JMD Engineering, Inc. was established in 2003 and is located in Wellington, Florida. John M. Donaldson, P.E., PTOE, president of the firm, has over 25 years experience in traffic engineering, transportation planning and design in Florida. He has specialized in traffic impact studies, site access and circulation plans, parking demand studies and has been qualified to testify in these fields/areas.

John Donaldson has earned a strong reputation for creative problem solving through a solid relationship developed with our clients. This close client relationship has developed through effective communications throughout the course of development for each and every project.

We have demonstrated the capability in providing quality services at competitive costs and we have established a solid record of completing projects on time and within budget. Successful project development begins with good planning.

What makes JMD Engineering, Inc. unique is our specialization in transportation planning. We focus on finding solutions for our private and public clients that improve safety, meet local objectives, and provide for transportation system continuity.
Our Transportation Planning and Traffic Engineering Services include:

- Access Management Planning
  - Access Studies
  - Campus Master Plans
- Campus Parking and Planning Studies
  - Campus Transportation Planning
- Conceptual Design of New Parking Facilities
  - Driveway Permit Applications
  - Highway Point of Access Studies
  - Interchange Justification Studies
- Land Use Planning Studies for Comprehensive Transportation Planning
  - Municipal Study Reviews
  - Parking Data Collection
- Parking Lot Signing and Marking Plans
- Parking Supply and Demand Studies
  - Professional Testimony
  - Public Participation
  - Site Access Analyses
  - Site Access Studies
  - Site Circulation Studies
- State and Municipal Permit Applications
  - Traffic Calming Studies
  - Traffic Data Collection
  - Traffic Impact Studies
  - Traffic Impact Study Reviews
  - Traffic Pattern Analysis
  - Traffic Signal Warrant Studies
- Zoning and Subdivision Ordinance Reviews and Updates

Our Expert Witness Services for Eminent Domain Includes:

- Assist in Preparing and Organizing for Trial, Mediations and Depositions
- Concurrency Determination Issues
  - Damage Assessments
  - Expert Witness Testimony
  - Provide Mitigation Plans
  - Regulatory Approvals
- Review of Proposed Mitigation/Cure Plans
  - Site Analysis
  - Site Cost Estimates
  - Taking Site Impact Analysis
Parking Studies

JMD Engineering can provide a wide range of parking studies and analysis of existing and future parking conditions. Parking Studies are conducted to collect the required information about the capacity and use of existing parking facilities and in addition, information about the demand for parking may be needed. Parking studies may be restricted to a particular traffic producer or attractor, such as a store, or they may encompass an entire region, such as a central business district. There are several different types of parking studies that may be required. These study types that we can provide include:

- Inventory of Parking Facilities
- Accumulation Counts
- Shared Parking Studies
- Duration and Turnover Surveys
- Land Use Method of Determining Demand

Traffic and Transportation Master Planning

JMD Engineering has the knowledge and experience to develop a transportation master plan. Information will be gathered including current traffic volume data, street geometric information, traffic control types, current land use and zoning information and future proposed land use and zoning information. The information will be reviewed to confirm current and/or projected street classifications. Summary reports and street maps will be prepared indicating the future transportation master plan including recommendations on major arterial street networks, traffic control improvements and land use zoning recommendations.

Expert Witness Services

JMD Engineering, Inc. understands that right-of-way acquisition projects can impact existing and future land uses. We provide a broad range of technical services to assist in residential, commercial and industrial right of way acquisitions. Below is a brief outline of our services:

- Cost-to-Cure
- Concurrency Issues
- Development Feasibility Analysis
- Regulatory Approvals and Site Analysis
- Thousands of acquisition sites analyzed
- Provide design cures for specific needs for before and after acquisition
- Cures conform to zoning, permitting and other regulatory requirements
- Assist in preparing and organizing for trial, mediations and negotiations
- Expert Witness Testimony
Traffic Data Collection

JMD Engineering provides traffic data collection services that include collecting twenty-four hour traffic counts, vehicle classification counts, vehicle speed counts and intersection turning movement counts. We utilize the latest electronic equipment available to collect traffic data as accurately as possible. The data is used to complete traffic studies including traffic impact studies, operational analysis studies, classification studies, travel time and delay studies.

Traffic Signal Warrant Studies

JMD Engineering provides the services necessary to conduct traffic signal warrant analysis on intersections where signalization is either currently or projected to be determined to improve the overall safety and efficiency. We utilize current and/or projected traffic volume data, pedestrian volume data and historical crash data to conduct the analysis. The data is compared to the traffic signal warrant information as contained in the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) to determine if the intersection satisfies the warrants necessary for the installation of a traffic signal.

Traffic Simulation and Modeling

JMD Engineering utilizes the latest techniques and software available to conduct traffic simulation modeling and analyses. The latest versions of CORSIM and Synchro, as well as other traffic simulation models are used to analyze traffic flow characteristics on intersections, street networks, corridors, interchanges and highways. The analyses are used for the determination of optimum traffic signal timing for isolated signalized intersections and coordinated traffic signal systems. The analyses are also used to review existing geometric alignments or future geometric changes to intersections.

Traffic Impact Studies

JMD Engineering provides the services necessary to conduct traffic impact studies for new developments and existing sites to be redeveloped. We have experience in conducting traffic impact studies for large and small developments including commercial land uses, residential land uses, institutional (school) land uses and many combinations of mixed land use developments. Analyses will be conducted under current and projected future traffic conditions to determine the traffic impact the new development is expected to have on the adjacent street network. The resultant information is used to identify solutions to reduce or mitigate the impact of the proposed development.