

## LOWELL REGIONAL WASTEWATER UTILITY (LRWWU) ROOT CONTROL

The City of Lowell is seeking a three (3) year contract, from July 1, 2015 to June 30, 2018, to a qualified root control agent to kill root growth present in the sewer and drain lines and to inhibit regrowth, without permanently damaging the vegetation producing the roots.

### **GENERAL:**

The Bidder must be licensed with the Massachusetts Department of Food and Agriculture and have pesticide application experience. Root control chemicals used must be registered with the Environmental Protection Agency (EPA). Application must comply with all federal and state regulations. The Contractor will dispose of all chemical containers used under this contract according to state and federal regulations.

The LRWWU Operations Superintendent must be notified of location, date, time and materials used to destroy roots in the collection system. If the biological process of the treatment plant is under stress, the Operations Superintendent may suspend root treatment until assured the chemical agent will not harm the biological process further.

The Contractor must notify the LRWWU Maintenance Superintendent or designee at least 48 hours prior to commencing any root treatment.

### **CHEMICAL SPILLS:**

The Contractor is responsible for all property damage, all cleanup, and restoration associated with any chemical spill. Vegetation damage resulting from spills is the responsibility of the Contractor. Damage resulting from spills is the responsibility of the Contractor. Removal and safe disposal of any soil affected by a spill is the responsibility of the Contractor. The Contractor will restore the affected area to a condition equal to or better than before the spill.

### **WATER ACCESS:**

During working hours, 7 AM to 3 PM, water will be available from a designated area at LRWWU. The Contractor must obtain permission from the Maintenance Superintendent or designee, prior to using any City water supply. Under no circumstance will the Contractor open any fire hydrant or City water supply without first notifying and obtaining permission from the Maintenance Superintendent or designee.

### **GUARANTEE:**

The Contractor will guarantee to kill all roots in each treated line section. If a treated line section is found to have regrowth or a blockage occurs from regrowth within two (2) years of application, the Contractor will retreat the section at the Contractors expense. The Contractor will provide a three (3) year guarantee on any paid repeat application(s) performed within six (6) months of the expiration date of the previous guarantee. The Contractor will retreat a sewer section if live roots are found within six (6) months after treatment.

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### **DOCUMENTATION:**

Documentation for all root treatment includes technicians performing work, date of treatment and log sheets, manhole to manhole numbers, length of segment treated, amount of chemical used, and pipe size(s). All documentation must be submitted with the invoice.

### **MATERIALS:**

All root control materials used must be approved by the LRWWU Maintenance Superintendent or designee. Material Safety Data Sheets (MSDS) must be provided with bid proposal. The chemical root removal agent shall be Razor Rooter II or equal.

Root control materials containing metam sodium or copper sulfate are not allowed.

### **MATERIALS APPLICATION:**

Application of the root control agent will be by a foaming method. Chemical foam will be applied under pressure to assure the entire sewer or drain section is filled with foam while also insuring that the foam penetrates the wye connection.

### **SAFETY:**

All work will be performed by qualified workers insuring all safety procedures and personal protective equipment are in place. Safe working conditions in and around the worksite must be maintained and the Contractor must provide a hazard communication policy prior to commencing work. The Contractor must provide the LRWWU Maintenance Superintendent or designee proof that all procedures were in place if an accident involving any chemical spill occurs.

The Contractor is responsible for traffic maintenance and detours necessary around the worksite. All signs, cones, barricades, and arrow boards shall be properly placed to insure a safe work zone and insure public safety is never jeopardized.

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BID SHEET

Sewer line chemical root treatment, including all labor, materials, equipment and associated costs, shall be paid for at the unit price bid per linear foot of each size pipe. Unit prices are to compute per linear foot manhole to manhole.

YEAR 1

PIPE SIZE	UNIT PRICE PER LINEAR FOOT	ESIMATED FOOTAGE	EXTENDED PRICE
8 INCH		5,000	
10 INCH		5,000	
12 INCH		7,500	
15 INCH		7,500	
18 INCH		5,000	
24 INCH		1,000	
36 INCH		1,000	

TOTAL PRICE IN FIGURES

TOTAL PRICE IN WORDS: \_\_\_\_\_

LOWELL REGIONAL WASTEWATER UTILITY (LRWWU) ROOT CONTROL

YEAR 2

PIPE SIZE	UNIT PRICE PER LINEAR FOOT	ESIMATED FOOTAGE	EXTENDED PRICE
8 INCH		5,000	
10 INCH		5,000	
12 INCH		7,500	
15 INCH		7,500	
18 INCH		5,000	
24 INCH		1,000	
36 INCH		1,000	

TOTAL PRICE IN FIGURES

TOTAL PRICE IN WORDS: \_\_\_\_\_

LOWELL REGIONAL WASTEWATER UTILITY (LRWWU) ROOT CONTROL

YEAR 3

PIPE SIZE	UNIT PRICE PER LINEAR FOOT	ESIMATED FOOTAGE	EXTENDED PRICE
8 INCH		5,000	
10 INCH		5,000	
12 INCH		7,500	
15 INCH		7,500	
18 INCH		5,000	
24 INCH		1,000	
36 INCH		1,000	

TOTAL PRICE IN FIGURES

TOTAL PRICE IN WORDS: \_\_\_\_\_

TOTAL AMOUNT OF ALL THREE (3) YEARS IN FIGURES: \_\_\_\_\_

TOTAL AMOUNT OF ALL THREE (3) YEARS IN WORDS: \_\_\_\_\_

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Signature of Bidder \_\_\_\_\_

Print Name and Title \_\_\_\_\_

Company Name and Address \_\_\_\_\_

\_\_\_\_\_

Telephone Number \_\_\_\_\_