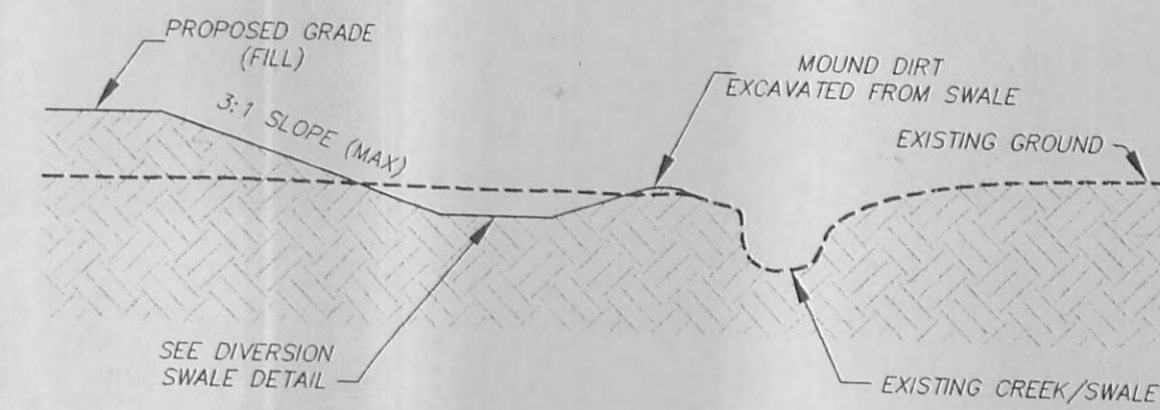


CONSTRUCTION SPECIFICATIONS

1. Stone Size: Use 2" stone or reclaimed or recycled concrete equivalent.
2. Length: As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum length would apply).
3. Thickness: Not less than six (6) inches.
4. Width: twenty six (26) foot minimum, but not less than the full width at points where ingress or egress occurs.
5. Filter Cloth: Will be placed over the entire area prior to placing of the stone. Filter will not be required on a single family residence lot.
6. Surface Water: All surface water flowing or diverted toward construction entrances shall be piped across the entrance. If piping is impractical, a mountable berm with a 5:1 slope will be permitted.
7. Maintenance: The entrance shall be maintained in a condition which will prevent tracking or flowing of sediment onto a public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment. All sediment spilled, dropped, washed or tracked onto the public right-of-way must be removed immediately.
8. Washing: Wheels shall be cleaned to remove sediment prior to entrance onto the public right-of-way. When washing is required, it shall be done on an area stabilized with stone and which drains into an approved sediment trapping device.
9. Periodic inspection and needed maintenance shall be provided after each rain.

STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



TYPICAL TEMPORARY DIVERSION SWALE

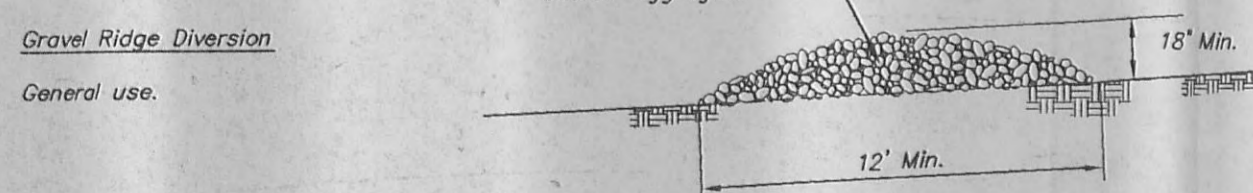
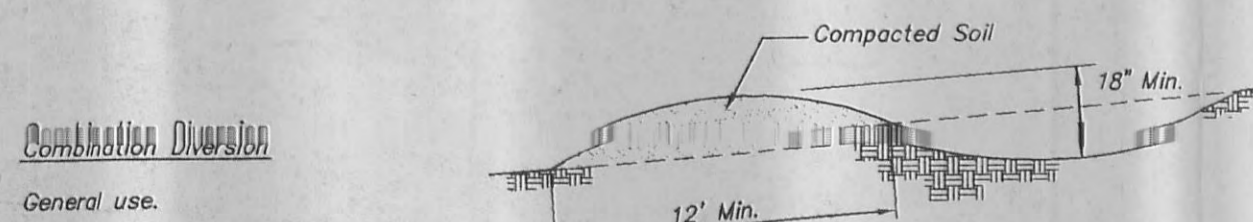
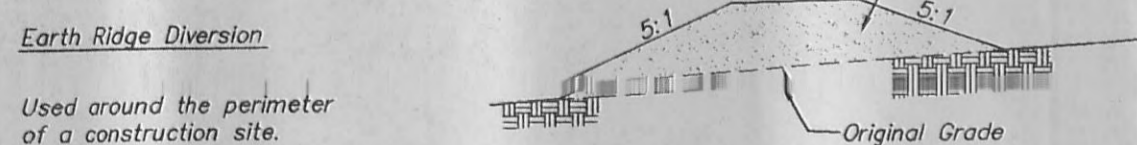
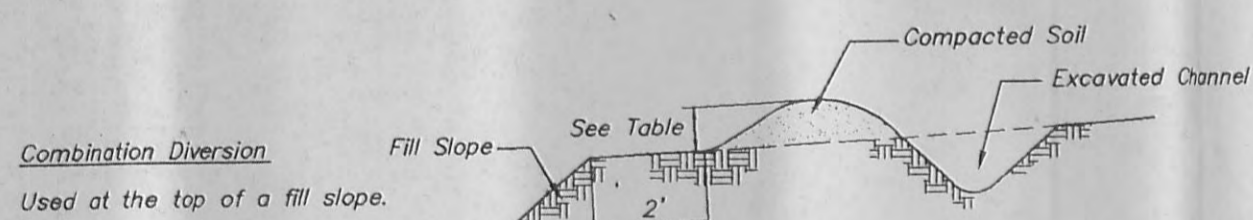
SWALE IS TO BE SEEDED.

APPENDIX A

**Seeding Rates:**  
**Permanent:**  
 Tall Fescue - 30 lbs./ac.  
 Smooth Brome - 20 lbs./ac.  
 Combined: Fescue @ 15 lbs./ac. and Brome @ 10 lbs./ac.  
**Temporary:**  
 Wheat or Rye - 150 lbs./ac. (3.5 lbs. per square foot)  
 Oats - 120 lbs./ac. (2.75 lbs. per square foot)  
**Seeding Periods:**  
 Fescue or Brome - March 1 to June 1  
 August 1 to October 1  
 Wheat or Rye - March 15 to November 1  
 Oats - March 15 to September 15  
**Mulch rates:** 100 lbs. per 1,000 sq. ft. (4,356 lbs. per acre)  
**Fertilizer rates:**  
 Nitrogen 30 lbs./ac.  
 Phosphate 30 lbs./ac.  
 Potassium 30 lbs./ac.  
 Lime 600 lbs./ac. ELM\*  
 \*ENM = effective neutralizing material as per State evaluation of quarried rock.

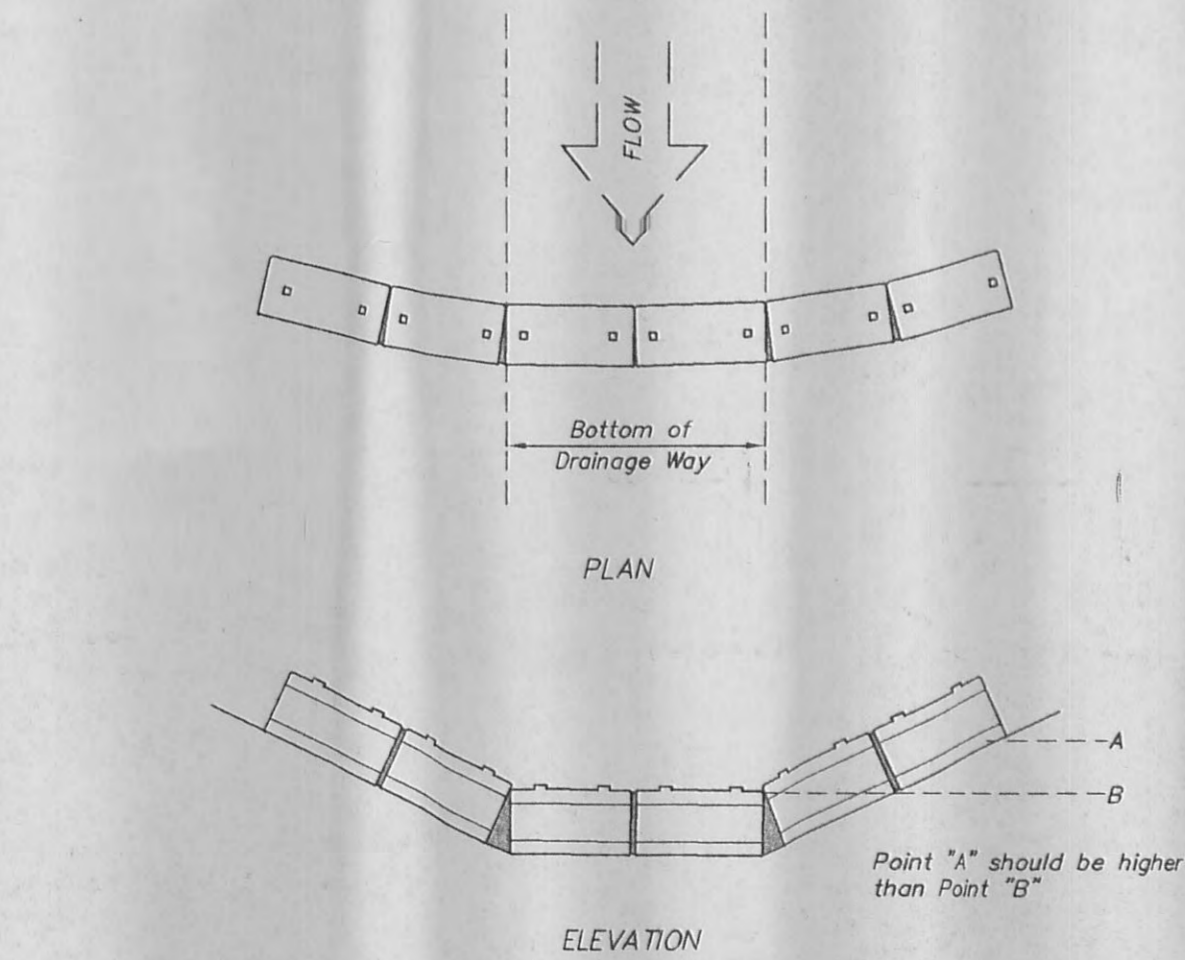
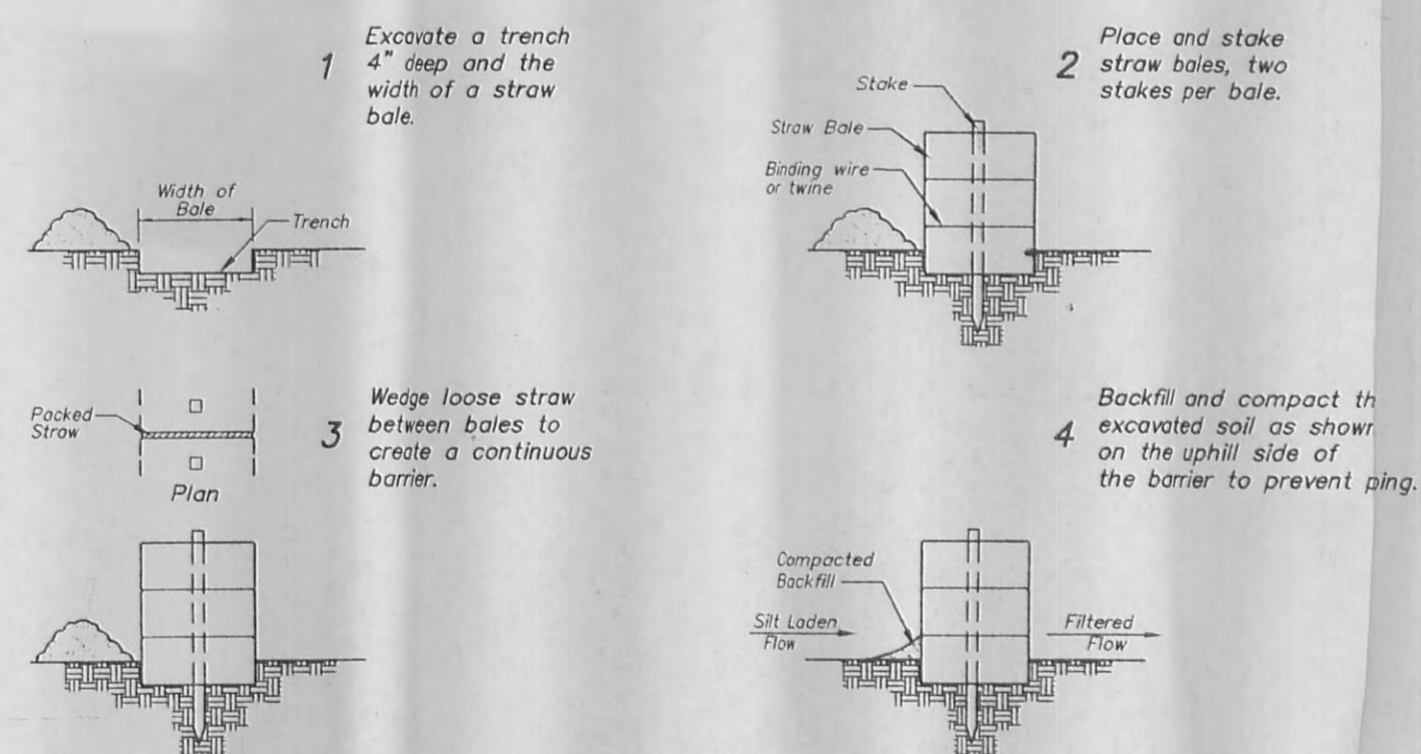
DIVERSIONS  
For Urban Development Sites

Outlets for diversions must be stable. Stable outlets consist of grass waterways, earthen channels with capacity adequate to prevent gully erosion, grade stabilization structures or other practices as approved by the Designated Official.



STRAW BALE BARRIERS  
For Urban Development Sites

APPENDIX C



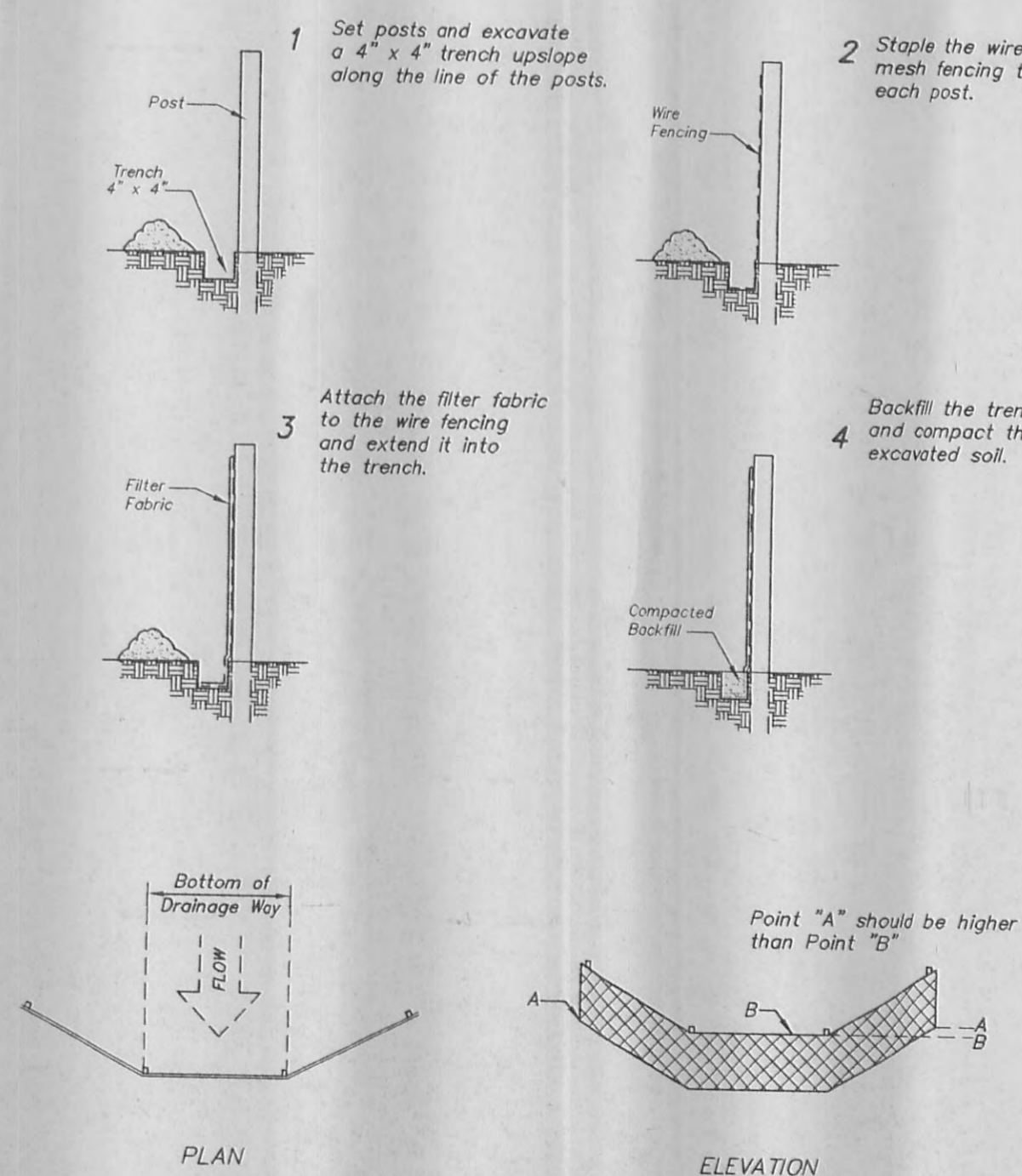
Placement and Construction of a Straw Bale Barrier

SYNTHETIC FILTER BARRIERS  
For Urban Development Sites

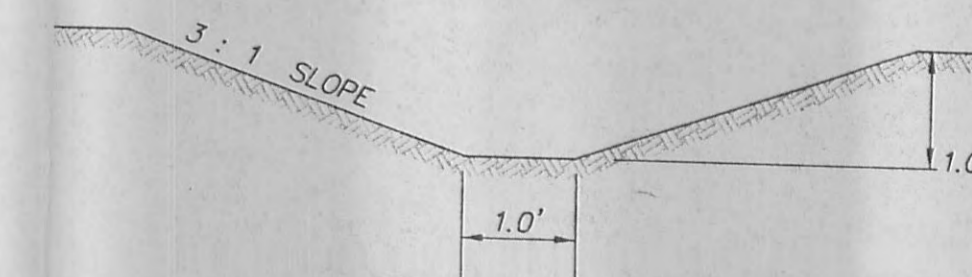
APPENDIX D

MAINTENANCE

1. Filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
2. Should the fabric decompose or become ineffective prior to the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
3. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately half the height of the barrier.
4. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.



Placement and Construction of a Synthetic Filter Barrier



DIVERSION SWALE

N.T.S.  
 $n = 0.02$   
 SWALE @ 1.0% -  $Q = 19.86$  c.f.s.  
 SWALE @ 10.0% -  $Q = 62.79$  c.f.s.

**PICKETT RAY & SILVER**  
 CIVIL ENGINEERS  
 PLANNERS  
 LAND SURVEYORS  
 333 Mid Rivers Mall Drive  
 St. Peters, MO 63376  
 Phone (636) 397-1211  
 Fax (636) 397-1104

Lot 2 of Quicktrip  
 Detail Sheet  
 Prepared For:  
 Mr. Dean Jackson  
 206 Forest Acres  
 O'Fallon, MO 63366  
 636-340-7088

| REVISIONS | NO. | DATE |
|-----------|-----|------|
|           |     |      |
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**ENGINEERS AUTHENTICATION**  
 The responsibility for professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature, and date hereinafter attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.  
 PICKETT, RAY & SILVER, INC

|           |                |            |          |
|-----------|----------------|------------|----------|
| DRAWN     | JML            | DATE       | 4-2-02   |
| CHECKED   | X.X.X.         | DATE       | XX/XX/XX |
| PROJECT # | 01045.DEJA.00R | FIELD BOOK | X        |

NOT APPROVED FOR CONSTRUCTION