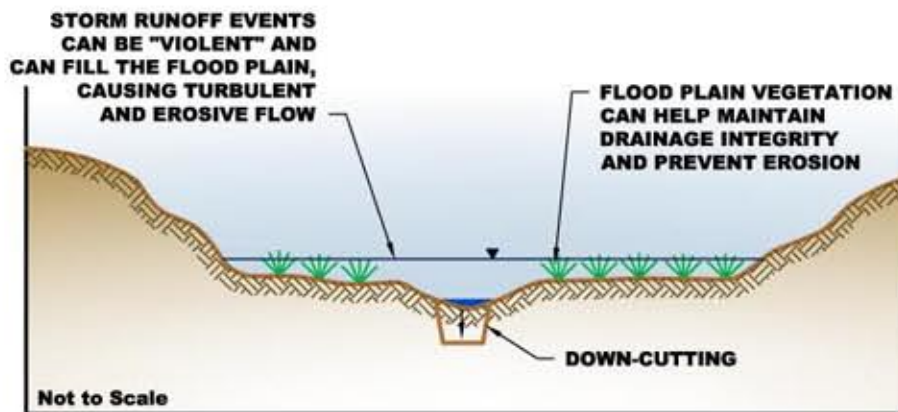


MOST DRAINAGES IN THE EIS ANALYSIS AREA ARE EPHERMAL AND ONLY FLOW AS A RESULT OF SPRING RUNOFF (SNOWMELT) OR STORM EVENTS.



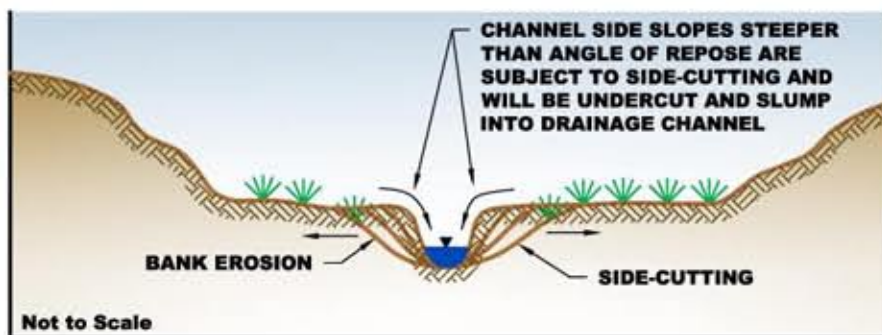
TYPICAL DRAINAGE IN THE SEMINOE ROAD PROJECT EIS ANALYSIS AREA.



WITH DOWNSTREAM SCOURING, THE DRAINAGE SYSTEM WILL ADJUST TO AN EQUILIBRIUM STATE. THIS INVOLVES "DOWN-CUTTING" IN THE DRAINAGE GIVEN ADDED FLOOD ENERGY AND FLOW VELOCITIES. SEDIMENT MOVED DOWN DRAINAGE.



NATURAL DRAINAGE FLOODING AND DOWN-CUTTING AS A RESULT OF STORM RUNOFF. NOTE: SURFACE RUNOFF AND PIPING ON EDGE OF THE HEADCUT.



WITH DOWN-CUTTING, THERE WILL ALSO BE SIDE-CUTTING OF THE DRAINAGE. THIS IS PART OF THE SYSTEM SEEKING EQUILIBRIUM. SEDIMENT MOVED DOWN DRAINAGE.



NATURAL DRAINAGE SIDE-CUTTING AS A RESULT OF STORM RUNOFF.

NOTES:

- 1) GEOMORPHIC CYCLE IS THE CYCLE OF EROSION.
- 2) GEOMORPHOLOGY IS THE SCIENCE THAT TREATS THE GENERAL CONFIGURATION OF THE EARTH'S SURFACE, SPECIFICALLY THE STUDY OF THE CLASSIFICATION, DESCRIPTION, NATURE, ORIGIN AND DEVELOPMENT OF PRESENT LANDFORMS.
- 3) FLUVIAL GEOMORPHOLOGY IS THE GENERAL CONFIGURATION OF THE EARTH'S SURFACE PRODUCED BY THE ACTION OF A STREAM OR RIVER.