

City of San Jose

SUPERVISING TRAFFIC SIGNAL TECHNICIAN (3718)

CLASS PURPOSE

Under general direction, performs work of considerable difficulty in supervising other engineering technicians in design drafting, project management, traffic engineering and traffic signal design. Performs related work as required.

TYPICAL DUTIES AND RESULTS (The position may not include all the duties listed, nor do the examples cover all the duties which may be performed)

- Assigns and supervises the work of a large technical staff in the preparation of improvement plans, cost estimates, and specifications for major projects concerned with traffic signals and traffic signal systems, roadway striping, channelization, and roadway improvements.
- Supervises the preparation of bidding documents, soliciting of bids, and awarding of contracts. Administers the contract, interprets plans and specifications, consults on field problems and signs final completion notices.
- Designs traffic signal facilities for other project engineers, reviews and approves final design and acts as special consultant on all questions related to traffic signals.
- Negotiates, administers and approves payment on consulting engineering contracts for traffic signal design. Develops design criteria, reviews work and approves traffic signal design of consulting engineers on roadway widening projects.
- Trains and evaluates subordinates using prescribed performance reports and establishes future performance targets.
- Prepares reports and Council memos on City projects. Organizes, acquires and maintains office records and files information. Prepares and coordinates consultant agreements. Represents the City with contractors, general public and public agencies in matters related to traffic signal design. Reviews

Typical End Results Include: Ensuring a proper design analysis using City design policies, City Standard Specifications, City Standard Details, City Maintenance and Operational Standards; ensuring engineering and related work compatibility with departmental priorities; ensuring increased vehicular capacity and a safe and orderly movement of traffic; ensuring the design and construction and intended use or function of projects conform to City and CALTRANS requirements and specifications.

DISTINGUISHING CHARACTERISTICS

This is a single position class. The incumbent supervises a unit of engineering technicians in the design of traffic signal projects and performs sub-professional engineering and design drafting, traffic engineering, and office engineering work under the direction of a Senior Civil Engineer.

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Minimum Knowledges, Skills and Abilities

- Knowledge of mathematics, including algebra, geometry, trigonometry, and drafting.
- Knowledge of basic principles, techniques, and terminology of civil and electrical engineering as applied to traffic signal design.
- Knowledge of the principles and practices of supervision.
- Knowledge of State and City standard specifications and standard plans.
- Knowledge of land and topographic survey principles used in preparing project improvement plans.
- Ability to supervise, plan, direct, train and evaluate the work of a large technical staff.
- Ability to maintain effective public relations

Competency Knowledges, Skills and Abilities

Ability to manage a major sub-professional engineering project or program. Ability to independently carry out special assignments and/or analyses.

Training and Experience

Any combination of training and experience equivalent to completion of high school and nine (9) years of increasingly responsible sub-professional engineering work including three (3) years at a level equivalent to a Senior Engineering Technician with the City of San Jose and including three (3) years of experience in traffic signal design.

Licenses /Certificates

Possession of a valid California driver's license.