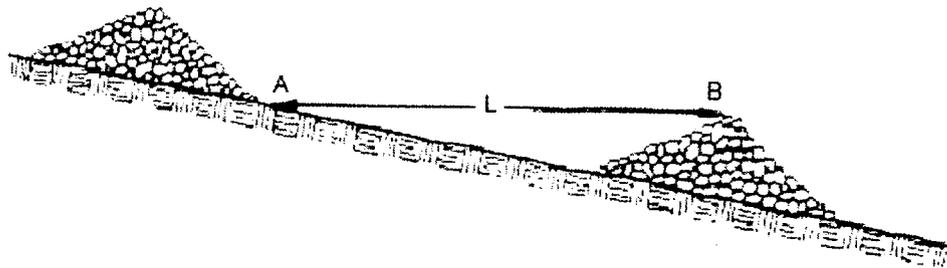


- 1) Diversion Outflow will be same size as Diversion Inflow.
- 2) Diversion Outflow will be lined with a minimum thickness of 1 foot of Class I riprap.
- 3) Sediment Traps will be located as close as possible to the existing drainage course and culvert but will be sufficient distance from any fill slope to prevent sloughing.
- 4) Sediment Traps will be cleaned out when they are 50% of capacity.

TYPICAL RIP-RAP CHECK DAM



L = The distance such that points
A and B are of equal elevation



Spacing between Check Dams

RIP-RAP CLASSIFICATION SPECIFICATIONS

CLASS 1 RIP-RAP

No more than 10% of the stone will have a diameter greater than twelve (12) inches; no more than 50% of the stone will have a diameter less than ten (10) inches; and no more than 10% of the stone will have a diameter of less than six (6) inches. The thickness of the rip-rap liner will be no less than twelve (12) inches.

CLASS 2 RIP-RAP

No more than 10% of the stone will have a diameter greater than sixteen (16) inches; no more than 50% of the stone will have a diameter less than twelve (12) inches; and no more than 10% of the stone will have a diameter of less than six (6) inches. The thickness of the rip-rap liner will be no less than sixteen (16) inches.

CLASS 3 RIP-RAP

No more than 10% of the stone will have a diameter greater than twenty two (22) inches; no more than 50% of the stone will have a diameter less than sixteen (16) inches; and no more than 10% of the stone will have a diameter of less than eight (8) inches. The thickness of the rip-rap liner will be no less than twenty two (22) inches.

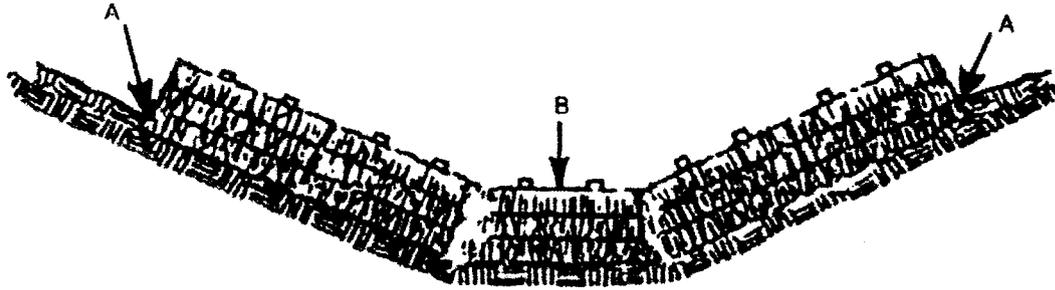
CLASS 4 RIP-RAP

No more than 10% of the stone will have a diameter greater than twenty seven (27) inches; no more than 50% of the stone will have a diameter less than twenty two (22) inches; and no more than 10% of the stone will have a diameter of less than ten (10) inches. The thickness of the rip-rap liner will be no less than twenty seven (27) inches.

CLASS 5 RIP-RAP

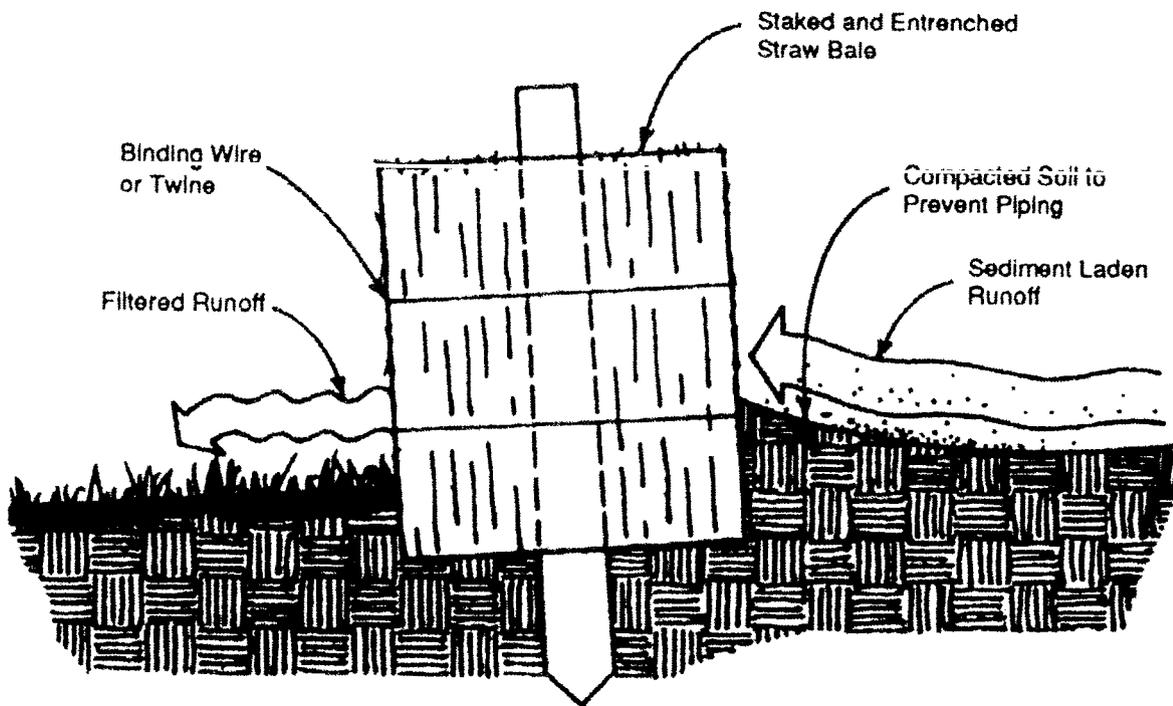
No more than 10% of the stone will have a diameter greater than thirty four (34) inches; no more than 50% of the stone will have a diameter less than twenty seven (27) inches; and no more than 10% of the stone will have a diameter of less than sixteen (16) inches. The thickness of the rip-rap liner will be no less than thirty four (34) inches.

TYPICAL HAY BALE CHECK DAM



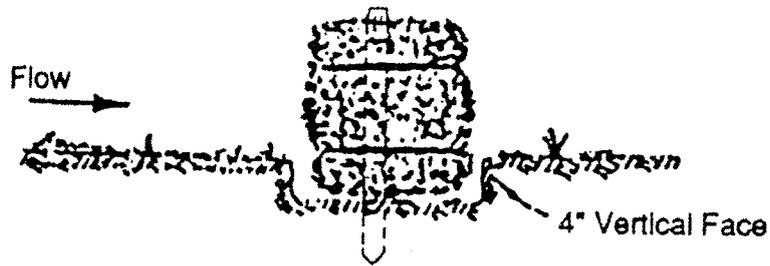
Points A should be higher than point B

PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

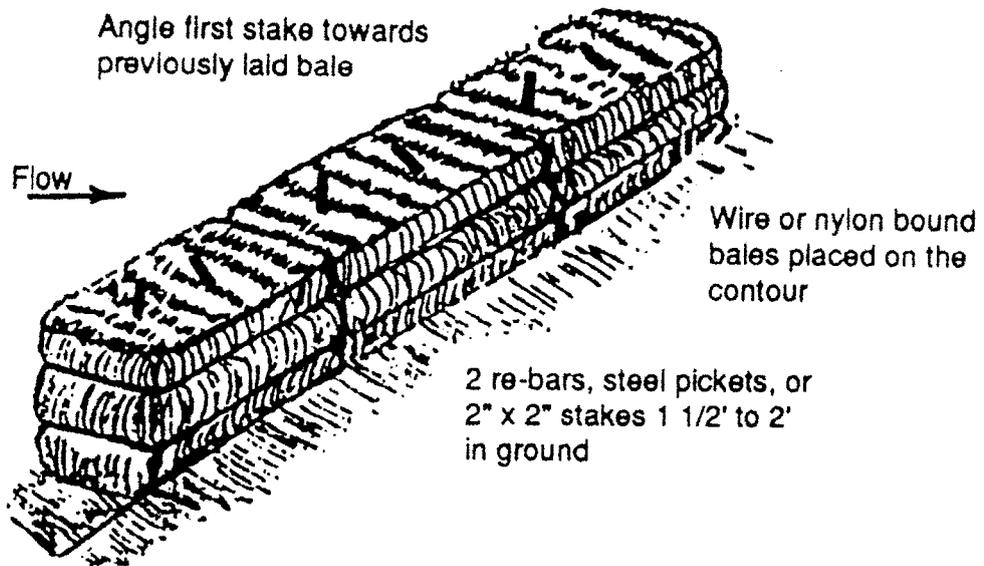


Note: Embed hay bales a minimum of 4 inches.

CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE



EMBEDDING DETAIL



ANCHORING DETAIL

NOTE:

- Anchor and embed into soil to prevent washout or water working under barrier
- Repair or replacement must be made promptly as needed