



REQUEST FOR BID
Date:10/12/10
Bid #10-30DS

RETURN BY OPENING TIME TO:
Purchasing Division
RM 100 City Hall
411 West 1st Street
Duluth, MN 55802

Tuckpointing on Various City Bldgs

Buyer: Dennis Sears
Phone: 218-730-5003
Fax: 218-730-5922

BID OPENING, RM 100 AT 2:00 PM ON Tuesday, September 7, 2010

Note: All bids must be written, signed, and transmitted in a sealed envelope, plainly marked with the bid number, subject matter, and opening date. The City of Duluth reserves the right to split award where there is substantial savings to the city, waive informalities and to reject any and all bids. Bidder should state in proposal if bid is based on acceptance of total order. Sales tax is not to be included in the unit price. Bidder to state freight charges if, proposal is F.O.B. shipping point, freight not allowed. Low bid will not be the only consideration for award of bid. All pages must be signed or initialed by authorized bidder's representative as indicated at the bottom of the page(s) of the request for bid forms.

RETURN BID IN DUPLICATE WITH DUPLICATE DESCRIPTIVE LITERATURE
BID RESULTS WILL BE POSTED TO THE WEB SITE SHORTLY AFTER BID OPENING
City bid information on website: www.duluthmn.gov/purchasing/bid_information.cfm

Designated F.O.B. Point

Tax: Federal Excise Tax Exemption
Account No. 41-74-0056 K

Item No.	Qty	U/OM	Description	Unit Price	Total Price
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Please provide the City of Duluth quotes for Tuckpointing per the attached building list and City specifications for year 2010. Option to renew for two (2) additional one (1) year periods as mutually agreed.

Vendor E-mail Address _____ Freight Charges N/A

Name _____	Brick Per Sq Ft Bid Price _____
Addr _____	Granite Per Sq Ft Bid Price _____
_____	Block Per SQ Ft Bid Price _____

By: _____ Payment Terms 35 Days after invoice
(print title) F.O.B. Point N/A

(signature) (tele#) Delivery Date N/A

Additional Information

The following buildings have been identified to be tuckpointed as budget money permits. Each building is estimated to have 1000 to 1500 square feet of needed work. Buildings will have to be checked to determine exact amount of needed square footage. Please base your bid on a square foot basis. The City reserves the right to eliminate any building in order to stay with 2010 budgeted dollars once the contractor determines the square foot area to be done.

Buildings for 2010

Composite

Facility Management	Brick
Central Hillside Community Center	Brick
Portman Community Center	Brick
2 of 8 fire stations	Brick

Future Buildings

Composite

City Hall	Buttered Granite
Lakewood Water Treatment Plant And Pump House	Brick
Duluth Heights Community Center	Brick
Merrit Community Center	Brick
Evergreen Community Center	Brick
Last 6 of 8 fire stations	Brick

It is the City's intent to have the tuckpointing done within one timeframe to eliminate added mobilization costs.

Please provide cost of mobilization to and from Duluth, MN if any. All other expenses are to be included in the per square foot cost.

Please review 3.5 Tuckpointing in the attached specification and initial if spec can be adhered to.

Bidders shall provide 3 references for comparable commercial work.

~~Bidder shall provide a 5% bid bond with their bids.~~

Awarded vendor shall provide Performance and Payment bonds of 100% of the total cost as relates to the identified tuckpointing needs at each location.

City of Duluth Contact: Terry Groshong
City Architect
218-590-2322

5. Lay replacement units with completely filled bed, head and collar joints. Butter ends with sufficient mortar to fill head joints and shove into place.
6. Do not permit mortar droppings to fall into cavity. Keep cavity clear of mortar droppings by back beveling the mortar bed or other approved method that demonstrates the ability to prevent excess from extruding into cavity.
7. Wet clay brick that have ASTM C67 initial rates of absorption of more than 1 oz./30 sq.in/minute. Use wetting methods, which ensure that units are nearly saturated but surface dry when laid.
8. Maintain joint width to match existing.
9. Tool mortar joints in repaired areas to match concave joint profile of surrounding work.
10. At completion of masonry work, remove defective joints, holes, and cracks in new mortar joints to a depth of 3/4" and repoint.

3.3 CONSTRUCTION TOLERANCES

- A. Mortar joint thickness
 1. Bed joints: $\pm 1/8$ in.
 2. Head joints: $-1/4$ in., $+3/8$ in.
- B. Variation from level: Bed joints $\pm 1/4$ in. in 10 feet, $\pm 1/2$ in. maximum
- C. Variation from plumb: $\pm 1/4$ in. in 10 feet
- D. Across face of adjacent unit: $\pm 1/16$ in.

3.4 EXPANSION JOINTS

- A. Cut expansion joints using a saw designed to cut masonry with clean, sharp, unchipped edges.
- B. At locations indicated on the Drawings, cut expansion joints 1/2" wide only through the exterior wythe of masonry, $\pm 1/4$ " in 10' maximum variation from plumb, and $\pm 1/8$ " thickness.
- C. Provide a sample cut at a location agreed upon by the Owner prior to cutting the new expansion joints. Upon approval by Owner, complete cutting of new joints.
- D. Install backer rod and sealant.

3.5 TUCK POINTING

- A. Solid tuck pointing includes all mortar joints for removal and repointing in a specified area.
- B. Spot tuck pointing includes removal and repointing of only cracked or deteriorated mortar joints as determined by the Architect/Engineer, in specifically designated areas for a specified amount (i.e.; linear feet, square feet, or percentage of elevation).
- C. Raking Mortar Joints:
 1. Rake out mortar from joints, as shown on the Drawings, to a minimum depth of 3/4", but not less than that required to expose sound, unweathered mortar.

2. Remove mortar from masonry surfaces within raked-out joints to provide reveals with square backs and to expose masonry for contact with pointing mortar.
3. Brush, vacuum, or flush joints with water to remove dirt and loose debris.
4. Do not spall edges of masonry units or widen joints. Replace units that become damaged. If power driven tools damage existing brick in any way, cut out old mortar by hand with chisel and mallet.
5. Power operated rotary handsaws and grinders will be permitted based on a satisfactory quality control program and demonstrated ability of operators to use tools without damage to masonry. Quality control program shall include provisions for supervising performance and preventing damage due to fatigue.

D. Tuck Pointing Mortar Joints:

1. Rinse masonry joint surfaces with water to remove dust and mortar particles. Time application of rinsing so that, at time of pointing, excess water has evaporated or run off, and joint surfaces are damp but free of standing water.
2. Apply first layer of pointing mortar to areas where existing mortar was removed to depths greater than 3/4". Apply pointing mortar in layers not greater than 1/4" to 3/8" until a 3/4" uniform depth is formed. Compact each layer thoroughly and allow to become thumbprint-hard before applying next layer.
3. After joints have been filled to a uniform depth, place remaining pointing mortar in 1/4" to 3/8" layers. Fully compact each layer and allow to become thumbprint-hard before applying next layer.
4. Recess final layer slightly from face where existing bricks have rounded edges. Take care not to spread mortar over edges onto exposed masonry surfaces, or to featheredge mortar.
5. Tool joints to concave joint unless otherwise indicated, when mortar is thumbprint hard.
6. Brush excess mortar from edges of joint.
7. Cure mortar by maintaining a damp condition for not less than 72 hours.
8. At completion of masonry work, remove defective joints, holes, and cracks in new mortar joints to a depth of 3/4" and repoint.

- E. All mortar shall be used within two and one half (2-1/2) hours of its initial mixing, and within one (1) hour of adding water to bring it to a working consistency. Retempering of the mortar to replace evaporated water shall be permitted within these time frames.

3.6 CLEANING

- A. Clean minimum 4' by 4' test panel of each type of masonry material prior to beginning full scale cleaning operation to determine effectiveness of cleaning compound and manufacturer's cleaning procedures. Test panels shall be available for inspection and approval by the Architect/Engineer.
- B. Clean restored masonry in an orderly manner, making sure that all surfaces are clean and a uniform appearance is obtained.
- C. Clean only after mortar has cured to its full strength, not less than 14 days. If new roof is installed, protect roof to drains with EPDM.