Dr. Manzur Elahi, P.E., PTOE Division Manager

AFFILIATION: DCI DANIEL CONSULTANTS, INC.

PROJECT ASSIGNMENT: PROJECT MANAGER

EDUCATION:
Ph.D./Civil Engineering (1990)
M.S./Civil Engineering (1986)
B.S./Civil Engineering (1983)

REGISTRATION:
Registered Professional Engineer
Professional Traffic Operations Engineer
Fellow, Institute of Transportation Engineers (ITE)

EXPERIENCE:
Manzur Elahi has over 20 years experience in all facets of traffic engineering that include traffic safety and operations, planning and ITS. He has extensive experience working with state and local transportation agencies on a wide variety of safety, operations, and design projects. He is well-versed in traffic safety and DDOT's HSIP program from his prior association with DDOT. Representative projects include:

- **Brentwood Road Transportation Study (DDOT).** Project Manager and Technical Lead for this area wide transportation study in northeast Washington DC, involving comprehensive data collection, analysis and recommendations for infrastructure improvements. The task involves a series of 4 public meetings.
- **Columbia Heights/Mt. Pleasant Transportation Study (DDOT-**Through Cambridge Systematics)**.** DCI's Task Lead for this transportation study. Lead traffic data collection in the study area and calculated costs for various improvement options.
- **15th Street Traffic Calming Study (DDOT).** Project Manager and Technical Lead for this study, involving comprehensive data collection, warrant analysis, DDOT traffic audit analysis and recommendations.
- **Mt. Vernon Triangle Transportation and Public Realm Design Project (DDOT-**Through Cambridge Systematics)**.** DCI's Task Lead for this transportation study. Lead traffic data collection in the study area and calculated costs for various improvement options.
- **Evaluation of Military Road (DDOT).** Project Manager for this study, evaluating the recently-implemented roadway improvements and assessing future options.
- **Year 2005 Crash Data Entry (DDOT)**. Project Manager for the 2005 crash data entry for the District of Columbia. Task also included modification and set up of the input module, quality control the data and conversion of data from an Access-based system to an Oracle-based system.
- **Evaluation the Safety Impact of Red light Running Cameras (DDOT) in Washington DC**. Program manager for this task to conduct a 'before' and 'after'

study using highway crash data to evaluate the impact of 39 cameras installed citywide.

- **Streetlight Policy Guide for Washington DC (DDOT).** Project Manager and Technical Lead for development of a strategic plan for streetlight implementation in the Nation's Capital. It included the type of poles, fixtures, lamps and levels of illumination to be used in various parts of the City depending on the functional classification of roadway, type of neighborhood and historic significance.
- **DC Streetlight GIS development**. Technical Lead for this task. It involved transformation of citywide streetlight plats (about 1300) into DC's GIS (ArcView).
- **Miscellaneous Streetlight Design Projects (DDOT).** Served as Project Manager and the Technical Lead for a series of Streetlight upgrade tasks, which include: 1) Alley Lighting Upgrade at 41 Squares, 2) Citywide Streetlight Transformer Base Replacement and Conversion of Alley Lights, 3) Series Circuit Conversion at 5 Locations, 4) Georgia Avenue and 4^{th}/5^{th} Street Streetlight Upgrade, and 4) the Mount Pleasant Streetlight Upgrade.
- **DC HPMS Traffic Data Collection for under DC Asset Management Contract (Client: FHWA through SAIC)**. It's a comprehensive data collection of speed, class and volume data using both manual and machine techniques at over 100 intersections and 140 road segments.
- **Dulles Corridor Rapid Transit Study (WMATA).** Project Manager (for DCI) for Dulles Corridor Rapid Transit Study. Managed this project for DCI's assignments to do a traffic study of WMATA's orange line extension to Loudoun County. Work involved collecting data and conducting analyses at the station areas for various scenarios. Software tools TEAPAC and SYNCHRO were used to conduct the analysis.
- **Traffic Impacts of Double Tracking MTA's Light Rail (Maryland MTA).** Project Manager for analyzing at grade crossings from Cromwell Station and BWI to Clare Street in Baltimore, simulating 18 grade crossings. Used simulation software CORSIM to analyze a number of scenarios, including existing and future build and no-build scenarios.
- **Annual Highway Safety Improvement Program (DDOT)**. As a Traffic Engineer for DDOT, analyzed the accident data to generate a prioritized listing of high-hazard locations in the city. Prepared the annual Highway Safety Improvement Program (HSIP) report for submission to FHWA.
- **Safety Improvement Studies (DDOT).** As a Traffic Engineer for DDOT, conducted safety improvement studies at the following intersections -- Minnesota Avenue and Nannie Helen Buroughs Avenue, N.E., North Capitol Street and Michigan Avenue, Michigan Avenue and Irving Street, N.E., North Capitol Street from Bryant Road to Channing Road.
- **Maryland Route 301 Alternative Simulation (Maryland SHA) –** Project Manager for evaluating the impacts of no-build and three build scenarios using simulation. Developed the alternative scenario models using CORSIM and SYNCHRO simulations tools. The scenarios included: a) no-build 2020, b) freeway option, c) eastern bypass, and d) western bypass.