

ILLINOIS DEPARTMENT OF CENTRAL MANAGEMENT SERVICES  
CLASS SPECIFICATION

CARTOGRAPHER III

POSITION CODE: 06673  
Effective: 6-21-95

DISTINGUISHING FEATURES OF WORK:

Under direction, supervises a cartographic unit and in unitary performance, accomplishes highly complex cartographic duties in the process of making maps for use in state, county, municipal and Division of Highways and Water Resources programs.

Assignments described the scope and goals to be obtained and afford an opportunity for exercision of independent decision-making in the execution of tasks to the end of achievement of prescribed goals.

ILLUSTRATIVE EXAMPLES OF WORK:

1. May act as an assistant to the supervisor of a large unit engaged in the construction of maps to scale from prepared table of lengths of terrestrial arcs of medians and parallels, points of known location, aerial photographs, Illinois State Plane Coordinates, utility and government maps and engineering data.
2. Directs the supervision of a subunit consisting of cartographer and technicians engaged in the compilation and preparation of area maps by photogrammetric methods, showing topography, elevations, contour lines and other engineering data.
3. Supervises cartographers and technicians in the preparation of highway and waterway improvement plans, profiles, shear line diagrams and cross section sheets, including the compilation of data by photogrammetric methods; instructs subordinates in methods and procedures to be utilized and trains cartographers and engineering technicians as necessitated in the operation of the unit.
4. Supervises the layout of disposition diagrams, gridding and plotting by use of Coordinatograph, editing and the preparation of cover sheets.
5. Responsible for the dispatching of finished products with the relevant correspondence and for the development of charts and graphs.

### CARTOGRAPHER III (Continued)

6. Prepares cost estimates and final cost data for the cartographic portion of all mapping projects.
7. Performs other duties as required or assigned which are reasonably within the scope of duties enumerated above.

### DESIRABLE REQUIREMENTS:

#### Education and Experience

Requires two years of college study with the major emphasis in studies being pre-engineering, photogrammetry, and/or geodetic surveying or equivalent experience.

Requires six years of experience in cartography, four years of which would be in highway or waterway work, of which two years of experience must be compilation of area maps and collection of data by photogrammetric methods.

#### Knowledges, Skills and Abilities

Requires extensive knowledge of the science of cartography, including topographical and mechanical drafting, the transference of written data to map surfaces and the use of accepted map symbols.

Requires thorough knowledge of the lithographic and allied graphic arts in the publishing field.