SWARCO McCain
DISTRICT OF COLUMBIA

WASHINGTON, D.C.

Washington, D.C. Enhances Urban Mobility with SWARCO McCain's Cutting-Edge Traffic Management Systems

OVERVIEW

To address growing traffic complexity, the District Department of Transportation (DDOT) partnered with SWARCO McCain to deploy the MyCity Traffic Management System (TMS), an intelligent platform that enhances safety and efficiency.

LOCATION

Washington D.C., the U.S. Capital, is located on the East Coast along the Potamic River and is bordered by Maryland and Virginia. The city is home to roughly 700,000 residents and attracts 20 to 25 million visitors annually. Major routes like I-395, I-295, and the George Washington Parkway often face congestion and bottlenecks. Washington, D.C.'s unique combination of grid patterns and diagonal avenues contributes to irregular intersections and frequent traffic conflict zones.

THE CHALLENGE

Washington, D.C. manages over 1,600 signalized intersections using the legacy SWARCO McCain QuicNet Traffic Signal Management Software. Faced with aging traffic infrastructure, DDOT recognized the need to modernize its systems to support growing mobility demands. The challenge of accommodating pedestrians, cyclists, buses, and cars placed significant strain on signal timing and intersection design. DDOT was looking to invest in a new traffic management system that would pave the way for a more sustainable, efficient, and safer transportation network across the district.

SOLUTION

To overcome the challenges of managing over 1,600 intersections with outdated traffic technology, DDOT partnered with SWARCO McCain to deliver a modern, comprehensive solution. The project included a phased migration from QuicNet to MyCity TMS, with both systems temporarily operating in parallel to ensure a smooth transition. DDOT also modernized its central traffic system infrastructure by replacing legacy 170 Controllers with advanced McCain ATC FleX® Controllers running the latest Omni eX® Intersection Control Software.

THE RESULTS

Washington, D.C. now operates on a future-ready traffic management platform that improves safety, reduces congestion, and enhances reliability across complex intersections. Our solution powers Dupont Circle, the most complex intersection in North America, showcasing how SWARCO McCain's advanced traffic solutions tame even the toughest mobility challenges. The city has built a strong foundation for smart city initiatives while streamlining operations, reducing downtime, and supporting sustainable urban mobility.

BENEFITS OF OMNI *eX* INTERSECTION CONTROL SOFTWARE

- Provides a single solution for any controller/cabinet configuration
- Configures inputs, outputs, logic, and NEMA D connectors without external wiring or relays
- Ensures data accuracy and consistency with built-in data validation
- Advanced data collection with MOE and detector logging, stored via USB or central system

BENEFITS OF MYCITY TMS

- Real-time data provisioning
- System monitoring and control
- Robust analytics and in-depth data insights
- Informed decision-making for management

swarco