



MASSTR

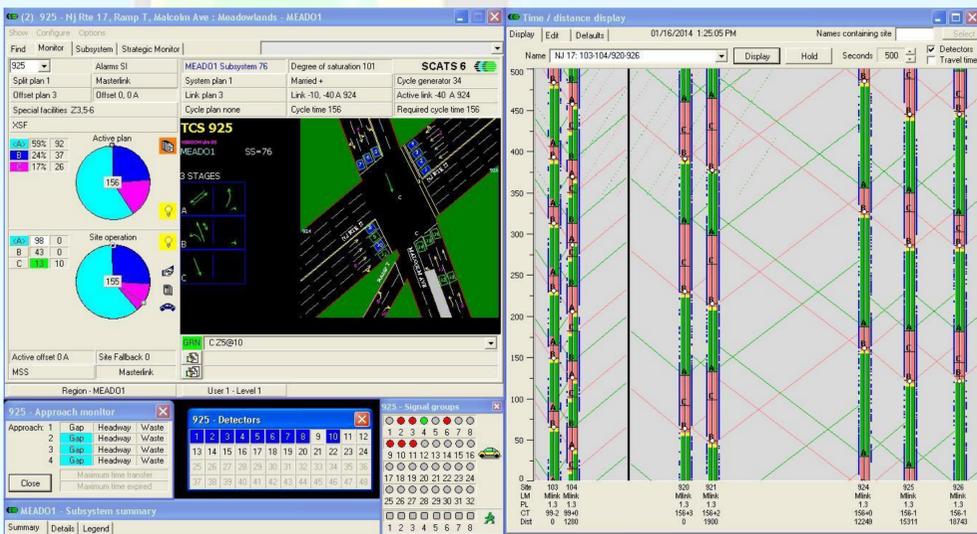


Meadowlands Adaptive Signal System for Traffic Reduction



MASSTR reduces roadway congestion, delays, travel time, fuel consumption, and airborne emissions in the New Jersey Meadowlands through advanced, proven, and cost-effective technologies without sprawl-inducing roadway widening, significant infrastructure spending, or additional right-of-way.

The project incorporates 144 traffic signals into a self-adaptive network. A reduction in congestion is accomplished by adjusting the signal timings based upon the flow of traffic instead of utilizing fixed or actuated timings. Signals along multi-jurisdictional boundaries are continuously coordinated for optimal operation. Traffic conditions and signal operations are monitored and controlled in real-time at the NJMC Traffic Management Center.



All project systems utilize advanced components including adaptive traffic signal control software, wireless and fiber-optic communications, and vehicle detection devices.

Installation of the system is predominantly consists of adding advanced traffic signal control components to existing signal cabinets; mounting vehicle detection cameras, radios, and antennas on traffic signal poles; and installation of various wiring.

The system construction includes five phases and is currently operational at 74 locations. All phases are anticipated to be completed in 2014.



The NJMC was awarded a highly competitive \$10 Million Tiger 2 grant from the U.S. Department of Transportation to install the system on 128 traffic signals in the Meadowlands region. The NJDOT expanded the system by 16 signals for the detour of the Pulaski Skyway construction. An interactive map of the locations is available at www.MASSTR.com

The completed intelligent transportation system will serve more than 3 million vehicles each day. The project is estimated to reduce vehicle delays by more than 1.2 million hours per year, gasoline consumption by more than 1.2 million gallons per year, and greenhouse gas emission by more than 11,000 tons per year.

The MASSTR project is an ideal opportunity to update existing outdated traffic control mechanisms and integrate them into an advanced intelligent transportation system that provides for sustainable transportation improvements and significant regional benefits within a complex region. Area businesses and residents will continuously benefit from a reduction in signal delays, travel time, fuel consumption, and airborne emissions.



New Jersey Meadowlands Commission

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