

## City of Livonia 2005-2007 Asphalt Road Improvement Program

Livonia, Michigan



**Spalding DeDecker Associates, Inc. (SDA)** was retained by the City of Livonia, Michigan to design several miles of asphalt roadway preventive maintenance, rehabilitation, and reconstruction as part of their ongoing annual road improvement program. This program received full review and oversight by the City of Livonia's Department of Public Works. One roadway in the program, Newburgh Road, was partially funded through the Michigan Department of Transportation's (MDOT) Local Agency Program, and received full design oversight and review by MDOT.

SDA provided all survey, design, and construction engineering services.

### Road Design Engineering

The projects included preventive maintenance, rehabilitation, or reconstruction of over 20 miles of roadway constructed over a period of three years. One roadway, Newburgh Road, was prepared in accordance with MDOT standards and specifications and let as part of Governor Granholm's JOBS TODAY program in 2007. All street and road repair work was designed to meet MDOT, American Association of State Highway and Transportation Officials (AASHTO), and the City of Livonia's standards and specifications. Designs addressed geometric features such as cross-slopes, ADA sidewalk upgrades, curb and gutter replacement, and minor drainage improvements.

SDA prepared a Maintenance of Traffic (MOT) special provision tailored to traffic volumes and safety needs for the streets for each contract. Access was provided for residents and emergency vehicles throughout construction.

### Road Construction Engineering

A Professional Engineer reviewed daily construction reports, verified quantities against design requirements, processed pay certifications, negotiated change orders and contractor claims, and maintained contract documentation. Construction technicians and engineers oversaw all work in accordance with the City of Livonia and AASHTO standards and procedures; Newburgh Road was administered in accordance with MDOT policies and practices.

### Design Survey and Construction Staking

Design surveys were obtained for engineering design. SDA also performed construction layout for the projects. Staking consisted of setting graded off-set stakes at regular intervals and producing cut sheets.

#### OWNER / CLIENT

City of Livonia

#### PROJECT START - END

November 2004 –2007

#### SDA PROJECT NO.

RB04-013

RB05-014

RB06-012