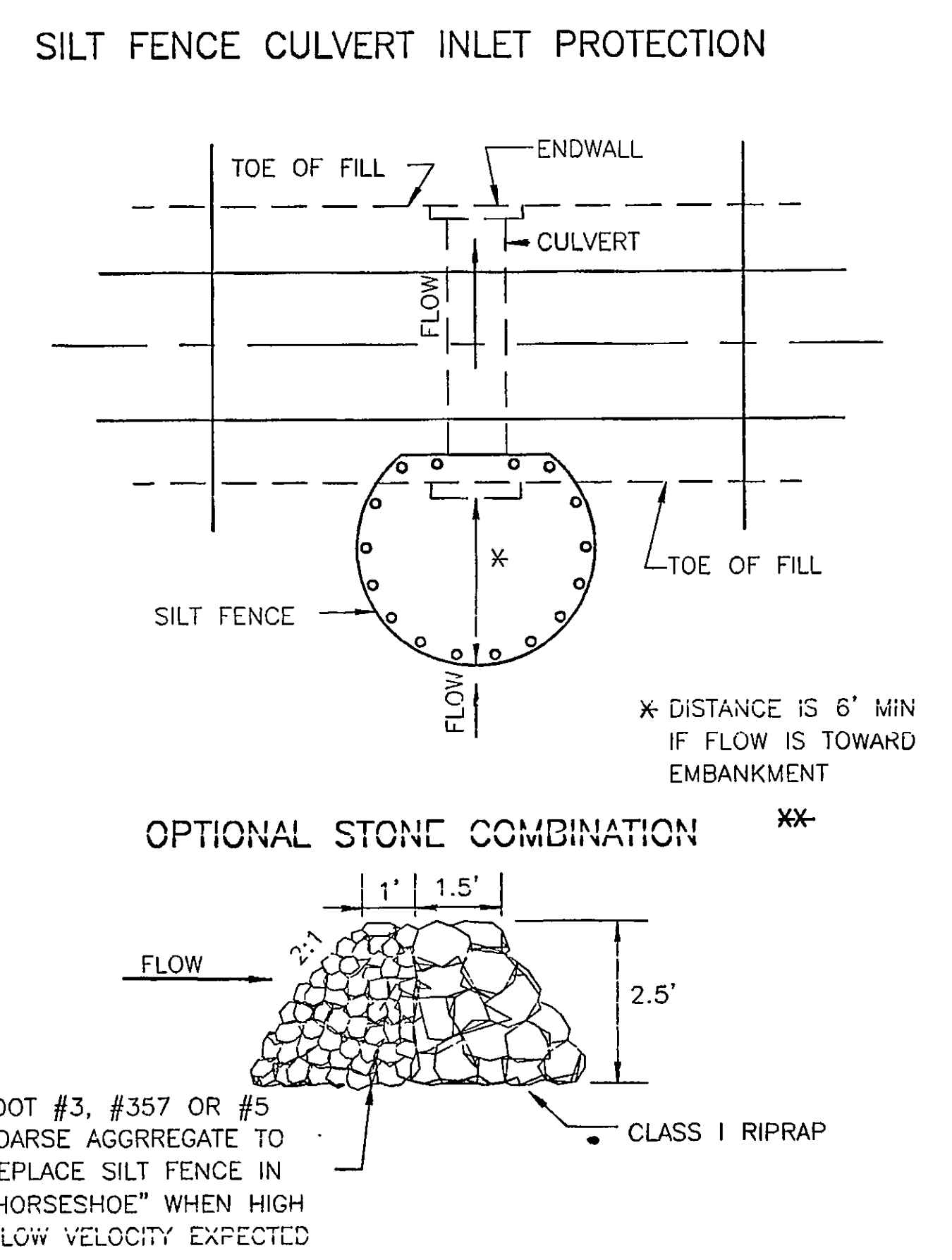
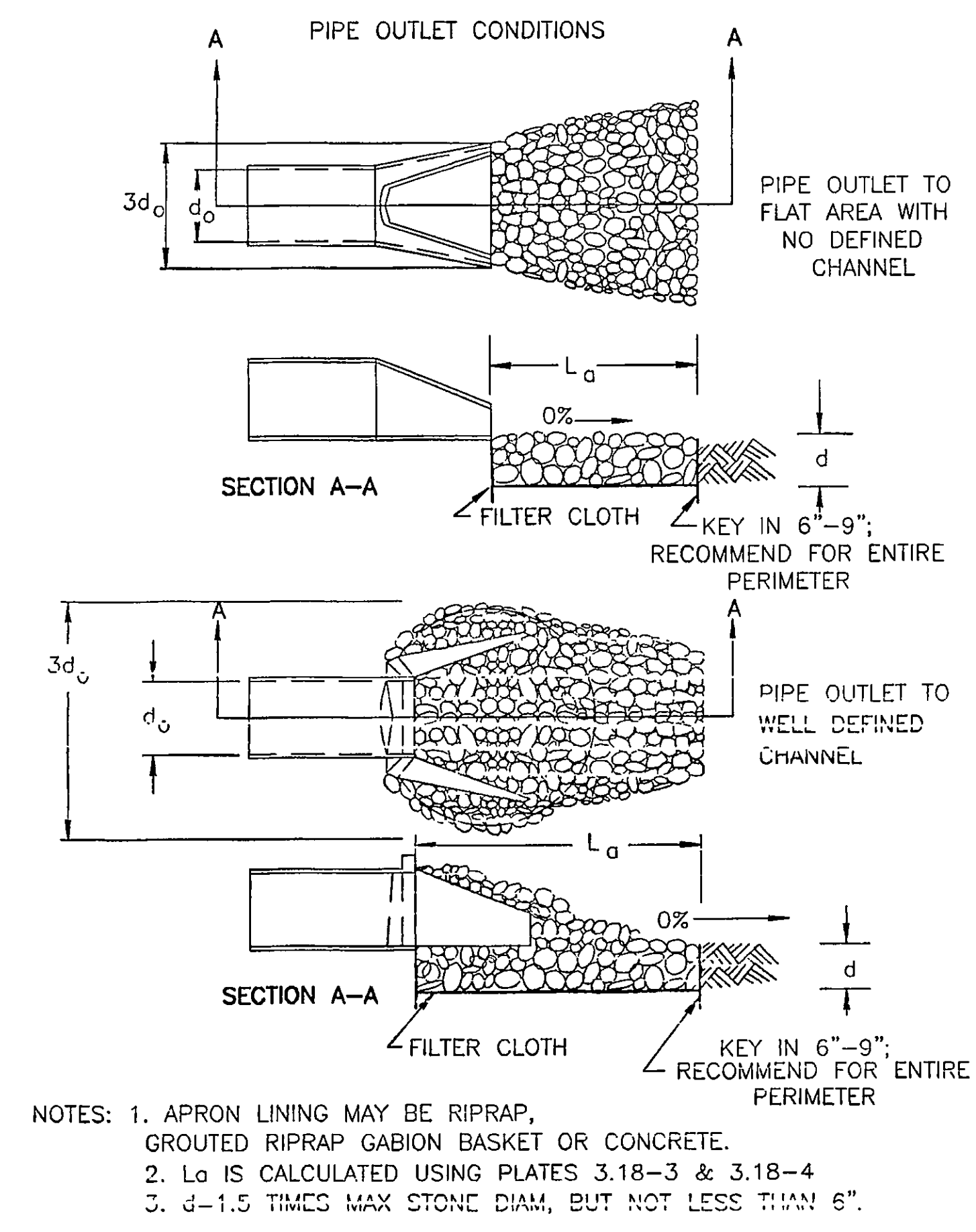
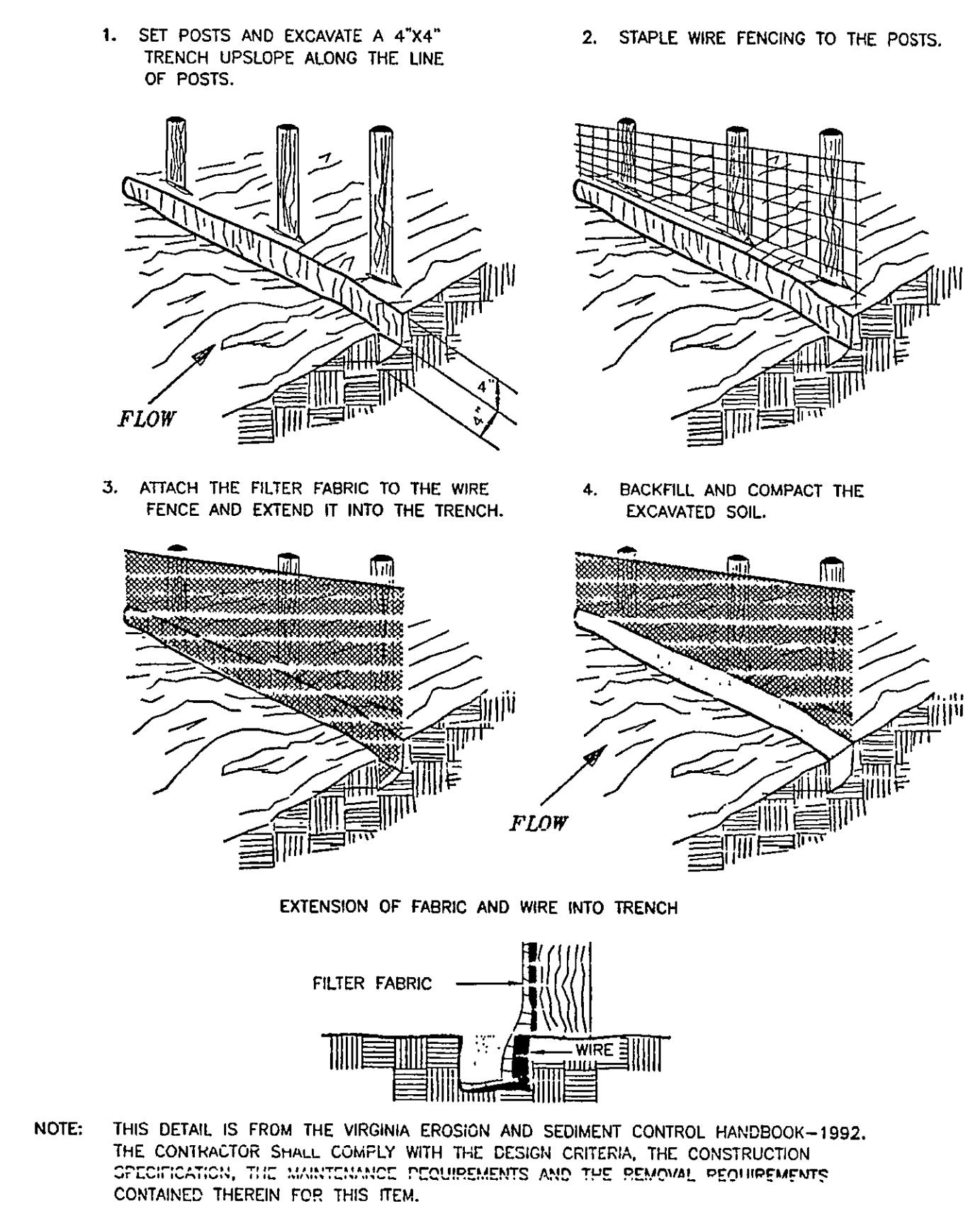
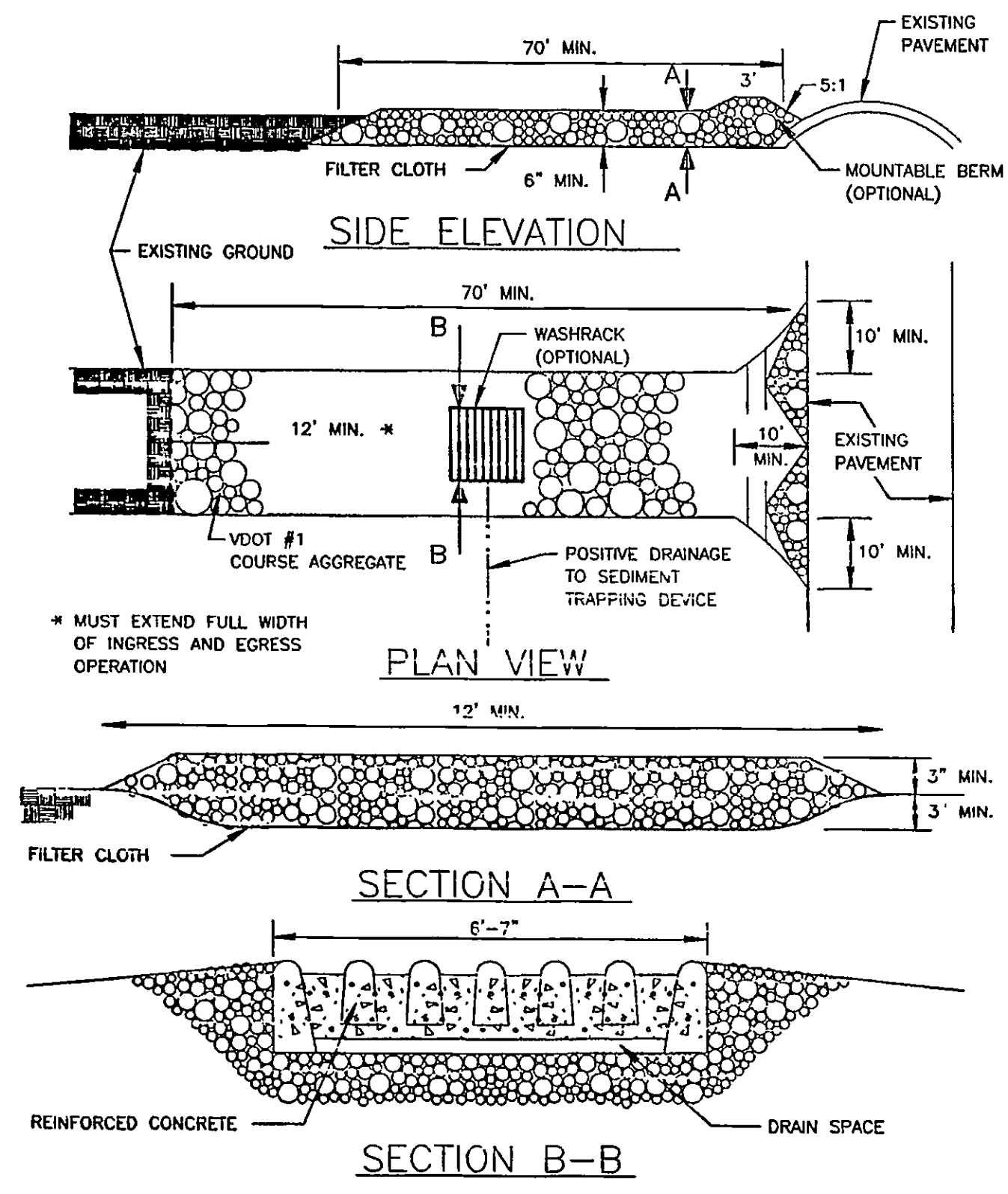


Brambleton Ave. Bridge Replacement
Rural Drains

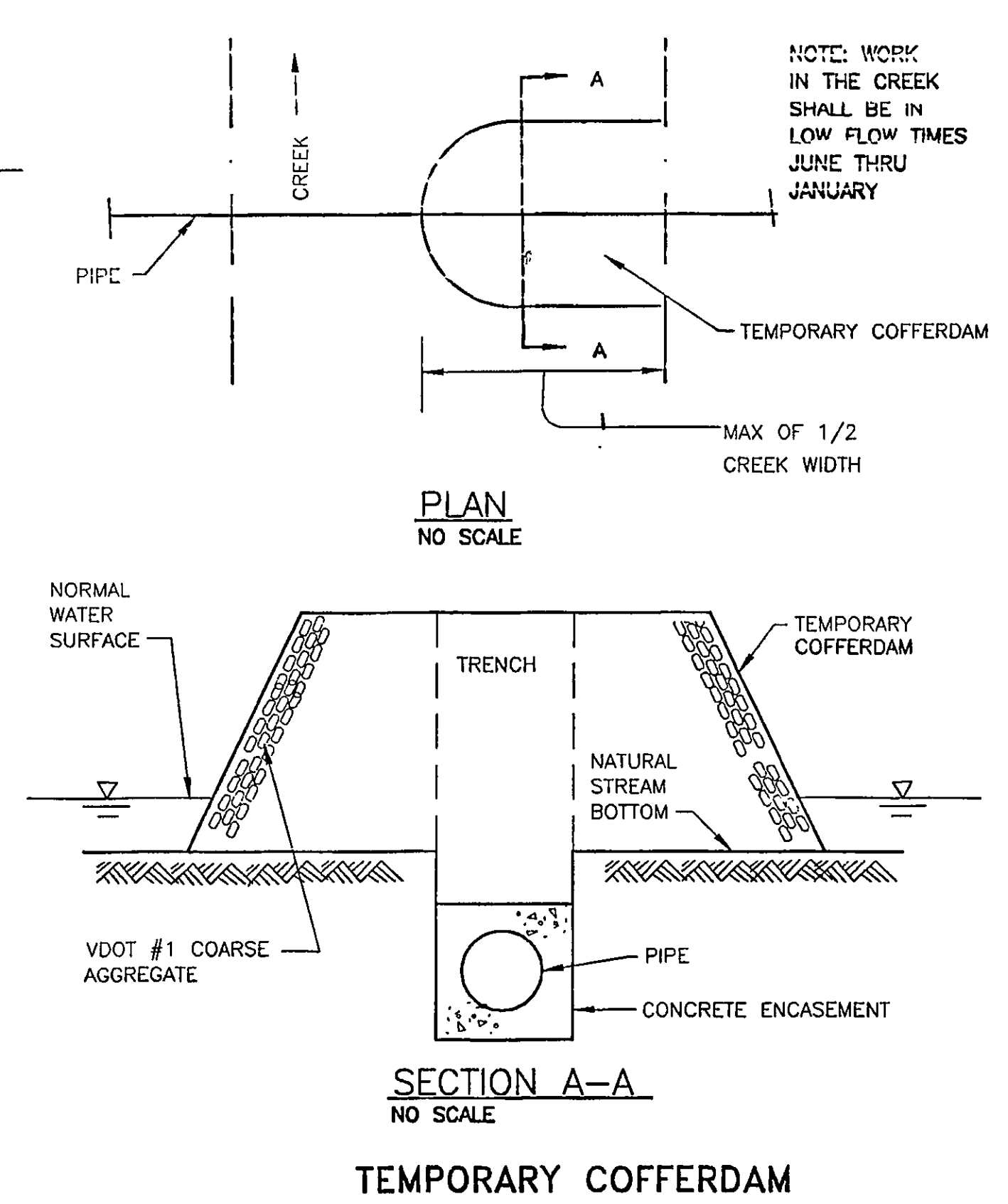
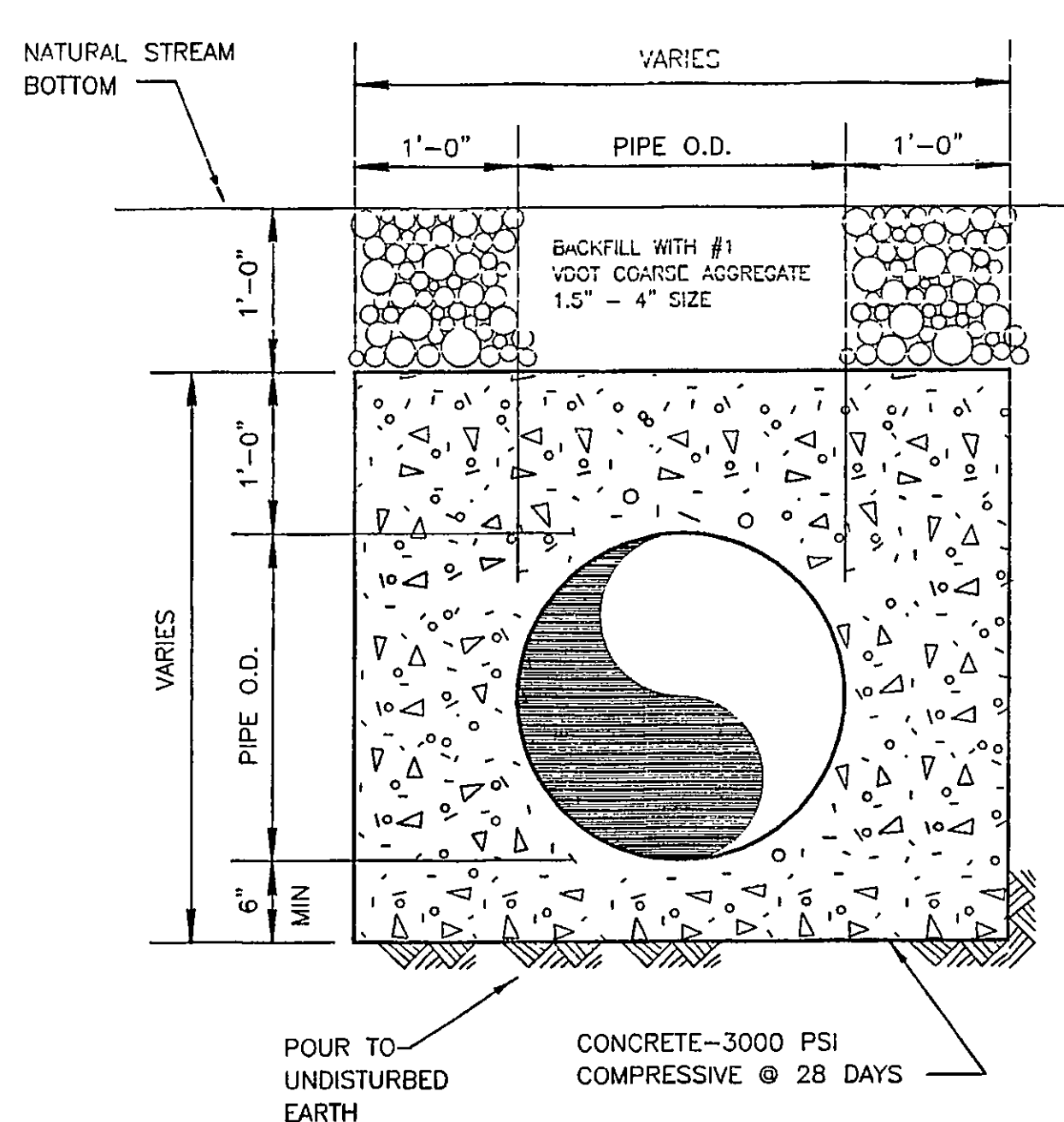
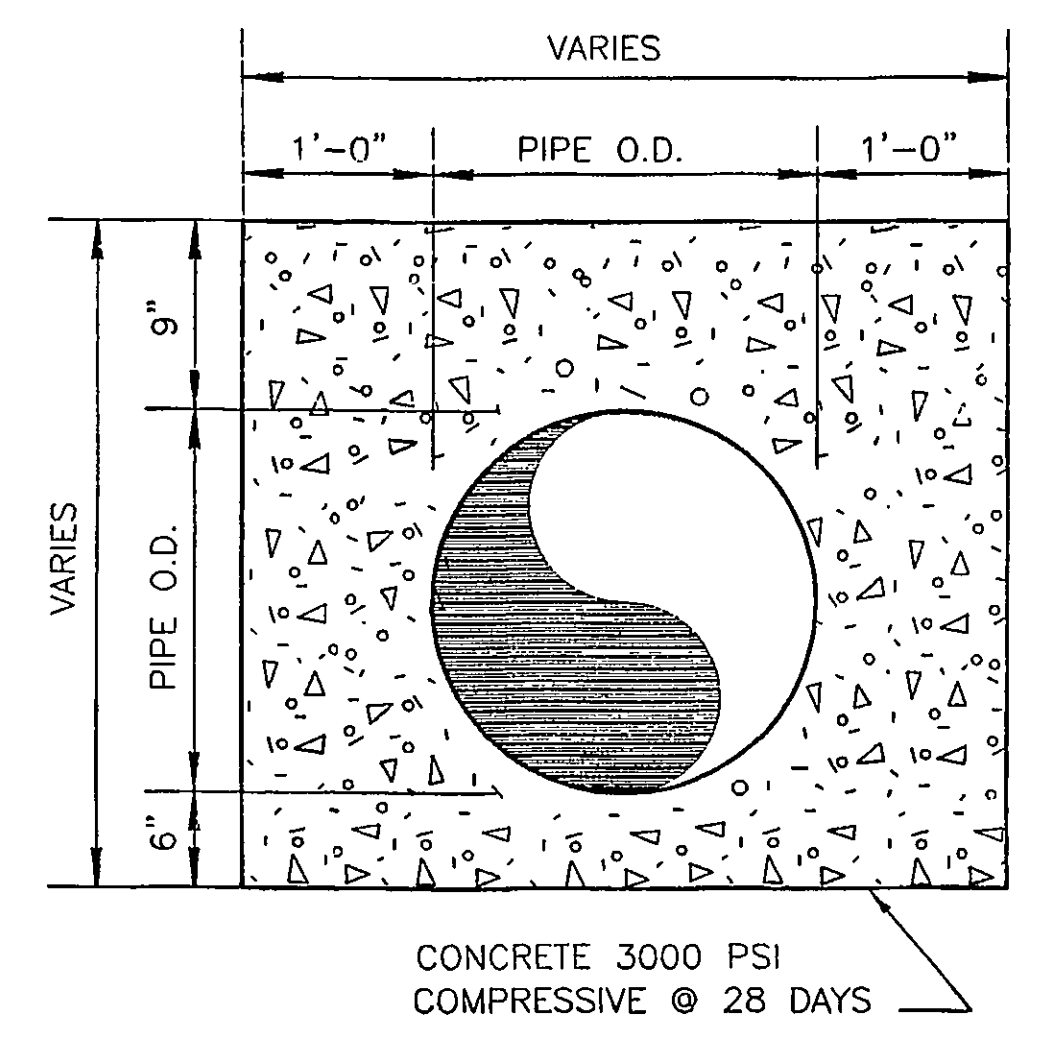
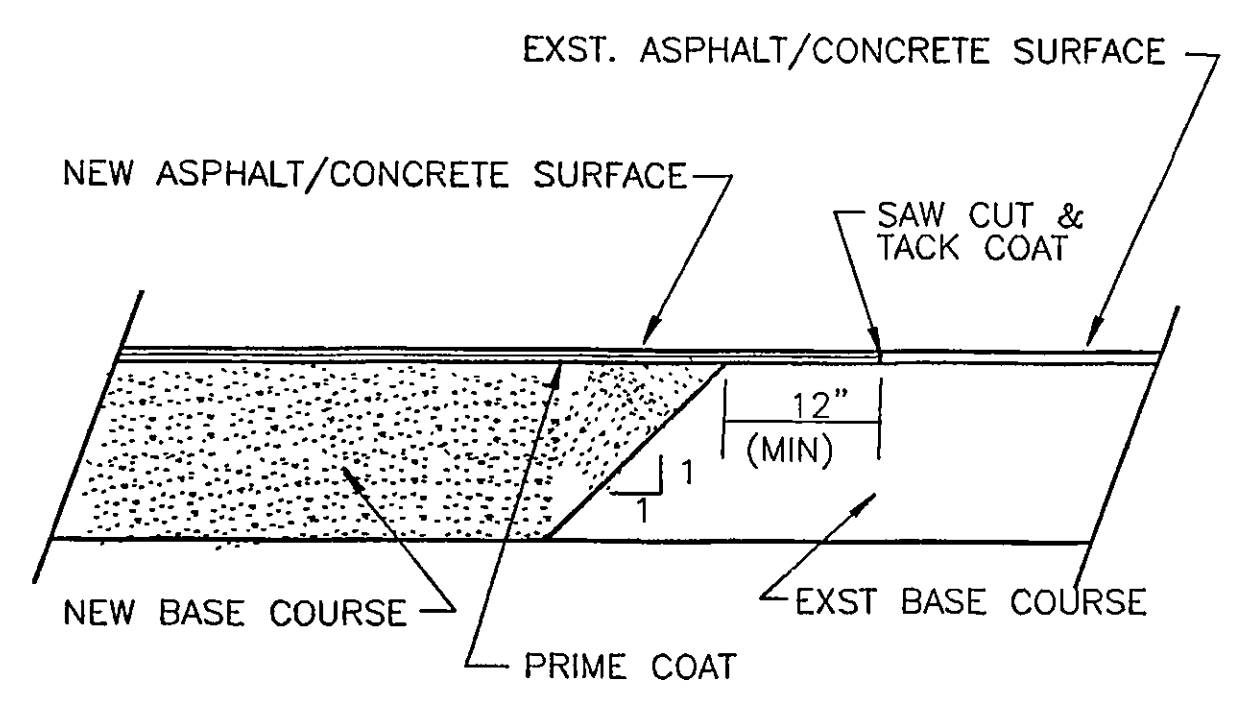
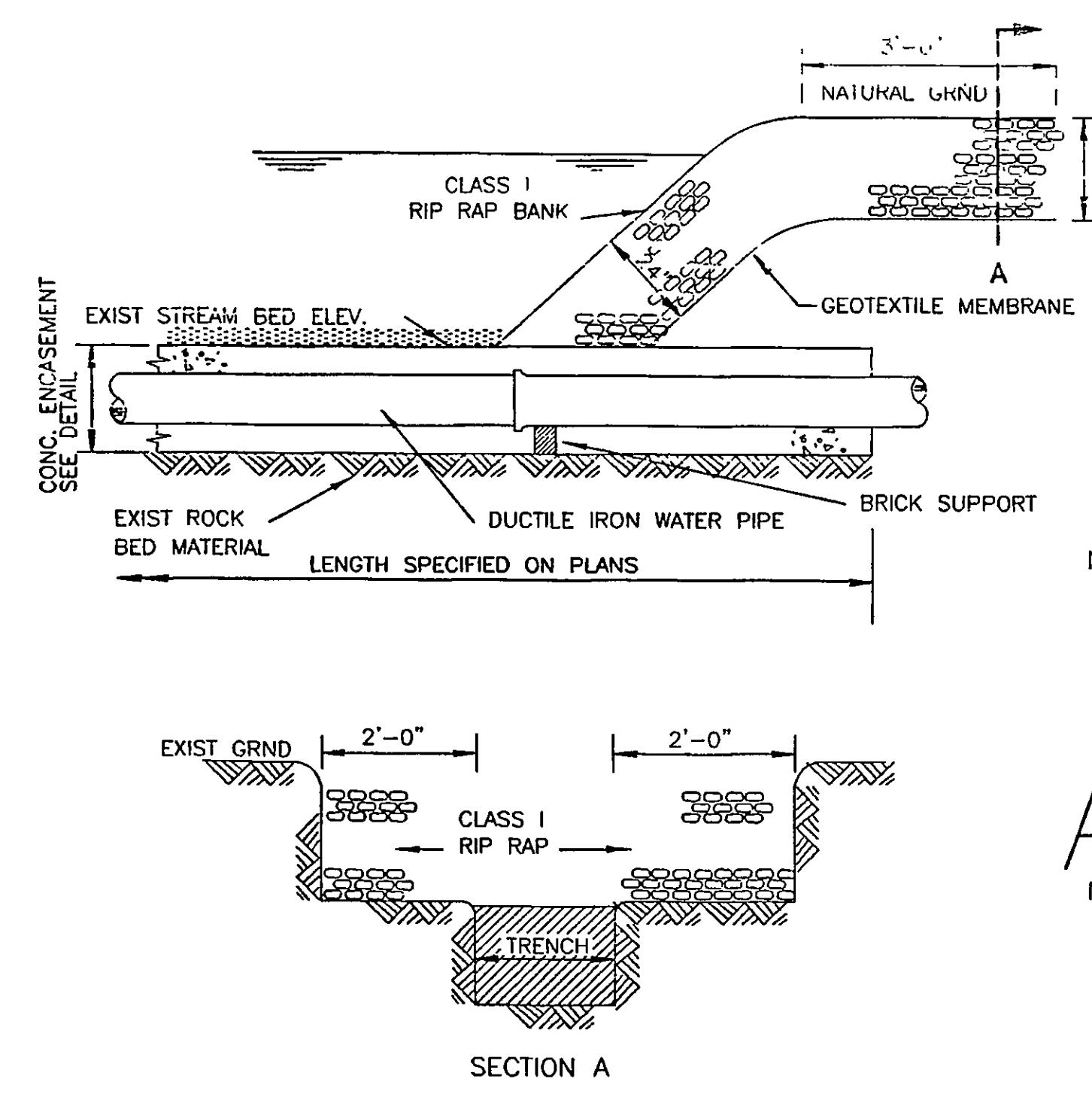


STONE CONSTRUCTION ENTRANCE

SILT FENCE

OUTLET PROTECTION

CULVERT INLET PROTECTION



NOTE: THE TOPS OF ALL WATER LINES ENTERING OR CROSSING STREAMS SHALL BE AT A SUFFICIENT DEPTH BELOW THE NATURAL BOTTOM OF THE STREAM BED TO PROTECT THE WATER LINE. IN GENERAL, ONE FOOT OF SUITABLE COVER SHALL BE PROVIDED WHERE THE STREAM IS LOCATED IN ROCK AND 2 FEET OF SUITABLE COVER IN OTHER MATERIAL.

TYPICAL CREEK CROSSING AND BANK PROTECTION

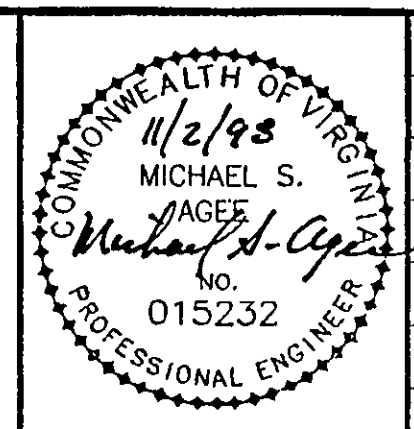
SINGLE PIPE ENCASEMENT

SINGLE PIPE ENCASEMENT
STREAM CROSSING

TEMPORARY COFFERDAM

MA Mattern & Craig
CONSULTING ENGINEERS • SURVEYORS
701 FIRST STREET, S.W.
ROANOKE, VIRGINIA 24016
(540) 345-9342
(540) 345-7691 FAX

DESIGNED:	JMB
DRAWN:	DSG
CHECKED:	MSA



REV.	DATE	DESCRIPTION	BY	APP.

DATE
NOVEMBER 1998
COMM. NO.
1440A

**BRAMBLETON AVENUE BRIDGE
REPLACEMENT PROJECT
CITY OF ROANOKE, VIRGINIA**

MISCELLANEOUS DETAILS