

LAND SURVEYOR SENIOR

KIND OF WORK

Second level professional land survey work.

NATURE AND PURPOSE

An employee in this class is responsible, within a highway construction district, for supervising the operation of district survey crews engaged in collecting reliable survey data using the most modern land survey equipment and techniques. Responsibility extends to certifying government land corners, boundary surveys, and highway right-of-way plots as required by state law and department policy. Incumbents prepare preliminary and final survey reports and ensure they are properly recorded as public records. Field activities are supervised by the highway district surveys engineer although incumbents are permitted wide latitude for the use of independent judgment to produce desired results.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Directs a survey crew to improve the accuracy of land survey information required by the department.

Solves surveying problems within a highway district in a manner consistent with departmental standards and practices.

Provides guidance in the use of modern surveying equipment and techniques to other survey personnel in a district to upgrade their knowledge and skills in the field.

Prepares and certifies documents for the department to ensure their proper recording and conformity to law and departmental policy.

Works closely with other technical personnel to give and receive information; coordinates activities with engineers responsible for related phases of the work and communicates with county surveyors and engineers to facilitate the development of a more accurate and economical land surveying program for the department; appears as an expert witness in court cases involving boundary disputes to represent the state and verify land survey methods utilized.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Considerable knowledge of appropriate principles and practices of surveying, sufficient to solve complex surveying problems.

Considerable knowledge of surveying standards adopted by the department and the basis for their development.

Considerable knowledge of modern survey equipment such as theodolites, electronic distance equipment, and programmable electronic calculators.

Considerable knowledge of modern survey methods such as astronomic observation and electronic computation and programming.

Ability to:

Adapt and improvise in areas not specifically covered by guides and standards.

Present opinions and conclusions in a clear and convincing manner.

Train survey crews in appropriate land survey techniques and direct their activities.

Develop and maintain effective working relationships with departmental officials, subordinate personnel, related engineering personnel in other public jurisdictions, and the general public.

LEGAL/LICENSURE

Registration with the Minnesota Board of Registration for Architects, Engineers, and Land Surveyors as professional Land Surveyors.

Est.: 5/73
Rev.:
Ckd.: 11/92

T.C.: 5/83
Former Title(s): Land Surveyor II