



## **PRE-QUALIFICATION REGISTRATION**

### **2019-2020 Concrete Sidewalk Work**

#### **Invitation:**

The City of Vernon ("City") invites submissions from skilled concrete contractors to provide labour, materials and equipment required to supply, install and finish concrete sidewalk projects for the 2019-2020 pre-qualified contractor list.

The sidewalk projects will be grouped for efficiency in mobilizing equipment and may require machine extrude or hand formed concrete curbs and gutters and letdowns.

Projects will be 30m or greater and notice of one week or more will be provided to identify the schedule(s) for work to be started and/or completed.

#### **The Contractors will provide expertise, labour, materials and equipment required to:**

- Complete minor site preparation.
- Install either hand formed or machine extruded concrete curb and gutters.
- Complete preparation, forming and finishing of concrete sidewalks and letdowns.

#### **All work shall:**

- Conform to the City of Vernon Standards and specifications.
- Be safely performed in accordance with BC One Call protocol, Technical Safety BC and WorkSafeBC practices.

#### **The City will provide the following:**

- Site preparation including
  - removal of any existing concrete or excavated materials, and;
  - installation of the base as identified in the Materials.
- Support for utility location outside of BC One Call services.
- Project specific schedules of quantities and drawings as projects are reviewed and scheduled.

**DESIGN SPECIFICATIONS:**

As per the **City of Vernon Subdivision & Development Servicing Bylaw #3843**, work involves the supply of all labour, materials and equipment required to perform work.

Expertise is required in hand forming and operating machinery used to extrude upright and rollover curbs, forming and finishing of handicapped ramps, residential and commercial crossovers, and sidewalks back of curb.

Refer to **Sidewalk Drawings in Bonfire** for the City of Vernon Standards:

- Drawing #200-1: Standard Curb and Gutter
- Drawing #200-2: Standard Separate Sidewalk
- Drawing #200-4: Typical Wheelchair Ramp / letdown
- Drawing #200-5: Typical Crossover / letdown

**MATERIALS:**

**Base:**

Base materials will be granular 25mm crushed gravel base course conforming to gradation limits as referenced in **Schedule B, Article 4.04 City of Vernon Subdivision and Development Servicing Bylaw #3843**.

**Concrete:**

Concrete shall conform to **CSA CAN3-A23.1 Latest Edition**; the mix design shall include the following:

- a) Minimum compressive strength 30 MPA at 28 days;
- b) Maximum aggregate size 19mm for hand-formed; 10mm for extruded;
- c) Slump - 80mm for hand-formed; 25mm for extruded;
- d) Air entrainment 6% - 8%.

**Testing:**

The City of Vernon will conduct random tests of the concrete at the expense of the City. The Contractor shall provide a copy of the concrete delivery slip when requested by the Public Works Manager or his designate.

**Curing Compound:**

Curing compound shall be spray applied of liquid type conforming to **ASTM C309** containing a fugitive dye applied at a rate recommended by the manufacturer.

**WORKMANSHIP:**

**WorkSafeBC**

All employees of the Contractor must comply with WorkSafeBC (W.C.B.) Regulations e.g. safety vests, safety footwear, hard-hats.

**Traffic Control**

It is the Contractor's responsibility to sign all job sites in accordance with the Ministry of Transportation and Highways Traffic Control Manual for Work on Roadways.

**Site Preparation**

It is the Contractor's responsibility to remove and dispose of any additional excavated materials offsite and to work with the City to relocate any signs, utility poles, fire hydrants etc.

### **Base Preparation**

City of Vernon crews will prepare the base to final grade.

### **Forming:**

The Contractor shall be responsible to supply forms and forming materials for the sidewalk work. The Contractor shall set all forms to grade.

The City of Vernon Operations Departments must be given 24 hours' notice before a concrete pour commences if any water valves, cleanouts, junction boxes, sign sleeves and other City plant, may require adjustment or repair.

The Contractor shall be required to form and place concrete as per agreed upon schedule, weather permitting. Should the parties be unable to confirm a scheduled time, the City of Vernon will exercise the right to perform service with alternative methods.

All curbs must be extruded or formed separately from sidewalks.

All forms shall be removed within 72 hours of the pour unless otherwise agreed to by the Public Works Manager or his designate.

### **Wheelchair Letdown**

Curbs for handicapped ramps will be priced at the same as adjoining curb, and sidewalks for handicapped ramps will be priced as per the schedule of quantities and unit prices.

### **Utilities**

All utilities and / or services required by the Contractor shall be the responsibility of the Contractor. It is the Contractor's responsibility to be contact BC One Call to determine their exact location on the site before install any forms to ensure they do not make contact with any utilities.

### **PLACING & FINISHING CONCRETE:**

The Public Works Manager or his designate shall be notified twenty-four hours in advance of the concrete pour of curb and/or sidewalk.

Concrete shall be prepared, delivered, and placed in conformance with **CSA CAN3-A23.1 -M90 "Concrete Materials and Methods of Concrete Construction"**.

The surface of the curb, gutter and sidewalk shall be finished prior to final set by brushing to provide a uniform non-skid finish. Finish on sidewalks must be done with magnesium or wood trowels, no steel.

Both edges of the sidewalk and contraction joints shall be toweled smooth to a width of 50mm and rounded to a radius of 12mm.

During hot, cold, or drying weather conditions special attention shall be given to preparation, delivery, placement and curing of concrete to ensure that the requirements of **CSA CAN 3-23.1-M90** are met.

Curb and gutter contraction joints shall be made at a maximum of 3m intervals. 13mm thick contraction joints shall be installed through the full depth and the entire width at the beginning and end of every curb return on both sides of crossovers and against walls and structures. A 6mm rounded edge shall run along each side of the joint.

Contraction joints shall be made by cutting a groove through the surface of the concrete to a minimum depth of 25mm. Horizontal and vertical alignments shall not vary from established line and grade by more than 5mm over a 3m section. Where these tolerances are not met, the faulty section shall be removed

and replaced at the Contractor's expense. Expansion joints shall be 13mm width and located at all tangent points and at the end of each days pour. Commercial crossovers shall be formed with [12mm reinforcement steel \(rebar\) as per Subdivision Control Bylaw Drawing #200-5](#).

**Curing Concrete:**

Between April 1 and October 1, concrete shall be sprayed with two coats of an approved membrane curing compound as soon as the concrete has obtained its initial set. Prior to April 1, or after October 1, alternate methods of curing concrete must be used and the method approved by the City Engineer.

**QUALITY OF WORK:**

Any deviation from specifications or faulty workmanship may result in removal and replacement of the faulty section at the Contractor's expense.

The Contractor is required to supply plastic and cover the concrete finish product pour during inclement weather.

The Contractor is required to remove excess unused concrete and forming materials and leave the job in a neat and tidy condition.

The Contractor shall take the necessary provisions to protect curing concrete from vandalism. The Contractor shall repair any areas stepped or written on during the curing process.

**SUBMISSION REQUIREMENTS**

The pre-qualification documents have been posted and are available for download at:

URL: <https://vernon.bonfirehub.ca/portal>

**Click the link above or type the address into your browser to go to the portal; register as a Vendor and the documents will be accessible. It is recommended to download from a PC and ensure your firewall and virus security allows downloads.**

Contractors responding to the pre-qualification request must consent to the City verifying the information provided on their submission. Contractor's not able to comply fully with the minimum WorkSafeBC Clearance Letter, Business Licence, Commercial General Liability Insurance and Vehicle Insurance requirements will *NOT* qualify for registration. **Copies of insurance certificates must be submitted with the Pre-Qualification Forms.** The Contractor must carry public liability insurance in the amount of:

- **\$2,000,000.00**

Including the following named as Additionally Insured:

- **City of Vernon**
- **Regional District of the North Okanagan**

The City reserves the right, at its sole discretion, to pre-qualify a limited number or to pre-qualify none of the contractors applying. Pricing as submitted is binding and will be evaluated by City staff. Should rates change it is the responsibility of the Contractor to re-submit for consideration.

**Pre-Qualification Procedure:**

1. Contractor must have a minimum of **3** years bonafide experience in identified services.
2. Submit documentation via Bonfire portal
3. The City will create a contractor call out list based the following considerations
  - Rates
  - Work Experience / References
  - Availability & Equipment
4. Upon call out the City Work & Services General Conditions will apply. Refer to:

[https://www.vernon.ca/sites/default/files/docs/financial/work\\_service\\_general\\_conditions.pdf](https://www.vernon.ca/sites/default/files/docs/financial/work_service_general_conditions.pdf)

Once hired, Contractor to supply all labour and equipment necessary to complete all works. All work shall be completed as agreed upon with the City designate. To ensure City of Vernon performance standards are met, the Contractor may be subject to a performance evaluation. If a situation develops where performance is not acceptable, a review on performance may warrant a suspension or termination. Contractor warrants it shall comply with all laws, rules and regulations applicable to the location of the Work, in particular, but without limitation, those concerning safety and WorkSafeBC.

**Fuel Consumption Data**

For Contracted Services over \$25,000.00 / year, the Climate Action Charter requires the City to track contracted emissions derived from fossil fuel consumption used to operate vehicles, equipment and machinery. Therefore, the City may require Contractors to provide the quantity of fuel used to operate vehicles, equipment and machinery as part of the delivery of the services described.

**Contact:**

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Any questions regarding the project are to be directed through the Procurement Portal – Bonfire in the Messages section: Opportunity Q & A and the designated procurement staff member will respond.

Note that any questions being submitted are only available for viewing by the City of Vernon.