

# CONCRETE PAVEMENT

## PROJECT REPORT



### Project: Enterprise Dr.

Site: Allen Park, Michigan

#### Project

Description: 6 inch nonreinforced doweled concrete overlay on top of existing 9" concrete pavement, 1 inch asphalt separator layer, concrete pavement widening including 9 inches of nonreinforced concrete with new curb and gutter, grading and drainage structures

Owner: City of Allen Park

Contractor: Florence Cement Co., Inc.  
Troy, Michigan  
Michigan Concrete Paving  
Association Member

#### Special

Feature: Unbonded Concrete Overlay



## Concrete Overlays

### Enterprise Drive City of Allen Park

The City of Allen Park, Michigan set a new standard in the Fall of 1997 when the engineering and public works departments decided to repair a busy industrial city street with an innovative, but proven method of overlaying concrete with concrete.

The project consisted of constructing a 6-in. thick non-reinforced doweled concrete overlay on top of the existing 9-in. thick concrete, originally built in the 1950s. The new overlay has a 1-in. thick asphalt separator layer between it and the original concrete pavement to help prevent reflective cracking. The placement of the 7,200 syd overlay went smoothly and was accomplished in one day. In addition to the new overlay, the road was widened and a new lane was added which consists of 9 inches of nonreinforced concrete with new curb and gutter.

This was the first concrete overlay for the City of Allen Park. John Kozuh, Allen Park City engineer explained his reason for the innovative technique. "All the conditions were right", he said. "In order to reduce downtime and inconvenience for the businesses involved, we didn't want to do removal and replace. We couldn't lose usage of the roadway."

In addition to saving time, the overlay procedure also saved money. "Because we didn't tear out the existing road, the costs came in significantly under the typical removal/replacement cost", stated Kozuh. "It also came in under my estimate of the cost for the job."

Kozuh attributed this success to the extensive planning prior to the job. Rob Rochon, project manager for Hennessey Engineers, cited another important advantage of the overlay. "Leaving the underlying concrete in place adds strength to the road", he said. "The bottom layer and the new overlay make the pavement almost as thick as a runway."

