

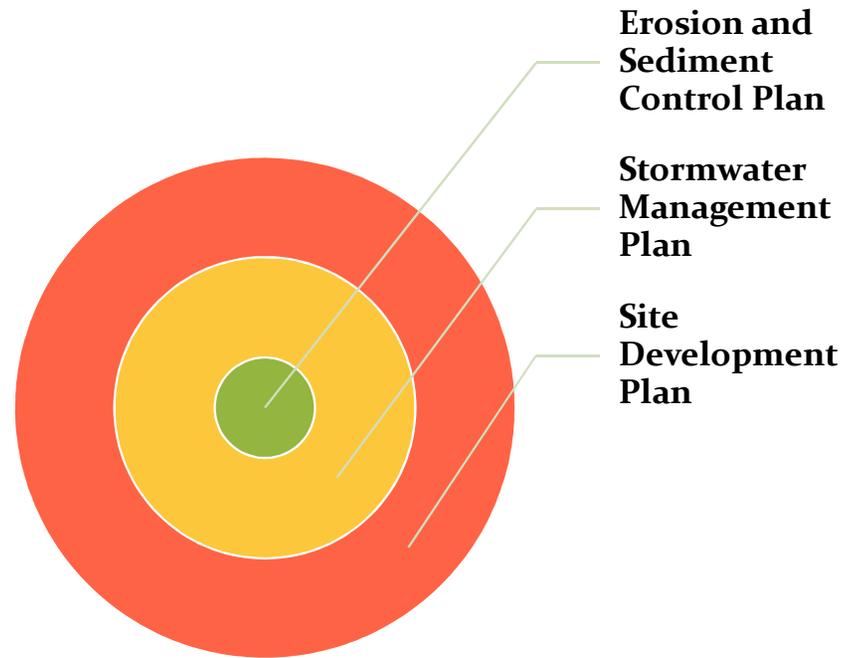


5a. ESC Plan Elements



- **Erosion and sediment control planning should be an integral part of site planning and not an afterthought.**

ESC Plan Preparation should NOT be a result of ESC plan review!



An erosion and sediment control plan should be stand-alone component of the entire site development plan

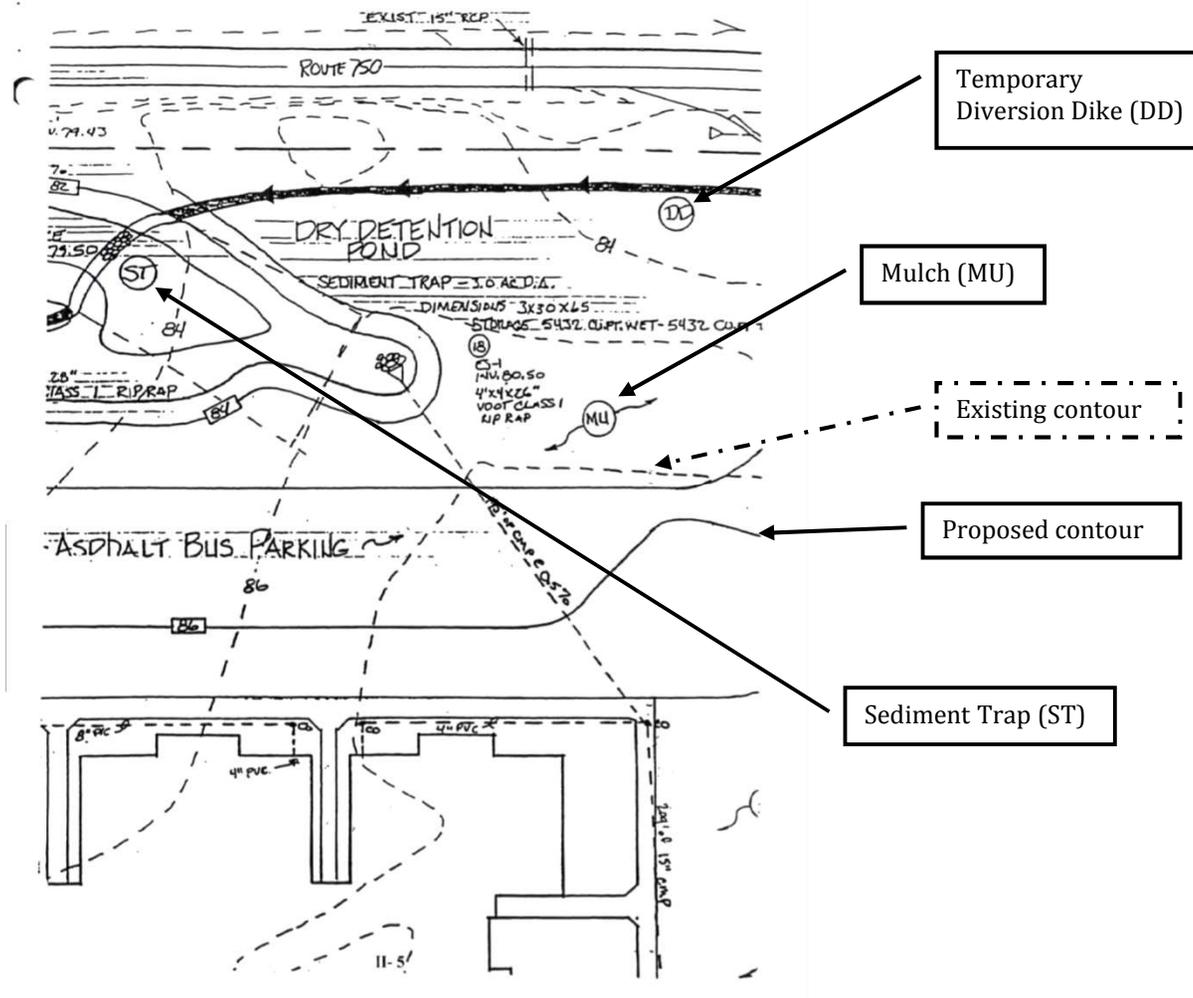


Written
portion or
"Narrative"



Illustrative
portion or
"Plan"

ESC
Plan



In order to be able to review the illustrative portion (or Plan) we need understand some of the common elements of the plan and develop our plan reading skills.



READING CONTOUR LINES

- Shown as two-dimensional lines on a topographic map - the scaled distance between them is exactly the same as in the field.
- Line that passes through points having the same elevation
- Contour intervals can range from 1 feet to 100 feet

dashed lines



Proposed contours

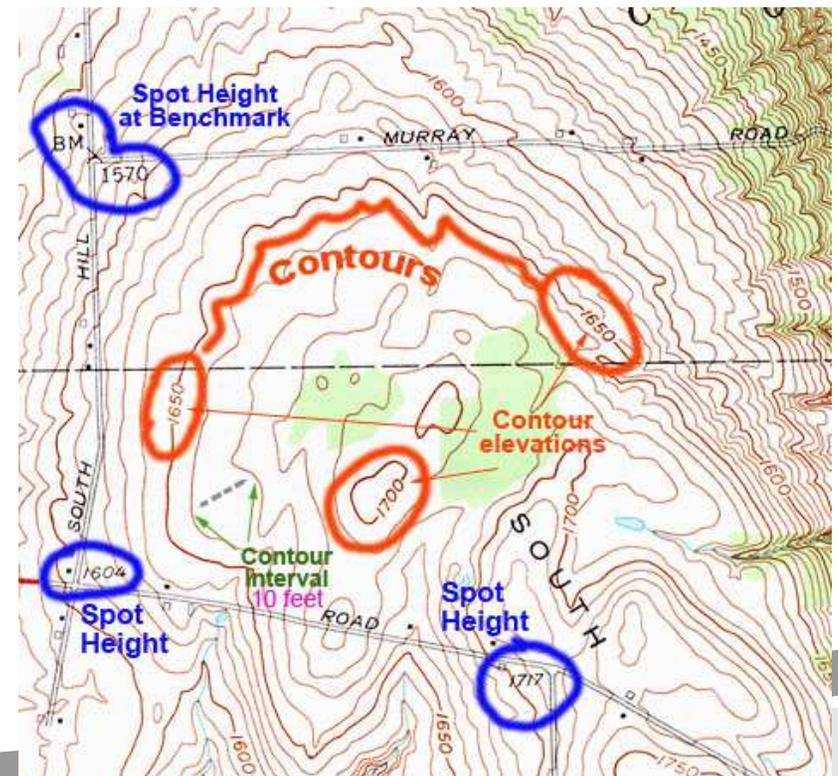
solid lines



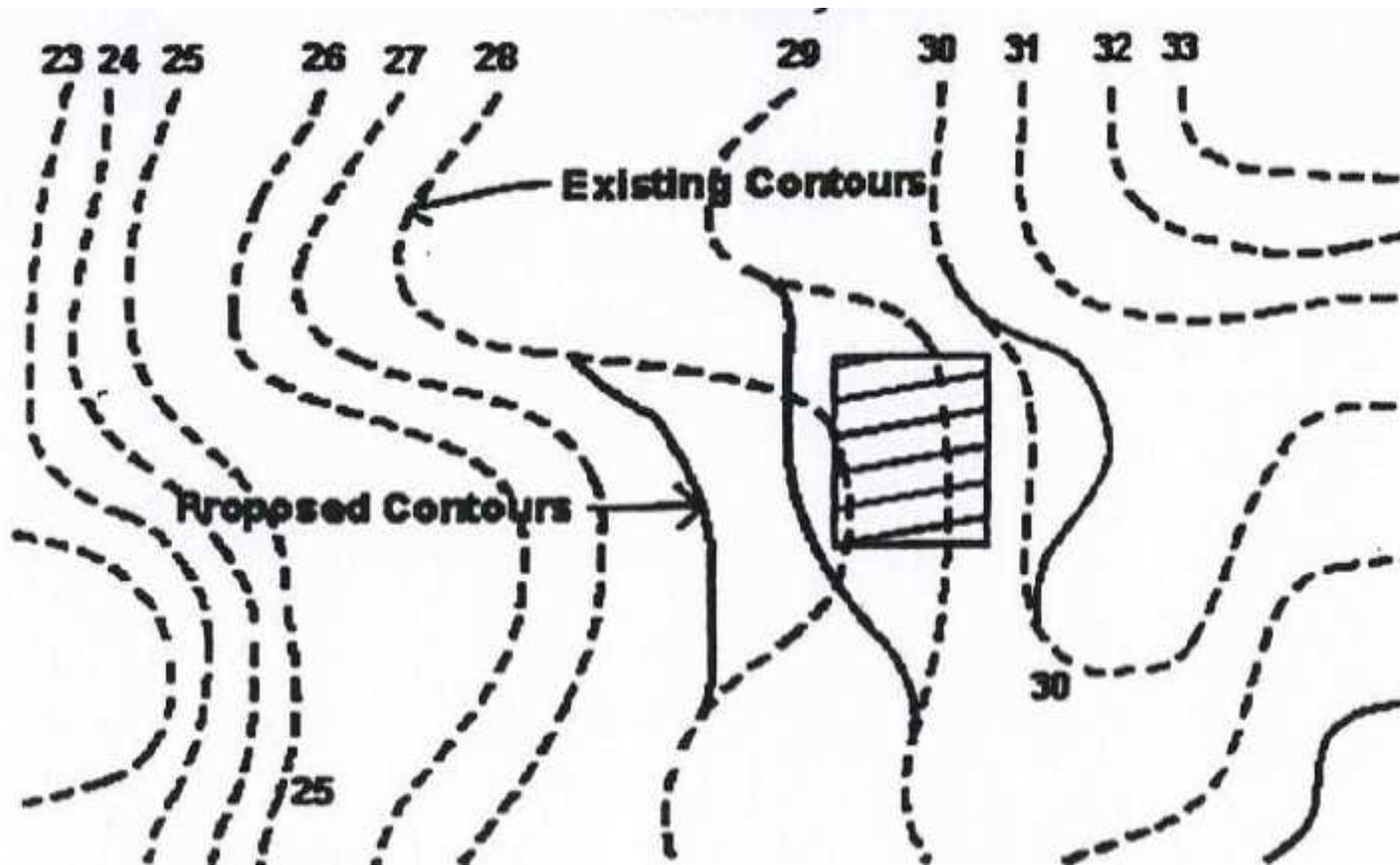
READING CONTOUR LINES

Contour lines indicate the steepness of the terrain

- The closer the lines are together, the steeper the terrain.
- Further apart means less steep.

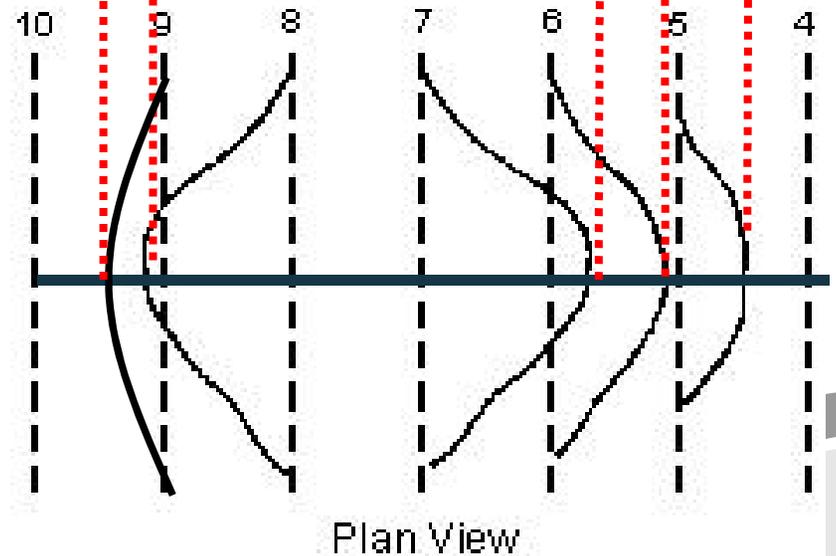
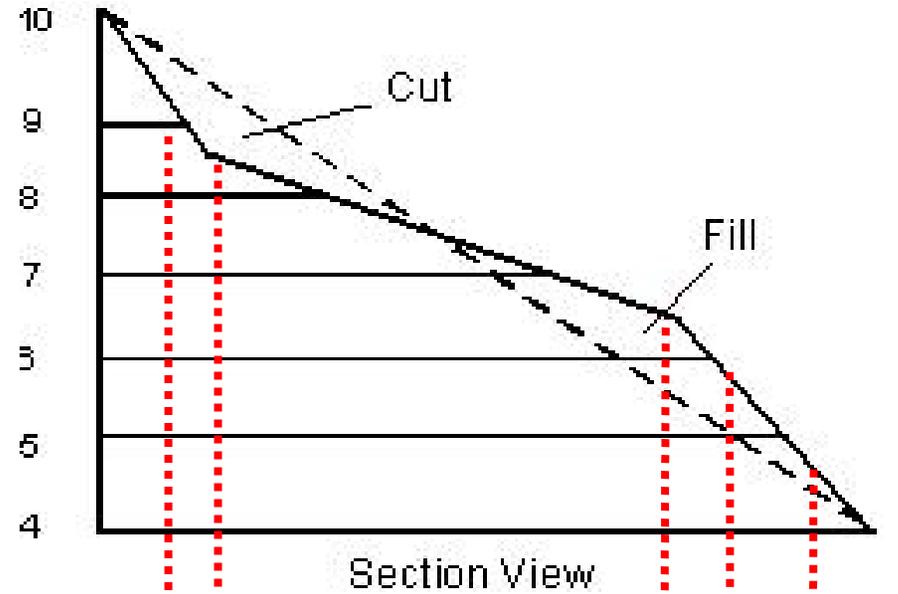
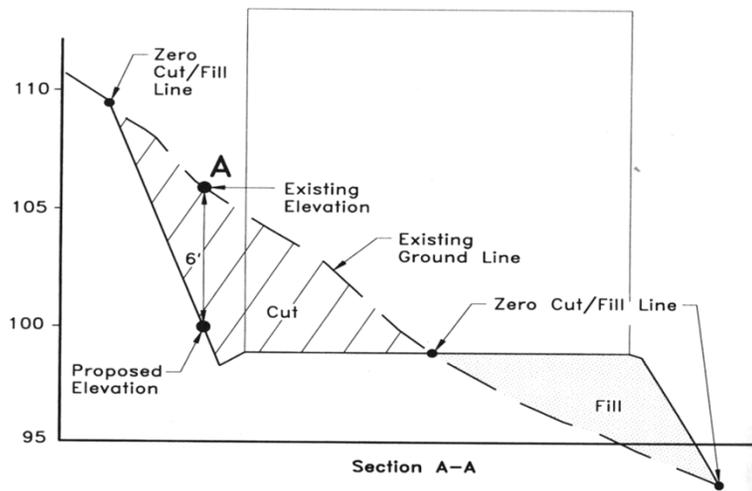
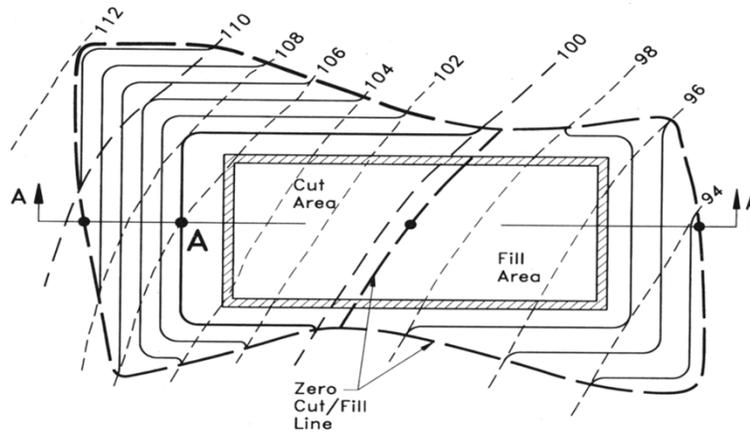


Cut & Fill Slopes



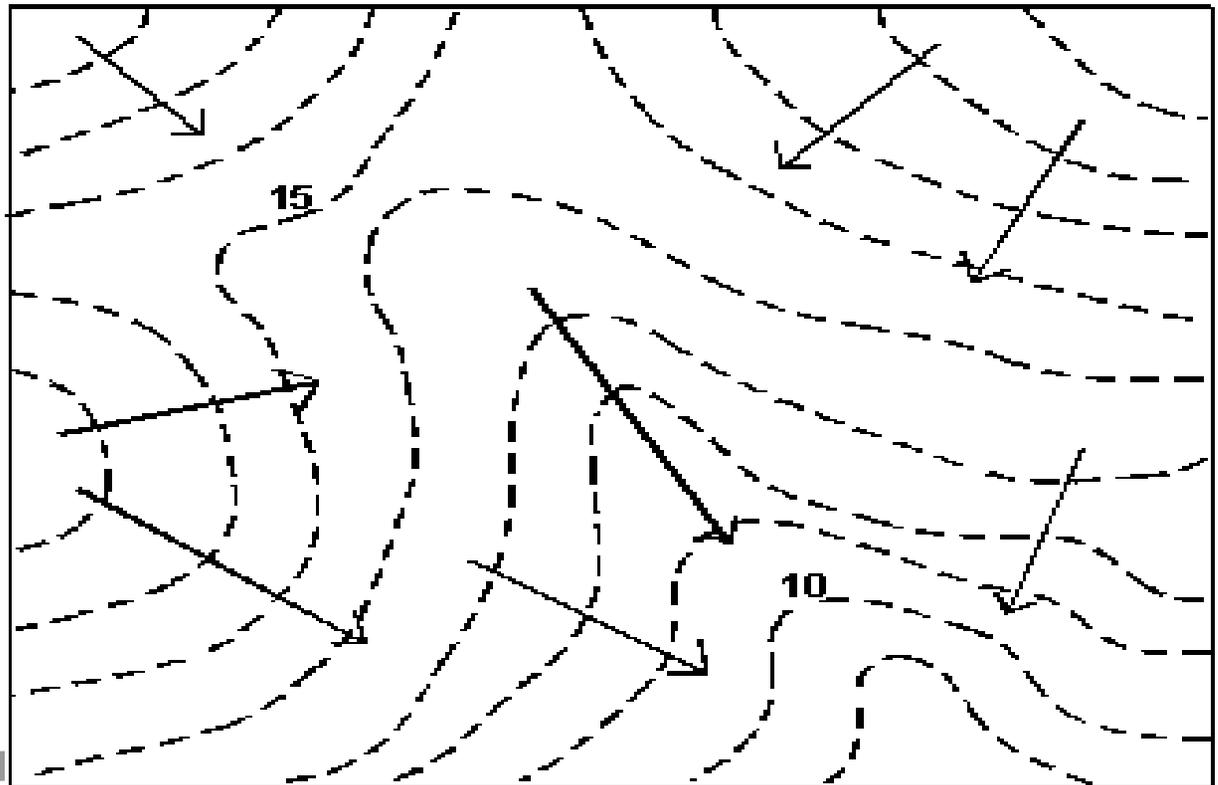


Cut & Fill Slopes

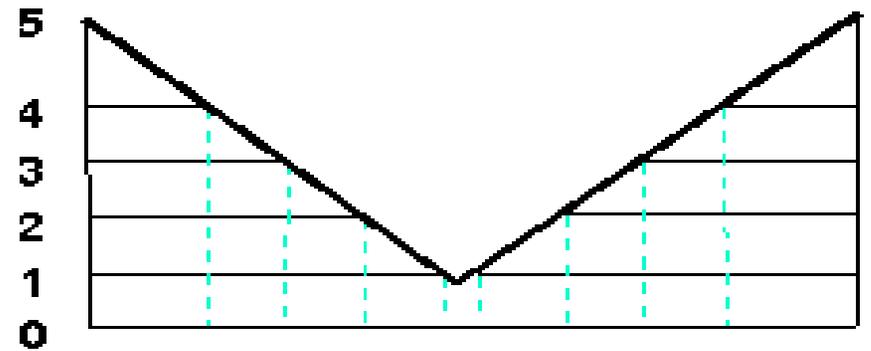


Reading Contours

- Water always flows perpendicular to contour lines.



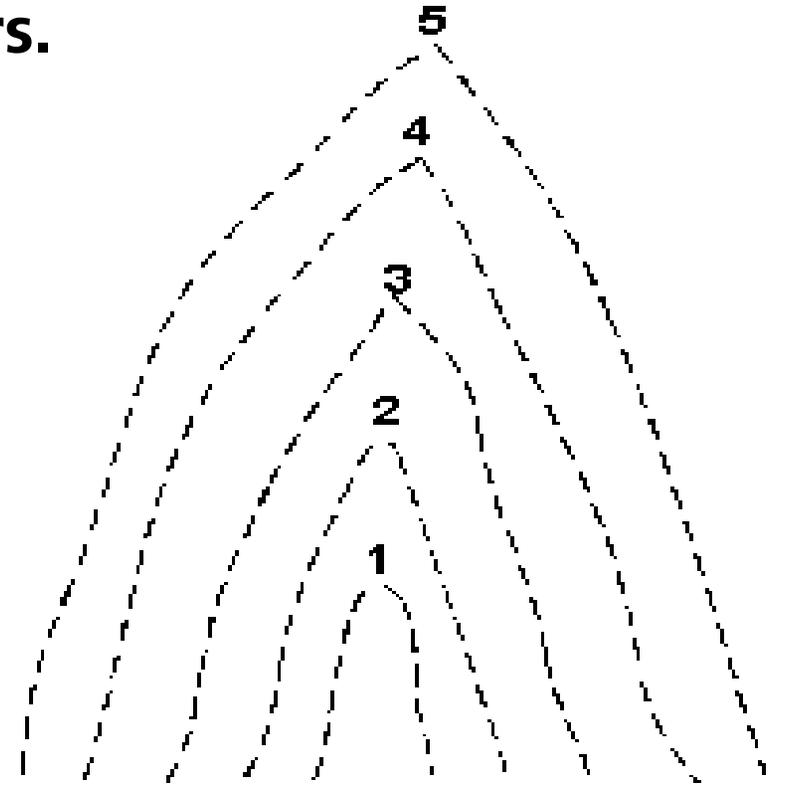
Valley or Swale



Section C

Represented by contours which point toward the higher numbers.

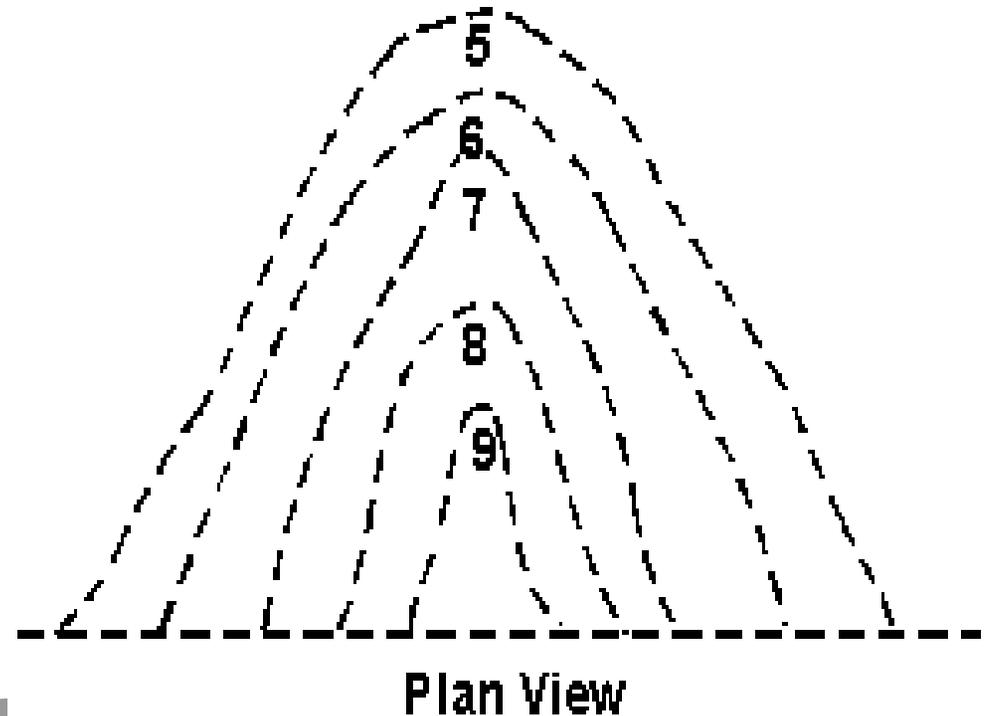
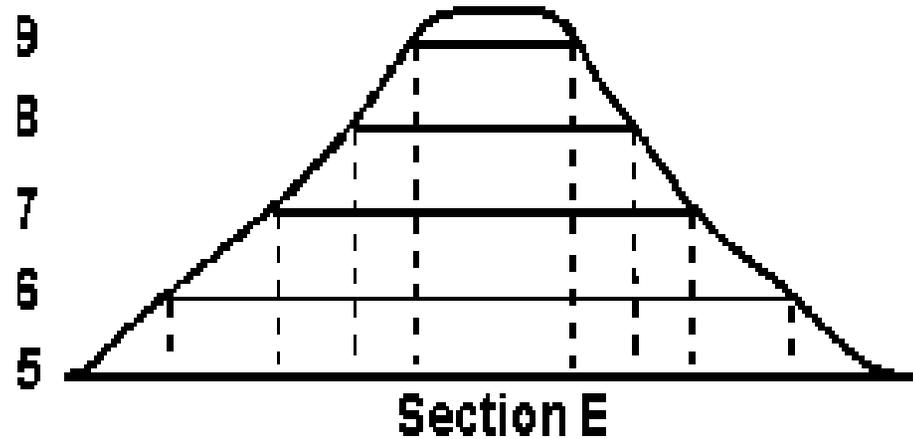
Inverted V – points to higher numbers.



Plan View

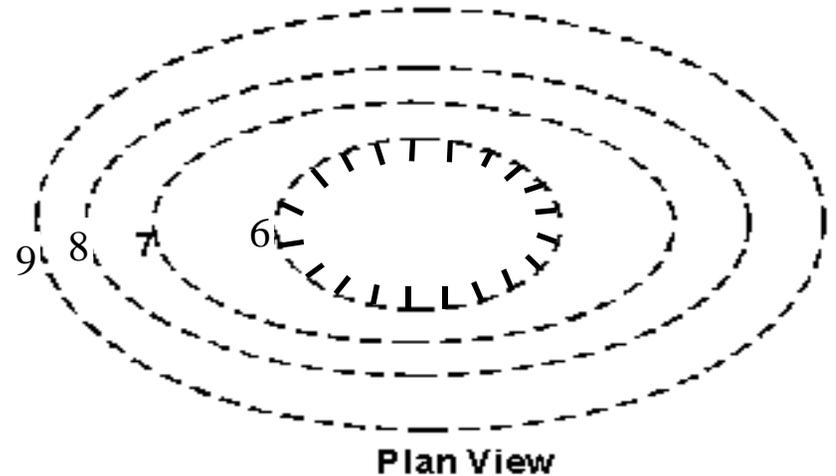
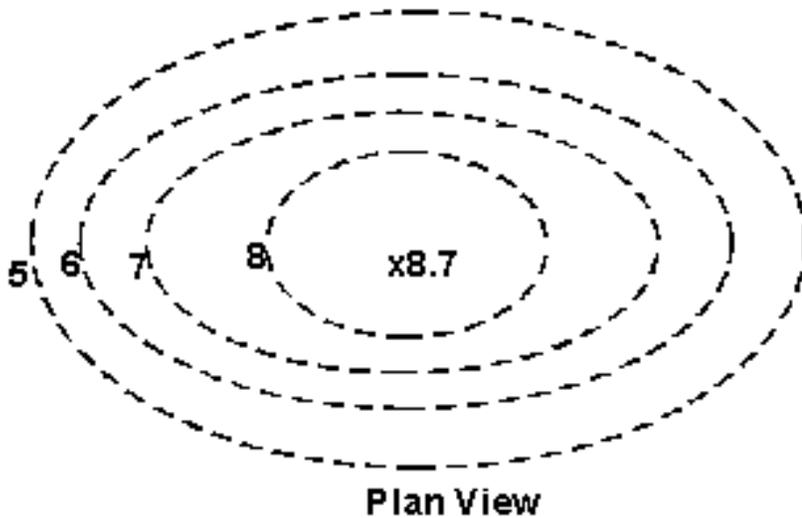
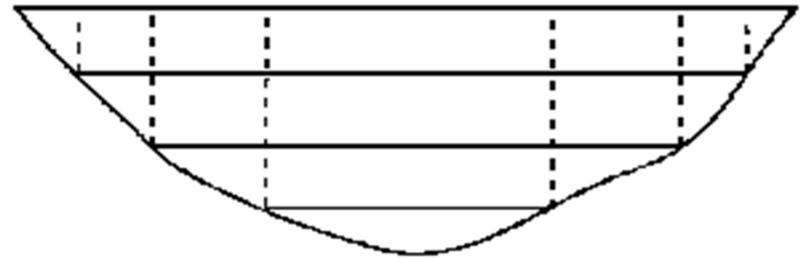
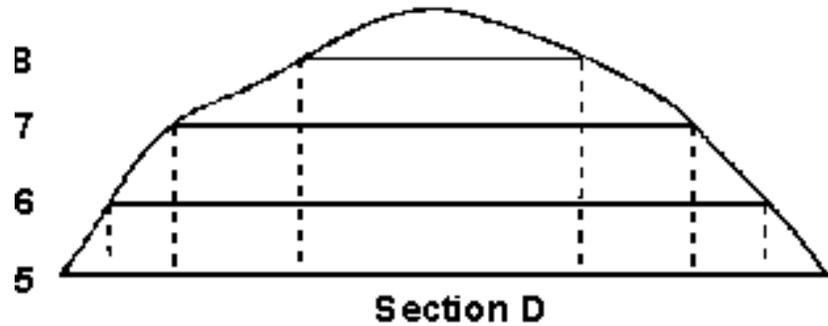
Ridge

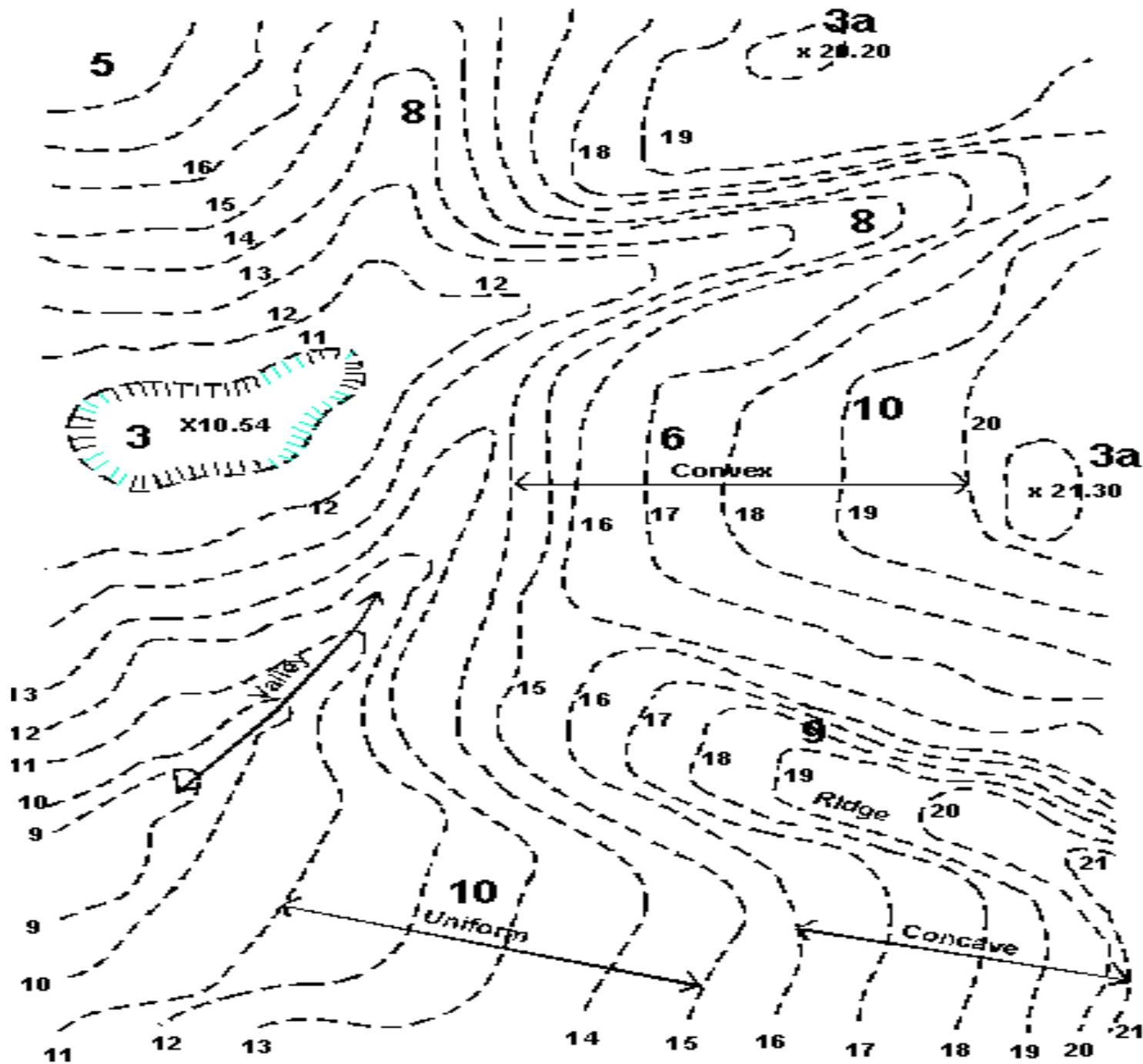
Similar to a valley, but represented by contours which point toward the lower numbers.





Summit and Depression





What is an Adequate Plan?

The primary guidelines for determining E&S plan adequacy are:

- **Minimum Standards of the Virginia Erosion and Sediment Control Regulations.**
- **Specifications of the Virginia Erosion and Sediment Control Handbook (chap. 3).**
- **Local ordinance requirements.**
- **Plan review checklist (Guidance)**



What is an Adequate Plan?

- **Contains enough information to satisfy the plan approving authority to ensure that the problems of erosion and sedimentation have been adequately addressed.**



End of Module 5

QUESTIONS?