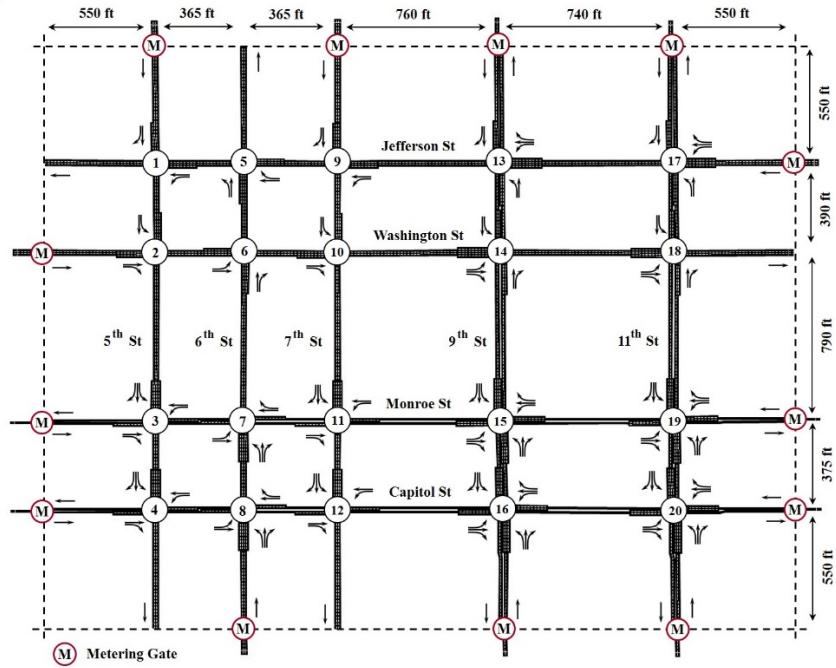


<b>UTC Project Information</b>	
Project Title	Dynamic Metering in Connected Urban Street Networks: Improving Mobility
University	Washington State University
Principal Investigator	Ali Hajbabaie
PI Contact Information	ali.hajbabaie@wsu.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	University of Washington PacTrans \$40,000 Washington State University \$40,000
Total Project Cost	\$80,000
Agency ID or Contract Number	69A3551747110
Start and End Dates	August 16, 2017 – August 15, 2019
Brief Description of Research Project	<p>The goal of this project is to improve mobility by developing a dynamic traffic metering methodology in connected urban street networks. The methodology aims at metering an optimal portion of incoming traffic at the borders or inside the network to increase system-level mobility by avoiding long queues, queue spill overs, and gridlocks.</p> <p>This study presents a network level formulation for dynamic optimization of metering rates in urban street networks. It will also incorporate connected vehicle information in the mathematical model and the proposed solution algorithm.</p>

Describe Implementation of Research Outcomes (or why not implemented)

Place Any Photos Here

The introduced methodologies are introduced in a simulated environment and have shown significant improvement in traffic operations in all test cases



Impacts/Benefits of Implementation (actual, or anticipated)

The anticipated benefit is significant improvement in traffic operations. We have observed considerable reductions in travel time inside the metered area and in the entire system. The approach keeps traffic accumulation inside the network at the optimal level to achieve the highest network capacity and throughput.

Web Links

- Reports
- Project Website