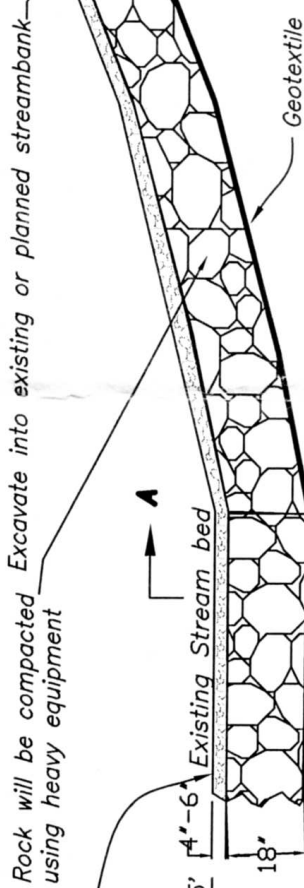


Surface of Stream Ford
 Surface of Stream Ford shall be compacted with heavy equipment to obtain a surface suitable for driving/walking.

Rock will be compacted using heavy equipment



Elev. 79.5'

Existing Stream bed

4'-6"

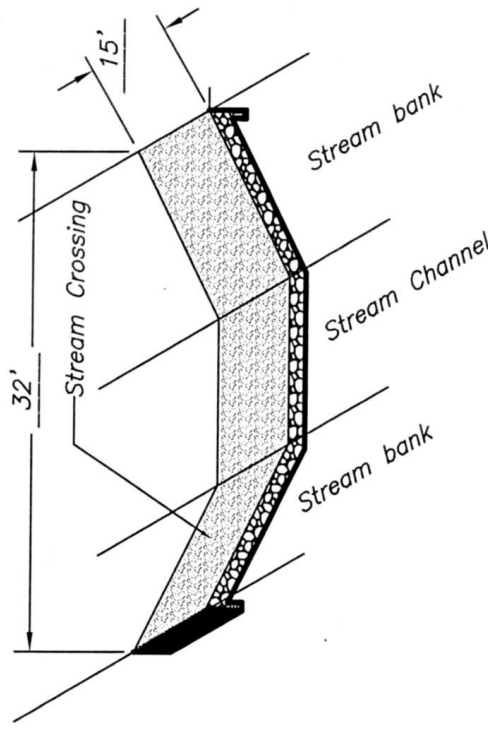
18"

12" Deep Anchor Trench

Geotextile

12" deep anchor trench for geotextile.

Half - Profile



32'

Stream Crossing

15'

Stream bank

Stream bank

Stream Channel

15 feet wide

8' to 12' wide for cattle fords

12' to 18' wide for road way

Level with existing streambed

4"-6"

4"-6" of bank run gravel suitable for a walking/driving surface.

4"-6"

18"

Geotextile under rock

Approx. 11.3 feet

Section A-A

Geotextile

NOT TO SCALE

NOTES:

1. Geotextile fabric shall be non-woven, needle punched with minimum weight of 9 ounces per square yard. Geotextile shall be anchored in a trench at top of ramp slope. Trench shall be 12 inches deep and be backfilled with compacted soil. Splices in geotextile shall be made by overlapping 18 inches and securely pinning to ground.
2. To prevent damage, all geotextile will be covered with rock the same day as placed.
3. The material for the rock crossing will be durable stone containing a combined total of not more than 10 percent fines (<1/2" diameter) and at least 40% of the mass shall be pieces having a volume of one cubic foot or more. MO-DOT Type I rock blanket will fit this criteria. Acceptance will be by visual inspection on the job.
4. Place 4"-6" of bank run gravel on top of rock. Surface will be compacted with equipment and be suitable for a walking/driving surface. Final crossing surface will be level with stream bed.
5. Excavated material shall be removed from site or placed at least 12 feet from top edge of back slope and spread so that its height does not exceed 2 feet. It shall have a free draining surface and side slopes shall be 3:1 or flatter.
6. All disturbed areas not covered by gravel shall be seeded in accordance with JS-Agron-25 or equivalent.
7. Corps of Engineer's permit may be required prior to installation. Contact your local NRCS for contact information.

ESTIMATED QUANTITIES

Item	Acres	Tons	sq. yd.	Acres	cu. yd.
Clearing and Grubbing	NA				
Rock Riprap (Bottom Layer)		36.4			
Bedding (Top Layer)		10.6			
Geotextile Fabric		73.8			
Seeding	NA				
Excavation		25.9			

Quantity Notes:

- 1) All quantities approximate. Site changes may require adjustments.
- 2) One (1) cubic yard of rock is considered to be equivalent to 1.4 tons.