

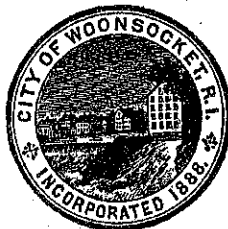
**CITY OF WOONSOCKET  
RHODE ISLAND  
FINANCE DEPARTMENT**

**CONTRACT DOCUMENTS**

**For**

**“THE MATERIAL, FABRICATION AND INSTALLATION  
OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS”  
BID No. 6119**

**February 2023**



## CITY OF WOONSOCKET, RHODE ISLAND

### INVITATION TO BID FOR:

### **"THE MATERIAL, FABRICATION AND INSTALLATION OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS" – BID 6119 FOR THE WOONSOCKET DEPARTMENT OF PUBLIC WORKS**

Sealed bids must be received, and date/time stamped by the City of Woonsocket, in the Finance Department, **Office of Purchasing**, City Hall, 169 Main Street, Woonsocket, Rhode Island no later than **2:00 P.M. on Tuesday, March 7, 2023**. Then, at the aforementioned date and time, on time bids will be publicly opened and read aloud in the **2<sup>nd</sup> Floor Conference room**, City Hall, 169 Main Street, Woonsocket, Rhode Island.

**ALL BIDS MUST BE SUBMITTED IN DUPLICATE COPY IN A SEALED ENVELOPE PLAINLY MARKED ON THE OUTSIDE OF THE ENVELOPE "THE MATERIAL, FABRICATION AND INSTALLATION OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS – BID 6119"**

This contract is intended to provide for furnishing of material, fabrication and installation of chain link fence and/or gates and/or guardrails to the City of Woonsocket, Rhode Island.

Individuals requesting interpreter services for the hearing impaired should call the Finance Director at 401-762-6400 seventy-two (72) hours in advance of the bid opening.

The City of Woonsocket reserves the right to reject any and all responses, or parts thereof, to waive any irregularity in the responses received and to accept the responses or parts thereof deemed to be most favorable to **THE BEST INTEREST OF THE CITY**.

No bidder may withdraw its bid within sixty (60) days after the actual time and date of the bid opening thereof.

Deadline to submit questions is **Tuesday, February 28, 2023**. Questions should be submitted to Scott Sanford, Woonsocket Engineering Division at (401) 767-9213

Published: February 15, 2023

Christine Chamberland  
Finance Director

**CITY OF WOONSOCKET  
DEPARTMENT OF PUBLIC WORKS**

**CHAIN LINK FENCING**

**PART 1 - GENERAL**

**1.01 DESCRIPTION OF WORK**

- A. Provide all materials, equipment and labor necessary to complete the work as indicated on the drawings or as specified herein.
- B. The principle work of this section includes, but may not be limited to the following:
  - 1. Installation of fences, gates, guardrails, framework, fabric, and accessories.
  - 2. Excavation for post bases.
  - 3. Remove and dispose of existing materials as directed.

**1.02 REFERENCES**

- A. ASTM Standards:
  - 1. A120 - Pipe, Steel, Black and Hot-dipped Zinc Coated (Galvanized) Welded and Seamless, for Ordinary Uses.
  - 2. A123 - Zinc (Hot Galvanized) Coatings or Products Fabricated from Rolled, Pressed and Forged Steel Shapes, Plates, Bars and Strips.
  - 3. F567 - Installation of Chain-Link Fence.
- B. Federal Standard (FS) RR-F-191 - Fencing, Wire and Post, Metal.
- C. Rhode Island Department of Transportation (RIDOT) standards 31 and 34 series.

**1.03 QUALITY ASSURANCE:**

- A. Installation: ASTM F567-87.

**1.04 LOCATION OF UNDERGROUND STRUCTURE:**

Where existing sewers, water pipes, storm drainage, gas mains, electric mains and other conduits meet within the streets the contractor must obtain a 'Dig Safe' number from Dig Safe System, Inc. at 1-888-344-7233. The locations of these structures are intended to be approximate only. The City will not be responsible for any omission, nor for any errors in locations due to incomplete or faulty records.

1.05 SUB-CONTRACTORS:

No portion of the work shall be sub-let to any sub-contractor without first giving the Engineering Division due notice in writing of such intention. No sub-contractor shall be employed who is unsatisfactory to the City Engineer.

1.06 SAFETY:

All Federal, State and Local safety regulations shall be followed.

Contractor must follow the City of Woonsocket regulations and policies as set forth in the Department of Public Works, Engineering Division 'Permit Manual'. A copy of which can be obtained in the Engineering Division or on the City's web site at:

[www.ci.woonsocket.ri.us/perm\\_sched.htm](http://www.ci.woonsocket.ri.us/perm_sched.htm)

The contractor shall assume responsibility for risks and casualties of every description, for loss or injury to persons and property arising out of the nature of the work, from the action of the elements or from any unforeseen or unusual difficulty.

1.07 WORK TO BE LEFT CLEAN:

Before the work will be considered as having been complete, the sewers, surface water drains, streets, roads, sidewalks, buildings, and all place affected by the work, are to be thoroughly cleared and left clean, free and in good order and fit for travel and other proper use.

1.08 WARRANTY:

The contractor or his sureties will be held liable for keeping in perfect repair, adjustment and good order, the whole of the work to be constructed under this contract, and for all breakage or other damage that may occur by reason of the construction of the work for one (1) year after the date of final payment.

Should it be necessary to repair or replace any fence or guardrail before formal acceptance for any reason, the City will not accept any charges from the bidder deemed part of the original scope of work.

1.09 INSURANCE REQUIREMENTS:

The successful bidder shall furnish to the City, prior to issuance of the contract certificates of minimum insurance as listed below. These certificates shall contain a provision that the insurance company will notify the certificate holder, by registered mail, at least 15 days in advance of any cancellation or material change.

Workman's Compensation	Statutory
Employers Liability	\$ 100,000 Each Accident

## INSURANCE REQUIREMENTS (cont'd):

Automobile Liability	\$1,000,000	Combined Single Limit
Commercial General Liability	\$2,000,000	General Aggregate
	\$2,000,000	Products & Completed Operations Aggregate
	\$1,000,000	Personal & Advertising Injury
	\$1,000,000	Each Occurrence
	\$ 100,000	Fire Damage (Any one fire)
	\$ 5,000	Medical Expenses (Any one person)

### 1.10 LICENSE/CERTIFICATE/PERMIT REQUIREMENTS:

- Contractor shall provide a 'Competent Person', as defined by the US Department of Labor Occupational Safety & Health Administration (OSHA), for the location of the proposed work. The contractor shall employ only competent and efficient laborers, operators and tradesmen for every kind of work, and whenever, in the opinion of the City Engineer, any person is unfit to perform their task, or does their work contrary to directions, or conducts themselves improperly, the contractor must discharge that person immediately and not employ that person again on the work.
- All equipment operators and workers performing work at the proposed location shall hold, in good standing, the appropriate State of Rhode Island licenses for their responsibilities.
- OSHA certified ten (10) hour construction safety program is required for all on-site employees.
- Contractor shall make application for a permit in the Engineering Division for the work to be performed City wide.
- All required licenses and certificates for all workers shall be copied in color and supplied to the Engineering Division upon submitting a 'Permit Application'. All required licenses and certificates for work being performed shall be in the possession of the person(s) while performing the work.

## PART 2 - PRODUCTS

### 2.01 CHAIN LINK FENCE AND/OR GATES MATERIALS:

#### A. New Posts and Framework:

ASTM MA120; galvanized, Schedule 40 steel pipe, standard weight, one piece without joints. Unpainted.

#### B. Fabric:

2-inch diamond mesh galvanized steel wire, top and bottom edge knuckle selvage and closed, 9 gauge except as otherwise specified on drawings.

#### C. Polyvinyl chloride coating (PVC)-

All fence material and accessories, unless specifically stated otherwise, shall be bonded polyvinyl chloride coated (PVC).

## CHAIN LINK FENCE AND/OR GATES MATERIALS (cont'd):

PVC shall be free of voids, shall be dense and impervious, shall be of plasticized or epoxy modified, high specific gravity polyvinyl chloride with high resistance to tear and suitable hardness. The PVC coating shall not support combustion and shall withstand an accelerated aging and weathering test a minimum of 2,000 hours at 145 degrees F with ultraviolet and salt spray without cracking or peeling the PVC coating and without corrosion of the base metal. The PVC coating shall not separate from the metal or shrink. Color used in PVC shall be stabilized so that it will not fade under long exposure to sunlight. Unless otherwise specified the color shall be black. Any other color required shall be approved by the City of Woonsocket Engineering Division as selected from the manufacture's standard colors.

### 2.02 CHAIN LINK FENCE AND/OR GATES HARDWARE AND ACCESSORIES:

#### A. Posts and Rails:

As scheduled on drawings.

#### B. Caps, to be included in the bid prices:

Cast steel galvanized; sized to post dimension, set screw retained.

#### C. Fittings, to be included in the bid prices:

Sleeves, bands, clips rail ends, fasteners and fittings: All to be galvanized steel.

#### D. Hinges, to be included in the bid prices:

Size and material to suit gate size, non-lift-off type, offset to permit 180 degree gate opening. Provide one (1) pair of hinges for each leaf and 1-1/2 pair for each leaf and truss rod supports for extra large gates (see drawings).

### 2.03 GUARDRAIL

#### GUARDRAIL POST/RAILINGS

Post/Railing shall be wood, steel as may be specified or shown.

##### Wood Posts/Railing

Wood posts/railings shall be fabricated from an approved or specified timber species and shall be of quality, diameter or section, and length as specified or as shown on the plans, see Rhode Island Standard 34.1.0. When treated posts are specified, they shall be fabricated before treatment.

## GUARDRAIL POST/RAILINGS (cont'd)

### Steel Posts/Railings

Steel posts/railings shall be of the section and length specified or as shown on the plans, see Rhode Island Standard 34.2.0. They shall be of copper bearing steel when so specified. Steel shall conform to the requirements of AASHTO M183 for the grade specified. The post shall be galvanized to conform with AASHTO M111.

### GUARDRAIL HARDWARE, to be included in the bid price:

Offset brackets of the resilient and non-resilient type shall be of the type specified or as shown on the plans and shall meet the strength requirements specified.

Splices and end connections shall be of the type and design specified or shown on the plans, and shall be of such strength as to develop the full design strength of the rail elements.

End spring assemblies, when specified, shall be positive and of a type and design coinciding with the intent, design and strength of the railing structure, and shall be as specified or as shown on the plans.

End anchor rods and accessories shall be as specified or as shown on the plans and shall be galvanized in accordance with the requirements of AASHTO M111. All galvanizing shall be done after fabrication.

Unless otherwise specified, all fittings, bolts, washers and other accessories shall be galvanized in accordance with the requirements of AASHTO M111. All galvanizing shall be after fabrication.

Steel Beam Guardrail Reflective Triangular Delineators shall be installed.

The washers of the delineator shall conform to the requirements of ASTM B209 Alloy 5052-H-32.

## 2.04 CONCRETE MIX:

### A. General:

Unless otherwise specified, all methods and materials shall conform to the relevant provisions of the PORTLAND CEMENT CONCRETE MATERIALS, of the Rhode Island Standard Specifications.

### B. Concrete, to be included in the bid price:

Cement concrete to be used shall be Class "B", unless otherwise specified, according to the classification defined in the RIDOT Standard Specifications and shall meet the following requirements.

## Concrete (Cont'd)

Class	Minimum Cement Content	Minimum Compressive Strength	Coarse Aggregate		
	Lbs. Per Cubic Yd.	Lbs. Per Square In.	No Designation	Max. Size Aggregate	Percent of Air Entrainment
B	517	3000	2	3/4	5.0

## PART 3 - EXECUTION

### 3.01 FENCE AND/OR GUARDRAIL INSTALLATION:

- A. Install new or salvage fabric, as indicated on drawings, accessories in accordance with ASTM F567.
- B. Provide dimensions as indicated and space line posts or guardrail posts at intervals indicated.
- C. Excavation: Excavate holes for concrete with vertical sides in cylindrical form.
- D. Setting Posts:
  1. Remove loose and foreign materials from sides and bottom of holes and moisten soil prior to placing concrete.
    - a) Holes for line post to be a minimum of 1' in diameter and 2' 6" deep.
    - b) Holes for gate post to be a minimum of 1' in diameter and 3' deep.
    - c) Guardrail post shall be set in concrete in ledge locations only, see Rhode Island Standard 34.1.2 otherwise drive post into gravel.
  2. Center and align posts.
  3. Place concrete around posts in a continuous pour and vibrate or tamp for consolidation.
  4. Check each post for vertical and top alignment and hold in position during placement.
  5. Trowel tops of footings, and slope or dome to direct water away from posts. Typical pitch for the top of the concrete to be 1:25.
  6. Keep exposed concrete surfaces moist for at least seven (7) days after placement.



E. Concrete Strength:

1. Allow concrete to attain at least 75 percent of its minimum 28-day strength before rails, tension wire, and fabric are installed.
2. Do not, in any case, install such items in less than seven (7) days after placement of concrete.
3. Do not stretch and tension fabric and wire until concrete has attained its full design strength.

F. Provide top rail through line post tops and splice with 7-inch long rail sleeves.

G. Provide brace made of 1 5/8" pipe as needed.

H. Stretch fabric between terminal posts.

I. Perimeter Fencing and Gates: Install fabric 1-inch above finished grade.

J. Fasten fabric to top rail, line posts, and bottom tension wire or bottom rail with ties maximum 15-inches on centers.

K. Install bottom tension wire stretched taut between.

3.02 GATE INSTALLATION:

- A. Install gates plumb, level, and secure for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by fence manufacturer.

Adjust hardware for smooth operation and lubricate where necessary.

PART 4 - METHOD OF PAYMENT:

Payment shall be made within 60 working days after receipt of an invoice. No payment shall be made for items not ordered or for cancelled items, nor for necessary incidental items considered by the City of Woonsocket to be included in the unit price bid.

**CITY OF WOONSOCKET  
DEPARTMENT OF PUBLIC WORKS**

**BID PROPOSAL**

**THE MATERIAL, FABRICATION AND INSTALLATION  
OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS**

The undersigned bidder proposes to furnish all labor, equipment and related incidentals, other related work and overhead items for the "Material, Fabrication and Installation of Chain Link Fence and/or Gates and/or Guardrails" for the City of Woonsocket, Rhode Island, until one year from date of award; or the awarding of a new contract, all in strict accordance with the specifications for the unit prices set forth in the Bid Proposal.

ITEM

PRICE FOR PVC COATED

PRICE FOR GALVANIZED

- |  |                          |
|--|--------------------------|
| 1a) All necessary material and labor to install<br>five (5') chain link fence.<br>\$ _____ per linear foot                     | \$ _____ per linear foot |
| 1b) All necessary material and labor to install<br>a line post for a five (5') chain link fence.<br>\$ _____ per line post     | \$ _____ per line post   |
| 1c) All necessary material and labor to install<br>a corner post for a five (5') chain link fence.<br>\$ _____ per corner post | \$ _____ per corner post |
| 1d) All necessary material and labor to install<br>a brace for a five (5') chain link fence.<br>\$ _____ per brace             | \$ _____ per brace       |
| 2a) All necessary material and labor to install<br>six (6) foot chain link fence.<br>\$ _____ per linear foot                  | \$ _____ per linear foot |

**CITY OF WOONSOCKET  
DEPARTMENT OF PUBLIC WORKS**

**BID PROPOSAL (cont'd)**

**THE MATERIAL, FABRICATION AND INSTALLATION  
OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS**

ITEM

PRICE FOR GALVANIZED

PRICE FOR PVC COATED

- |     |  |                          |
|-----|--|--------------------------|
| 2b) | All necessary material and labor to install a line post for a six (6') chain link fence.<br>\$ _____ per line post       | \$ _____ per line post   |
| 2c) | All necessary material and labor to install a corner post for a six (6') chain link fence.<br>\$ _____ per corner post   | \$ _____ per corner post |
| 2d) | All necessary material and labor to install a brace for a six (6') chain link fence.<br>\$ _____ per brace               | \$ _____ per brace       |
| 3a) | All necessary material and labor to install seven (7') chain link fence.<br>\$ _____ per linear foot                     | \$ _____ per linear foot |
| 3b) | All necessary material and labor to install a line post for a seven (7') chain link fence.<br>\$ _____ per line post     | \$ _____ per line post   |
| 3c) | All necessary material and labor to install a corner post for a seven (7') chain link fence.<br>\$ _____ per corner post | \$ _____ per corner post |

**CITY OF WOONSOCKET  
DEPARTMENT OF PUBLIC WORKS**

**BID PROPOSAL (cont'd)**

**THE MATERIAL, FABRICATION AND INSTALLATION  
OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS**

ITEM

PRICE FOR GALVANIZED

PRICE FOR PVC COATED

- 3d) All necessary material and labor to install  
a brace for a seven (7') chain link fence.

\$ \_\_\_\_\_ per brace

\$ \_\_\_\_\_ per brace

- 4) All necessary material and labor to install  
a gate opening up to twelve feet (12') wide.

\$ \_\_\_\_\_ per linear foot

\$ \_\_\_\_\_ per linear foot

- 5) All necessary material and labor to install  
a gate opening twelve feet one inch (12' 1")  
to a maximum of sixteen feet (16').

\$ \_\_\_\_\_ per linear foot

\$ \_\_\_\_\_ per linear foot

**GUARDRAIL:**

- 6) All necessary material and labor to install  
guardrail steel railings.

\$ \_\_\_\_\_ per linear foot

- 7) All necessary material and labor to install  
guardrail steel post.

\$ \_\_\_\_\_ per post

- 8) All necessary material and labor to install  
guardrail steel ends.

\$ \_\_\_\_\_ per end

**CITY OF WOONSOCKET  
DEPARTMENT OF PUBLIC WORKS**

**BID PROPOSAL (cont'd)**

**THE MATERIAL, FABRICATION AND INSTALLATION  
OF CHAIN LINK FENCE AND/OR GATES AND/OR GUARDRAILS**

**GUARDRAIL (cont'd):**

- 9) All necessary material and labor to install guardrail wood railings. \$ \_\_\_\_\_ per linear foot
- 10) All necessary material and labor to install guardrail wood post. \$ \_\_\_\_\_ per post
- 11) All necessary material and labor to install guardrail wood ends. \$ \_\_\_\_\_ per end
- 12) All necessary material to erect a temporary fence.  
Price to include delivery and pick up of the fence \$ \_\_\_\_\_ per linear foot
- 13) All necessary material and labor to erect a temporary fence.  
Price to include delivery, installation and removal of the temporary fence. \$ \_\_\_\_\_ per linear foot

**COMPANY NAME:**

\_\_\_\_\_

**STREET NUMBER:**

\_\_\_\_\_

**CITY & STATE:**

\_\_\_\_\_

**BY (person):**

\_\_\_\_\_

**SIGNATURE:**

\_\_\_\_\_

**TELEPHONE:**

\_\_\_\_\_

**EMAIL ADDRESS:** \_\_\_\_\_