

LANCASTER COUNTY
ENGINEERING TECHNICIAN III

NATURE OF WORK

This is responsible supervisory and highly complex technical work in connection with any branch of engineering and/or land surveying in the field and/or office.

Work responsibilities may include one or more of the following: direct major highway and bridge projects; supervision of subordinate personnel performing preliminary and construction surveys of bridge, culvert and road projects which may run concurrently; drafting of preliminary and final surveys of future bridge, culvert, and road projects; and supervising and assisting in annual visual inspections of existing bridges and culverts. Supervision is exercised over subordinate supervisory and technical personnel on assigned projects. Supervision is received from an administrative or professional superior in the form of reports and results achieved, although employees of this class exercise considerable independent judgment in performance of assigned duties.

EXAMPLES OF WORK PERFORMED

Directs major highway and bridge projects; plans and schedules construction projects coordinating with the department's budget; prepares bid documents and specifications for road construction work to be performed under contract.

Supervises and assists subordinate personnel in preliminary and construction surveys pertaining to bridge, culvert, and road projects.

Supervises, assists, or performs inspections of all work assigned.

Coordinates inspection, construction, and survey activities with appropriate departments and/or contractors.

Administers assembly of construction plans package; creates and maintains template construction letting specifications; coordinates with the purchasing department for advertising, award, and contracting projects.

Assists with the material and equipment procurement process; assembles single item bids for equipment and vehicle procurement, annual material supply and unit price contract specs for submittal to purchasing; utilizes existing contracts of other government agencies.

Maintains the engineering county asset management system by tracking the drainage structure inventory, drainage structure book, road inventory and rock report; communicates with information technology for inclusion in the GIS asset system.

Records data related to surveys and inspections and submits reports to appropriate persons.

Locates and perpetuates all section corners within Lancaster County, and supervises survey crews involved in necessary field work.

Performs computations necessary in design and checking of construction plans for deviation from plans and specifications.

Performs drafting of preliminary and final surveys of future bridge, culvert, and road projects.

Supervises and assists in annual visual inspections of bridges and box culverts.

Performs related work as required.

DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Extensive knowledge of, and the ability to apply, the technical principles, methods and procedures of engineering and land surveying to the work being performed.

Extensive knowledge of, and the ability to apply, the technical principles, procedures, standard specifications and current policies to the planning, design, and construction of assigned project.

Ability to make complex and varied engineering and surveying computations.

Ability to plan, assign and supervise the work of subordinate supervisory and technical personnel.

Ability to work independently on a variety of complex projects with only periodic and general instructions.

Ability to establish and maintain effective working relationships with governmental officials, co-workers, and the general public.

MINIMUM QUALIFICATIONS

Associates degree in construction management, computer science, drafting or other related engineering field (civil or surveying) and five years of experience of a technical nature; or any equivalent combination of training and experience that provides the desirable knowledge, abilities, and skills. Registration as a Land Surveyor by the State of Nebraska if engaged in land surveying.

NECESSARY SPECIAL REQUIREMENT

Possession of a valid driver's license when operating a vehicle is necessary to the satisfactory performance of assigned duties.