

## SENIOR CIVIL ENGINEER

GENERAL STATEMENT OF DUTIES: Performs professional engineering work; does related work as required.

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision of the City, Town or Village Engineer, this position involves the performance of difficult engineering work primarily on the design of pavements, curbs, sidewalks, sewers, storm drains, water mains and basic structures. An engineer at this level is responsible for various projects on an independent basis and would only confer with the City, Town or Village Engineer where policy decisions or highly difficult engineering problems are concerned. The incumbent may act for the municipal Engineer in his/her absence, if so designated. Supervision may be exercised over a small number of engineering and technical personnel.

### EXAMPLES OF WORK: (Illustrative Only)

Supervises and participates in the design of pavements, culverts and storm sewers;

Conducts basis studies and designs various public works projects;

Supervises and participates in the design of sewers and structures, as reported;

Prepares plans, estimates, and specifications for municipal infrastructure projects, describing location and specifying particular materials to satisfactorily and economically perform the function desired;

Writes material for detailed specifications;

Supervises the inspection of construction to see that work conforms to plans and specifications, and interprets design and specifications for contractors;

Computes and compares estimate of payments to contractors, both partial and final, and prepares progress reports;

Works with state and local engineers on coordination of road systems;

Confers with superior on various engineering and technical problems;

May use various computer applications such as word processing, spreadsheets, calendar, e-mail and database software in performing work assignments.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Thorough knowledge of civil engineering, including route surveying and designing, use of curves and earthworks, and mass diagramming; thorough knowledge of materials selection for roadway surfaces, and treatment of existing surfaces; thorough knowledge of the practices of specification writing; thorough knowledge of construction estimating, including relative cost of materials related to useful life; good knowledge of the legal principles of and practices of contract preparation; skill in design of highways and related structures, or similar proficiency in the fields of sewer, storm drain or water main designs; skill in performing complex engineering computations; ability to lay out and supervise the work of professional and sub-professional engineers; ability to get along well with others and to deal effectively with contractors; accuracy; ability to effectively use various computer applications including computer assisted design programs; reliability; resourcefulness; sound professional judgment; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: Possession of a current Professional Engineering License issued by New York State.

NOTE: Education beyond the secondary level must be from an institution accredited or recognized by the Board of Regents of the New York State Education Department as a post-secondary, degree granting institution