

Highway Bridge Designer Supervisor V56655

DESCRIPTION OF OCCUPATIONAL WORK

Under limited supervision of a Registered Professional Engineer supervises a structural design team and performs the most complex structural design work and technical geometric design work; prepares plans for assigned complex bridges and related civil or structural engineering projects; performs related work as required.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below.)

N/A

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Plans, assigns, trains, and supervises the work activities of assigned staff to attain work goals and to ensure consistent application of administrative policies, procedures, and standards.

Supervises, evaluates, and compares work performance of assigned staff with established standards to determine the quality and quantity of employees' work and to recommend personnel actions such as appointments, promotions, disciplinary actions, grievance dispositions, status changes, and separations and to identify employee training needs and to improve career advancement potential.

Prepares final plans for typical (concrete slab, prestressed concrete I-beam, and double tee, rolled and welded plate steel) bridge projects, which may include new structures and/or rehabilitation, re-decking, widening and overlay, or repair of existing structures. Bridge projects may include stream crossings, grade separations over roadways and railroads, and underpasses.

Reviews consultant plans for conformity with Nebraska Department of Transportation (NDOT) policies and procedures.

Communicates with other divisions within the department, other agencies and branches of government, utility companies, consultants, and contractors to ensure proper plan preparation and to solve problems which develop during fabrication and construction.

Reviews field construction problems, makes recommendation for corrective action, and oversees plan revisions.

Oversees and maintains CAD standards for NDOT Bridge Division. Works with internal and external partners in the implementation of new software and technologies.

KNOWLEDGE, SKILLS, AND ABILITIES REQUIRED: (These are needed to perform the work assigned.)

Knowledge of: personnel rules and regulations, union contract and related supervisory personnel policies and procedures; NDOT Bridge Design Standards and Bridge Office Policies and Procedures Manual (B.O.P.P.); moderate knowledge of "Nebraska Standard Specifications for Highway Construction"; pertinent parts of "NDOT Roadway Design Standards" "AASHTO Standard Specifications for Highway Bridges" and Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals"; physics; engineering principles, including statistics, strength of materials and engineering mechanics; soil mechanics; the development process of a final set of bridge plans.

Skill in:

Ability to: detect errors, discrepancies, and omissions through examination of detailed drawings, calculations and notes; accurately transfer information in numerical, written or sketched form from sources such as survey notes, preliminary sketch sheets and design computations to design plan sheets; read, understand and interpret the terminology and symbols used in roadway plans, traffic signing and lighting plans.

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance.)

Two years of education and/or experience in drafting, engineering, or related bridge construction.

LEGAL REQUIREMENTS: (These qualifications are mandated by federal/state laws, statutes, and/or regulations.)

N/A

SPECIAL NOTES:

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).

Established: <XX/XX>

Note: Classification-specification is subject to change. Please refer to the Nebraska State Personnel Job Specification website at <https://das.nebraska.gov/personnel/classcomp/jobspecs/jobspecs.html> to ensure this represents the most current copy of the description.

The following is a summary of changes made to this class specification.

Section	Change Description	Effective Date
Entire Spec	Reactivated Spec	4/24/2023