

Clayton County	
Title: Engineering Technician V Class Code: TD274	

PURPOSE OF CLASSIFICATION

Performs a variety of technical engineering related work. Provides field support to supervisors, other engineering technicians, and engineers on road construction, road design/survey, traffic engineering, and utility construction projects. Work requires familiarity with engineering specifications, construction standards, or department procedures as they relate to assigned duties. Must be able to work independently in applying these rules and procedures to a variety of work situations and problems. Work is performed under the general direction of a supervising engineer who monitors and inspects work while in progress and upon completion.

ESSENTIAL FUNCTIONS

The following duties are normal for this position. The omission of specific statements of the duties does not exclude them from the classification if the work is similar, related, or a logical assignment for this classification. Other duties may be required and assigned.

Assists in the planning, prioritizing, and scheduling of assigned projects and tasks.

Assists with the design of roadway and parking lot pavement markings.

Fabricates complex road and parking signs using various hand tools.

Designs intermediate to complex signs using a computer.

Installs signs and markings according to Manual on Traffic Control Devices (MUTCD) requirements.

Uses automatic data recording devices such as radar gun or traffic recorder. Perform collection of miscellaneous roadway data features for Geographic Information System (GIS).

Performs traffic studies.

Performs inspections of roadway features and elements; compare conditions to established standards; record/document characteristics and deficiencies; propose repair, maintenance, and improvement methods; and monitor progress.



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Records data collected in the field regarding inspection work, inventory data, traffic studies, and other information onto log sheets, spreadsheets, computer programs, and/or maps for documentation.

Assists Signal Technicians with troubleshooting of intermediate signal operation parameters remotely from the Transportation Control Center (TCC).

Performs TCC operational and maintenance activities including operation of surveillance cameras, variable message signs, basic traffic signal timing modifications, fiber optic cable communication troubleshooting, and basic surveillance camera repairs.

Monitors daily traffic operations utilizing TCC components.

Assists with troubleshooting network communication functions of the TCC and traffic signal network.

Assists with maintenance and operation of communication equipment.

Reviews field locations for construction activities by utilities. Assist with the issuance of permits and daily operations of the Utility Section.

Assists with the County's compliance with the "Call before you dig" law by the Utility Protection Center. Field locates, marks, and documents County utility facilities.

Prepares immediate to advanced drawings of construction projects, intersections, signal layouts, pavement markings, and other projects using automated drawing/drafting equipment and incorporating information from previously developed plans, sketches, notes, and other sources of information.

Maintains automated and manual files of drawings and drafting information. Prepares graphic displays, exhibits, and presentation materials as requested.

Performs advanced-level survey related tasks. Provides construction staking and survey controls for construction projects.

Performs property records and deed research activities. Develops right-of-way deeds.

Fields surveys existing and post-construction components for inclusion into design drawing and/or database system.



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Documents work activities and other data on departmental forms.

Assists with the review and response to citizen inquiries.

Reads and interprets project plans.

ADDITIONAL FUNCTIONS

Loads equipment, tools, and supplies required for assigned work; fuels truck; drives to job site; sets up equipment.

Flags and directs traffic and places temporary traffic control devices around project/work site to ensure safety of crew and the traveling public.

Assists with the upkeep and cleanliness of the Transportation and Development facility including shop area, storage areas, and material yards.

Maintains and cleans equipment and vehicles.

Performs manual labor as required.

Participates as needed in repair efforts related to inclement weather conditions, natural disasters, and other emergency situations.

Performs other related duties as required.

MINIMUM QUALIFICATIONS

Associate's Degree in related field; supplemented by three (3) years of experience using hand tools, general construction, including one (1) year of project management experience; or High School Diploma or GED; completion of a certificate program at a Technical college in a related field; supplemented by six (6) years of experience using hand tools, general construction, including two (2) years of project management experience; or High School Diploma or GED; supplemented by ten (10) years of experience using hand tools, general construction, including four (4) years of project management experience; or any equivalent combination of education, training, and experience which provides the requisite knowledge, skills, and abilities for this job. Must possess and maintain a valid Georgia driver's license. Preferred candidate would hold certification as a Flagman and a Work Zone Traffic Control Supervisor.



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ADA COMPLIANCE

Physical Ability: Tasks require the ability to exert moderate, though not constant physical effort, typically involving some combination of climbing and balancing, stooping, kneeling, crouching, crawling, and that generally involves lifting, carrying, pushing and/or pulling of moderately objects and materials (20-50 pounds).

Sensory Requirements: Some tasks require the ability to perceive and discriminate colors or shades of colors, depth, texture, and visual cues or signals. Some tasks require the ability to communicate orally.

Environmental Factors: Performance of essential functions may require exposure to adverse environmental conditions, such as dirt, dust, pollen, humidity, rain, temperatures, noise extremes, wetness, machinery, and vibrations or traffic hazards.

