

## HIGHWAY DESIGN TECHNICIAN II

DESCRIPTION: Under general supervision, performs drafting tasks, using Computer Aided Design (CAD) technology, for Department of Roads projects such as rural full-grading or less complex urban projects, or for assigned portions of more complex projects such as expressways; performs related work as required.

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.)

Runs horizontal and vertical alignments using design software.

Drafts design data such as design plan sheets, typical cross-section of improvement, plan and profile, special plans, etc.

Drafts design data such as design plan sheets for traffic signals, highway signs, pavement marking and traffic control plans including typical plans, special plans and tables of data.

Interprets and inputs existing topography from survey notes.

Produces 2A and/or 2W sheets, court plats, landscaping plans, and wetland sheets using scanned aerial photographs.

Develops design details from various sources, such as designer notes, vendor catalogs or related plans.

Interprets legal descriptions and legal agreements; inputs onto plans.

Assists in preparing public hearing displays by completing assigned tasks, such as setting up computer files to make slides and generate color plots.

FULL PERFORMANCE KNOWLEDGE, ABILITIES AND SKILLS REQUIRED: (These may be acquired on the job and are needed to perform the work assigned.)

Knowledge of: how to apply standards and procedures; current standard plans and special plans.

Ability to: be proficient in applying CAD technology to drafting tasks; apply standard or special plans appropriately; interpret and utilize survey notes.

Skill in: communicating with designers or squad leader about drafting problems; properly composing sheet layout.

ENTRY KNOWLEDGE, ABILITIES, AND SKILLS REQUIRED: (Applicants will be screened for possession of these through written, oral, performance, and/or other evaluations.)

Knowledge of: plotting surveys, and horizontal and vertical alignments; what information is required on plans.

## HIGHWAY DESIGN TECHNICIAN II (continued)

Ability to: utilize conventional and CAD technology to perform drafting tasks.

JOB PREPARATION GUIDELINES: (Entry knowledge, abilities, and/or skills may be acquired through, BUT ARE NOT LIMITED TO, the following coursework/training and/or experience.)

Any combination of training and/or experience that will enable the incumbent to possess the required knowledge, abilities and skills. A general qualification guideline for positions in this class is high school education or equivalent AND education or experience in civil drafting.