TRAFFIC NETWORKING SPECIALIST

NATURE OF WORK

This is advanced and technical networking work in the Traffic Operations section of the Engineering Services Division.

Work involves responsibility for the design, development and delivery of hardware and software programs for the City traffic signal system and Intelligent Transportation System devices. Work also includes creating systems models, specifications, diagrams and charts to provide direction to the Intelligent Transportation System team; records, tracks and documents the problem-solving process. Limited supervision is received from a technical or administrative superior in the form of general guidance and review of records, reports and final outcome.

EXAMPLES OF WORK PERFORMED

Creates system models, specifications, diagrams and charts to provide direction to the Intelligent Transportation System team.

Recommends, directs, operates and validates networking configurations, documentations, devices and topologies for systems within Traffic Engineering.

Develops procedures and practices for the installation, operation and maintenance of traffic signal, lighting, and emergency alarm equipment.

Analyzes and develops work processes involving functional computer applications that relate to the maintenance, record-keeping, signal timing, signal monitoring, real-time displays and the field and facilities inventory.

Coordinates with and support of hardware and software integration and maintenance in City Traffic Operations Center.

Coordinates and communicates with Traffic Engineering staff regarding electrical projects and systems.

Provides technical assistance for the configuration, installation, operation and troubleshooting of the network software, hardware and monitoring systems used to support the city traffic networking systems.

Maintains regular and reliable attendance.

Performs related work as required.

DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Considerable knowledge of the City traffic signal system and Intelligent Transportation System

devices.

Considerable knowledge of creating systems models, specifications, diagrams and charts.

Considerable knowledge of coordinating and communicating with Traffic Engineering staff regarding electrical projects and systems.

Ability to communicate effectively both orally and in writing.

Ability to understand and operate complex electronic controls and devices used in traffic signal, lighting and emergency alarm systems.

Ability to establish and maintain effective working relationships with contractors, coworkers, customers and the general public.

Ability to maintain the security of network communication links.

Ability to resolve questions, issues and complaints by observing conditions, researching policies and procedures.

Ability to maintain confidentiality of sensitive information.

MINIMUM QUALIFICATIONS

Graduation from an accredited four-year college or university with major coursework in computer science or civil engineering, the electrical or electronic field, and two years of experience with traffic systems and networking work; or any equivalent combination of training and experience that provides the desirable knowledge, abilities and skills.

6/23

PS1993