



INVITATION FOR SEALED BID

TAC 217A

Description: Fence Repair/Installation & Supplies

Department: CITY OF TULSA

NIGP Commodity Code(s): 330-13-00-000-0

Total pages including this page is 20

NOTE: FAXING OF BIDS IS NOT ACCEPTED

Important Instruction – Read Carefully:

If you have obtained these bid specifications from either of:

City of Tulsa's Fax-on-Demand (918-596-1171) or

City of Tulsa's Web-site : www.cityoftulsapurchasing.org

you must notify the buyer Darlene Donica of your intent to bid by e-mail ddonica@ci.tulsa.ok.us in order to receive addenda. The buyer will always acknowledge your e-mail for your records. All addenda will be posted on fax-on-demand and the web-site.

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Pay special attention to those pages with a reference to the following notes:

Note #1: Signature of authorized agent required

Note #2: Signature of an authorized agent and notarized required

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Your bid response should follow the same format listed above plus any additional format requested in the body of the bid invitation.

**INVITATION FOR SEALED BIDS
TO
City of Tulsa**

200 CIVIC CENTER, ROOM 109, TULSA, OKLAHOMA 74103

Bid number and date of bid opening must appear on the lower
left outside corner of bid envelopes and all related containers.

DATE OF OPENING: FEBRUARY 6, 2003

BID NUMBER: TAC 217A

**BID MUST BE IN THE CITY CLERK'S OFFICE AT THE ABOVE ADDRESS BY 5:00 P.M. THE DAY
PRECEDING THE "DATE OF OPENING" SHOWN ABOVE.**

BIDS WILL BE OPENED AT 8:30 A.M. IN THE CITY COUNCIL ROOM ON THE DAY SPECIFIED UNDER "DATE OF OPENING."

PUBLISHED IN THE TULSA DAILY COMMERCE AND LEGAL NEWS: JANUARY 23, 2003

Bid must be accompanied by bidder's bond, cashier's check or certified check in the amount of: NONE

PLEASE READ TERMS AND CONDITIONS ON THE NEXT PAGE BEFORE COMPLETING BID DOCUMENTS

THE FOLLOWING SECTION MUST BE COMPLETED BY BIDDER

Delivery will be made in not more than _____ days after receipt of order.

Payment terms _____% _____ days.

City of Tulsa may increase quantity of order at the unit price bid for _____ days. (Bidder to Specify Days) I have examined the terms and specifications and the instructions to bidders herein and agree, provided I am awarded a contract, to provide the above described items for the sum shown in accordance with the terms and specifications stated herein. All deviations are in writing and attached hereto.

Enclosed is a BID BOND ; CASHIER'S CHECK; Certified Check in the amount of \$ _____, which I agree the City of Tulsa may retain as liquidated damages in the event of my failure to comply with the terms of this bid.

MUST BE SIGNED BY AUTHORIZED AGENT TO BE VALID

FIRM NAME _____ by _____
Signature

STREET _____ TITLE _____

CITY STATE _____ ZIP CODE _____ PHONE NUMBER _____ DATE _____

GENERAL TERMS AND CONDITIONS OF BIDS

THESE ITEMS APPLY TO AND BECOME A PART OF THE BID.

NO EXCEPTIONS TO THESE TERMS & CONDITIONS WILL BE CONSIDERED.

1. **BIDS MUST BE SUBMITTED ON THIS FORM ONLY INCLUDING A SIGNATURE OF AN AUTHORIZED AGENT.** Each bid shall be placed in a separate envelope. Be sure envelope is completely and properly identified and sealed, showing the bid number and date in the lower left hand corner. Bids must be time stamped in the office of the City Clerk by 5:00 P.M. on the day before date of opening.
2. No bidder may withdraw his proposal for a period of thirty (30) days after the date and hour set for the opening of bids.
3. All prices shall be quoted F.O.B. Tulsa, Oklahoma, and delivery to City of Tulsa location shall be without additional charge.
4. The bidder shall attach the manufacturer's name of the equipment or material to be furnished, type, model numbers, manufacturer's descriptive bulletins and specifications. All guarantees and warranties should be clearly stated. This data shall be in sufficient detail to describe accurately the equipment or material to be furnished. Manufacturer's specifications, in respect to the successful bidder, shall be considered as part of his contract with the City of Tulsa.
5. The bidder shall show in the proposal both the unit prices and total amount, where required, of each item listed. In the event of error or discrepancy in the mathematics, the unit prices shall prevail.
6. Any exceptions or deviations from written specifications shall be shown in writing and attached to the bid form.
7. Each bidder agrees to comply with the terms of Title 5, Chapter 1, of Tulsa, Oklahoma Charter and revised ordinances relating to equal employment opportunity.
8. **THE ENCLOSED FORMS REGARDING NON-COLLUSION AND FINANCIAL INTEREST MUST BE SIGNED, NOTARIZED, AND RETURNED WITH THE BID.**
9. The City of Tulsa reserves the right to reject any and all bids, to waive any technicalities in the bidding, and to award each item to different bidders or all items to a single bidder.
10. All bids must be accompanied by bidders bond, cash, certified or cashier's check in the amount shown on the face of the bid form. This amount shall be retained by the City of Tulsa as liquidated damages in the event the successful bidder (or bidders) fails to execute a contract, if required. The bidder agrees that said amount is presumed to be the damages sustained by the City due to the impracticability and extreme difficulty in fixing the actual damages. The office of the City Clerk will return the bid deposits to the unsuccessful bidders, after a contract has been awarded or all bids have been rejected.
11. In the event cash discounts are offered by the bidder, the discount date shall begin with the date of invoice, the date of receipt of all material covered by the purchase order, or the date of receipt by the City of Tulsa of the original copy of the purchase order with properly executed Affidavit of Claimant, whichever is the later date.
12. Direct purchase of certain items of equipment or material by the City of Tulsa are exempt from Federal Excise Tax and Oklahoma Sales Tax. In such cases the bidder shall quote prices which do not include Federal Excise Tax and Oklahoma Sales Tax. The City of Tulsa will furnish executed exemption certificates upon presentation by the bidder at the time of purchase.
13. Bid must show number of days required for delivery under normal conditions. Failure to state delivery time obligates bidder to complete delivery in fourteen (14) calendar days. Unrealistically short or long delivery promises may cause bid to be disregarded. Contractor must keep Purchasing Department advised at all times of status of order. Default in promised delivery or failure to meet specifications authorizes the Purchasing Agent to purchase supplies elsewhere and charge full increase of cost and handling to defaulting contractor. Consistent failure to meet delivery promises without valid reason may cause removal from bid list.
14. Bidder agrees to defend and save City of Tulsa from and against all demands, claims, suits, costs, expenses, damages and judgments based upon infringement of any patent relating to goods specified in this order or the ordinary use or operation of such goods by City or use or operation of such goods in accordance with bidders direction.
15. If the bid requires a written contract, the successful bidder shall execute a written contract with the City of Tulsa and return the required bonds and insurance certificates within ten (10) days after submission of contracts to said bidder by the City.

BIDDER AFFIDAVIT - TITLE 74 O.S. (1974 SUPP.) 85.22-85.25

STATE OF _____ COUNTY OF _____

_____, of lawful age, being first duly sworn on oath says
Authorized Agent

1. (s)he is the duly authorized agent of _____, the bidder submitting the competitive bid which is attached to this statement, for the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and municipal officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the bid to which this statement is attached.
2. (s)he is fully aware of the facts and circumstances surrounding the making of the bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such bid; and
3. neither the bidder nor anyone subject to the bidder's direction or control has been a party;
 - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding,
 - b. to any collusion with any municipal official or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract, nor
 - c. in any discussions between bidders and any municipal official concerning exchange of money or other thing of value for special consideration in the letting of a contract.

SIGNATURE OF AUTHORIZED AGENT

Subscribed and sworn to before me this _____ day of _____, 20_____.

Signature of Notary Public

MY COMMISSION EXPIRES

My Commission # _____

The Bidder Affidavit must be completed, signed by an authorized agent, and notarized.

CONTRACTOR/BIDDER INFORMATION SHEET

**To be completed by all Bidders
For contracts with the City of Tulsa
(Please print or type)**

Project No. or Description _____

Full Name of Bidder _____

Legal Identity
(Corporation, Partnership,
Individual, etc.) _____

Address _____

Telephone No. _____

FAX No. _____

Taxpayer Identification Number _____

Contact Person _____

Phone No. _____

Fax No. _____

E-mail address _____

Webpage Address _____

Price Sheet Summary

Vendor Name: _____ Signature: _____
Date: _____

You will be able to obtain a copy of the Bid Summary on the City of Tulsa's Purchase-Net Fax-on-Demand and Website shortly after bid opening.

TAC 217A

<u>Qty.</u>	<u>Description</u>	<u>Unit Cost</u>
<u>FABRIC:</u>		
	4' high 11-1/2 gauge 2-1/4" mesh	\$ _____/ft.
	5' high 11-1/2 gauge 2-1/4" mesh	\$ _____/ft.
	6' high 11-1/2 gauge 2-1/4" mesh	\$ _____/ft.
	4' high 11 gauge 2" mesh	\$ _____/ft.
	5' high 11 gauge 2" mesh	\$ _____/ft.
	6' high 11 gauge 2" mesh	\$ _____/ft.
	4' high 9 gauge 2" mesh	\$ _____/ft.
	5' high 9 gauge 2" mesh	\$ _____/ft.
	6' high 9 gauge 2" mesh	\$ _____/ft.
<u>LINE POSTS:</u>		
	2" O.D. x 7' schedule 40 pipe	\$ _____/ea.
	2" O.D. x 8' schedule 40 pipe	\$ _____/ea.
	2-3/8" O.D. x 9' schedule 40 pipe	\$ _____/ea.
<u>TERMINAL POSTS:</u>		
	2-3/8" O.D. x 7' schedule 40 pipe	\$ _____/ea.
	2-3/8" O.D. x 8' schedule 40 pipe	\$ _____/ea.
	2-7/8" O.D. x 9' schedule 40 pipe	\$ _____/ea.
<u>TOPRAIL AND BRACES:</u>		
	1-5/8" O.D. schedule 40 pipe	\$ _____/ft.

FITTINGS:

3/8" x 11' truss rod	\$ _____/ea.
Truss tightner	\$ _____/ea.
2" x 1-5/8" Loop cap	\$ _____/ea.
2-3/8" x 1-5/8" Loop cap	\$ _____/ea.
2" x 1-5/8" Barbed wire arm	\$ _____/ea.
2-3/8" x 1-5/8" Barbed wire arm	\$ _____/ea.
2-3/8" Dome cap	\$ _____/ea.
2-7/8" Dome cap	\$ _____/ea.
2-3/8" Tension band with bolt	\$ _____/ea.
2-7/8" Tension band with bolt	\$ _____/ea.
2-3/8" Brace band with bolt	\$ _____/ea.
2-7/8" Brace band with bolt	\$ _____/ea.
1-5/8" Rail end	\$ _____/ea.
#13 Aluminum ties	\$ _____/ea.
#16 Aluminum ties	\$ _____/ea.
3/16" x 3/4" x 48" Tension bars	\$ _____/ea.
3/16" x 3/4" x 60" Tension bars	\$ _____/ea.
3/16" x 3/4" x 72" Tension bars	\$ _____/ea.
1-5/8" x 6" Toprail sleeve	\$ _____/ea.
#11 Hog rings	\$ _____/lb.
7 gauge spring coil tension wire	\$ _____/ft.
4 point barbed wire	\$ _____/ft.

SINGLE GATES (COMPLETE WITH HARDWARE):

4' high x 3' wide	\$ _____/ea.
* Additional width	\$ _____/ft.

5' high x 3' wide	
\$ _____/ea.	
* Additional width	\$ _____/ft.

6' high x 10' wide	\$ _____/ea.
* Additional width	\$ _____/ft.

For barbed wire on top of gates add:

* Single Gate	\$ _____
* Double Gate	\$ _____
CONCRETE:	\$ _____/yd.

4' PRIVACY FENCE:

1" x 4" cedar pickets	\$ _____/ea.
4" x 4" treated fence posts	\$ _____/ea
4" x 4" treated gate posts	\$ _____/ea
2 – 2" x 4" treated back rails	\$ _____/ea

6' PRIVACY FENCE:

1" x 4" cedar pickets	\$ _____/ea
4" x 4" treated fence posts	\$ _____/ea
4" x 4" treated gate posts	\$ _____/ea
3 – 2" x 4" treated back rails	\$ _____/ea

8' PRIVACY FENCE:

1" x 4" cedar pickets	\$ _____/ea
4" x 4" treated fence posts	\$ _____/ea
4" x 4" treated gate posts	\$ _____/ea
4 – 2" x 4" treated back rails	\$ _____/ea

CEDAR PICKET TOP DESIGN:

Dog - Ear design	\$ _____/ea
Gothic design	\$ _____/ea

4' RAIL FENCE:

4" x 4" treated round fence posts	\$ _____/ea
4" x 4" treated gate posts	\$ _____/ea
2 – 4" x 4" doweled treated rails	\$ _____/ea
4' high 11-1/2 gauge 2-1/4" mesh	\$ _____/ea

HOURLY LABOR RATE:

One man and truck	\$ _____/hr.
Two men and truck	\$ _____/hr.
Each additional man	\$ _____/hr.

- **These items are optional and will not be considered in the evaluation of the bids.**

ALL REPAIRS TO BE MADE WITHIN THE CITY OF TULSA.

BID EVALUATION AND AWARD:

The award of bid shall be made to the lowest secure bidder based on a total of the unit prices of the materials list on pages 8, 9, and 10 and by the bidders hourly labor rate.

Department Contact for further question: Bryan Young @918-591-4348.

NOTE: BIDDERS MUST SUBMIT ONE (1) ORIGINAL BID AND TWO (2) COPIES, EACH WITH ATTACHMENTS AS NECESSARY TO SHOW COMPLIANCE WITH BID SPECIFICATIONS.

TAC 217A
FENCE REPAIR/INSTALLATION & SUPPLIES
CITY OF TULSA

INTENT:

It is the intent of this bid to secure, on a competitive basis, a source(s) of supply for furnishing a **Fence Repair/Installation & Supplies** for the City of Tulsa.

ALTERING BIDS:

Bids cannot be altered or amended after submission deadline. Any interlineation, alteration, or erasure made before opening time and date must be initialed by the signer of the bid, guaranteeing authenticity. Bids must be submitted in ink or typewritten. Penciling will not be accepted.

PRICING:

Bid prices, unless otherwise specified, must be net, including transportation and handling charges fully prepaid by vendor to destination and subject only to cash discount for prompt payment of invoice.

DELIVERY:

Delivery time must be stated in days in the appropriate spaces of the cover sheet. Indefinite terms such as “promptly”, “without delay”, etc., will not be given consideration. Failure to indicate delivery time shall be cause for rejection of the bid.

CONTRACTOR’S LIABILITY AND INSURANCE REQUIREMENTS:

General Liability: The City of Tulsa shall not be liable for any loss or damage sustained by the contractor. The contractor shall save the City of Tulsa whole and harmless from any and all claims of whatsoever nature growing out of or resulting from or in any way connected with the exercise of the privilege herein granted. Contractor will exercise every necessary precaution for the safety of the property and the protection of any and all persons and/or property located adjacent to or making passage through said property.

Liens: The contractor agrees to indemnify and hold the City harmless from all claims, demands, causes of action or suits of whatever nature arising out of the services, labor and materials furnished by the Contractor or his subcontractors under the scope of this bid and from all laborer’s materialmen’s and mechanics’ liens upon the real property upon which the work is located or any property of the City of Tulsa.

Premiums: Premiums on all insurance policies shall be paid by the Contractor and shall be deemed included in his service agreement unless otherwise specified.

INSURANCE:

The contractor, and any subcontractors, shall carry and keep in force during the term of the contract policies of public liability insurance including any contractual liability assumed under the contract in the minimum amounts set forth below and workmen's compensation and employer's liability insurance in the amounts required by law. The contractor shall also furnish and owner's protective policy in the same amounts with the City of Tulsa as the named assured by the same insurance company as the insurer of contractor's liability coverage.

Personal Injury, each occurrence/each person	\$1,000,000
Property Damage, each person	\$25,000
Property Damage, each occurrence	\$100,000

The policy shall provide a clause stating that it cannot be cancelled by the insurer without the insurer first giving the City ten (10) days written notice of cancellation. The successful bidder shall furnish the City a certificate of insurance showing such coverage within ten (10) days following the acceptance of the bid by the City.

EMPLOYMENT DISCRIMINATION BY CONTRACTOR PROHIBITED:

- A. During the performance of this contract, the contractor agrees as follows:
 - 1. The contractor will not discriminate against any employees or applicant for employment because of race, religion, color, sex or national origin, except where religion, sex or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the contractor. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provision of this non-discrimination clause.
 - 2. The contractor, in all solicitations or advertisements for employment placed by or on behalf of the contractor, will state that such contractor is an equal opportunity employer.
 - 3. Notices, advertisements and solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- B. The contractor will include the provision of the foregoing paragraphs of this section in every subcontract or purchase order of over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

OTHER APPLICABLE LAWS:

Any provisions required to be included in a contract of this type by any applicable and valid Federal, State, or local law, ordinance, rule or regulation shall be deemed to be incorporated herein.

BIDDER AFFIDAVITS:

Each bidder shall accompany his bid with a fully executed and notarized copy of the attached Non-Collusion Affidavit and the Interest Affidavit. Failure to do so shall be cause for rejection of the bid.

ADDENDA AND INTERPRETATIONS:

If it becomes necessary to revise any part of this bid, a written addendum will be provided to all the bidders. The City of Tulsa is not bound by any oral representations, clarifications, or changes made in the written specifications by City of Tulsa employees unless such clarification or change is provided to bidders in written addendum form from the Purchasing Division.

AWARD OF BID:

The bid shall be awarded to the firm whose proposal is responsive to the bid and is most advantageous to the City, considering the factors identified in the bid and Section 406E of Title 6, The Purchasing Ordinance set forth below:

406E. AWARD OF CONTRACT

1. Authority in the Mayor. The Mayor shall have the authority to award contracts within the purview of this chapter.
2. Lowest Secure Bidder. Contracts shall be awarded to the lowest secure bidder meeting specifications. Bid Specifications may include a point system for evaluating the lowest secure bid. In determining "lowest secure bidder", in addition to price, the following factors shall be considered:
 - a. The ability, capacity and skill of the bidder to perform the contract or provide the service required;
 - b. whether the bidder can perform the contract or provide the service promptly or within the time specified, without delay or interference;
 - c. the character, integrity, reputation, judgment, experience and efficiency of the bidder;
 - d. the quality of performance of previous contracts or services;
 - e. the previous and existing compliance by the bidder with laws and ordinances relating to the contract or service;

- f. the sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service;
- g. the quality, availability and adaptability of the supplies or contractual services to the particular use required;
- h. the ability of the bidder to provide future maintenance and service for the use of the subject of the contract;
- i. where an earlier delivery date would be of great benefit to the requisitioning agency, the date and terms of delivery may be considered in the bid award, and
- j. the number and scope of conditions attached to the bid.
- k. if a point system has been utilized in the bid specifications, the number of points earned by the bidder.

TECHNICAL SPECIFICATIONS

1. SPECIFICATIONS FOR NEW FENCE INSTALLATION:

Fencing Materials:

The fabric shall be of eleven and one-half (11-1/2) gauge steel, woven in 2" mesh, and galvanized after weaving.

Line Posts:

Galvanized 2 OD schedule 40 pipe for 4' or 5' fence. Galvanized 2-3/8" OD schedule 40 pipe for 6' fence. Posts to be equipped with 9 gauge aluminum ties on 14" centers.

Gate & Terminal Posts:

End, corner, pull posts shall be 2-3/8" OD schedule 40 galvanized pipe for 4' and 5' gates; 2-7/8" for 6' gates. Where gates width are over 8', posts shall be 3", for 4' and 5'; and 4" for 6' gates. Fabric shall be attached to terminal posts by use of 1/4" x 3/4" diameter bolts and nuts, or by integrally weaving wire to posts in formed lock loops. Pipe posts shall have cast iron or pressed steel top of standard design. Terminal posts must be able to support a minimum of 380 lbs. Of force concentrated at a point of 6' above ground level.

Braces:

Same material as top rail and trussed from line posts back to terminal posts with 3/8" galvanized rod complete with truss tightener.

Bottom Tension Wire:

Wire shall be #7 gauge spring coil tension, fastened to chain link fabric with #11 gauge hog ring on 24" centers. Coating to match fabric furnished.

Top Rail:

1-5/8" OD galvanized pipe. Fabric to be tied to top rail every 24 inches with #9 gauge aluminum tie wire. The top rail must be able to support a minimum weight of 190 lbs. Of force concentrated between 2 posts set 10' apart.

Rail Couplings:

Six (6) inch long sleeve type galvanized.

Stretcher Bars:

Steel, 3/16" x 3/4" or equivalent, galvanized.

Gates:

Four (4) feet, Five (5) feet and/or Six (6) feet in height. Shall be swing type hinges to swing at least 90 degrees from closed to open, complete with hinges, frames, latches, stops, keepers, fabric and braces. Gate leaves shall have intermediate members, and diagonal truss rods as required for rigid construction and free from sag or twist. Joints between frame end members shall be made by welding or by means of heavy fittings, rigid and watertight. Frame coating and fabric for all gates shall be the same as adjacent fencing. Fabric shall be attached to frame ends by stretcher bars, bolt hooks or other mechanical means. Hinges shall be heavy pattern with large surfaces that won't twist or turn under action of the gate. Latches for the double leave gates shall be plunger bar type, full gate height and arranged to engage the gate stop. "All latches shall be arranged for padlocking from both sides of the gate". Gates shall be installed so that they cannot be removed without disassembly of the hardware. Hardware attachment bolts shall be pinned so that removal will be difficult.

Posting Spacing:

All posts shall be plumb and unless otherwise required spaced a maximum 10' apart. Clearance underneath the fence shall not exceed 2 inches unless specifically approved by the City.

Foundations:

Where posts are set in earth, concrete foundations 36 inches deep shall be provided. Concrete foundations shall be circular and not less than 10 inches in diameter for line posts, and with a diameter not less than the post OD plus 9 inches for terminal and gate posts.

II. SPECIFICATIONS FOR MISCELLANEOUS FENCE REPAIR:

Fence Materials:

Replacement fence fabric used in repairs must be of the same gauge, mesh and finish of that being replaced.

All other material that needs repaired or replaced shall be of new installation specifications. (Refer to Part I)

- III. All new installations or repairs of fence already installed that would involve out of the ordinary situations, for example: steep slopes, unforeseen ground formations, access or drilling out pipes broken off in cement footers, must be submitted to department with labor, materials, tools, and equipment on an estimate for review and return before work begins.

1. SPECIFICATIONS FOR NEW PRIVACY FENCE INSTALLATION:

FENCING MATERIALS:

- The fence pickets shall measure 1" x 4" and be cedar. They shall also have a top design of either Dog-Ear or Gothic as designated by the City. The fence posts shall measure 4" x 4" and be treated. The gateposts shall measure 4" x 4" and be treated. The back rails shall measure 2" x 4" and be treated.
- 4' fences shall have 2 back rails. 6' fences shall have 3 back rails. 8' fences shall have 4 back rails.
- Nails used in assembly of any fence shall be either galvanized or zinc plated.

POST SPACING:

All posts shall be plumb and will be required to be spaced a maximum of 8' apart. Clearance between the bottom of the fence and ground level shall be a minimum of 2". Clearance shall not exceed 2" unless specifically approved by the City.

FOUNDATIONS:

Where posts are set in the earth, a concrete foundation of 36" deep shall be provided. Concrete foundations shall be circular and not less than 10" in diameter.

GATES:

- Four (4) feet, Six (6) feet, or Eight (8) in height. Shall be swing type hinges to swing at least 90 degrees from closed to open, complete with hinges, frames, latches, stops, keepers, fabric and braces. Gate leaves shall have intermediate members, and diagonal truss rods as required for rigid construction and free from sag or twist. Hinges shall be heavy pattern with large surfaces that won't twist or turn under action of the gate. Latches for the double leave gates shall be plunger bar type, full gate height and arranged to engage the gate stop. "All latches shall be arranged for padlocking from both sides of the gate". Gates shall be installed so that they cannot be removed without disassembly of the hardware. Hardware attachment bolts shall be panned so that removal will be difficult.
- The above specifics for gates shall apply to both walk gates and drive gates.

2. SPECIFICATIONS FOR NEW RAIL FENCE INSTALLATION:

FENCING MATERIALS:

- The fence posts shall be round, measure 4" in diameter, and be treated. The gateposts shall be round, measure 4" in diameter and be treated. The rails shall be doweled, measure 4" in diameter, and be treated.

- The staples used for attaching the fabric mesh shall be either galvanized or zinc plated.
- The fabric shall be of eleven and one-half (11-1/2) gauge steel, woven in 2" mesh, and galvanized after weaving.
- The rail fences shall be 4' high with 2 horizontal rails.

POST SPACING:

All posts shall be plumb and will be required to be spaced 8' apart. Clearance between the bottom of the fence fabric mesh and ground level shall be a minimum of 2". Clearance shall not exceed 2" unless specifically approved by the city.

FOUNDATIONS:

Where posts are set in the earth, a concrete foundation of 36" deep shall be provided. Concrete foundations shall be circular and not less than 10" in diameter.

GATES:

- Four (4) feet in height. Shall be swing type hinges to swing at least 90 degrees from closed to open, complete with hinges, frames, latches, stops, keepers, fabric and braces. Gate leaves shall have intermediate members, and diagonal truss rods as required for rigid construction and free from sag or twist. Fabric mesh shall also line the gate. Hinges shall be heavy pattern with large surfaces that won't twist or turn under action of the gate. Latches for the double leave gates shall be plunger bar type, full gate height and arranged to engage the gate stop. "All latches shall be arranged for padlocking from both sides of the gate". Gates shall be installed so that they cannot be removed without disassembly of the hardware. Hardware attachment bolts shall be pinned so that removal will be difficult.
- The above specifics for gates shall apply to both walk gates and drive gates.

3. SPECIFICATIONS FOR MISCELLANIOUS FENCE REPAIR

FENCE MATERIALS:

- Replacement fence fabric used in repairs must be of the same gauge, mesh and finish of that being replaced.
- All other material that needs repaired or replaced shall be of new installation specifications.
- All new installations or repairs of fence already installed that would involve out of the ordinary situations must be submitted to department with labor, materials, tools, and equipment on an estimate for review and return before work begins. Examples would be: steep slopes, unforeseen ground formations, access or drilling out pipes broken off in cement footers.