



ENGINEERING • PLANNING • ENVIRONMENTAL SCIENCES

Corridor Studies

Comprehensive Plans

Transportation Modeling

Traffic Impact Analysis

Traffic Calming Analysis

Transportation Planning and Traffic Engineering

Transportation planning services at Parametrix range from traffic analyses for individual intersections to regional transportation plans. We have prepared comprehensive transportation plans, corridor studies, pedestrian and trail facilities plans, transportation discipline reports, access point decision reports, and traffic impact studies. We have developed successful multi-modal improvement programs, many within complex technical, regulatory, or environmental contexts. The resulting plans consistently feature a strong level of community and inter-jurisdictional involvement and support.

Project Examples

US 101/South Coast Transportation System Planning Study – OR

The purpose of this study was to develop a multi-modal transportation system plan for the City of Brookings, its surrounding unincorporated area, and the 9-mile US 101 highway corridor from the California state line to north of Brookings. Key issues included evaluation of existing system deficiencies, system needs associated with future community growth, accommodation of summertime peak tourist travel needs, access management, accommodation of through-moving highway needs versus local circulation, safety and traffic control improvement needs, access to intermodal facilities (including the harbor, airport, and trucking depots), bicycle and pedestrian circulation, and paratransit needs.

Lake Hazel Road Extension/Gowen Road Relocation Alignment Study – Boise, ID

As part of an effort to accommodate the Boise Airport expansion, Parametrix completed an alignment study to locate a new arterial connection from the east end of Lake Hazel Road to I-84. This project will also allow the Boise Airport to expand south across Gowen Road without compromising transportation mobility. This project involves design and evaluation of more than 12 miles of new and realigned roadways, intersection design, traffic studies, bridge engineering, floodplain analyses, storm drain concept design, public involvement, and environmental services.

Medford Transportation System Plan – Medford, OR

This plan for Medford, a city of approximately 65,000 people in southern Oregon, included policies and an implementation strategy to carry out the community vision for transportation services. It addressed local level of service standards, incorporated recommendations from two freeway interchange studies along I-5, and was coordinated with other efforts to establish transit oriented development sites within the City. It identified needs and opportunities for development of ITS facilities. The study also addressed major transit corridors and developed tracking mechanisms for alternative measures to reduce single-occupant vehicle travel.

Travel Demand Model Update – Renton, WA

The update of the City of Renton's EMME/2-based travel demand model involved restructuring the traffic analysis zone system for the City, expanding its highway network to include the regional transportation system, updating the trip generation model to incorporate Puget Sound Regional Council's new cross-classification models, restructuring the trip distribution model, developing mode shares for 2020 conditions, and validating the highway network to current traffic conditions.



Parametrix

Non-Motorized System Plan – Ellensburg, WA

Working closely with a citizen's advisory committee that included representatives from Central Washington University, Ellensburg School District, the downtown business community, active bicycle groups, and other community members, Parametrix completed this non-motorized system plan. It addresses pedestrian and bicycle facilities system, as well as shorter distance projects involving safe, non-motorized connections between residential neighborhoods, schools, parks, and other community facilities. Parametrix facilitated stakeholder meetings to discuss objectives, set non-motorized facility design standards, list facility improvements, and develop a capital improvement program.

Selah Loop Road Intersection Alternatives Analysis – Yakima County, WA

Parametrix worked with Yakima County to provide an intersection alternatives analysis for Selah Loop Road. We collected traffic data, prepared 20-year traffic forecasts, conducted an intersection analysis, and identified future lane configuration requirements for roundabout and signalized intersections. Once the analysis was complete, Parametrix assisted in selecting appropriate intersection controls and identifying future lane configuration requirements for the selected alternative. The County selected a roundabout alternative and Parametrix is completing the final design.

Newberg-Dundee Transportation Improvement Project – OR

The Newberg-Dundee transportation improvement project study was a collaboration between ODOT, Yamhill County, and the cities of Newberg, Dundee, and Dayton intended to resolve congestion on Oregon 99W. Several multi-modal alternatives were evaluated, but the biggest contributor to congestion relief will be an 11-mile bypass with four interchanges. Parametrix is preparing a tiered-location EIS to establish a bypass corridor, including consideration of eight corridor-level build alternatives. We are also developing plans for transportation system management, travel demand management, and IT.

Rhodes Lake Road Corridor Study/EIS – Pierce County, WA

This project will increase east-west transportation capacity between SR 162 and the rapidly growing plateau south of Bonney Lake. Parametrix is completing a feasibility study and preparing documentation of the environmental impacts of a new corridor. We have completed traffic projections, alternatives development and screening, and an extensive public outreach program. A key element of the study is evaluating the feasibility of constructing a new bridge crossing of the Puyallup River versus widening one of the existing structures.

I-5 Delta Park to Lombard – Portland, OR

The I-5 Delta Park project is intended to add capacity to I-5 north of Portland. A charrette-style workshop and a series of public meetings were organized to assist ODOT project designers in the development of alternatives for environmental review. Parametrix worked closely with ODOT staff to translate issues identified in stakeholder interviews and public meetings into design alternatives and facilitated the charrettes.

Valley County Engineering Services – Valley County, ID

As the County Engineer, Parametrix prepares roadway designs, traffic studies, intersection designs, drainage designs, transportation and environmental planning, and structural engineering services for various transportation projects across Valley County. We also perform traffic impact analyses and development reviews for the County's Planning and Zoning and Road Departments.



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