GIS TECHNICIAN

FLSA STATUS: Non-Exempt

NATURE OF WORK

This is entry level technical support work performing a variety of GIS support tasks. Work is performed under the continuing supervision of the GIS Coordinator. The employee may be expected to give guidance and assistance to less experienced employees.

ESSENTIAL FUNCTIONS OF WORK (May not include all of the duties performed.)

In a developing or learning capacity:

Create and modify GIS datasets and map layers; and work with geodatabases.

Assists in developing and implementing GIS applications for database maintenance and map output.

Uses GIS applications to query, analyze, display and interpret department GIS databases.

Performs quality control of GIS attribute and spatial data.

Converts paper and CAD data into a GIS format. Locates and compiles graphic data and attributes from plans, profiles, field data collection, and other sources.

Accurately collects and records asset data, including asset type, condition, location, age, photos, and other pertinent information.

Maintains maps in ArcGIS

Utilize ArcGIS Collector, ArcGIS Solutions, and other products

Generates, collects, and processes data on location-based assets utilizing legal documents, desktop and mobile applications, aerial photography, GIS software and equipment.

Assists with developing and maintaining GIS based asset management systems

Keep up-to-date with GIS equipment, software, and training to improve efficiency and accuracy

REQUIREMENTS OF WORK

Considerable knowledge of: geographic information systems (or GIS) themes, geo-data bases, and shape files.

Knowledge of principles and practices of data collection and report preparation.

Ability to operate modern office equipment; operate electronic surveying equipment, GIS software, Global Positioning System (GPS) equipment, plotters, and map reproduction equipment.

Ability to collect, compile, and analyze information and data.

Experience digitizing maps for effective presentation of map format and elements, scale, color, shading, symbols, and other elements such as images, graphs, tables, and overlays.

Ability to maintain a variety of technical records and adapt records systems for computerization.
GIS TECHNICIAN (continued)

Ability to perform technical work involving the use of independent judgment and personal initiative.

Ability to plan and organize work to meet schedules and time lines.

Ability to exercise good judgment, flexibility, creative, and sensitivity in response to changing situations and needs.

Ability to communicate effectively with a wide variety of individuals, perform accurate and timely data entry, read and comprehend technical information, provide effective customer service, and establish and maintain effective and cooperative working relationships with City employees, other agencies, and the public.

Ability to operate a motor vehicle.

DESired MINIMUM TRAINING AND EXPERIENCE

Geographic Information Systems Technician Program Certificate or equivalent and one year experience in engineering, GIS applications or civil asset management or related work; or any equivalent combination of training and experience at a minimum.

Associate degree (A.S/A.A.S.) or equivalent from two-year College or technical school in Geographic Information System Technician, Engineering Technology, or other related field, and one year experience in engineering, GIS applications or civil asset management or related work; or any equivalent combination of training and experience preferred.

NECESSARY SPECIAL REQUIREMENTS

Possession of a valid North Dakota driver's license.

PHYSICAL REQUIREMENTS

While performing the duties of this job, the employee is frequently required to sit; talk; hear; stand; walk; use hands and fingers to feel, handle, or operate objects, tools, or controls; and reach with hands and arms. The employee is occasionally required to climb, balance, stoop, kneel, crouch, or crawl.