

## SmartDitch Replaces Failed Rip Rap At MDOT “Park ‘n Ride” Location.

*Instant improvement in stormwater flow and erosion control realized.*

### Problem:

A non-reinforced concrete spillway and multiple rip rap applications failed after one year, causing flooding and erosion at a local Park ‘n Ride commuter location maintained by the MDOT Brighton Service Garage.

### Solution:

A new reinforced concrete spillway and **SmartDitch** drainage channel was installed to replace the failed N-RCP and the continuously scouring rip rap.

70 LF of 24” trapezoidal SmartDitch was to replace the rip rap section of the spillway. It only took two days to install and eliminated a year-round drainage, maintenance, and aesthetic issue. No special equipment was required for installation and the product was delivered from Michigan’s SmartDitch Distributor, St. Regis Culvert, to the site in the back of a standard pick-up truck.

Since SmartDitch is a permanent solution, it is more cost-effective, requires little-to-no maintenance, and will not promote vegetated growth in its channels. Additional savings were achieved by re-purposing the existing rip rap at the downstream end of the SmartDitch channel.

### Quick Facts:

**Product:** 24” Trapezoidal SmartDitch, (9 pcs. total)

**Length:** 70 LF

**Bedding and Backfill:** Class II A Sand

**Construction Time:** 3 Days (includes ditch preparation and SmartDitch installation, backfilling)

**Installation Contractor:** N/A In-House maintenance crew

**Distributor:** St. Regis Culvert, Charlotte, MI



*Failed non-reinforced concrete spillway.*



*Rip rap repeatedly failed, and the drainage channel became overgrown.*



*Completed spill with SmartDitch and repurposed rip rap*