

## John R Road Rehabilitation, North of 12 Mile Rd to 14 Mile Rd Madison Heights, Michigan

**Spalding DeDecker Associates, Inc. (SDA)** was retained by the Road Commission for Oakland County (RCOC) to prepare design documents for the rehabilitation of John R Road between 12 Mile Rd and 14 Mile Rd in the city of Madison Heights. The five (5)-lane concrete roadway was originally constructed in the 1960's serving as a major north-south corridor in southeastern Oakland County. This project required extensive pavement repairs, cracking and sealing, and a 3" HMA overlay on 1.8 miles of local arterial roadway.



### OWNER / CLIENT

Road Commission for Oakland County

### PROJECT START - END

August 2005 - June 2006

### SDA PROJECT NO.

RB05-007

### Road Design and Survey

The project included survey and design for pavement repairs and HMA overlay of 1.8 miles of non-reinforced concrete pavement. The design also addressed minor curb and gutter replacement, minor concrete pavement replacement, concrete milling along the edge of gutter to maintain curb face, joint repairs, drainage structure repairs and adjustments, upgrading non-ADA compliant sidewalk ramps, developing a detailed maintaining traffic plan with construction staging, and placing permanent pavement marking. SDA utilized aerial surveys with field Global Positioning System (GPS) confirmation to establish the site plan. All design work was performed following RCOC and AASHTO standards and procedures.

### Maintaining Traffic Plans and Provisions

SDA prepared the Maintaining Traffic drawings and special provision for the project following MMUTCD and the MDOT standards maintaining traffic details. The project section of John R had heavy commercial development with a large number of strip malls, stores, and restaurants. It also served as an alternative route to I-75 in this area and experiences congestion during peak periods. As a result, the Maintaining Traffic Plan required additional care and consideration, and the RCOC made the decision to accelerate the construction schedule to minimize impacts.