



# Drafting Technician I

Salary Group: A17

Class Code: 2181

<u>CLASS TITLE</u>	<u>CLASS CODE</u>	<u>SALARY GROUP</u>	<u>SALARY RANGE</u>
DRAFTING TECHNICIAN I	2181	A17	\$36,976 - \$58,399
DRAFTING TECHNICIAN II	2182	A19	\$42,244 - \$68,960

## GENERAL DESCRIPTION

Performs complex (journey-level) drafting work. Work involves compiling and organizing engineering and drafting data, designing structures and recommending design changes, and preparing specifications and estimates. Works under general supervision, with moderate latitude for the use of initiative and independent judgment.

## EXAMPLES OF WORK PERFORMED

Designs structures and recommends design changes.

Prepares preliminary and final plans, specifications, estimates, detailed drawings from field notes, instructions, original plans, proposed changes, diagrams, and other data.

Prepares preliminary and final quantity estimates and hydraulic calculations for drainage structures.

Draws plans and maps by hand or with computer-aided graphics and makes revisions as needed.

Produces contour maps, isometric projections, miscellaneous sketches, and right-of-way maps.

Assembles construction information and details for plans, calculates vertical and horizontal curves, and plots preliminary and final cross sections.

Checks calculations, shop drawings, and submittals by contractors for pay estimates or conformance to plans and specifications.

Checks field notes and plots preliminary and final cross-sections.

Assists in preparing reports requiring maps, charts, and sketches.

Performs related work as assigned.

## GENERAL QUALIFICATION GUIDELINES

### EXPERIENCE AND EDUCATION

Experience in drafting work. Graduation from a standard senior high school or equivalent supplemented by courses in drafting, architectural or mechanical drawing, and mathematics is generally preferred. Experience and education may be substituted for one another.

**KNOWLEDGE, SKILLS, AND ABILITIES**

Knowledge of drafting principles, techniques, and procedures; of algebra, geometry, and trigonometry; of engineering and surveying principles; and of building construction methods and components.

Skill in the use of drafting and lettering instruments and computer graphics equipment.

Ability to draft plans and drawings; to interpret field notes, sketches, plans, or specifications; to make mathematical calculations; to check drawings, computations, plans, estimates, design details, or specifications for accuracy; to analyze and solve drafting and design problems; and to communicate effectively.