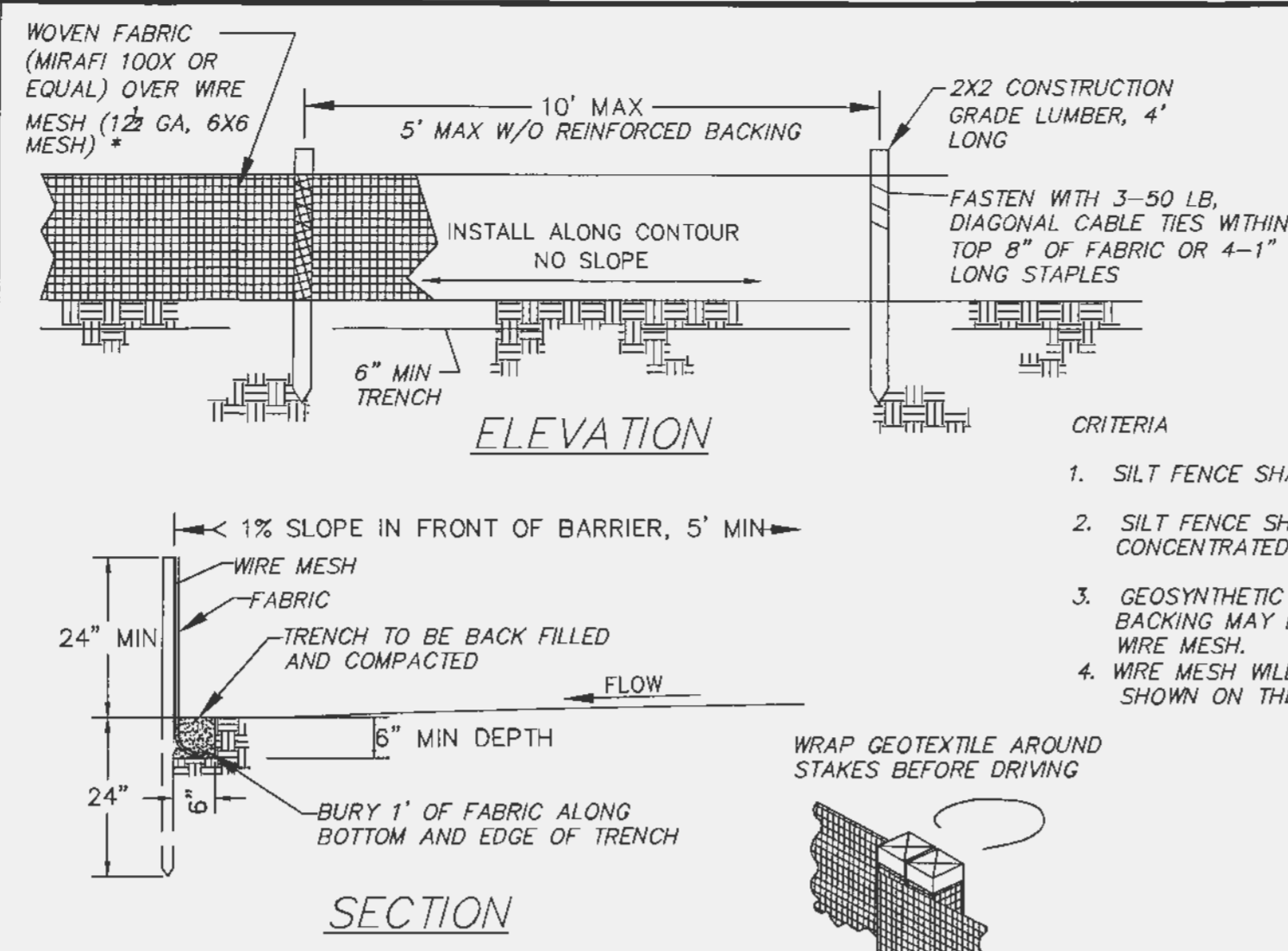


DESIGN CRITERIA

- SILT FENCE FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
- STRAW BALE BARRIERS FOR SHEET FLOW SHALL HAVE A MAXIMUM DRAINAGE AREA OF 1/4 ACRE PER 100 LF.
- REFER TO INDIVIDUAL ESC FIGURE FOR INSTALLATION.
- TERRACING INCLUDES LOGS, WATTLES & FILTER SOCKS.

CITY OF FALLON ENGINEERING DEPARTMENT
FALLON, MISSOURI

SPACING CHART FOR ESC DEVICES

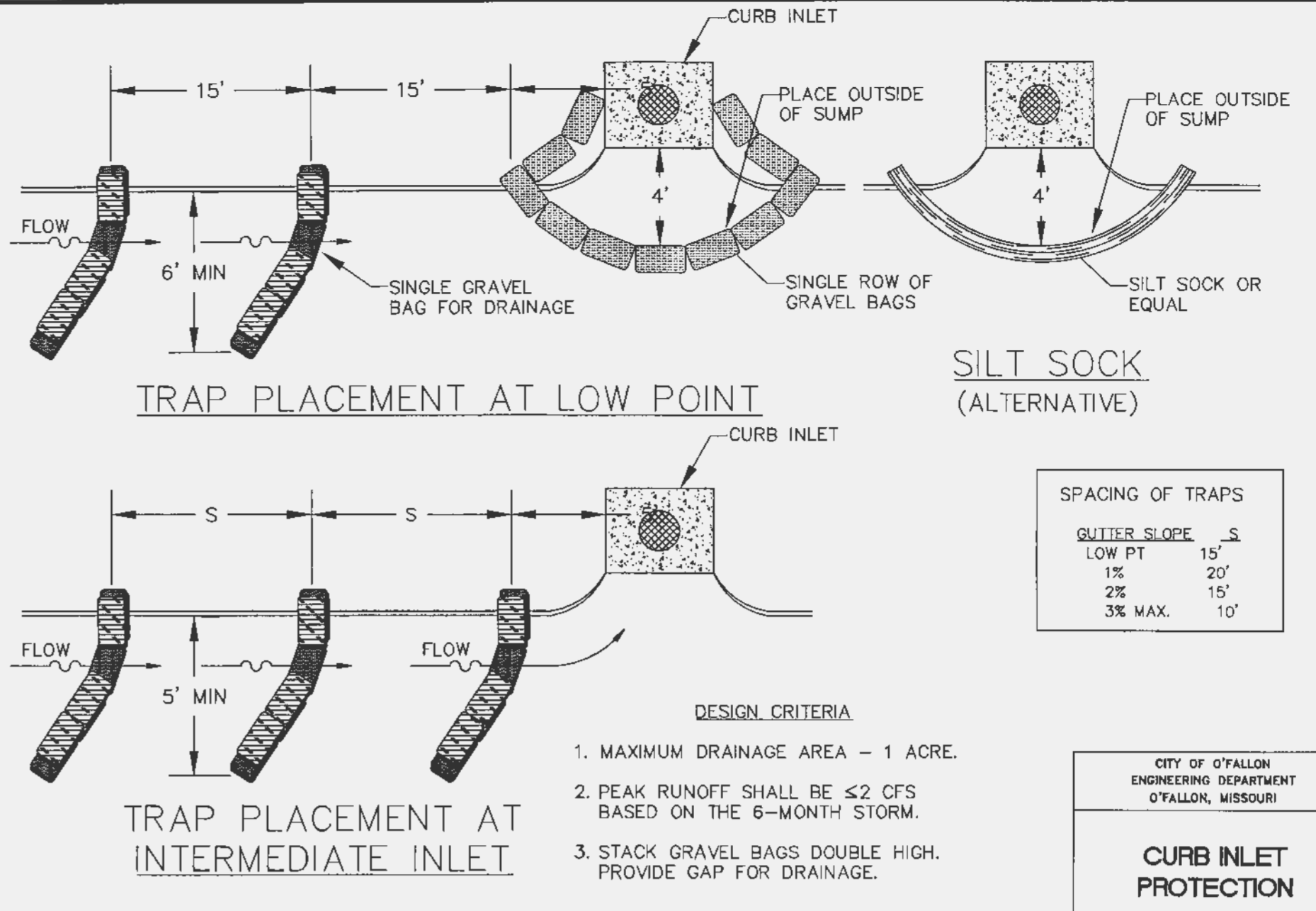


CRITERIA

- SILT FENCE SHALL BE 24 INCHES HIGH.
- SILT FENCE SHALL NOT BE USED FOR CONCENTRATED FLOWS.
- GEOSYNTHETIC REINFORCED SILT FENCE BACKING MAY BE USED IN LIEU OF WIRE MESH.
- WIRE MESH WILL BE USED AT LOCATIONS SHOWN ON THE APPROVED SWPPP.

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SILT FENCE INSTALLATION SHEET FLOW (ONLY)

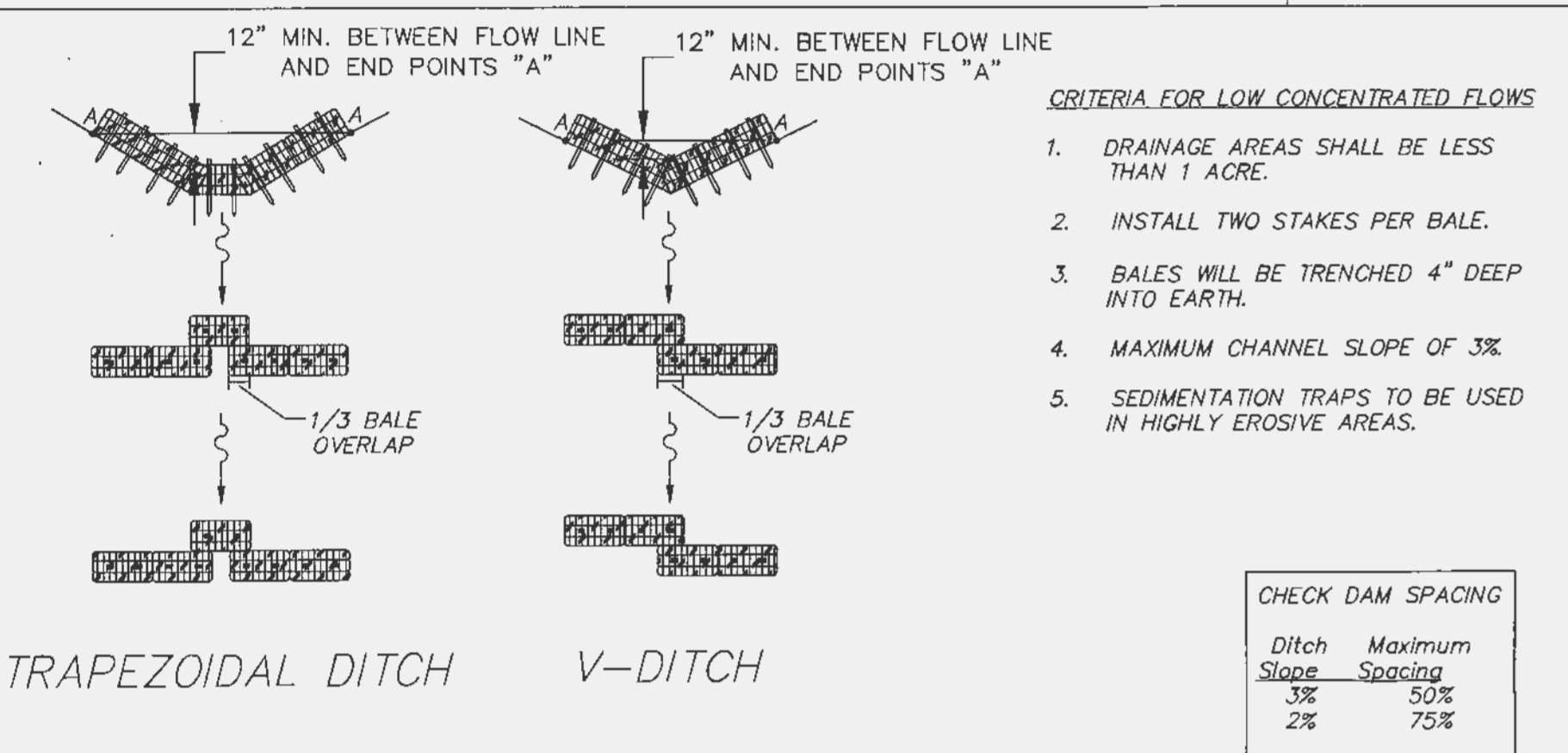


DESIGN CRITERIA

- MAXIMUM DRAINAGE AREA - 1 ACRE.
- PEAK RUNOFF SHALL BE ≤ 2 CFS BASED ON THE 6-MONTH STORM.
- STACK GRAVEL BAGS DOUBLE HIGH. PROVIDE GAP FOR DRAINAGE.

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CURB INLET PROTECTION

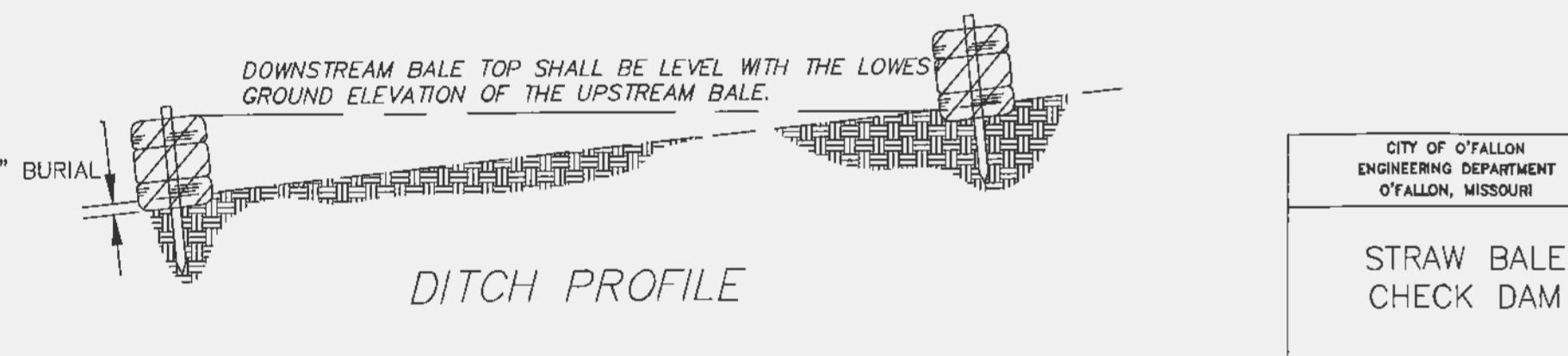


CRITERIA FOR LOW CONCENTRATED FLOWS

- DRAINAGE AREAS SHALL BE LESS THAN 1 ACRE.
- INSTALL TWO STAKES PER BALE.
- BALES WILL BE TRENCHED 4" DEEP INTO EARTH.
- MAXIMUM CHANNEL SLOPE OF 3%.
- SEDIMENTATION TRAPS TO BE USED IN HIGHLY EROSION AREAS.

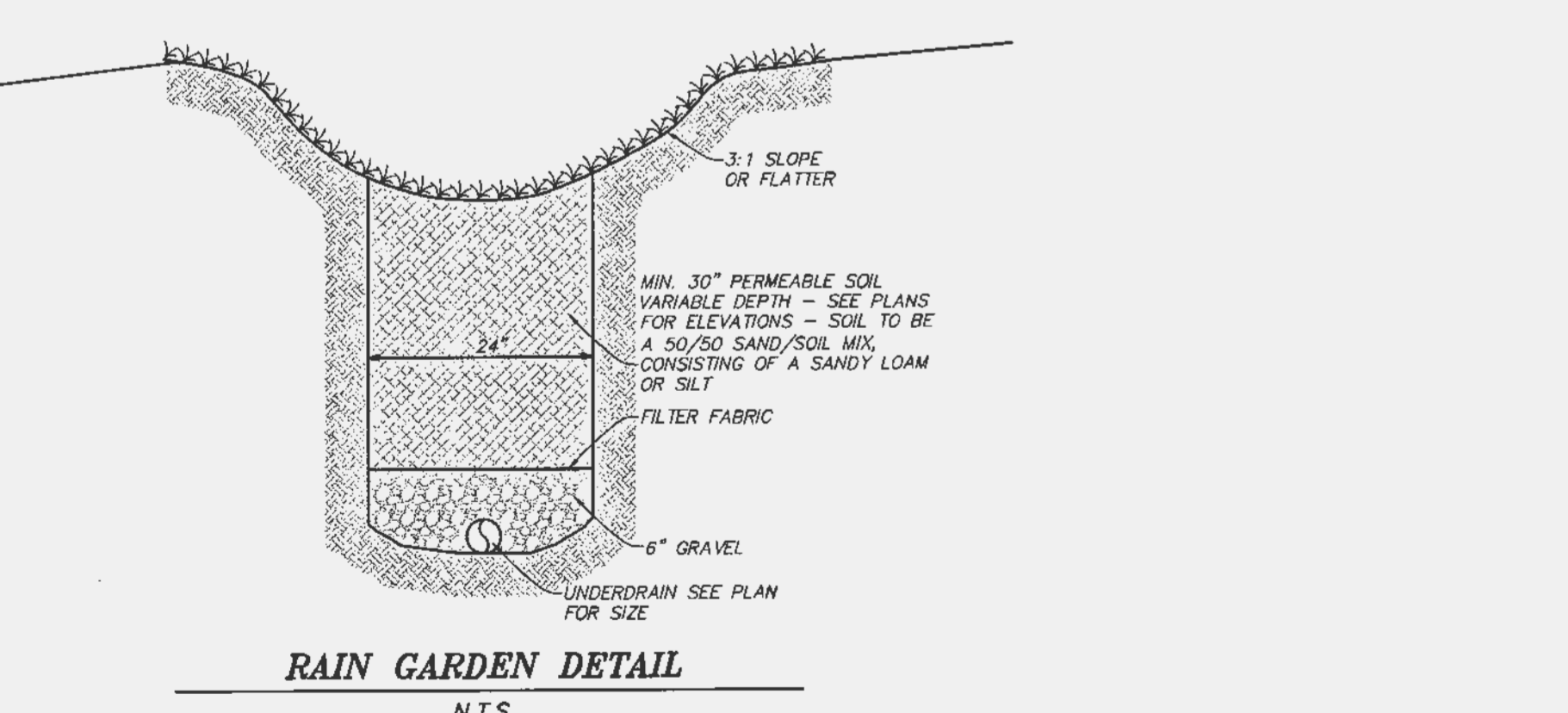
CHECK DAM SPACING

Ditch Slope	Maximum Spacing
3%	50'
2%	75'



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STRAW BALE CHECK DAM

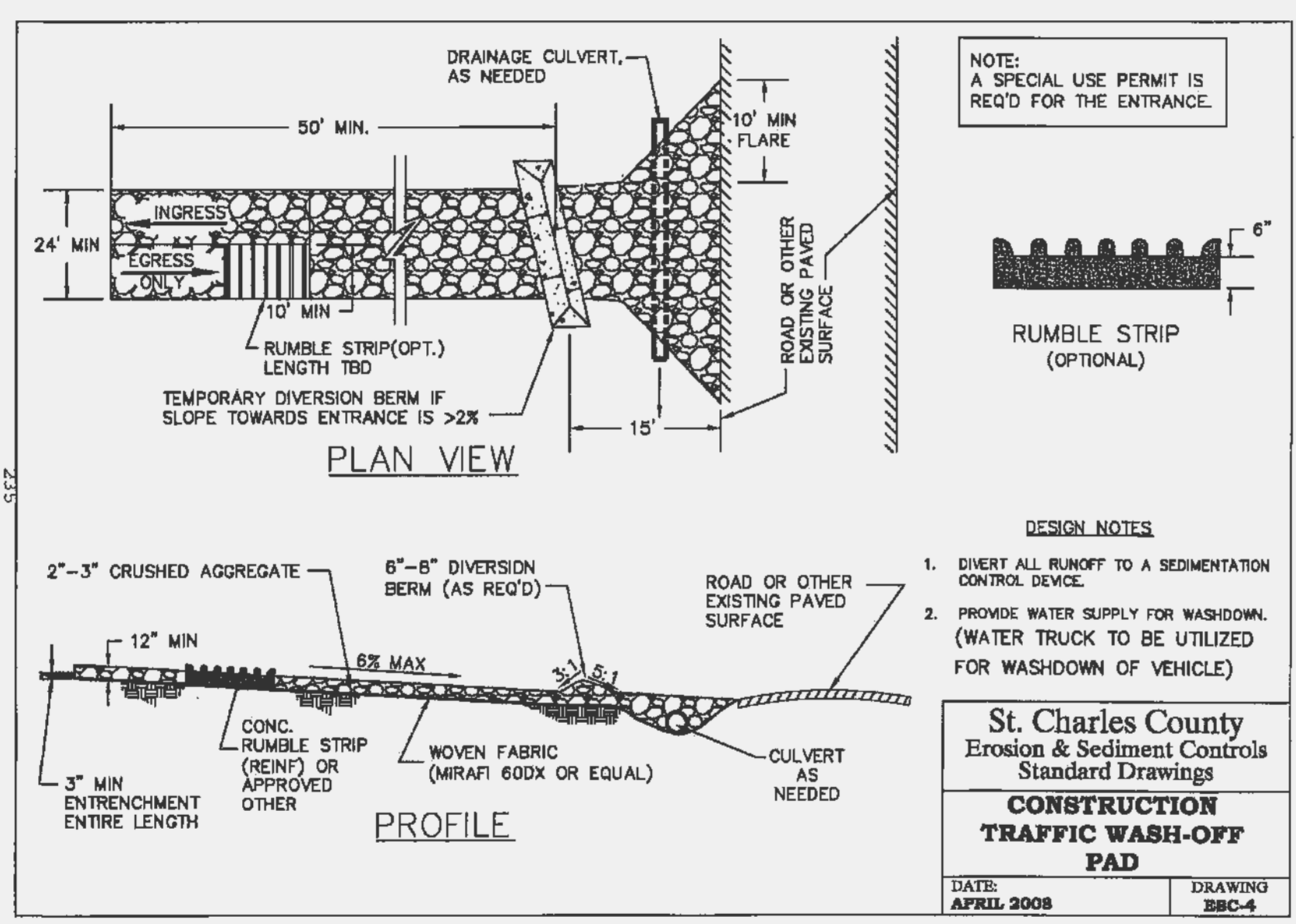


Outside (beyond) the pavement limits, excavations shall be jetted with water and allowed to set for a length of time satisfactory to the City Engineer.

- Jetting. Granular materials and earth materials associated with new construction beyond the pavement may be jetted, taking care to avoid damage to newly laid sewers. The jetting shall be performed with a probe route on not greater than seven and one-half (7.5) foot centers with the jetting probe centered over and parallel with the direction of the pipe. Trench widths greater than ten (10) feet will require multiple probes every seven and one-half (7.5) foot centers.
 - Depth. Trench backfill less than eight (8) feet in depth shall be probed to a depth extending to half the depth of the trench backfill, but not less than three (3) feet. Trench backfill greater than eight (8) feet in depth shall be probed to half the depth of the trench backfill but not greater than eight (8) feet.
 - Equipment. The jetting probe shall be a metal pipe with an exterior diameter of one and one-half (1.5) to two (2) inches.
 - Method. Jetting shall be performed from the low surface topographic point and proceed toward the high point, and from the bottom of the trench backfill towards the surface. The flooding of each jetting probe shall be started slowly allowing slow saturation of the soil. Water is not allowed to flow away from the ditch without first saturating the trench.
 - Surface bridging. The contractor shall identify the locations of the surface bridging (the tendency for the upper backfill crust to arch over the trench rather than collapse and consolidate during the jetting process). The contractor shall breakdown the bridged areas using an appropriate method such as wheels or bucket of a backhoe. When the surface crust is collapsed, the void shall be backfilled with the same material used as trench backfill and jetted. Compaction of the materials within the sunken/jetted area shall be compacted such that no further surface subsidence occurs.

NOTE: IF FABRIC IS INSTALLED BY EQUIPMENT DESIGNED TO SLICE INTO THE GROUND, THE TRENCH IS NOT REQ'D.

JOINING SECTIONS OF SILT FENCE



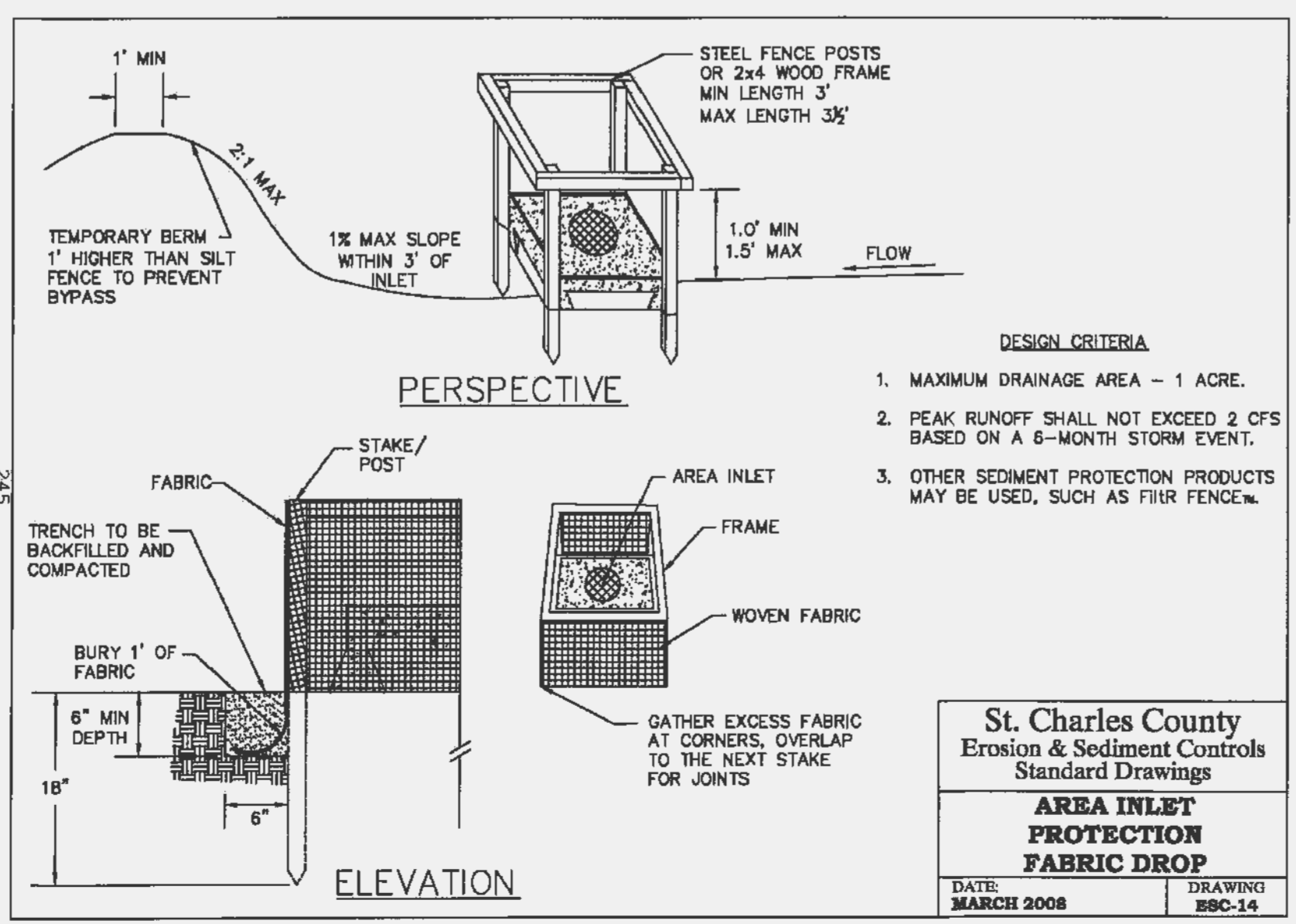
DESIGN NOTES

- DIVERT ALL RUNOFF TO A SEDIMENTATION CONTROL DEVICE.
- PROVIDE WATER SUPPLY FOR WASHDOWN. (WATER TRUCK TO BE UTILIZED FOR WASHDOWN OF VEHICLE)

St. Charles County Erosion & Sediment Controls Standard Drawings

CONSTRUCTION TRAFFIC WASH-OFF PAD

DATE: APRIL 2008 DRAWING: EBC-4



St. Charles County Erosion & Sediment Controls Standard Drawings

AREA INLET PROTECTION FABRIC DROP

DATE: MARCH 2008 DRAWING: EBC-34

Table 60-6 Soil Amendment Rates

Soil Amendment Material	Application Rate (Lb per Acre)
Fertilizer Nitrogen (N)	30 ¹
Phosphate (P ₂ O ₅)	90 ¹
Potash (K ₂ O)	90 ¹
Lime	1,000 ²

¹Increase the rate by 25% for slopes steeper than 5:1.
²Rate is in effective neutralizing material (ENM) units.

Table 60-9 Mulching Materials

Material	Rate	Requirements	Installation/Uses
Straw	1.5-2.5 tons/ac (3-4 tons, if roller punched)	Dry, unchopped, unweathered, free of weed seeds & rot.	Spread by machine 1.5-2.5 inches deep; must be tacked or tied down.
Compost Blanket	1" thick	Double the application rate for embankments.	Follow manufacturer's application method.
Wood fiber, wood cellulose, paper	1-2 tons/ac	Double the application rate in critical areas.	Use with power mulcher or hydroseeder; may be used to tack straw on steep slopes. Cannot be used in hot dry weather.

Table 60-7 Temporary Fall Seeding

Plant Species	Rate ¹ (lb/acre)	Seeding Times
Side-Oats	65	8/16 - 9/30
Winter Rye	50	8/01 - 10/15
Winter Wheat	60	8/01 - 10/15
Orchard Grass	120	8/01 - 10/15
Perennial Ryegrass	80	8/01 - 10/15
Tall fescue, Smooth Bromes	80	8/01 - 10/15
K-31 Fescue	120	9/01 - 11/15
Ladino Clover	2 ²	8/15 - 9/15
Crimson Clover	6 ²	8/15 - 9/15
Orchard Grass and Oats or Rye	15 ² / 40 ²	8/15 - 9/15

¹If using aerial seeding or other broadcast method to apply seed without rolling or culti-packing, increase seeding rates by 50 percent.
²Pure live seed (PLS)

Table 60-8 Temporary Spring Seeding

Plant Species	Rate ¹ (lb/acre)	Seeding Dates
Winter Rye	50	3/15 - 5/31
Spring Oats	65	3/15 - 5/31
Annual Ryegrass	4 ²	3/15 - 6/15
Sudangrass	16 ²	4/15 - 6/15
K-31 Fescue	30 ²	3/15 - 5/31
Red Clover	2 ²	3/15 - 5/31
Oats	30 ²	3/15 - 5/31

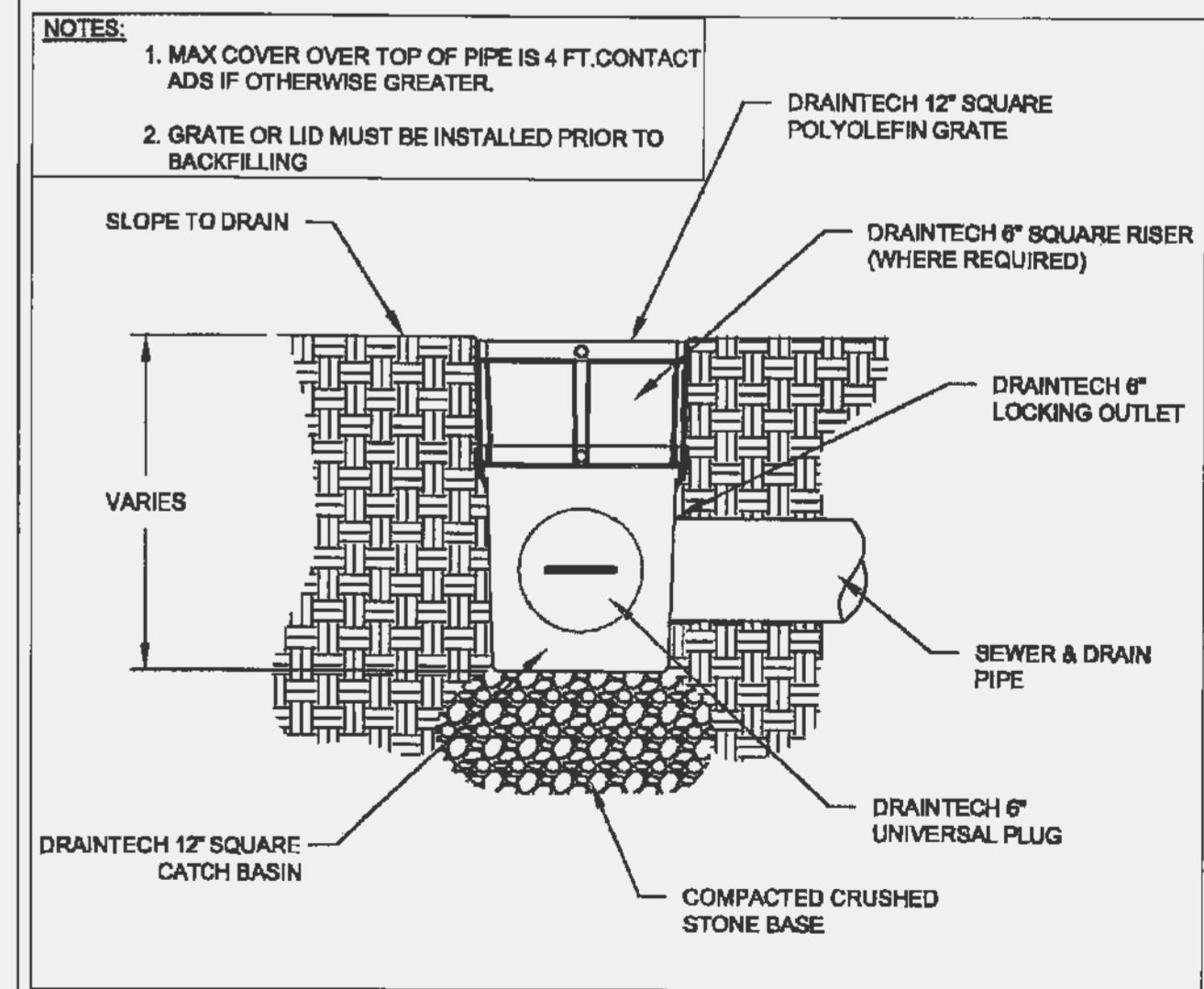
¹If using aerial seeding or other broadcast method to apply seed without rolling or culti-packing, increase seeding rates by 50 percent.
²Pure live seed (PLS)

Table 60-5 Soil Stabilization Schedule

Soil Disturbance Activity or Condition	Required Stabilization Time
Soil disturbance has ceased in areas greater than 2,000 square feet.	14 days
After construction of dikes, swales, diversions, and other concentrated flow areas.	5 days
When slopes are steeper than 3 horizontal to 1 vertical.	7 days
When slopes are greater than 3% and longer than 150 feet.	14 days
Perimeter controls around soil stockpiles.	End of workday
Stabilization or covering of inactive stockpiles.	30 days
When land disturbance is completed, permanent soil stabilization must be installed.	30 days

PERMANENT SEEDING SPECIFICATIONS SHALL CONFORM TO NRCS CONSERVATION PRACTICE STANDARD & SPECIFICATIONS FOR SEEDING.

CODE 340 "COVER CROPS"
CODE 345 "CRITICAL AREA PLANTING"
CODE 484 "MULCHING"
CODE 590 "NUTRIENT MANAGEMENT"
CODE 723 "VEGETATION ESTABLISHMENT, HERBACIOUS SEEDING"



NO.	DESCRIPTION	DATE	BY	CHECKED
1	UPDATED DRAWING	TJR	09/19/07	CJK
REV.				

DRAINTECH 12" SQUARE W/REINFORCING, POLYURETHANE GRATE (LANDSCAPE APP.)
DRAWING NUMBER: STD-11048

480 TRELEMAN BLVD
HELLAND, OHIO 43028

DATE: 06-22-08
JOB: NTS
OF:

ADVANCED DRAINAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

ITG EYECARE OFFICE
1138 TOM GINNEVER AVE.
OFALLON, MISSOURI 63376

PRS PROJECT # 01212.COMS.01R
DRAWN: C.L.
CHECKED: D.T.
11/11/13

PICKETT, RAY & SILVER, INC.
CIVIL ENGINEERING, LAND SURVEYING,
AND NATURAL RESOURCES SERVICES

Branson, MO 65616
3027 W. Hwy 76, Suite B
St. Peters, MO 63376
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www.prs3.com

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MISSOURI LICENSE #000328

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
CHRISTINE A. LOOK
LICENSE NUMBER 2000180037
EXPIRES 12/31/14

CHRISTINE A. LOOK
PROFESSIONAL ENGINEER LICENSE 2000180037

Developer / Owner Information

CONTACT: MR. DOUG CROSS
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PHONE: (314) 651-3489

ITG EYECARE OFFICE

EROSION DETAILS

P+Z No. Approval Date 06-06-2013
City No.
Page No.