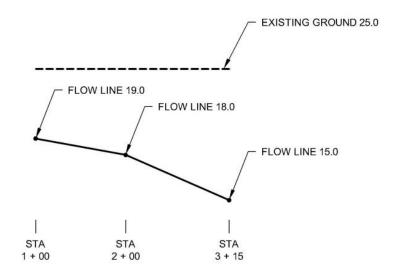
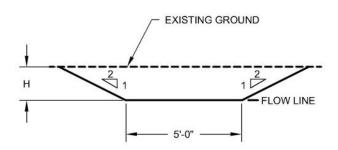
Example No. 1

Use the exhibit provided to answer the following question.







TYPICAL CROSS SECTION

A farmer is excavating a ditch to drain an existing field. Using the given profile and typical cross section, calculate the quantity of excavated material.

- A. 1,145 cy
- B. 1,242 cy
- C. 1,251 cy
- D. 1,287 cy

Example No. 2

A portion of a USGS map with a scale of 1'' = 2,000' is to be enlarged by a factor of 5 (a 500% enlargement). What is the scale ratio of the new map?

A. 1:400 B. 1:4,800 C. 1:10,000 D. 1:120,000

Example No. 3

A portion of a roadway is being staked as a circular curve from Point X (BC) to Point Y (EC). If the straight distance from Point X to Point Y is 460 ft and the central angle of the survey is 45° , what is the length of the curve?

A. 460 ft B. 472 ft C. 544 ft D. 601 ft