

PIPE CULVERT FLOTATION

SOIL RESISTANCE + PIPE WEIGHT

- BUOYANCY FORCE ≥ 0.0 (OR ELSE THE PIPE FLOATS)

FLOTATION RISK THROUGHOUT THE U.S.









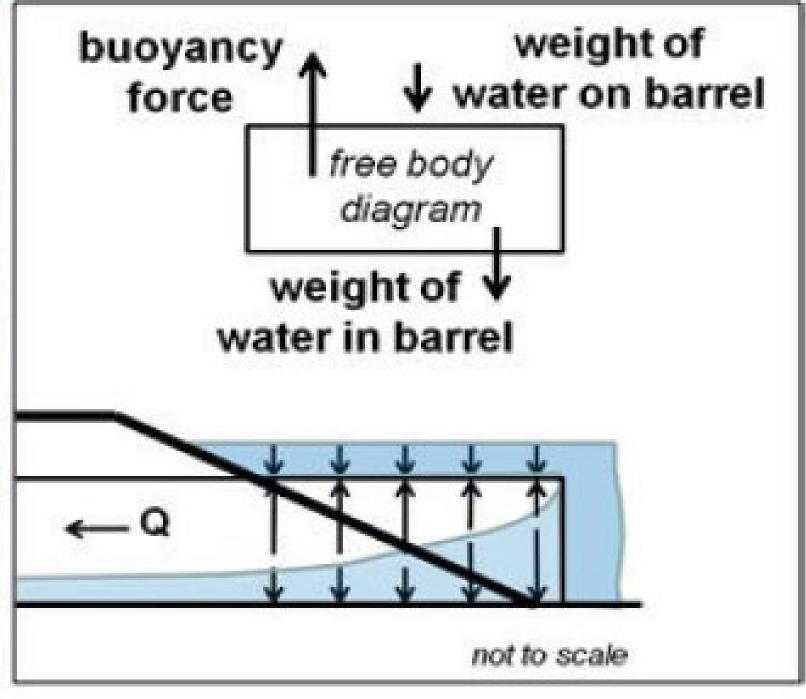


Figure 5.19. Unanchored thin edge projecting.

FHWA HYDRAULIC DESIGN OF HIGHWAY CULVERTS (HDS 5)

SOLUTIONS



USE CONCRETE PIPE



CONCRETE WINGWALLS,
HEADWALLS & RIP RAP





ANCHORING SYSTEMS



