

**CLASS TITLE: CHIEF OF ELECTRICAL AND TRAFFIC
CONSTRUCTION PROJECTS**

**Class Code: 02334600
Pay Grade: 33A
EO: C**

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: To plan, supervise and review the work of subordinates engaged in the inspection of new, or maintenance of existing, electrical, traffic and lighting systems in conjunction with a statewide highway construction and maintenance program; to be responsible for the inspection and acceptance of new, or maintenance of existing, electrical and traffic installation; to assist a superior in the administration of the electrical aspects of a statewide highway and bridge construction project program; to perform, under supervision, administrative and advanced work involving the field operations of such construction projects; and to do related work as required.

SUPERVISION RECEIVED: Works under the general supervision of a administrative superior with wide latitude for the exercise of initiative and independent judgment involving technical and administrative matters; work is reviewed upon completion for conformance to departmental policies, rules and regulations, instructions and accepted standards and techniques.

SUPERVISION EXERCISED: Plans, assigns, supervises and reviews the work of assigned technical field operation personnel and support employees.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

To plan, supervise, and review the work of subordinates engaged in the inspection of new, or maintenance of existing, electrical, traffic and lighting systems in conjunction with a statewide highway construction and maintenance program; to oversee resident engineers on multiple projects with major electrical components, and to be responsible for the inspection of the workmanship and practices of contractors and/or state crews engaged in the non-electrical aspects of the construction site(s); to ensure that electrical and construction work, in progress and completed, has been performed according to construction plans and specifications.

To be responsible for monitoring the work of engineering and electrical project staff at intersections and on road sites.

To be responsible for the inspection of new, or maintenance of existing, electrical installations in order to determine that the requirements of the National Electrical Code and the National Electrical Safety Code have been followed.

To supervise the inspection, installation, or maintenance of traffic signals and street lighting to determine that the fixtures have been properly wired, grounded, and fused.

To supervise the inspection of new and existing maintained transformer vaults and determine wire sizes, type of insulation, voltage capacity, breaking capacity of circuit breakers and the interrupting capacity of these breakers.

To supervise the inspection and maintenance of conduits and ducts for size, and the proper angle of inclination when installed underground.

To supervise the inspection of installation of new traffic lights, and maintenance of existing traffic lights and their controllers, to determine that the equipment is according to specification and properly installed, wired within the proper types and sizes of conductors, and that the controllers are gas sealed from any adjacent manholes.

To analyze and review data from test runs on electrical equipment, including varied types of metering equipment, ammeters, voltmeters, wattmeters and illuminometers.

To supervise project resident engineers concerning corrective measures where situations arise involving failure to follow plans and/or specifications.

To prepare final reports on work in progress and final acceptance of installation and/or construction completed by the contractors, and other maintenance reports.

To assist, as needed in personnel recruitment activities, disciplinary actions and labor contract administration and grievance adjudication.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A thorough knowledge of the National Electrical Code and the National Electrical Safety Code; a thorough knowledge of the basic engineering principles, practices and techniques required in the inspection and evaluation of intersections and road sites undergoing major electrical installation projects; a thorough knowledge of the principles, techniques, equipment and materials used in the electrician trade; a working knowledge of electronics; the ability to read and interpret road and highway construction plans and specifications; the ability to prepare reports concerning defects in electrical installation; the ability to plan, supervise, and review the work of electrical, engineering, and technical subordinates; the ability to establish effective working relationships with associates, superiors, and electrical and construction contractors; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a community college or technical school of recognized standing including the successful completion of courses in engineering, emphasizing specialization in electrical or traffic engineering principles; and

Experience: Such as may have been gained through: considerable employment in a responsible supervisory position within the public or private sector with a highway construction and maintenance program overseeing licensed electricians inspecting electrical and traffic systems.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

SPECIAL REQUIREMENT: At the time of appointment, must possess a Class A contractor's license issued by the Rhode Island State Board of Examiners of Electricians, and must maintain such license as a condition of employment.

Class Revised: April 10, 2016

Editorial Review: 3/15/03