



The City Beautiful

City of Coral Gables Job Description

Job Title: Structural Engineer
Department: Development Services
Classification: 1114
Pay grade: 32E
FLSA: Exempt

Prepared Date: 04/2013
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Summary

Performs engineering work in the review and approval of structural plans to ensure compliance with the Florida Building Code. Provides structural and design support to the City and Development Services Department by enforcing regulatory building codes for quality construction. Responsible for conducting field inspections to ensure compliance with approved plans. Performs evaluation work involving the application of skilled technical knowledge and judgment in examining plans, blueprints and other specifications for conformity to legally established requirements. Exercises considerable initiative and independent judgment under the direction of the Building Official .

Essential Duties and Responsibilities

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.

Examines the structural design and calculations of plans, blueprints, and specifications submitted to the City.

Ensures that design parameters are in place and Federal Emergency Management Act regulations are met.

Approves or denies proposed plans in accordance with codes and other regulatory requirements. Assists owners, architects, engineers or contractors with bringing plans into compliance.

Inspects new construction sites, renovations, repairs and condemnation when necessary, to ensure compliance with permits and building codes as they relate to the structural discipline; inspects structural conditions; prepares reports and makes recommendations on occupancy use of structures.

May administer F.E.M.A. flood plain regulations, conduct field inspections, evaluate damages and maintain F.E.M.A. file systems.

Communicates with contractors, architects and engineers regarding plan designs and structural requirements.

Performs related work as required.

Knowledge, Skills, and Abilities

Knowledge of the principles of structural design for all types of buildings. Knowledge of laws and regulations governing construction. Considerable knowledge of general constructions methods and procedures, as they pertain to building, roofing and structural integrity.

Ability to enforce F.E.M.A. (Federal Emergency Management Act) codes, Florida Building codes, Coastal Management Codes of Miami Dade County and the City of Coral Gables. Ability to read and interpret plans, specifications and blueprints against code requirements rapidly and thoroughly under workload deadline conditions. Ability to detect structural faults and to appraise for quality of construction and physical depreciation. Ability to deal effectively with architects, engineers, contractors and other professionals. Ability to perform on-site inspections. Ability to analyze and diagnose problems as well as research and interpret codes, regulations, standards, plans and specifications, legal descriptions, and various governmental documents. Ability to establish and maintain effective working relationships with other employees, property owners, residents, community and civic groups, building owners, contractors, architects, engineers and the public. Working knowledge of personal computer, GIS (geographic information systems), Microsoft Word and Excel, as well as peripheral equipment including scanners, printers and inkjet plotters.

Physical Requirements

Must have the use of sensory skills in order to effectively communicate and interact with other employees and the public through the use of telephone and personal contact as normally defined by the ability to see, read, talk, sit, stand, hear, hands to fingers dexterity, handle, feel or operate objects, read and write English. Physical capability to effectively use and operate various items of office equipment; such as but not limited to a personal computer, calculator, copies and fax machines.

Work is performed indoors, within a usually quiet to moderately noisy and sometimes stressful environment when dealing with developers and contractors. Occasional site visits are necessary for structural inspections. Must be able to lift, carry and or push articles weighing up to 30 lbs.

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions of the job.

Minimum Education and Experience

Bachelor's degree in Structural Engineering or a bachelor's degree in Civil Engineering with a master's degree Structural Engineering.

Must be licensed as a Professional Engineer by the State of Florida.

Must be a Structural Plans Examiner as per the Miami-Dade County Board of Rules and Appeals.

Valid Florida Driver's License.