



Job Code: 313
FLSA: Exempt
Unit: MGMT
Revised:

SENIOR TRANSPORTATION ENGINEER

DEFINITION

Under general direction from the Deputy Director of Public Works/Transportation, the Senior Transportation Engineer, is responsible for technical management of traffic operations in the City including signal system design and operation, traffic data management, and congestion reduction programs. May act for Deputy Director of Public Works/Transportation in his/her absence; performs related duties as required.

SUPERVISION RECEIVED/EXERCISED

Receives immediate supervision from the Deputy Director of Public Works/Transportation; supervises assigned subordinate employees including technical and paraprofessional employees, temporary personnel, and consultants.

TYPICAL DUTIES

1. Supervises, trains, develops and evaluates technical and paraprofessional personnel.
2. Directs the collection and organization of traffic data; analyzes same for the purpose of evaluating the effectiveness of traffic control and circulation mechanisms and/or identify current potential traffic circulation and control concerns.
3. Develops, recommends, and manages implementation of traffic circulation and control designs to address existing and projected traffic demands.
4. Reviews development plans and traffic impact reports for adequacy of traffic projections, impact analysis, impact on traffic circulation patterns, conformance with existing City traffic design regulations and generally accepted traffic circulation and control principles and practices.

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5. Designs or oversees the design of streets, interchanges, parking, and traffic control projects; prepares detailed construction plans and related documents; bids projects, reviews bids received, recommends acceptance of bids, inspects or assists in the inspection of project during construction.
6. Identifies and evaluates the need for repair and/or upgrade to traffic signal system and makes recommendations for such. Oversees repairs and upgrades to the system.
7. Facilitates and oversees maintenance contracts, including street lights and signal maintenance contracts.
8. Prepares and administers the Traffic Operations section budget and administers the Traffic Calming and Traffic CIP budgets.
9. Coordinates all traffic calming projects including acting as lead contact, meeting with the public and school officials, and overseeing the design and construction of traffic calming devices.
10. As assigned provides professional traffic engineering advice to City staff, public officials, elected and appointed committees, commissions, and citizen groups.
11. Participates with professionals and non-professionals alike in addressing regional and local traffic issues.

MINIMUM QUALIFICATIONS

Knowledge of:

Thorough knowledge of the California Vehicle Code, the Caltrans Traffic Manual; contemporary traffic engineer principles and practices including techniques for analyzing and developing signal timing and coordination plans, techniques for assessing transportation impacts of development and transportation projects; techniques for improving traffic operations and mitigating impacts.

Skill to:

1. Conduct, analyze, and interpret traffic studies.
2. Review and evaluate traffic engineering plans; design streets, interchanges, parking, and traffic control projects; prepare detailed plans and specifications.
3. Work with signal system design including communications, timing plans, controller programming, detection, and system interconnection.

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4. Work with signal operations including determination of optimum signal splits, offset and cycle lengths, preemption, controller functions and settings.
5. Use computers and spreadsheets, word processing, and signal optimization software such as TRANSYT, SYNCHRO/SIMTRAFFIC, and signal monitoring and control software.
6. Carry out multiple assigned functions effectively with changing priorities.
7. Analyze traffic operations to detect and recommend solutions to traffic safety and congestion problems.
8. Ability to write clear and concise reports, and to make oral presentations before citizen groups, the City Council, and other groups.
9. Work in an effective, courteous manner with supervisors, co-workers, professional engineers, other agencies and the general public.
10. Effectively supervise and develop both technical and professional personnel.

Education and Experience:

Any combination of training and/or experience that would likely provide the required knowledge, skills and abilities would be qualifying. A typical way to do this might be:

BS degree in transportation, traffic or related field of engineering and four years of progressively responsible transportation engineering work. At least one year of supervisory experience is desirable.

License:

Valid California driver's license.

Registration:

Must be a registered traffic or civil engineer in the State of California.