

November 16, 2018

City of Merced  
Department of Public Works  
Attn: Jamie Cruz, Management Analyst  
1776 Grogan Avenue  
Merced, CA 95341



**Subject: Proposal to Provide – DESIGN CATEGORY (TRAFFIC ENGINEERING SERVICES)**

Dear Ms. Cruz:

Interwest Consulting Group is pleased to submit our scope of work and rates to provide on-call professional traffic engineering services to the City of Merced Department of Public Works.

Interwest will bring a sub-contractors, **Y & C Transportation** and **WILTEC** onto our team for traffic signal design and traffic data collection and speed surveys.

Interwest will perform services to provide professional traffic engineering to the City of Merced Public Works Department, as described within the Scope of Work on a time and materials basis per the attached rate sheet. The total not-to-exceed contract amount will be determined by the City.

We appreciate the opportunity to present our proposal for your review and consideration. Please contact me at [troschen@interwestgrp.com](mailto:troschen@interwestgrp.com) or 916-842-1069 if you have any questions or would like additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Theron Roschen', with a long, sweeping horizontal stroke extending to the right.

Theron Roschen, PE  
Municipal Services Manager

**SCOPE OF WORK**

We understand that in anticipation of changes in staffing and a heavily increased workload, the City of Merced will require on-call traffic engineering support services in the following areas:

- Review and development of traffic investigation, evaluation and studies
- Review and development of traffic engineering design plans
- Evaluation and development of traffic engineering and Capital Improvement Plan projects and programs
- Staffing and support of Traffic Committee
- Review and additional guidance on modification or development of policies
- Staff training
- Assistance in developing effective and efficient investigation, evaluation methods and procedures
- Assistance in grant funding
- Assistance in Traffic Data Collection and Management

**Specific services include but are not limited to:****Data Collection, Preparation and Review of Investigations, Analysis and Studies**

- Traffic collision, circulation and intersection operation analysis
- Engineering and speed surveys– conduct analysis of speed surveys and offer speed limit recommendations
- Traffic signal, stop sign and school crossing guard warrant studies
- Parking studies
- Residential traffic management study
- Pedestrian and bicycle study for safety and facility improvement
- Evaluation of the city's investigation, evaluation and study methods and practices and areas of improvement
- Review traffic signal timing plans and field operation and provide recommendation for adjustments
- Implement Intelligent transportation systems (ITS) technologies
- City Attorney/Risk Management support for claims/litigation against the City. Provide depositions/expert witness testimony as needed for claims.

**Preparation and Review of Engineering Design Plans**

- Traffic Signal Design
- Traffic sign and striping design

- Traffic detour plan
- Event traffic management
- Safe Route to School

#### Development, guidance and review of program, policies and plans

- Traffic Collision Reduction, Traffic Signal Operation and Maintenance, Striping, Traffic Sign Maintenance, and Safe Route to School programs
- Traffic Signal Priority, Synchronization, Traffic Calming, School Crossing Guard, Mid-block crosswalk treatment policies
- Municipal and Circulation Element
- Mobility plan
- Assistance with the organization and management of Traffic Data used for forecasting future traffic conditions, evaluations and operations of traffic signal system.

#### Assist in Private Development Entitlement Process

- Site Plan Review
- Project impact and mitigation measure
- Traffic Impact Study Review
- Access Management
- Environmental traffic analysis
- Conditions of Approval and Development Agreement

#### Project Management

- Oversee duties performed by the team
- Plan, organize and supervise a variety of traffic engineering tasks and projects
- Supervise the planning, design and review of the traffic engineering-related aspects of Community Development construction projects, coordinating with other divisions and agencies and ensuring that City standards and goals are met
- Represent the City at Caltrans, MCOG, and other regional transportation agencies.
- Work closely with other City Departments to provide support for traffic and circulation improvements
- Attend City Planning Commission and City Council meetings, as directed by City staff
- Handle citizen and business requests, interfacing with the requestor, conducting field work, and preparing the relevant studies, summary reports and work orders
- Coordinate with Merced Police and Fire Departments and the Merced School District regarding traffic safety, proposed new/modified traffic controls and signal operations
- Perform other duties as assigned

**STAFFING**

We propose the following primary staff to provide the described services. Additional staff will support these individuals.

Interwest Staff	Classification
Michael Kashiwagi, PE	Principal-in-Charge
Theron Roschen, PE	Project Manager
Firoz Vohra, TE	Traffic Engineer
David Yatabe, TE	Traffic Engineer
Marty Hanneman, PE, TE	Traffic Engineer
Ruth Smith, TE, PTP	Traffic Engineer / Transportation Planner
Nicole Jules, PE	Civil Engineer / Director of Traffic Engineering Services
Nadia Bosan, PE, PTOE, QSP	Civil Engineer / Traffic Operations Engineer
Grecia Bahena Morillon	Assistant Engineer
Yvonne Soto	Assistant Engineer

**SUB-CONSULTANTS**

**Y&C Transportation Consultants Inc. |** SMBE/DBE, SBE, MBE

Services:

- Prepare plans, specifications, and cost estimates (PS&E) for traffic signals, lighting, and electrical system.
- Prepare PS&E for signing and striping.
- Prepare PS&E for construction stage traffic control to support various infrastructure projects.
- Review traffic signal, lighting, signing, striping, and traffic control PS&E by developers' consultants.

**WILTEC |** DBE, SBE

Services:

- Manual Intersection Traffic Counts
- Manual Vehicle Axle Classification Counts
- Manual Mainline Freeway and Ramp Surveys
- 24-Hour ADT Machine Counts
- Travel Time and Speed Surveys
- Saturation Flow Rate Surveys
- Queuing Surveys
- Vehicle Occupancy Surveys
- Origin and Destination Surveys
- Traffic Data Analysis

# Billing Rates



The rates displayed in the fee schedule below reflect Interwest's current fees. Hourly rates are typically reviewed yearly on July 1 and may be subject to revision unless under specific contract obligations. In addition, there is no charge for shipping, supply, or material costs.

<b>CLASSIFICATION</b>	<b>HOURLY BILLING RATE</b>
<b>Engineering</b>	
Principal in Charge.....	\$200
Project Manager.....	180
Traffic Engineer.....	165
Supervising Engineer.....	160
Senior Engineer.....	150
Engineering Associate III.....	135
Engineering Associate II.....	125
Engineering Associate I.....	115
Engineering Technician III.....	95
Engineering Technician II.....	85
Engineering Technician I.....	85
Student Trainee.....	30
Grading Plans Examiner.....	120
<b>Building &amp; Safety Services</b>	
Certified Building Official.....	150
Senior Structural Engineer.....	140
Licensed Plan Review Engineer.....	140
Senior Plan Review Architect.....	125
ICC Certified Plans Examiner.....	100
Senior Plans Examiner.....	105
CASp.....	100
Permit Technician.....	60
Inspector III.....	95
Inspector II.....	85
Inspector I.....	75
Code Enforcement Officer.....	80
Fire Protection Engineer.....	135
Fire Marshal.....	110
ICC Fire Plans Examiner.....	100
Fire Inspector.....	95
<b>Transportation</b>	
Supervising Transportation Planner.....	130
Senior Transportation Planner.....	120
Associate Transportation Planner III.....	110
Associate Transportation Planner II.....	100
Associate Transportation Planner I.....	90

**Real Estate**

Principal Oversight.....	185
Real Estate Property Manager.....	160
Senior Real Property Agent.....	135
Real Property Agent.....	110
Real Estate Technician.....	95
Senior Administrative.....	75

**Geographic Information Systems**

GIS Project Manager.....	135
Database Administrator.....	125
Senior GIS Analyst.....	120
GIS Analyst.....	95
GIS Technician.....	70

**Information Technology**

IT Project Manager.....	135
Network Engineer.....	125
IT Senior Analyst – Project Manager.....	125
IT Analyst.....	100
IT Technician.....	70

**Planning Services**

Planning Manager.....	160
Principal Planner.....	135
Senior Planner.....	130
Associate Project Planner.....	115
Assistant Planner.....	95

**Administrative**

Management Analyst II.....	90
Management Analyst I.....	80
Senior Administrative.....	70
Administrative III.....	65
Administrative II.....	60
Administrative I.....	55

Overtime, Night & Weekend work 140% of rates listed above

No billing for travel expences



**Y&C Transportation Consultants, Inc.  
2018/2019/2020 Fee Schedule**

Engineer XII	\$220/hr
Engineer XI	\$210/hr
Engineer X	\$190/hr
Engineer IX	\$175/hr
Engineer VIII	\$160/hr
Engineer VII	\$145/hr
Engineer VI	\$135/hr
Engineer V	\$120/hr
Engineer IV	\$110/hr
Engineer III	\$95/hr
Engineer II	\$85/hr
Engineer I	\$75/hr
Technician IV	\$65/hr
Technician III	\$55/hr
Technician II	\$45/hr
Technician I	\$40/hr
Clerk III	\$55/hr
Clerk II	\$45/hr
Clerk I	\$40/hr

**MISCELLANEOUS COSTS**

Reimbursables (Printing and Materials, Express Mail and Delivery Expenses, Filing Fees, Parking and Field Expenses) will be billed at cost.

Auto Mileage will be billed in accordance with current IRS rate.

# WILTEC

## STANDARD RATES SCHEDULE

EFFECTIVE JANUARY 2018

### INDIVIDUAL RATES

Moses R. Wilson, PE.....	\$175.00 per hour
Senior Project Manager.....	\$125.00 per hour
Project Managers / Associate Engineers.....	\$100.00 per hour
Engineering and Field Technicians.....	\$55.00 per hour
Administrative Assistants.....	\$55.00 per hour

### TYPICAL SURVEY RATES

#### Intersection Turning Movement Counts

- Single 2-hour count ..... \$250.00 per intersection
- 2-hour AM and 2-hour PM count ..... \$420.00 per intersection
- 2-hour AM, 2-hour MD and 2-hour PM count ..... \$630.00 per intersection
- 3-hour AM and 3-hour PM count ..... \$630.00 per intersection
- Each additional hour of survey at same location..... \$100.00 per hour  
(minimum \$220.00 per intersection per order)

#### Standard 24-hour ADT machine counts

- First day of survey ..... \$150.00 per location
- Each additional consecutive day of survey at same location ..... \$100.00 per location  
(minimum \$240.00 per order)

Speed or Axle Classification machine counts .....\$150.00 per machine per day

Radar Speed Surveys ..... \$150.00 per survey hour  
(minimum \$240.00 per order)

Floating car surveys .....\$150.00 per survey hour (vehicle costs included)  
(minimum \$400.00 per order)

Parking Surveys .....\$55.000 per hour per technician  
plus appropriate supervisor fees  
(minimum \$240.00 per order)

- **For surveys outside of the Greater San Francisco or Los Angeles areas, please call for quotes.**
- **Rates will be increased by 25% for all manual field surveys conducted between the hours of 9 PM and 5 AM, each additional hour past the first 8 hours of a continuous survey, and on all holidays.**

#### SOUTHERN CALIFORNIA OFFICE

- 596 N. Lake Avenue, Ste. 301, Pasadena, CA 91101 ♦ Phone (626) 564-1944 ♦ Fax (626) 564-0969

#### NORTHERN CALIFORNIA OFFICES

- San Jose, CA ♦ Phone (408) 871-7707 ♦ Fax (408) 871-7711
- E-mail: [info@wiltecusa.com](mailto:info@wiltecusa.com)