

Name of Project: **East Grand Rapids
Silver Creek Culvert**

Owners: City of East Grand Rapids

Contact Person Names/Phones: Mr. Ken Feldt, P.E.,
City Services Director
(616) 940-4817

Location of Project: City of East Grand Rapids,
Kent County, Michigan

Date Started/Completed: 04/01/08 – 05/01/09

Project Cost: \$60,000

Project Team: Joe Camp, P.E., Principal in Charge
Brian Hannon, P.E., Project Engineer



Modular Block Headwall over Box Culvert

Project Description: Contracted by the City of East Grand Rapids to evaluate and design a replacement for the 36" diameter culvert, with headwalls, on Silver Creek Drain that ran under the driveway at 1111 San Lucia. The existing culvert was undersized for the drainage flows and the headwalls were in a very deteriorated condition. During an intense summer rain storm, the driveway actually washed away, and had to be temporarily shored until design and construction could be completed. The new design consists of a 4' high x 6' span box culvert under the driveway, with Redi-Rock retaining walls on either side of the driveway. Moore and Bruggink evaluated the site, completed plans and specifications, and oversaw the construction activities. The construction was completed in a timely fashion to ensure that the homeowner had access to their property on schedule.



*Temporary Headwall Shoring after
Pre-Project Washout*



*Previous Deteriorated Headwall
and Undersized Culvert*



Final Residential Drive over New Culvert