

INTERSTATE 66 WEST HOV LANES - VIRGINIA

Virginia Department of Transportation . Colorized Pavement Demarcation

PROJECT OVERVIEW



The Virginia Department of Transportation's prime contractor selected DBi Services to install a red colored high friction surfacing treatment on Interstate 66, west of the Interstate 495 Beltway near Washington DC. This was the first large-scale colorized demarcation pavement project completed in the US for a highway agency.

Project Highlights

This section of Interstate 66 has very heavy traffic and is one of the main corridors into central Washington DC, Georgetown and the Pentagon. For some years, VDOT has been utilizing the emergency breakdown lanes as additional HOV Lanes on the inbound and outbound directions during the morning and evening high traffic demand times. These lanes are known locally as the X lanes because of the red or green X that would be visible on the illuminated overhead gantries. VDOT wanted to formalize and reinforce the usage of these lanes during rush hour periods each day by colorizing both lanes in each direction.

The project specifications required the colorized HFST to be installed during the evening hours with highly restricted lane closures. The specifications included a \$15,000 per occurrence penalty if all work-related equipment and traffic closures were not off the highway by 6 a.m. each day. To enable the company to stay on schedule and met the department's aggressive installation time frame, DBi Services installed the entire project with its state-of-the-art, automated continuous application vehicle. This self-contained vehicle applied the resin binder and red colorized HFST in one single full lane width layer. DBi Services completed the application to both HOV Lanes on time and without penalty. This was milestone project for the use of a colored demarcation to direct traffic and a first for the United States, VDOT and the prime contractor.

Relevant Experience Gained

- The color red was selected by VDOT after many months of investigation into a durable long-lasting material that would offer a fade-free colorized surface with friction properties to enhance braking in wet weather conditions.
- The agency and the prime contractor entrusted DBi Services to source a product that would meet all criteria of this innovative project.

Value to the customer

- National and international experience at providing solutions to complex transportation issues with an innovative pavement demarcation processes.
- Operating the world's largest fleet of fully-automated application vehicles with the most advanced electronic on-demand monitoring and specification compliancy controls has allowed DBi Services to be the predominate installer of colored pavement demarcation and high friction surfacing treatments.
- Ability to work with transportation departments, cities, counties, toll authorities and private industries to derive safe and economic world class solutions has earned DBi Services the respect of the engineering community across several continents.



High Friction Surfacing Treatments are eligible for federal and state funding through HSIP (Highway Safety Improvement Programs)

WORLD HEADQUARTERS:

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