

Working to Refine IntelliGent Highway Transportation (WRIGHT) NE 139th Street (NW 2nd Avenue to NE 20th Avenue)

Clark County

Project Completed: December 2019

CRP #: 361422

Project Information

RTC funding: \$685,000 CMAQ Program

Total Project Cost: \$1,000,000

Project Type: Transportation Safety Improvement

Project Length: 1.0 miles

Function Class: Minor Arterial

Daily Traffic Volume: 20,000 ADT



Project Description

Traffic signal system upgrades, adding: Adaptive Signal System, Reporting for Transit Signal Priority (TSP), Street Sync Backup and Video Sharing between three agencies (Clark County, City of Vancouver and Washington State Department of Transportation). This project upgraded computer software and hardware, and will extend the functionality of county traffic signals by addressing more efficient movement of vehicle and bus traffic, allow for Clark County and C-Tran to optimize transit operations, quicker maintenance and backup protection for signal controllers, and simplifying multi-agency video sharing across incompatible platforms for better traffic management throughout the region.

Project Benefits

- Installing the Adaptive Signal System software on NE 139th Street replaced clock-based time of day signal operation, and moves traffic more efficiently along the main arterial, and reducing the delay at side streets, which are often under-served by clock-based signals.
- Existing software in the county's traffic control center was upgraded to analyze C-Tran's implementation of Transit Signal Priority in the Highway 99 corridor, allowing the county to detect, track and report C-Tran buses, allowing the county and C-Tran to optimize the transit operations on NE Highway 99.
- Installation of Street Sync software reduces maintenance and repair time by automating backup of highly complex traffic signal controllers not yet added to the county's Ethernet communications network. This Street Sync Module and software allows signal technicians and engineers to make field changes in the controller, upload controller programming to a laptop, then sync those changes to a central traffic system.
- Computer servers and software were purchased that will allow county, City of Vancouver and WSDOT to share live video from their different traffic surveillance systems with each other.

Project Funding

Phase	Year	Federal Funds	Other Funds	Total
Design/Construction	2016	\$685,000	\$315,000	\$1,000,000
Total		\$685,000	\$315,000	\$1,000,000

Project Map

