CITY OF FOLSOM

TRAFFIC CONTROL DEVICE (TCD) TECHNICIAN

DEFINITION

Under direction, perform semiprofessional field and office work related to asset management, Graphical Information Systems (GIS), and support in the maintenance of the traffic signals and related equipment. Incumbents may oversee, monitor, and/or direct the work of lower level personnel.

EXAMPLES OF ESSENTIAL DUTIES

NOTE: The following are the duties performed by employees in this classification. However, employees may perform other related duties at an equivalent level. Each individual in the classification does not necessarily perform all the duties listed.

- Conduct technical studies and investigations pertaining to land or engineering surveying and asset management.
- Participate in the definition and identification of boundaries, establishment of vertical and horizontal control, topographical and hydrographic surveys by conventional and Global Positioning Systems (GPS) methods.
- Perform basic traffic signal control duties involving the installation, repair, maintenance, and modification of traffic signals, street lighting, and related electronic equipment.
- Modify traffic signal control systems according to diagrams.
- Prepare equipment records and written reports.
- Assist in other public works areas, such as vehicle and equipment repair, street construction and maintenance.
- Perform related duties as assigned.

EMPLOYMENT STANDARDS

NOTE: The level and scope of the following knowledge and abilities are related to duties listed under the "Examples of Essential Duties" section of this specification.

Knowledge of:

- Mapping and drafting techniques.
- The California Coordinate System, Land Surveyor's Act, Subdivision Map Act, and other statutes related to land surveying.
- Basic principles of boundary determination, land title research, legal descriptions of real property, easements, and terminology.
- GIS computer mapping programs that allow rapid and sophisticated analysis of spatial data, such as ArcView and AutoCAD.
- Electrical theory and practices including analog and digital solid-state devices.

- Materials, methods, and equipment used in the installation, maintenance, and repair of electric and electronic control devices.
- General work hazards and safety precautions.
- General street construction techniques.
- Basic math principles.

Ability to:

- Inspect, test, repair, and adjust complex GPS and traffic control devices.
- Read and interpret plans and electronic drawings.
- Interpret legal descriptions of real property.
- Perform mapping and drafting.
- Prepare survey documents and descriptions.
- Read and interpret public works project drawings, plans, and specifications.
- Consult with contractors and outside engineering staff to determine requirements of survey and assist management.
- Keep accurate field notes.
- Perform specialized and complex work assignments independently.
- Use a variety of hand and power tools safely.
- Follow oral and written directions.
- Train or guide others in performing the work.
- Assist in a variety of public work assignments.
- Work carefully in hazardous situations.
- Establish and maintain effective working relationships with those contracted in the course of work.
- Effectively communicate verbally and in writing.

Minimum Qualifications:

Education:
Completion of one (1) year college with major course work in GIS, electronics, or civil engineering.

Experience:
Two (2) years responsible experience in GIS/asset survey, traffic signal, or electronic maintenance activities and management.

License, Certification, Registration Requirements:
Possession of, or the ability to obtain and retain, a California Class C driver license by the time of appointment. Individuals who do not meet this requirement due to a disability will be reviewed on a case-by-case basis.

At the option of the City, persons hired into this class may be required to either possess at entry or obtain within specified time limits, designated licenses, certificates or

specialized education and training relevant to the area of assignment. Additional requirements may include, but are not limited to the following:

- Qualified Applicators Certificate or License for pesticide application
- California Class “A” Drivers License
- California Commercial “B” Drivers License with tanker and airbrake endorsements or with passenger endorsement
- International Municipal Signal Association (IMSA) Traffic Safety Specialist in Traffic Safety
- International Municipal Signal Association (IMSA) Signs and Markings Level I or II
- International Municipal Signal Association (IMSA) Traffic Safety Specialist and Traffic Safety Through Work Zones Certificates
- Cardio-Pulmonary Resuscitation (CPR)
- First Aid Certification
- Industrial Emergency Council (IEC) Confined Space Entry, Awareness and Rescue Certificate
- Forklift Certification

Physical Requirements:

Work is performed in a typical outdoor environment on a year-round basis. (1) Mobility: frequent performance of manual labor; frequent standing long period of time; frequent climbing, bending, stooping, crawling, and squatting. (2) Lifting: frequent lifting up to 10 pounds; occasional lifting up to 50 pounds. (3) Vision: constant use of overall vision. (4) Dexterity: frequent grasping, holding, and reaching. (5) Hearing/Talking: frequent hearing and talking in person. (6) Emotional/Psychological: frequent coworker contact; occasional working alone. (7) Environmental: frequent exposure to loud noise; frequent exposure to chemicals, fumes, and other environmental substances.

Information Block

Class Code:	
FLSA Status:	Non-Exempt
Established:	
Revised:	January 2005
Retitled:	
Workers Compensation Code	9410
Bargaining Unit:	Stationary Engineers, Local 39