Harpreet Sandhu

Project Engineer, Municipal Infrastructure | Design Engineer (EIT)

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PROFESSIONAL SUMMARY

Licensed professional engineer with seven years designing municipal infrastructure in the Greater Toronto Area. Leads design of watermains, sanitary and storm sewers, and road reconstruction projects from preliminary design through tender and contract administration. Comfortable coordinating with municipalities, conservation authorities and utility companies.

PROFESSIONAL EXPERIENCE

Project Engineer, Municipal Infrastructure

Mar 2022 — Present

Credit River Consulting Engineers · Mississauga, ON

- Lead design of road and underground infrastructure reconstruction projects for three municipalities, with construction values from $2 million to $15 million.
- Designed a stormwater management upgrade using low impact development features, meeting conservation authority requirements and reducing surface flooding complaints in the neighbourhood.
- Prepare tender drawings, specifications and cost estimates to Ontario provincial standards, with final estimates close to awarded bid prices.
- Act as contract administrator during construction, reviewing progress payments, change orders and site meeting minutes with the municipality.

Design Engineer (EIT)

Jun 2019 — Feb 2022

Oakridge Municipal Engineering · Vaughan, ON

- Designed watermain replacements and sanitary sewer relining for older residential areas, coordinating service connections and traffic staging.
- Modeled storm sewer capacity in PCSWMM to support a master drainage plan and prioritize capital upgrades for the town.
- Supported public information centres by preparing display boards and answering resident questions about construction impacts.

EDUCATION

BASc, Civil Engineering — Lakeshore Polytechnic University **2019**

SKILLS

Technical: Municipal infrastructure design, Watermain and sewer design, Stormwater management, Road reconstruction, AutoCAD Civil 3D, PCSWMM, Contract administration, Tender documents, OPSS and OPSD standards, Cost estimating, Stakeholder consultation, Project coordination

Certifications: Professional Engineer (P.Eng.), Professional Engineers Ontario