



Stream Crossing Profile  
(On centerline of crossing)

Scale:  
Horizontal 1"=  Vertical 1"=

- Stream Crossing Design Notes
1. The slope of the approaches (ramps) shall be 6:1 or flatter. (8:1 is recommended)
  2. If livestock will have access to the side slopes, then the side slopes shall be armored. If fencing will restrict livestock access, the side slopes may be seeded. Grade side slopes to 3:1 or flatter if they are to be seeded. Grade side slopes to 2:1 if they are to be armored. Armoring shall consist of 6 inches of VDOT #1 (2" to 4") stone over geotextile.
  3. If necessary to provide a solid bottom at the crossing, the existing streambed shall be excavated to the depth of the selected Typical Stone Layer (on Sheet 2). Any stone placed to harden the channel bottom must be installed below the existing natural grade of the stream.
  4. If no stone is needed to harden the stream bottom, then the stone on the ramps shall be placed so that the ramps blend naturally into the streambed. A 2'x2' rock key may be placed at the end of each ramp to provide toe protection. Do not place any stone that will obstruct the natural flow path of the stream.
  5. Excavated material shall be spread outside of the floodplain.
  6. Geotextile shall meet the Class I requirements for nonwoven geotextile in Virginia Construction Specification VA-795 Geotextiles. Class II may be used with engineers approval.
  7. Seed all disturbed areas according to the Attachment to Virginia Construction Specification VA-706. Seeding.

VIRGINIA ENGINEERING STANDARD DRAWING			
Standard Drawings shall NOT be altered without DCR approval		Standard Drawings shall NOT be altered without DCR approval	
Amended Permitting, PE, DCR Ag, BMP Engineer		Standard Drawings shall NOT be altered without DCR approval	
STANDARD DWS NO.		VA-SO-801, Stream Crossing	
DATE	03/11	SHEET	1 OF 2

Revisions			
Version	Date	Approved By	Title



This drawing adapted from NRCS Standard Drawing VA-SO-801 v2.1.1

Drawing Name

Sheet  of

Stream Crossing Detail

Designed

Drawn

Checked

Approved

Date

