



ENGINEERING • PLANNING • ENVIRONMENTAL SCIENCES

Freeways and Highways

Arterials and Local Streets

Interchanges and Intersections

Park-and-Ride Lots

Multi-modal Transit Centers



Parametrix

Design Engineering

Parametrix provides design engineering for all types of transportation projects from pedestrian improvements to major interstates. Our services include design of roadways, structures, signals, illumination, stormwater conveyance and treatment, trails, traffic control, and construction staging. We also offer value engineering, constructability review, and construction services. Our projects include improvements to neighborhood streets, urban arterials, downtown revitalization zones, and state highways. Parametrix integrates transportation design, traffic engineering, and environmental planning to move projects from planning through design and construction quickly, while making the most efficient use of available funding and resources.

Project Examples

SR 522/Fales Road Interchange – Snohomish County, WA

The Fales Road grade separation project, part of the SR 522 corridor widening effort, features a single point urban interchange, which minimizes the footprint, significantly reducing environmental impacts and right-of-way requirements. The new over crossing structure is a single-span 197-foot post-tensioned box-girder that will be built for three lanes of traffic and can be widened to seven lanes in the future. Parametrix provided design services, project management, surveying, and environmental support.

Franklin Road, Linder to Black Cat – Meridian, ID

Parametrix is providing design and environmental clearance services for this urban arterial road widening project. Elements of the project include roadway design, intersection design, right-of-way analysis, storm drain design, water quality design, and irrigation relocations. Parametrix performed a traffic analysis to determine appropriate segment and intersection lane configurations to accommodate future traffic projections. We will also complete design plans, signing and pavement marking plans, construction traffic control plans, and construction cost estimates.

Port Westward Access Road Improvements – Clatskanie, OR

Parametrix provided design and construction services to improve 7 miles of roadway to the Port Westward industrial site. The project included roadway widening, signing, striping, guardrail, storm drainage, waterline, curb and sidewalk, fence, and a retaining wall. Construction PS&Es were prepared to ODOT standards. The project included public involvement and extensive coordination with the County and City agencies.

Auburn Way South Safety Improvements – Auburn, WA

This section of Auburn Way South (SR 164) was experiencing extreme congestion and high accident rates. Parametrix designed safety improvements including access management, the addition of a northbound lane, installation of a median, modification of the eastbound SR 18 ramp terminal intersection, and the addition of a signal at Auburn Way South and “F” Street. Landscaping and pervious pavers in the median allowed the project to be built with no net increase in impervious surface.

5th / 9th Street Connector – Puyallup, WA

The 5th/9th Street Connector project creates a more direct north/south route on the west side of the Western Washington Fair and allowed for expansion of the fairgrounds across 5th Street. Parametrix performed planning, permitting, design, and construction administration. The project involves shared stormwater detention/treatment facilities, three new signalized intersections, and approximately 7,000 square feet of retaining walls to minimize wetland impacts. We also designed a 5-acre mitigation site providing both wetland mitigation and stream restoration for salmon habitat.

SR 304 Final Design – Bremerton, WA

Improvements to SR 304 encompassed construction of 3,100 feet of five-lane roadway on a new alignment that involved reconstruction and widening of 1,900 feet of existing roadway, three major signals, illumination throughout the project, and improvements to Burwell Street and the downtown CBD area. Parametrix was responsible for environmental documentation, permitting, right-of-way acquisition, coordination with WSDOT, construction staking surveying, and design of a major multi-phase roadway improvement project.

Downtown Revitalization/Streetscape Project – Sequim, WA

The City of Sequim used a State Rural Economic Vitality grant to develop a subarea plan and improve streets and pedestrian amenities within a 14-block downtown area. Bypass connections to the newly aligned Highway 101 and residential areas were provided for efficient vehicle and pedestrian access to jobs, services, and activities. Design features include sidewalks, decorative luminaries for streets and pedestrian lighting, development of a pocket park, extensive planting of trees and shrubs, benches, tree grates, and way-finding signs—all designed to create a pedestrian friendly atmosphere.

Canyon Road / SR 512 Interchange Improvements – Pierce County, WA

Canyon Road is one of the busiest corridors in Pierce County. Parametrix prepared preliminary design, right-of-way plans, and environmental documents for widening 1.25 miles of Canyon Road and 112th Street, adding lanes on three of the interchange ramps, reconstructing three signalized intersections, and acquiring right-of-way from 51 parcels. Parametrix developed a cooperative scheme to combine access and parking among six adjacent businesses which resulted in the businesses actually gaining parking and agreeing to release the County from any mitigation obligations from loss of parking or access.

Evergreen Parkway – Olympia, WA

Evergreen Parkway, a primary arterial through the Evergreen State College campus, was constructed as a wide, four-lane roadway that was no longer needed for capacity purposes, and was in fact creating conditions that resulted in excessive travel speeds. This project included reducing the number of travel lanes from four to two, creating planter strips, reducing impervious surface, developing shared-use bike/pedestrian paths along both sides of the parkway, and a roundabout at the intersection with McCann Plaza. The project embraces several fundamental beliefs that the College promotes—collaboration, sustainability, environmental stewardship, and efficient use of resources.

SW Baseline Road, SW Lisa Drive to SW 201st Avenue – Washington County, OR

This urban arterial realignment project involved widening 1 mile of roadway from two lanes to five lanes, a new bridge over Beaverton Creek, stormwater conveyance and water quality facilities, wetland mitigation, new traffic signal, signal interconnect, roadway illumination, sound barriers, and retaining walls. Parametrix provided project management, environmental services, public involvement, final PS&E, and construction engineering services.

SR 527 Lane Addition – Bothell, WA

Parametrix performed a level of service analysis and preliminary design for the intersection of SR 527 and 214th Street SE and coordinated with WSDOT to obtain channelization approval for signal and lane modification to SR 527. PS&E were completed for the roadway widening to provide an additional lane, curb, gutter, sidewalk, relocation of signal poles, and signal modifications.



OFFICE LOCATIONS

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