



VDOT Hampton Roads Transportation

Operations Center ATMS

Client: Virginia Department of Transportation

Location: Hampton Roads, VA



System Features

- DYNAC ATMS® Software •
- Decision Support Management •
- Incident Detection •
- Facility Monitoring •
- Automatic Incident Detection •
- Reversible Roadway Control Gates •
- Video Display Wall •
- Traffic Controllers •
- Vehicle Detectors •
- CCTV •
- Highway Advisory Radio •
- NTCIP •
- DMS •
- Regional Data Reporting •
- Fiber Optics •
- Serial Communications •

DYNAC®

The Integrated Advanced Traffic Management System (ATMS) for Virginia Department of Transportation's Hampton Roads Transportation Operations Center, once complete, will manage traffic on 700 lane miles of roadway located in Virginia Beach, Chesapeake, Norfolk, Suffolk, Portsmouth, Newport News, and Hampton.

Transdyn is responsible for the design, development, integration, commissioning, and support of a traffic management system designed to monitor and control intelligent field devices located on the roadways. The new system reduces congestion and increases motorist safety by integrating and automating various traffic management functions such as vehicle monitoring, incident detection, incident management, motorist advisory, and traffic surveillance.

The system manages one of the largest regional ITS networks in the country. The fully integrated system will cover more than 700 lane miles and manage an array of ITS devices including reversible HOV control gates, nearly 300 CCTV cameras, more than 200 variable message signs, nearly 2,000 vehicle detectors, and approximately 230 roadside traffic controllers. State, regional, and local agencies utilize the system as a data warehouse accessible through the VDOT WAN and the Internet.

The system is managed by Transdyn's DYNAC® Advanced Traffic Management System software running on redundant ATMS and database servers and distributed operations and management workstations.