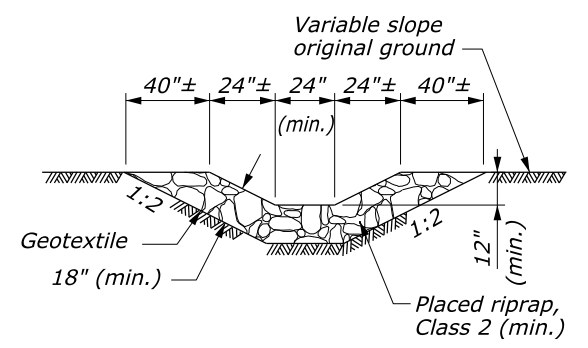
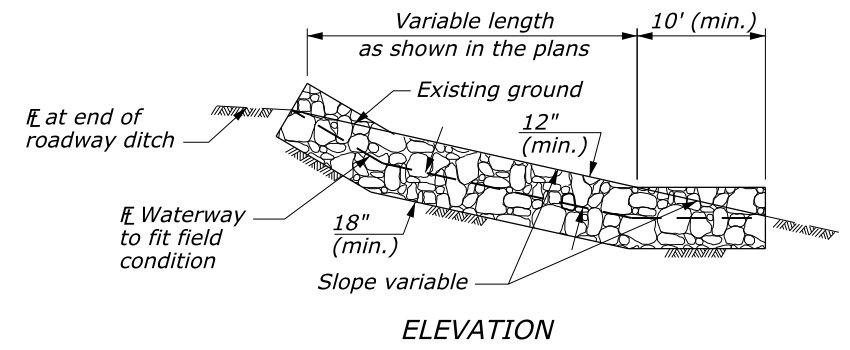
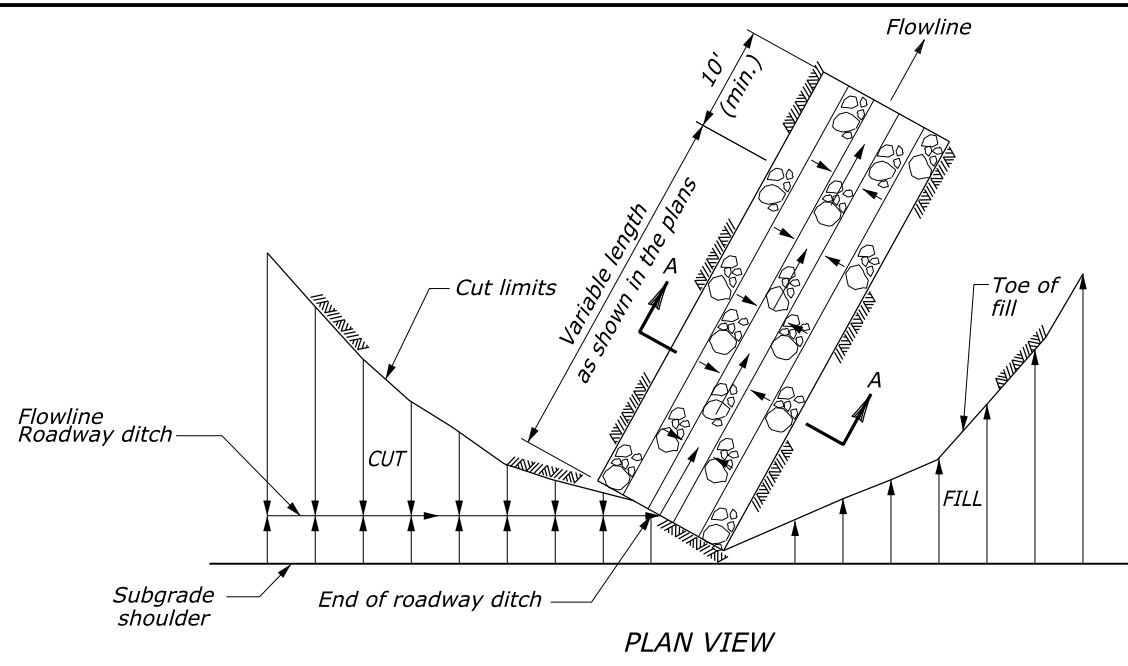


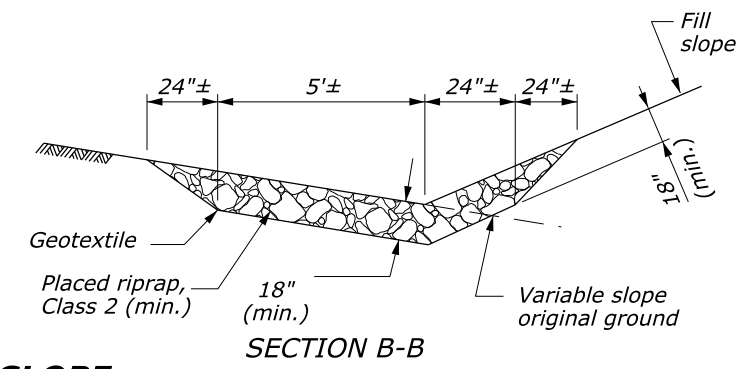
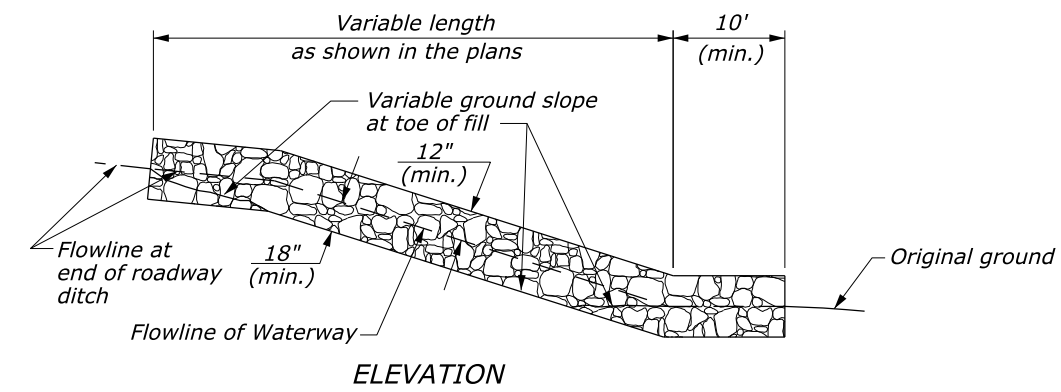
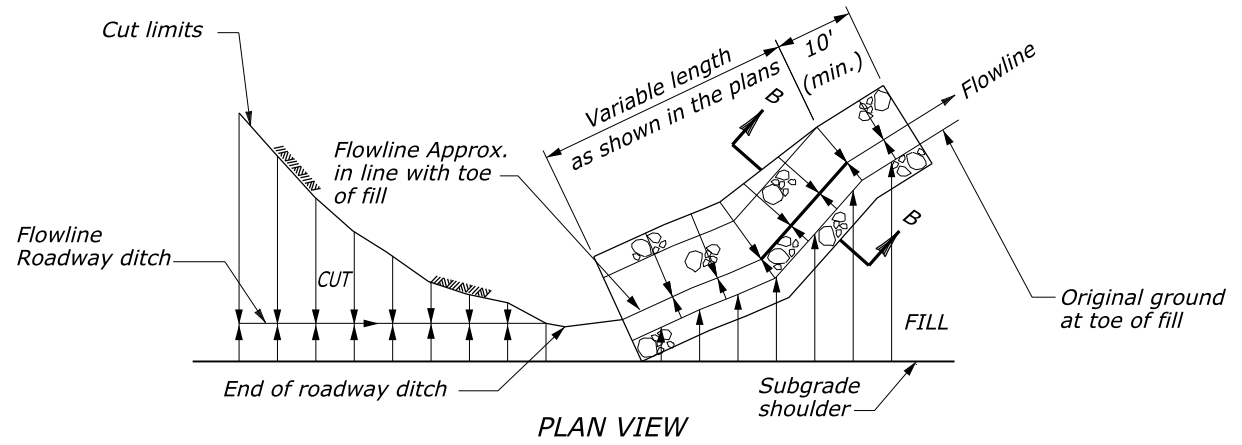
NOTE:

1. Excavation for placement of riprap will not be measured for payment.
2. Furnish geotextile materials conforming to Subsection 714.01 (a).



TYPE 1 - NOT CONTIGUOUS TO FILL SLOPE
($Q_{max} = 5$ cfs)

SECTION A-A



TYPE 2 - CONTIGUOUS TO FILL SLOPE
($Q_{max} = 5$ cfs)

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
PLACED RIPRAP BETWEEN CUT AND FILL	
DETAIL APPROVED FOR USE	DETAIL
REVISED: 08/2006 08/2014	C251-51

_User:

N:\CFL-DPT\Drawings\FP-14\FP14_Details\C251-51.dgn

9/22/2014



NOTES TO THE DESIGNER

Last Updated: August 2014

General Information

1. **Maximum Flow.** $Q_{max} = 5$ cfs. For other flows, use the HEC15 spreadsheet to evaluate the riprap ditch (HEC15 spreadsheet located on RoadMap: http://roadmap/DocShare/GetFile.cfm?KEY_FM_FILE_MASTER_SEQ=989&KEY_FM_FILE_SEQ=1152)

Applicable SCRs

1. Section 251:
<http://www.cflhd.gov/resources/design/constructspecs/scr/fp14/documents/S251-14.docx>

Typical Pay Items Used

- 25101-2200 Placed riprap, method B, class 2
- Geotextile quantity is shown for information only

Updates

March 2009

- Added Q_{max}
- Minor drafting edits

October 2000

- Updated border to FLH Standard

February 2005

- Updated to MicroStation V8

August 2014

- Updated for FP-14
- Updated border