

## **Daniel J. Mills, P.E., PTOE**

### **MDM Transportation Consultants, Inc.**

**Position:** Principal, Transportation Director

**Years of Professional Experience:** 27

**Education:** Merrimack College, B.S.C.E., 1994

**Registration:** Registered Professional Engineer: Massachusetts #41753  
Registered Professional Traffic Operations Engineer  
IMSA Certified Traffic Signal Inspector #SI 72129

#### **Description of Experience:**

During his 27+ years in the transportation engineering profession, Mr. Mills has designed improvements for over seventy-five intersections throughout Massachusetts, including work in the City of Boston and for MassDOT. Many of these improvement projects have abutted residential neighborhoods, institutional facilities, downtown businesses and environmentally sensitive areas. Mr. Mills is experienced in the various design aspects including, highway capacity modeling and simulation, roadway and intersection geometry, traffic signal system design, and sign and pavement marking layout. He is also experienced in construction related services including shop drawing review, traffic management and final inspection services.

Mr. Mills has prepared numerous traffic impact studies for a wide variety of developments in Massachusetts. Projects range in size from a 3,000 square foot fast-food restaurant in the Town of Swansea to a 714,000 square foot regional shopping center in the City of Everett. Additional land uses studied include, public school, office park, residential development, hotel, pharmacy, self-storage, donut shop, car wash, nursing home, bank, golf course, casino and supermarket. Mr. Mills has performed parking and circulation studies, conducted speed studies, and prepared truck route assessments. He has provided impartial transportation peer review services to municipalities and the Metropolitan District Commission (now the Department of Conservation and Recreation).

#### **Relevant Transportation Engineering Projects:**

- **Western Avenue Roadway & Intersection Reconstruction - Lynn, MA**  
Responsibility included preparation of design plans for seven signalized intersections split into two coordinated systems. Heavy pedestrian traffic, bus routes, on-street parking, and limited right-of-way helped shape this urban roadway improvement project.
- **Morton Street Traffic Signal Upgrade - Dorchester, MA**  
Responsible for preparation of design plans for the upgrade of three signalized intersections along this MDC owned roadway. Traffic signal coordination, advance signing, and geometric improvements were part of this improvement project.
- **Town Center Improvement Project - Billerica, MA**  
Prepared design documents for this \$1.5 million beautification project. The design includes upgrading and coordinating the existing signalized intersections and installation of decorative street lighting and landscaped gateways. Strategies that enhanced pedestrian accommodation were also incorporated into the design.
- **Great Way Place Development - Westborough, MA**  
Responsible for preparing roadway and traffic signal modifications at two Route 9 intersections to satisfy mitigation commitments for this 60,000 square foot retail development. The modifications included installation of an acceleration and deceleration lane and coordination of traffic signals via wireless technology. A highway access permit, utility agreement and traffic signal permit were all required by MassDOT as part of this project.

- **Route 3A Intersection Improvement - Kingston, MA**  
For MassDOT, a Technical Memorandum and design plan were prepared recommending traffic signal installation at the Evergreen Street intersection. The operation of the adjacent MBTA railroad crossing was a key component of the design.

**Relevant Transportation Planning Projects:**

- **Town-wide Traffic Signal Evaluation - Greenfield, MA**  
Responsible for evaluating the Town's nine signalized intersections for possible safety and operational improvements. Short term and long term recommendations were made for each intersection with an estimated construction cost. The study helped the Town prioritize its infrastructure improvement program.
- **Downtown Parking and Circulation Study - Ayer, MA**  
Responsible for data collection, analyses and identification of traffic and parking issues in downtown Ayer. The issues involved on- and off-street parking for local businesses, Town Hall employees and visitors, post office operations and an MBTA Commuter Rail Station.
- **Lafayette Convalescent Home Expansion - Marblehead, MA**  
Responsible for the preparation of the Traffic Impact Report for the expansion of the home. Recommendations for accommodating the overlap of shift workers with the limited on-street parking available was presented.
- **Elementary School Site Evaluation - Billerica, MA**  
Responsible for identifying the feasibility of constructing access roads to a proposed elementary school. The need for traffic signal installation, roadway widening, and wetland crossing was included.
- **Villages at Bear Hill - Waltham, MA**  
Responsible for preparing the traffic impact study for this 348-unit luxury apartment complex. The need for exclusive turn lanes and traffic signal installation were evaluated. TDM strategies were recommended.
- **Logan International Airport Enplaning Passenger Survey (1996 & 1999) -East Boston, MA**  
Performed as shift supervisor, responsible for numerous surveyors and the distribution, collection and coding of thousands of questionnaires for the tri-annual Logan Airport Enplaning Passenger Survey. The responses are the foundation for ground-side infrastructure improvements.

**Peer Review:**

Mr. Mills has conducted peer-review of design plans and traffic impact studies on behalf of many cities and towns in Massachusetts. Representative municipal governments include:

- Towns of Bellingham, Braintree, Milford, North Andover, Scituate, Walpole, Westborough and Westford
- Cities of Melrose and Woburn

**Professional Affiliations:**

- American Society of Civil Engineers / Boston Society of Civil Engineers
- Institute of Transportation Engineers