Part 4

MECHANICALLY STABILIZED EMBANKMENTS (MSE’s)
Geogrid-wrapped hay bales can be used as temporary facing elements for **mechanically-stabilized embankments**. These materials do not corrode, so are perceived to be more “**environmentally friendly**.”
Short strips, or “false layers” of geotextiles can be incorporated between reinforcement layers of mechanically stabilized embankments (MSE) to restrict slope raveling and erosion.
Section through a **MSE embankment** with a 1:1 (45 degree) finish face inclination. The embankment utilized false layers every 12 inches, extending just 5 feet into the slope.
Detail of geotextile “false layers”, placed every 12 inches to retard rill erosion.
Construction of 45 degree sidehill embankment for a road in steep terrain. Both false and full-depth geotextile mats were incorporated into the embankment, spaced every 12 inches.
Same slope after hydroseeding and sprouting with a mix of wild mustard and other grasses.
Example of a 45 degree fill face supporting a parking lot adjacent to a line of mature trees. The embankment was constructed using false layers of geotextiles spaced 12 inches apart.
Same 45 degree fill slope after hydroseeding and sprouting of fescue grass mix, 5 weeks after completion. All runoff from above was directed away from the slope face.