

## PROJECT CONSTRUCTION, CONSTRUCTION ENGINEERING, AND CONSTRUCTION INSPECTION *STAFF EXPERIENCE*

---

### PROJECTS AND ROLES:

Cook County Department of Transportation  
*Lake-Cook Road Expansion and Reconstruction*  
Project Manager and Division Head of Traffic Engineering (Monte Chen)

R. W. Dunteman  
*Traffic Signal Construction and Installation - IDOT District 1*  
Construction Engineer (Bader Hafeez)

Wilbur Smith and Associates  
*Variable Messaging Signs Along Lake Shore Drive - Chicago*  
Technical Design, Construction, and Installation (Monte Chen and Bader Hafeez)

---

Monte Chen was the Project Manager for the reconstruction and expansion of 14 miles of Lake-Cook Road. The expansion increased the width of the roadway from 2 lanes to a 6 lane Strategic Regional Arterial facility and involved the installation of rail-road grade separations, new signaling and intersection configurations, the design of new pavement markings, the development of grade separated interchanges with expressways and other roads, the placement of bridges, the development of barrier warrants and signal warrants, and the interconnection of signals to mitigate traffic congestion conditions. He also was responsible for overseeing the Cook County Highway Department's \$60 million annual construction budget across 600 centerline miles and the development of plan, specification, and estimate (PS&E) documentation.

Dr. Bader Hafeez served as Construction Engineer for projects in IDOT District 1 in Aurora, Downers Grove, Woodridge, and West Chicago. These projects involved multiple signals and intersections and the accommodation of multiple turn lane traffic patterns, multiple land use types, railroad crossing coordination, and overhead sign structures. Dr. Hafeez managed projects valued over \$30 million and served as liaison to the IDOT Resident Engineer in Charge.

Both Mr. Chen and Dr. Hafeez participated in the planning, design, and installation of Variable Messaging Signs (VMS) along Lake Shore Drive in Chicago. This project involved evaluating an existing bridge structure and designing sign supports and power and fiber optic connections to power the sign. The project team also designated standardized messaging to improve traffic operations along the roadway.

