

G.V.R.D.

TITLE: Survey/Inspection Technician I
- In Training

POSITION DESCRIPTION

NO.: 615-1022

NOV 8 1990

(A) Purpose of Position

To demonstrate ability and suitability in the technology by performing a variety of surveying and materials construction inspection assignments in water, sewer and solid waste projects, under the immediate direction of senior technical or engineering staff.

(B) Duties

1) Surveying

- Run open or closed traverses.
- Calculate latitudes and departures.
- Make topographic and quantity surveys.
- Run class C and B benchmarks.
- Layout for all types of earthwork construction.
- Maintain lines and grades on earthwork construction.
- Use both conventional and electronic survey equipment - (eg. levels, theodolites, EDMs, total stations, lasers etc.)
- Use electronic pipe and metal locators.
- Record and reduce all survey notes neatly and accurately, including properly indexing field books.
- Do sketching to supplement survey notes.
- Direct and supervise the work of at least one rodman.
- Excavate services for proving locations and depths.

2) Inspection

- Maintain construction records (pipe laid, excavation quantities, concrete and reinforcing steel placed, bedding and backfill material used) for the preparation of progress payments.

- Inspect the manufacture of bulk concrete, aggregates, asphalt, steel pipe fabrication, linings and coatings at supply plants.
- Inspect the application of corrosion protection to pipe joints on welded steel pipelines.

3) General

- Read and interpret detailed engineering plans and profiles for construction layout and for construction conformity.
- Read and interpret detailed plans of engineering structures (valve chambers, junction chambers, fabrication drawing) for construction layout and conformity.
- Use computer and calculator for surveying and engineering related calculations.
- Other related duties.

(C) Requirements

- Graduation in Civil and Structural Technology from B.C.I.T. or a recognized technical institution with no related experience.
- Valid drivers licence and health certificate for watershed entry.
- Sound knowledge of standard engineering terminology and applicable practices.
- Skill in the use of survey instruments - electronic and conventional - and basic familiarity with a computer.
- Ability to interpret and follow standards and specifications with basic knowledge of testing procedures regarding concrete, steel, fiberglass and other pipe materials, asphalt, basic welding and protective linings and coatings.
- Ability to communicate effectively with G.V.R.D. staff, contractors and the public.