



# CITY OF RAPID CITY

RAPID CITY, SOUTH DAKOTA 57701

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## Department of Fire and Emergency Services

10 Main Street

605-394-4180

Fax: 605-394-6754

LF051607-05

TO: Maggie Paul  
FROM: Tim Kobes  
SUBJECT: L & F Committee Agenda Item  
DATE: April 26, 2007

Please add an agenda item from the Fire Department for a request to advertise for bid a Vehicle Exhaust Capture System for Fire Station 1. The amount not to exceed \$60,000, (funding to come from CIP Contingency.) If the funding needs to be re-appropriated we will need to have that added as well.

This item was approved to bid last year but due to some electrical issues and a question if the building could carry the additional weight of the system, we could not get this project completed in 2006. These issues have all been resolved and we are now ready to proceed.

The history behind this project is:

Oct 20, 2006 CIP approved up to \$60,000 from CIP Contingency.

Nov 1, 2006 L & F approved appropriating \$60,000 for the project.

Nov 6, 2006 Council approved the appropriation and authorized staff to advertise for bids.

Dec 15, 2006 CIP approved carrying this project forward to 2007.

ADVERTISING AUTHORITY

This form must be completed and approved by the City Finance Office prior to presenting items to the Common Council and/or Committees of the Common Council. This covers all items, which require formal bids, currently anything over \$25,000 (except emergency and repair costs).

- I. PROJECT ID NO.:
- II. PROJECT NAME: **Vehicle Exhaust Removal System**
- III. Project/Item(s) Description: **Vehicle Exhaust Removal System for Fire Station 1**
- IV. BID LETTING DATE: **November or December**
- V. (If applicable) Grant No.:  
 Funding Source: **CIP Contingency** *Government Bldg*  
 Estimated Completion Date: **1<sup>st</sup> Quarter of 2007**  
 Estimated Grant Receipt Date:

VI. ESTIMATED COST OF PROJECT/ITEM(S) **\$ 60,000.00**

VII. BASIS OF PAYMENT	Assessed	<input type="checkbox"/>	Non-Assessed Lease/Purchase	<input type="checkbox"/>
	Single Payment	<input checked="" type="checkbox"/>		<input type="checkbox"/>

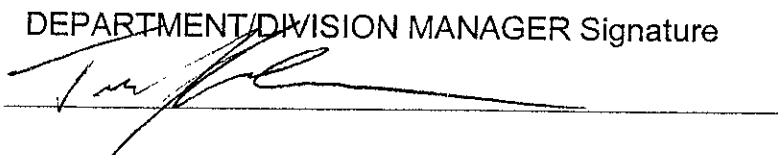
VIII. DISBURSEMENT SCHEDULE

Date	Amount	Amount	Amount	Amount	Amount
	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$
	\$	\$	\$	\$	\$
<b>Total</b>	\$	\$	\$	\$	\$

IX. APPROPRIATION DATA

Fund **0505**  
 Cost Center **8915**  
 Line Item **4320**

X. DEPARTMENT/DIVISION: **Rapid City Department of Fire & Emergency Services**  
 Project Manager: Tim Kobes Date **October 23, 2006**

DEPARTMENT/DIVISION MANAGER Signature  Date **October 23, 2006**

FINANCE OFFICE USE ONLY			Approved		Carbon Copy
Appropriation Cash Flow	Date	Initial	Yes	No	
		<u>11/30/06</u>	<u>TK</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	Public Works
			<input type="checkbox"/>	<input type="checkbox"/>	Engineering
			<input type="checkbox"/>	<input type="checkbox"/>	Project Manager

**SPECIFICATIONS FOR  
Fire Station One Vehicle Exhaust Capture System, for  
Rapid City Department of Fire & Emergency Services  
Rapid City, South Dakota**

Bids will be received at the Rapid City Finance Office, 300 Sixth Street, Rapid City, South Dakota on until 2:00 P.M. for furnishing a **Vehicle Exhaust Capture System** which shall meet the following specifications:

(See attached Specifications)

**SCOPE**

It is the intent of these specifications to describe an **Vehicle Exhaust Capture System** in sufficient detail to secure bids. All parts not specifically mentioned, which are necessary in order to provide **Vehicle Exhaust Capture System** shall be included in the bid and shall conform in strength, quality of material and workmanship to what is usually provided the trade in general.

The City's intent is to obtain a reasonable bid from all interested bidders. If for any reason bidders are unable to meet or equal the following specifications, the City will receive for consideration minor deviations of specifications. Deviations and variations of specifications must be fully detailed and explained by the bidder on the form provided and stapled to the BIDDER'S PROPOSAL.

All bids must be accompanied by literature completely describing the **Exhaust Capture System** to be furnished. Each bidder must be a dealer authorized by the manufacturer he represents. Each bid shall contain a dealer and/or factory warranty as a guarantee of the product to be furnished. The guarantee shall be stated in the descriptive literature or by a letter.

**GENERAL CONDITIONS**

1) Bidders Information

Each bid envelope shall contain **ONLY ONE** (1) Bid Proposal and shall be marked with the words "**Sealed Bid – Exhaust Capture System**".

Bids submitted by mail, express courier, or common carrier cannot be accepted unless received in the City Finance Office prior to the time for the scheduled bid opening. Bids submitted by telefax cannot be accepted.

**Each bid envelope shall contain the entire set of specifications. To save time for both the bidder and the City, the bidder shall fill out and complete "ARTICLE 5 CONTRACT DOCUMENT" upon submittal of the bid.**

To the extent provided by statute, preference will be given to materials, products, and supplies found or produced within the State of South Dakota. (SDCL Chapter 5-19; Residential Preference Statute.)

The City reserves the right to reject all bids and unless all bids presented are rejected, the lowest responsible bid, in all cases, will be accepted. In case the low bid is not responsible or the bid is not made in accordance with the requirements of SDCL Chapter 5-19 or the

low bid is withdrawn, the bid of the next lowest responsible bidder may be accepted; however, to the extent allowed by law the City reserves the right to accept the bid that is to the advantage of and is in the best interest of the City of Rapid City.

Payment for the **Exhaust Capture System** will be made BY CHECK, within a reasonable time after receipt and approval of the system and installation, receipt of a City claim, and approval by the Common Council.

The unit price of the bid must be stated on the Bidder's Proposal form, along with the extended price bid. Unit price shall take precedence over extended price; written figures shall take precedence over numerical figures. Freight Charges and any installation and labor charges shall also be included.

NAME OF BIDDER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE NO.: (\_\_\_\_\_) \_\_\_\_\_ FAX NO.: (\_\_\_\_\_) \_\_\_\_\_

E-mail address: \_\_\_\_\_

Bidder proposes and agrees to and with the City of Rapid City, South Dakota ("City") to furnish **Fire Station One Vehicle Exhaust Capture System** at the following price, to-wit:

ITEM NO.	DESCRIPTION	Quantity	UNIT PRICE (numerical)	EXTENDED PRICE (numerical)
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The within proposal and agreement are based upon the conditions, stipulations, and specifications named in the notice inviting bids for said, which notice and detailed specifications are made a part of this contract as if written herein at length. The **Vehicle Exhaust Capture System** shall be delivered F.O.B., Rapid City \*DEPARTMENT\*, Rapid City, South Dakota, 57701, within \_\_\_\_\_ calendar days (to be filled in by Bidder) after date of awarding contract.

The Bidder further agrees and states that he has read the notice calling for bids and has studied the detailed specifications and that he is familiar with the terms and conditions stipulated therein and agrees to enter into attached Contract.

\_\_\_\_\_  
NAME OF COMPANY - BIDDER

\_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
Print Name & Title

\_\_\_\_\_  
Address

\_\_\_\_\_  
Date



**CONTRACT  
SUPPLIES AND EQUIPMENT  
BETWEEN  
SUPPLIER AND CITY OF RAPID CITY**

THIS AGREEMENT, made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, by and between \_\_\_\_\_ hereinafter "Supplier," and the City of Rapid City, South Dakota, hereinafter "City," WITNESSETH:

That the Supplier and the City, for the consideration named, agree as follows:

**ARTICLE 1. SCOPE OF WORK**

The Supplier shall furnish all of the materials, labor and perform all of the work as described in the specifications for Supplies and Equipment entitled **Fire Station One Vehicle Exhaust Capture System** prepared by the Department of Fire & Emergency Services, Rapid City, South Dakota, and shall do everything required by this Contract, General Conditions, Special Conditions, and Detailed Specifications, which are hereby made a part of this Contract, including the following Addenda.

Addendum No.

Dated

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**ARTICLE 2. TIME OF COMPLETION**

The furnishing or ordering of materials, supplies, and equipment under this Contract shall be commenced as soon as possible within the time stated in the specifications unless the specifications expressly provide for a one time delivery, it is agreed that the City may place orders under this Contract at any time or times within the Contract period. Failure to meet the terms of the Contract on or before the completion date may result in forfeiture of the Performance Bond or deposit, if any; and shall be deemed a breach of this Contract. Request for time extensions shall be made in writing to the RAPID CITY DEPARTMENT OF FIRE & EMERGENCY SERVICES at least fourteen (14) days before the Contract completion date. The City through the Department of Fire & Emergency Services will issue all time extensions.

**ARTICLE 3. THE CONTRACT SUM**

The City shall pay the Supplier for the performance of the Contract, subject to additions and deductions provided therein, in current funds as follows:

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**ARTICLE 4. ACCEPTANCE AND FINAL PAYMENT**

Upon delivery of any items under this Contract, the Individual or Department specified in Article 2 for making time extensions shall satisfy himself by examination that the furnishing of supplies and equipment has been finally and fully completed in accordance with the Specifications and Contract, and shall make up the appropriate purchase order. The Supplier must complete and return a proper City voucher and payment will be made on said voucher as soon as possible after approval by the Common Council.

**CONTRACT**

**ARTICLE 5. THE CONTRACT DOCUMENTS**

The Notice for Bids, General Conditions, Special Conditions, Addendum, Specifications, and the Bidder's Proposal together with this Agreement, form the Contract, and all are as fully a part of the Contract as if herein set forth at length.

The Supplier further agrees and states that he has read the advertisement calling for bids and has studied the detailed specifications and that he is familiar with the terms and conditions stipulated therein.

IN WITNESS WHEREOF: The City of Rapid, South Dakota, its Council having duly approved this Contract, has caused this Contract to be executed in its behalf by its Mayor, hereunto duly authorized, attested thereto by its Finance Officer, and has hereto attached its corporate seal this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

THE CITY OF RAPID CITY, SOUTH DAKOTA

ATTEST:

by \_\_\_\_\_  
JIM SHAW, MAYOR

\_\_\_\_\_  
Jim Preston  
City Finance Officer

Date \_\_\_\_\_

(SEAL)

\_\_\_\_\_  
NAME OF COMPANY

by \_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
Print Name & Title

\_\_\_\_\_  
Address

Date \_\_\_\_\_





**Albertson Engineering Inc.**

January 24, 2007

Chief Tim Kobes  
Rapid City Fire Department  
10 Main Street  
Rapid City, SD 57701-2832

RE: Structural Evaluation of Mech Unit Support  
Fire Station #1  
10 Main Street  
Rapid City, SD  
Albertson Engineering File #2007-004

Dear Chief Kobes,

As per your request, we have reviewed the capacity of the existing roof framing to determine if it has the capacity to support the 10 new proposed mechanical units to be hung from the existing framing. As part of this discussion you stated that the original ballasted roof has either been replaced recently or is scheduled to be replaced soon with a membrane roof without ballast. Furthermore, the mechanical units would not be hung from the roof while ballast remains on the roof.

The existing roof framing consists of precast concrete double tee sections spanning across the 75' width of the building section proposed to have the mechanical units installed. The mechanical units are to be spaced relatively uniformly across the roof area for the north bay. Ten units are to be installed, each with a weight of approximately 180 lbs.

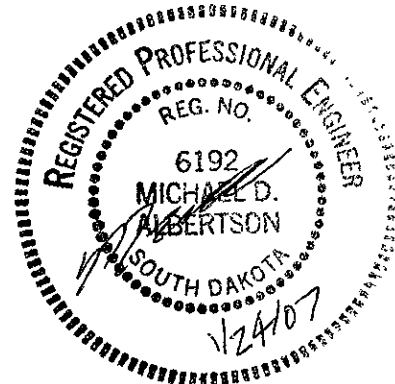
Based upon the information stated above, the net effect of the removal of the ballasted roof and the addition of the mechanical units is net decrease in the loads required to be supported by the roof framing. Based upon the net reduction in weight we can state that the roof framing is capable of supporting the new mechanical units. It should also be stated that the loads of the mechanical units to be supported by the existing roof framing is negligible compared to the snow loads and self-weight of the roof framing.

Please call if you have any questions.

Sincerely,

Albertson Engineering Inc.

Michael D. Albertson, P.E., S.E.  
President



# **Project Specifications for Vehicle Exhaust Capture System for RCDF&ES Station 1**

## **INTENT OF SPECIFICATIONS**

The city of Rapid City is soliciting bids for materials and installation of a hose free vehicle exhaust capture system. This system shall be provided and installed to meet the applicable OSHA and NFPA 1500 standards. These specifications cover only the general requirements as to the type of system and standards to which the system must conform. Details of construction and materials where not otherwise specified are left to the discretion of the bidder, who shall be solely responsible for the design and construction of all features.

## **BUILDING BACKGROUND**

The system will be installed in the apparatus bay area of Fire Station 1, located at 10 Main Street, Rapid City, SD. The area is approximate 76' x 100' with a ceiling height of approximately 17'. The walls are masonry; the ceiling and roof are pre-stressed double Tee concrete. There is florescent lighting and radiant heat tubes on the ceiling. 2 Engines, a ladder truck, 2 ambulances, a CAFS unit, as well as a mobile command post, all diesel engines; and two other gas powered trucks are normally housed in this space. Approximately 7500-8000 calls annually.

## **PROPOSAL REQUIREMENTS**

The time of completion of the work is of vital importance, and the contractor will be required to complete the work within the time stipulated in the Proposal. It will be necessary for the Bidder to satisfy the Owner of his ability to execute the work within the stipulated time.

No modification of bids already submitted will be considered unless such modifications are received prior to the hour set for opening. Telegraphic modifications will be rejected unless they conform to S.D.C.L. 5-18-8 and are confirmed in writing over signature of the Bidder within forty-eight (48) hours of the time set.

A bidder may withdraw his proposal at any time prior to the expiration of the period during which proposals may be submitted. Proposals may be withdrawn by letter, telegraphic communication, or in person before the time specified in the advertised notice. No bidder may withdraw a proposal after the date and hour set for bid opening as noted in the advertised notice.

The owner reserves the right to the extent allowed by law to award the work as is most advantageous to the City or reject any or all bids.

The Contractor shall be responsible for examination of the site of the project. A mutually agreed installation schedule shall be provided prior to work commencing to allow the least amount of disruption of the emergency response services of the Fire Department.

The Contractor shall be liable to pay all Federal, State, or local taxes required for labor and/or materials

The Contractor shall obtain all applicable permits associated with the project. Building Permit Fees shall be borne by the owner. All other fees, taxes, and costs shall be borne by the Contractor.

## SYSTEM REQUIREMENTS

The system shall be free hanging ceiling mounted, fully automatic, hands free, and no hoses. The system shall be capable of diesel and gasoline engine exhaust fume capture as well as diesel soot capture to meet NFPA 1500 and NIOSH standards for vehicle exhaust systems. The AirMATION AMB-302 and the AIR VAC-911, are two examples that will meet this spec.

The systems units shall have a series of replaceable filters. A breakdown of the needed filter specifications, number required per unit, and current replacement pricing shall be included in the bid package.

Units will be powered using 220 volts AC. Unit controls shall be low voltage. Systems will be activated via electric eye sensing overhead door movement. Manual operation capabilities of individual units or zones are required as well.

The weight per units shall be noted in the bid packet. A copy of a letter from a structural engineer, stating that the building is capable of carrying the additional weight is attached.

A layout drawing showing the approximate location of the proposed system units and controls shall be included in the proposal.

Any shipping costs shall be included in the bid price.

## INSTALLATION

Proposals shall include pricing on components, materials, labor and any other supplies or equipment needed to install all system components and controls. A suitable 100 amp electrical sub panel will be provided by the owner. **An electrical contractor licensed by the City of Rapid City, will be required to do all the electrical work.**