



CITY OF HOUSTON INVITATION TO BID

Issued: November 19, 2010

Bid Opening:

Sealed bids, in duplicate, will be received by the City Secretary of the City of Houston, in the City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002, until **10:30 a.m. Thursday, December 9, 2010** and all bids will be opened and publicly read in the City Council Chamber, City Hall Annex, Public Level, 900 Bagby at 11:00 a.m. on that date for the purchase of:

**LIGHT, MEDIUM AND HEAVY-DUTY TRUCKS
FOR
VARIOUS DEPARTMENTS
BID INVITATION NO. S38-N23754
NIGP: 072-00**

Buyer:

Questions regarding this solicitation package should be addressed to **Buyer Lena Farris**, at **(832) 393-8729**, or e-mail to **lena.farris2@houstontx.gov**.

Bidding forms, specifications, and all necessary information should be downloaded from the Internet at **<http://purchasing.houstontx.gov>** by registering and downloading this solicitation document, all updates to this solicitation document will be automatically forwarded via e-mail to all registered bidders. This information may also be obtained from the Supplier Assistance Desk, Strategic Purchasing Division, 901 Bagby, Concourse Level, Houston, Texas 77002.

Electronic Bidding:

In order to submit a bid for the items associated with this procurement, you must fill in the pricing information on the "PLACE BID" page.

Pre-Bid Conference:

A Pre-Bid Conference will be held for all Prospective Bidders in the Strategic Purchasing Division, Concourse Level (Basement), Conference Room No. **2**, City Hall Basement, 901 Bagby, at **10:00 a.m.** on **Wednesday, December 1, 2010**.

All Prospective Bidders are urged to be present. It is the bidder's responsibility to ensure they have secured and thoroughly reviewed the solicitation documents prior to the Pre-Bid Conference. Any revisions to be incorporated into this solicitation document arising from discussions before, during and subsequent to the Pre-Bid Conference will be confirmed in writing by Letter(s) of Clarification prior to the bid due date. Verbal responses will not otherwise alter the specifications, terms and conditions as stated herein.

The place of the bid opening may be transferred in accordance with Paragraph (b), (5) of Section 15-3 of The Code of Ordinances, Houston, Texas. The bid opening meeting may be rescheduled in accordance with Paragraph (b), (6) of said Section 15-3.

The City reserves the right to reject any or all bids, or to accept any bid or combination of bids deemed advantageous to it.

City Employees are prohibited from bidding on this solicitation in accordance with the Code of Ordinances, Section 15 - 1.

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***NOTE 1: Actual page numbers for each Section may change when the solicitation document is downloaded from the Internet or because of Letters of Clarification. Therefore, Bidders must read the bid document in its entirety and comply with all the requirements set forth therein.**

***NOTE 2: To be considered for award, please submit the electronic bid form and the forms listed in Section A, including the official signature page, which must be signed by a company official authorized to bind the company.**

INSTRUCTIONS for BIDDING and TERMS & CONDITIONS

NOTE: It is the policy of the City of Houston that a sealed, signed bid must be submitted to the City Secretary by the due date. After you submit your bid online, please print the online Official Bid Form and signature page, sign, and turn in to the City Secretary.

1. All bids must show the full name of the firm bidding and must be on the online Official Bid Form. Bids should be filed in duplicate and at least one copy of the online Official Bid Form must be manually signed in ink by an authorized officer of the company and their title must be shown. Obligations assumed by the signature must be fulfilled. **The bid number, title of the bid, and the bid due date must be shown on the front of the envelope(s) containing the Bid Form(s) when submitted to the Office of the City Secretary, Public Level, Room No. P101, City Hall Annex, 900 Bagby Street, Houston, TX 77002.**
2. **TIME AND DATE:** Bids **MUST** be in the Office of the City Secretary, City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002 at or before 10:30 A.M. on the day bids are due; an early postmark will not suffice. Be sure you have allowed ample time for postal delivery. **CAUTION:** Bids mailed on the day before bids are due may not be received in time to be considered.
3. **WITHDRAWAL OF BID OFFER:** If the bid has been submitted to the City Secretary, a bidder may withdraw its offer before the expiration of the time during which the offer may be submitted, without prejudice, by submitting a written request for its withdrawal to the City Secretary. The bidder should follow instructions listed on the Strategic Purchasing Division website to withdraw any bid submitted through the online bidding process.
4. The online Official Bid Form should indicate the Unit Price for the specified item(s). The Unit Price shall be inclusive of all costs, insurance and freight. **Cash discounts will not be considered in the award of bids.**
5. No change in price will be considered after bids have been opened.
6. Provisions of the City's online Official Bid Form, Specifications, and General Terms & Conditions shall not be altered. Any alteration of figures or terms may invalidate the bid on the item which the alteration is made. Submission or attachment of company "QUOTATION FORMS" containing alternative terms and/or conditions is not acceptable and may result in your bid being determined non-responsive.
7. If bidder wishes to submit more than one bid on the same item, separate online City Official Bid Forms for each bid, complete with its own original signature page, must be submitted both online and to the City Secretary.
8. All bids are for delivery not later than the time stated in the specifications, Prepaid F.O.B. Destination, the point of delivery stated in the Specifications and/or Bid Form.
9. Bidders are invited to be present at the opening of bids. After opening, bids may be inspected in the City Secretary's Office, City Hall Annex, Public Level, 900 Bagby, Houston, Texas 77002.
10. **Cost of Bid/Proposal Preparation** The City shall not reimburse the cost of developing, presenting or providing any response to this solicitation. Offers submitted for consideration should be prepared simply and economically, providing adequate information in a straightforward and concise manner.

SECTION A



FLEET FORMAL BID

**LIGHT, MEDIUM AND HEAVY-DUTY TRUCKS
FOR
VARIOUS DEPARTMENTS
BID INVITATION NO. S38-N23754
NIGP: 072-00**

To the Honorable Mayor
and City Council Members
of the City of Houston, Texas (the "City")

The undersigned hereby offers to furnish and deliver prepaid F.O.B. destination point Houston, Texas, the item(s) listed on the **electronic bid form** and on individual Purchase Orders, in accordance with the price(s) bid and other conditions shown herein, and in accordance with the City's Specifications and General Terms & Conditions and/or samples/drawings provided herein. When issued by the City of Houston, Letters of Clarification shall automatically become part of this bid document and shall supersede any previous specifications or provisions in conflict with the Letters of Clarification. It is the responsibility of each bidder to ensure it has obtained all such Letters. By submitting a bid on this project, bidder shall be deemed to have received all Letters of Clarification and to have incorporated them into the bid.

The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order at any time on or before the 120th day following the day this Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.

The City reserves the option, after bids are opened, to adjust the quantities listed on the following page(s) upward or downward, subject to the availability of funds, and/or make award(s) on a line item basis.

The City reserves the right to INCREASE quantities during the twelve-month period following the issuance of the first purchase order(s) subject to agreement in writing by the Prime Contractor/Supplier to honor the same bid price(s).

SECTION A

Documents/forms must be downloaded from the City's Website
<http://purchasing.houstontx.gov>

Additional Required Forms to be Included with this Bid:

In addition to the electronic Bid Form and the Official Signature Page, the Forms listed in Table 1 **must be completed and submitted to the Office of the City Secretary on or before the date and time the bid is due:**

Table 1 - Required Forms
Affidavit of Ownership.doc
Fair Campaign Ordinance.doc
Statement of Residency.doc
Conflict of Interest Questionnaire.doc
Bidders Attachments Fleet.doc

Table 2 lists other documents and forms that should be viewed/downloaded from the City's website, but are not required to be submitted with the bid. The City will request these forms, as applicable, to be completed and submitted to the City by the recommended/successful bidder:

Table 2 - Documents and Forms
Drug Form.doc
EEOC.doc
Equipment Inspection & Receiver.doc
MWBE.doc

SECTION B

SPECIFICATIONS

PART I GENERAL SPECIFICATIONS

1.0 Bidding:

1.1 Pricing for Specified Item(s):

1.1.1 Bidders may bid on one or more of the specified items listed.

1.1.2 Bids submitted must contain a unit price for the specified item(s). For any bid solicitation that contains a request for separate pricing of options for the specified item(s), pricing must be provided for both the specified item(s) and option(s) listed. If pricing is provided for only the listed option(s), the bid for that specified item will be deemed as non-responsive and will be rejected.

1.1.3 The unit price for any specified item shall be defined as the price for the manufacturer's standard model, furnished complete with all standard equipment and factory installed accessories listed in the manufacturer's printed literature for the respective unit, and any additional equipment defined herein by the City of Houston that is to be included.

1.1.4 In the official e-bid form, if the bidder does not intend to submit a bid for one or more of the specified items listed, bidder shall check the "No Bid" Box.

1.2 Pricing for Listed Option(s): (If Applicable)

1.2.1 A unit price is required on every listed option for the specified item(s).

1.2.2 If a bidder "no bids" any listed option for which bids are requested for a specified item and the option is available for the specified item(s), the bid for that specified item will be deemed as non-responsive and will be rejected.

1.2.3 In the official e-bid form, for any optional equipment requested, if the equipment that is requested is included as standard equipment by the manufacturer, or is offered by the bidder at no charge, the bidder shall check the "No Charge" Box, which will then indicate "\$0.00" in the Unit Price column.

1.3 The City may accept this bid offer by issuance of a Notice of Award Letter and/or a Purchase Order covering award of bid to the Prime Contractor/Supplier at any time on or before the 120th day following the day the Official Bid Form is opened by the City. This offer shall be irrevocable for 120 days after bid opening or for 90 days after City Council awards the bid, whichever comes last, but this period may be extended by written agreement of the parties.

1.4 Prices quoted shall remain firm through delivery and shall not be subject to increases (or supplemented on Prime Contractor/Supplier's invoice(s) for payment).

1.5 The City reserves the option, after bids are opened, to adjust the quantities listed on the City's Official Bid Form upward or downward, subject to the availability of funds, and/or make award by line item. Therefore, the City shall not be liable for any contractual agreements/obligations the Prime Contractor/Supplier enters into based on the City purchasing all the quantities specified herein.

1.6 The City reserves the right to INCREASE quantities during the twelve-month period following the issuance of the first purchase order subject to agreement in writing by the Prime Contractor/Supplier to honor the same bid price. During this period, purchase orders will be issued for these items as needed. It is emphasized that the City of Houston does not guarantee any quantities; rather, the quantities may vary depending upon the actual needs of the various city departments.

2.0 Award:

2.1 Award will be made on the basis of the low total bid price for the specified item(s) meeting all specifications referenced herein plus listed options, if any.

SECTION B - PART I: GENERAL SPECIFICATIONS: (Continued)

3.0 Applicable Specifications:

3.1 The applicable specifications are comprised of the "Instructions for Bidding and Terms & Conditions", "Official Bid Forms", the "General Specifications", the "Technical Equipment Specifications", the "General Terms and Conditions" and other specifications that may be included herewith and the purchase orders which refer to these specifications.

4.0 Units Bid:

4.1 The unit(s) bid shall be new, manufacturer's latest make and model in current production as offered to commercial trade and shall be furnished complete with all factory-installed standard equipment and accessories listed in the manufacturer's latest literature for the respective unit and any additional optional equipment as may be defined in the detailed Technical Specifications.

4.2 Prime Contractor/Supplier, by affixing their signature on the Official City Bid Form, has offered to furnish the equipment as specified herein in accordance with these specifications and all provisions set forth in this bid document. As such, it is the Prime Contractor/Supplier's responsibility to adhere to these specifications. **Any exceptions or conditions to the specifications set forth in the bid documents will deem the bid non-responsive, and the bid will be rejected.**

4.3 The unit(s) bid shall be in full and complete compliance with all applicable safety and pollution requirements and regulations in effect at the time of bid submittal. This includes but is not limited to standards established by the United States Department of Transportation, including the Federal Motor Vehicle Safety Standards (FMVSS), the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Texas Department of Transportation and the Texas Commission on Environmental Quality (TCEQ).

4.4 **The City of Houston requires that the unit(s) bid be the lowest emission unit(s), i.e. Nitrogen Oxides (NOx) and Fine Particulate Matter (PM) without increasing Hydrocarbons (HC), available on the market for the specified equipment.** The emission standards established by the EPA shall be considered only as minimum standards. In the absence of EPA standards or if California Air Resources Board (CARB) standards provide lower emissions, CARB standards will be considered as the minimum if the specified unit and any required fuel is available to the City of Houston. **Federally regulated engines must be covered by an EPA-issued Certificate of Conformity certifying the engine to be in compliance with federal emission standards and the Prime Contractor/Supplier shall provide the Certificate of Conformity with their bid or within three calendar days from the written request of the City.** EPA emission label must be affixed to the vehicle and/or engine and be readily visible.

4.5 The term "Heavy Duty", or "HD" as may be applied to these specifications shall be interpreted to mean that the item referred to shall exceed the usual quality, quantity or capacity of that supplied with standard production units and shall be able to withstand the unusual strain, exposure, wear and use to be expected in the intended service. Where specification requirements are given, they shall be considered minimum requirements unless otherwise indicated.

4.6 Throughout these specifications, compatibility is of the essence and any modification, accessory, device, material or type of construction, whether to existing or to the specified equipment, which may be necessary to incorporate the specified equipment into the existing equipment shall be considered to be a part of these specifications whether detailed by item or not.

4.7 Units provided shall not have any decal, plate, sign, stencil, stamping, molding, or marking of any type pertaining to advertisement other than trademarks, trade names, or model designation normally installed by the manufacturer on equipment delivered to the City of Houston. No accessory item furnished on equipment shall advertise the name of the Prime Contractor/Supplier.

5.0 Technical Literature:

5.1 To evaluate the bids, the user department and the City purchasing staff may require product literature/specification sheets. Technical literature may be provided with the bid submittal but is not required. However, the City reserves the right to request and require literature and/or clarifications, as needed, after bid submittal.

SECTION B - PART I: GENERAL SPECIFICATIONS: (Continued)

5.0 Technical Literature: (Continued)

- 5.2 If required, Bidder must submit a minimum of TWO SETS of the requested catalogue information, descriptive literature specifications and/or (if applicable) engineering drawings that completely identify the items bid. Bidder(s) shall furnish the requested literature within seven (7) calendar days after the receipt of the City's written request. FAILURE ON BIDDER'S PART TO FURNISH THE REQUESTED TECHNICAL DATA IN THE TIME LIMIT SPECIFIED MAY BE CAUSE FOR REJECTION OF THE BID.

6.0 Warranty:

- 6.1 A minimum twelve (12) month manufacturer's warranty on both materials and workmanship shall be provided. Any and all documents necessary to effect warranty shall be properly applied for and submitted by the Prime Contractor/Supplier. The Prime Contractor/Supplier shall provide to the City a manufacturer's warranty which will be honored by any of the manufacturer's authorized dealers and a complete copy shall be provided at the time of delivery. When additional warranties are available as standard, they shall be included as a part of the bid for the benefit of the City.
- 6.2 **DELAYED WARRANTIES** must be available for all equipment. Warranty start date shall be effective the date **that the completed unit is placed into service by the City.** The Prime Contractor/Supplier shall furnish a delayed warranty card/document for each unit delivered and/or advise the City's Fleet Management/receiving department of the procedures to be followed for obtaining the delayed start of warranty coverage. Requests for delayed warranties will not exceed six months after delivery.
- 6.3 Additional warranties, if required, are listed in the Technical Specifications for each item.
- 6.4 With respect to any goods, materials, equipment, supplies and parts furnished by it, Prime Contractor/Supplier warrants:
- That all items are new and free of defects in title, design, material and workmanship.
 - That each item meets or exceeds the manufacturer's specifications and requirements for the equipment, structure, or other improvement in which the item is installed and conforms in all respects to the terms of the City Purchase Order and Specifications.
 - That each replacement item is new, in accordance with original equipment
 - Manufacturer's specifications are of a quality of at least as good as the quality of the item that it replaces (when the replaced item was new).
 - That no item or its use infringes any patent, copyright or proprietary right.
- 6.5 The Prime Contractor/Supplier's product shall be supported by an authorized service facility that can provide warranty repair, service and maintenance work within 24 hours from notification by the City.
- 6.6 Any warranty work shall be completed without cost to the City. Prime Contractor/Supplier shall be responsible for all shipping and/or freight expense from the City's designated location to the Prime Contractor/Supplier's facility for all warranty repair and/or maintenance and return to the City's designated location.
- 6.7 Prime Contractor/Supplier shall provide a Manufacturer's Authorized Facility located within the Houston-Galveston Region (Harris County and its seven adjacent counties, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery and Waller) for all warranty and maintenance service.

7.0 Licenses and Permits:

- 7.1 Prime Contractor/Suppliers are to adhere to all applicable federal, state as well as local laws and regulations. It is the Prime Contractor/Supplier's responsibility to acquire all necessary licenses and permits required by law.
- 7.2 Prime Contractor/Supplier shall be responsible for securing any and all inspections required by law, including State Inspection stickers. Any fee charged for these inspections shall be the responsibility of the Prime Contractor/Supplier and not the City of Houston.
- 7.3 At the time of delivery to the City of Houston, Prime Contractor/Suppliers are required to provide temporary paper license tags/plates for motor vehicles or other equipment required by the State of Texas to be registered for operation on public highways.

SECTION B - PART 1: GENERAL SPECIFICATIONS: (Continued)

7.0 Licenses and Permits: (Continued)

- 7.4 **TEXAS OCCUPATIONS CODE, TITLE 14, CHAPTER 2301** (Formerly known as "The Texas Motor Vehicle Commission Code"): **(If Applicable to this Procurement)**
- 7.4.1 Section 2301.251: License Required: Generally (a) Unless a person holds a license issued under this chapter authorizing the activity, the person may not (1)engage in business as, serve in the capacity of, or act as a dealer, manufacturer, distributor, converter, representative, vehicle lessor, or vehicle lease facilitator in this state.
- 7.4.2 Sec. 2301.252: License required: Sale of New Motor Vehicles:(a) A person may not engage in the business of buying, selling, or exchanging new motor vehicles unless the person: (1) holds a franchised dealer's license issued under this chapter for the make of new motor vehicle being bought, sold, or exchanged; or (2) is a bona fide employee of the holder of a franchised dealer's license.
- 7.4.3 **Licensed Franchised Dealers** submitting bids for new cabs & chassis with installed bodies and other equipment, by this Statute, are required to employ **properly licensed converters** for the conversions of the new motor vehicles.
- 7.4.4 **The Act of Submitting a Bid is regarded as doing business, as the entity is soliciting a sale.** Accordingly, each bidder must be a **licensed franchised dealer** at the time the bid is submitted.

8.0 Delivery / Inspection:

- 8.1 The item(s) specified herein, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) **within the delivery time(s) as listed in the Technical Specifications** after receipt of City of Houston Purchase Order.
- 8.2 The Prime Contractor/Supplier shall notify the City Contact listed in the "Ship To" section of the purchase order not less than three (3) days prior to expected delivery/arrival to permit inspection scheduling. The City Contact shall advise Prime Contractor/Supplier as to the date, time and location of authorized delivery/location. An authorized representative of the Prime Contractor/Supplier shall supervise delivery to the City. The City will not assume any liability for any vehicle/equipment delivered to an unauthorized location and/or any vehicle/equipment delivered but not accepted by the City.
- 8.3 **Documentation at time of Delivery:**
Prime Contractor/Supplier shall provide the following documentation **per purchase order** upon delivery:
- Copy of purchase order(s) and invoice(s).
 - Manufacturer's Certificate of Origin shall be made out to "City of Houston, Texas", 611 Walker, 11th Floor, Houston, TX 77002-2527 and delivered to the City's Fleet representative at the time of delivery of the vehicle/equipment, if applicable.
 - Temporary paper license tags/plates paperwork, if applicable for equipment being delivered.
 - Warranty policy(ies) and/or certifications as may be required in the Specifications.
 - Parts, service, operator and maintenance manual(s) as may be required in the Technical Specifications.
- 8.4 Line Tickets:
- 8.4.1 Vehicles (If Applicable):
- 8.4.1.1 Line sheets/line tickets from the manufacturer of the vehicle shall be provided for each vehicle and delivered along with other City-required documents and manuals. Each line sheet/line ticket shall list all components that make up the vehicle chassis and shall include the make, model, and serial number of each component. In addition, line sheets/line tickets shall be provided for all mounted bodies specified for cabs & chassis, and shall include but not be limited to manufacturer, serial number, size, and tare weight. All mounted equipment and components shall be listed by the manufacturer, serial number, weight restrictions (lifts, booms, hydraulic arms etc) and all other relevant data that identifies the component.

SECTION B - PART 1: GENERAL SPECIFICATIONS: (Continued)

8.0 Delivery / Inspection: (Continued)

8.4 Line Tickets: (Continued)

8.4.2 Other Equipment (If Applicable):

8.4.2.1 Line sheets/line tickets from the manufacturer of the equipment specified shall be provided for all equipment delivered along with other City-required documents and manuals. Each line sheet/line ticket shall list all components that make up the equipment and shall include the make, model, and serial number of each component.

8.5 Each unit shall be delivered clean and shall be complete with all equipment operable. Each unit shall be inspected by the City before tender of delivery to determine its compliance with the specifications and/or to test its ability to perform its intended use.

8.6 Upon acceptance and receipt of the vehicle/equipment unit by the City, Prime Contractor/Supplier shall obtain the signatures and employee numbers of the City's receiving employees on the City's Equipment Inspection/Receiver Report.

9.0 Liquidated Damages:

9.1 Under the terms of this Contract (Purchase Order), the Prime Contractor/Supplier certifies to complete delivery of any vehicle/equipment within the specified calendar days, listed in the Delivery Section of the Technical Specifications, counting from the date the City of Houston purchase order is received by the Prime Contractor/Supplier. Prime Contractor/Supplier agrees that time is of the essence in performance of this Contract. The Prime Contractor/Supplier and the City of Houston understand and agree that a breach of contract as to completion on time will cause damages to the City and that the actual damages from the harm would be difficult to estimate accurately.

Therefore, for each and every calendar day that the vehicle/equipment is not delivered and/or accepted by the City beginning sixty-one (61) calendar days after the expiration of the time limit set in the Contract, the Prime Contractor/Supplier shall be liable for and shall pay to the City the sum of **Fifty dollars (\$50.00)** per vehicle/equipment per calendar day, or portion thereof, as liquidated damages and not as a penalty. It is further agreed that the sum stipulated as liquidated damages is a reasonable estimate of the damage that will result from a failure of the Prime Contractor/Supplier to deliver the product/service in accordance with the Contract. The amount of the liquidated damages due may be deducted by the City from any payment or payments due to the Prime Contractor/Supplier, or if all payments otherwise due to the Prime Contractor/Supplier have been made, the amount of the liquidated damages shall be immediately due and payable upon demand.

9.2 Prime Contractor/Supplier will not be liable for delays in performing its obligations to the extent such delays are caused by unforeseeable conditions that are beyond the Prime Contractor/Supplier's reasonable control and directly interfere with performance, and are without Prime Contractor/Supplier's fault or negligence (force majeure). However, Prime Contractor/Supplier shall provide written notice to the City of the cause and extent of an **excusable delay** resulting from unforeseeable conditions. Upon cessation of the event causing the delay, Prime Contractor/Supplier shall provide written notice to the City of the actual delay incurred. Determination of force majeure shall rest solely with the City Purchasing Agent and the receiving department.

10.0 Conflict in Terms:

10.1 Should there be any conflict between the General Specifications and the Technical Specifications, the Technical Specifications shall prevail.

SECTION B - PART 1: GENERAL SPECIFICATIONS: (Continued)

11.0 Miscellaneous:

11.1 For purposes of this Contract (Purchase Order), the phrase "City Purchasing Agent" shall be deemed to include both the City Purchasing Agent, and his or her designated representative(s).

11.2 Prospective bidders may propose "equivalent equipment" as additional item(s) for City-approved equipment listings of acceptable equipment in this bid document. Prospective bidders must submit, in writing to the City Purchasing Agent, 1) a request for approval of proposed equipment, 2) Equipment Manufacturer's literature, and 3) a detailed comparison documenting that the equipment proposed is equivalent to existing equipment in the City-approved equipment listings. The approval request and all required documentation shall be in the Office of the City Purchasing Agent no later than 14 calendar days before the bids for this Contract are scheduled to be opened and publicly read. Requests for equipment approval not received by the time specified above will not be considered for this Contract. Determination as to whether the equipment proposed is equivalent to the items in the City-approved equipment listings shall rest solely with the City Purchasing Agent.

12.0 Prime Contractor/Supplier References (See Exhibit No. 1):

12.1 In order to receive bid award consideration, the bidder must be able to demonstrate that it has provided, as a prime contractor/supplier, products that are similar to those offered on the electronic bid form to governmental agencies or other entities within the last two years.

EXHIBIT NO. 1

PRIME CONTRACTOR/SUPPLIER REFERENCES

In order to receive bid award consideration, the bidder must be able to demonstrate that it has provided, as a prime contractor/supplier, products that are similar to those offered on the electronic bid form to governmental agencies or other entities within the last two years. The references should be listed in the space provided below. Please attach additional pages as necessary. If references are not included with the bid, the bidder shall be required to provide such references to the City of Houston within five working days from receipt of a written request from the City of Houston to do so. **Bidder's capability and experience shall be a factor in determining the Contractor's responsibility.** The City of Houston reserves the right to determine if such products are appropriately similar to those offered.

1. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

2. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

3. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

4. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

5. Entity Name: _____
Address: _____
City & State: _____
Name & Phone Number of Contact: _____

SECTION B
SPECIFICATIONS

PART II
TECHNICAL SPECIFICATIONS

ITEM NO. 1: CUT-AWAY CHASSIS MOUNTED WITH DELIVERY VAN BODY
PR NO. 10112218

1.0 GENERAL:

- 1.1 This truck will be used citywide by the Fire Department for deliveries of EMS and Station Supplies to City of Houston fire stations. The following are the minimum acceptable specifications:
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cut-away chassis mounted with the delivery van body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CUT-AWAY CHASSIS:

- 2.1 General:
 - 2.1.1 Ford E450 Cut-A-Way Chassis or City-approved equal.
 - 2.1.2 GVWR 14,050 lbs., minimum
 - 2.1.3 Wheel Base 158 inches, minimum
- 2.2 Engine:
 - 2.2.1 5.4 Liter, V-8 Gasoline
- 2.3 Transmission:
 - 2.3.1 Automatic 5 Speed with Overdrive
- 2.4 Cooling Systems:
 - 2.4.1 Heavy Duty Radiator
 - 2.4.2 Engine oil cooler
 - 2.4.3 Transmission oil cooler
- 2.5 Electric System:
 - 2.5.1 130 Amp Alternator and 600 CCA Battery
- 2.6 Suspension System:
 - 2.6.1 Maximum capacity Springs, front and rear
 - 2.6.2 OEM standard shock absorbers for GVWR
- 2.7 Brakes:
 - 2.7.1 Heavy-Duty Power 4-wheel Disc
- 2.8 Steering:
 - 2.8.1 Power Steering, OEM standard

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 1: CUT-AWAY CHASSIS MOUNTED WITH VAN BODY (Continued):

2.0 CUT-AWAY CHASSIS (Continued):

- 2.9 Black Steel Wheels, if available
- 2.10 Fuel Tank:
 - 2.10.1 OEM 40-gallon fuel tank for body type
- 2.11 Cab Equipment:
 - 2.11.1 OEM standard air conditioning, heating and defroster shall be provided with adjustable vents
 - 2.11.2 AM/FM radio with clock shall be provided
 - 2.11.3 Instrument Gauges shall include but not be limited to:
 - 2.11.3.1 Oil Pressure
 - 2.11.3.2 Temperature
 - 2.11.3.3 Fuel
 - 2.11.3.4 Amp
 - 2.11.3.5 Indicator lights are not acceptable
 - 2.11.4 Seats:
 - 2.11.4.1 Forward tilting high back bucket seat for driver
 - 2.11.4.2 Auxiliary folding-type jump seat for passenger side seat
 - 2.11.5 Tinted Glass:
 - 2.11.5.1 Factory Installed
 - 2.11.5.2 All side glass shall be manufacturer's darkest tint available
 - 2.11.6 Mirrors:
 - 2.11.6.1 Outside, left and right sides, camper type
 - 2.11.6.2 Below eye level
 - 2.11.6.3 Stainless steel
 - 2.11.7 Dual Intermittent Windshield Wipers and Dual Windshield Washers
 - 2.11.8 Miscellaneous Equipment:
 - 2.11.8.1 Cigarette Lighter if available
 - 2.11.8.2 Dual Sun Visors
 - 2.11.8.3 Directional Turn Signals, front and rear with separate 4-way Hazard Switch
 - 2.11.8.4 OEM Headliner
 - 2.11.8.5 Cab Dome Light

3.0 DELIVERY VAN BODY:

- 3.1 General:
 - 3.1.1 UtiliMaster Utilivan or City-approved equal
 - 3.1.2 Aluminum, 16 foot body with aluminum roof
 - 3.1.3 Full foam insulation for sides, front, and ceiling
 - 3.1.3 Aerocap with solid partition located between cab and body
 - 3.1.4 Partition shall have a full height sliding door (lockable), centered
 - 3.1.5 Bi-fold rear doors with Slam-lock hardware (bi-fold swing with glass 12 inch X 18 inch)
 - 3.1.6 Auxiliary air conditioning installed
- 3.2 Load Space (Approximate):
 - 3.2.1 Length - 190 inches
 - 3.2.2 Height - 84 inches
 - 3.2.3 Width - 90 inches
- 3.3 Construction:
 - 3.3.1 Aluminum tread plate floor over 1-1/8 inch plywood
 - 3.3.2 0.060 Kemlite over 3/8 inch plywood on sides, front, and ceiling
 - 3.3.3 Kazoo drains in front floor corner

SECTION B, PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 1: CUT-AWAY CHASSIS MOUNTED WITH VAN BODY (Continued):

3.0 DELIVERY VAN BODY (Continued):

3.3 Construction (Continued):

- 3.3.4 10 inch grip strut rear bumper
- 3.3.5 Rear grab handles left and right
- 3.3.6 All body plate parts shall be Cadmium or zinc plated to prevent rusting (includes interior partition sliding door hardware)

3.4 Fluorescent Lights (Interior):

- 3.4.1 Two interior 12V fluorescent light fixtures (two 18-inch fluorescent lamp fixture) evenly spaced horizontally down center of cargo area
- 3.4.2 Three-way light switches located in driver's area and at the curb side of van body's rear door
- 3.4.3 Indicator status light located in cab that reveals on/off status of lights in the van body

3.5 Lights (Exterior):

- 3.5.1 OEM standard stop, tail, turn signal and backup lights are to be recessed-mounted in kick plate above rear bumper area
- 3.5.2 License plate light to be centered at top of kick plate

4.0 SAFETY EQUIPMENT:

- 4.1 All safety equipment required for this type of vehicle shall be in accordance with OSHA, Federal Government and Texas State laws
- 4.2 Truck shall include Mud Flaps, Safety Inspection Sticker, Electric Backup Alarm and any other required safety equipment
- 4.3 OEM standard weather equipment and accessories
- 4.4 SAE, DOT, and OEM standard Reflectors

5.0 MISCELLANEOUS:

- 5.1 Cut-Away Chassis and Body exterior color shall be OEM white
- 5.2 Front and Rear Bumpers shall be OEM black
- 5.3 Rust Proofing (Where applicable):
 - 5.3.1 Ziebart or City-approved equal, including cab and undercarriage fully undercoated

6.0 WARRANTY:

- 6.1 Cut-A-Way Chassis:
 - 6.1.1 Manufacturer's 36-month/36,000 mile bumper-to-bumper warranty shall be provide
 - 6.1.2 Manufacturer's standard warranty shall be provided for emission controls, power train, and corrosion
- 6.2 Delivery Van Body:
 - 6.2.1 Body shall have Manufacturer's standard one year warranty, parts and workmanship
- 6.3 The warranty period shall commence the date the City officially accepts the truck. Warranty work shall be completed without cost to the City within ten (10) calendar days after notification to prime contractor/supplier of the equipment failure or faulty material.

7.0 LITERATURE:

- 7.1 Three (3) sets of parts, service, operator, installation and maintenance manual(s) will be provided at time of delivery.

8.0 DELIVERY:

- 8.1 The unit(s) specified above, with delivery tickets, and/or other required documents shall be delivered Prepaid F.O.B. Destination to the City of Houston within one hundred and eighty (180) calendar days after receipt of the City of Houston purchase order.

SECTION B, PART II TECHNICAL SPECIFICATIONS (CONTINUED)

ITEM NO. 2: CAB & CHASSIS MOUNTED WITH A DRY FREIGHT VAN BODY
PR No. 10109560

1.0 GENERAL:

- 1.1 The dry freight van body described in this specification shall be provided and installed on a cab & chassis mounted with a dry freight van body for the Houston Airport System. The unit furnished to this specification shall meet or exceed all requirements.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with the dry freight van body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CAB & CHASSIS:

- 2.1 General:
 - 2.1.1 Reference Ford F-550 or City approved equal
 - 2.1.2 GVWR – 17,500- lbs
 - 2.1.3 Nominal Cab to Axle Dimension: 120 inch CA
 - 2.1.4 Gasoline
 - 2.1.5 Power Brakes/Steering
 - 2.1.6 Minimum 25-gallon capacity fuel tank(s)
 - 2.1.7 Air Conditioning
 - 2.1.8 Automatic Transmission
 - 2.1.9 High-Capacity, External Auxiliary Transmission Oil Cooler
 - 2.1.10 AM/FM Radio
 - 2.1.11 Engine Hour Meter, Accurate with Engine Running, Dash Mounted
 - 2.1.12 O.E.M. Standard Solid Color -White

3.0 BODY: Reference: Supreme Van Body or City approved equal

- 3.1 Dimensions:
 - 3.1.1 16 ft over all length
 - 3.1.2 96 inches wide
 - 3.1.3 85 inches inside height
- 3.2 Bulkhead:
 - 3.2.1 Commercial grade plywood
- 3.3 Floor:
 - 3.3.1 Industry standard, smooth, sealed, tongue and groove, hardwood with weatherproof under-pan.
- 3.4 Sides and Front:
 - 3.4.1 Floor up 4 ft shall be covered by commercial grade plywood
 - 3.4.2 24" high scuff plate of 11 Ga. smooth plates steel on interior sides and front.
 - 3.4.3 One row of "E" track along both walls and front at the 4-foot level.
 - 3.4.4 1"x4" hardwood slats equally spaced from top of plywood to ceiling on interior sides
- 3.5 Lighting:
 - 3.5.1 Two commercial grade interior dome lights spaced equal-distanced along centerline of roof

SECTION B, PART II TECHNICAL SPECIFICATIONS (CONTIUED)

ITEM NO. 2: CAB & CHASSIS MOUNTED WITH A DRY FREIGHT VAN BODY

3.0 BODY: (Continued)

- 3.6 Rear Door:
 - 3.6.1 Standard commercial grade, balanced, rollup type with pulls, and lockable safety latch.
- 3.7 Under Structure:
 - 3.7.1 Commercial duty cross-members on 12-inch centers
 - 3.7.2 Commercial duty steel stringers
- 3.8 Exterior:
 - 3.8.1 Commercial duty smooth metal skin front, sides, and top with reinforcing overlays along full length of box edges and ends
 - 3.8.2 Reinforced bottom plate
 - 3.8.3 Personnel grab bars installed on left and right rear corners of box
 - 3.8.4 DOT standard clearance and running lights
 - 3.8.5 Overall color shall be white
- 3.9 Lift Gate:
 - 3.9.1 Heavy-duty, 1500-lb. capacity fold-away lift-gate with ramp and heavy-duty step type dock bumpers

4.0 INSTALLATION:

- 4.1 The van body as specified shall be installed in accordance with manufacturers' recommendations for the specified cab & chassis.

5.0 STATE SAFETY INSPECTION:

- 5.1 The unit shall be inspected in accordance with Federal Motor Vehicle Laws by a certified inspection station and shall have the inspection certificate with the unit at time of delivery. It is the vendor's responsibility to have this inspection made.

6.0 WARRANTY:

- 6.1 Cab & Chassis:
 - 6.1.1 The unit shall be warranted against all defects in material and workmanship for a period of not less than 12 months of use, and shall cover 100 percent of parts and labor for the unit. If the manufacturer's standard warranty period exceeds 12 months or 1,200 hours, then the standard warranty period shall be in effect.
- 6.2 Body:
 - 6.2.1 3-year/36,000-mile warranty to cover repairs and replacement in the event a part is found to be defective. Additional 5-year warranties covering the roof, wall and floor structures let you rest assured that your Signature Van Body is built to last, from top to bottom
- 6.3 Provisions shall be made by the vendor to provide a delayed warranty start date for each unit furnished to this specification. Warranty start date shall be effective the day the completed unit is placed into service.
- 6.4 Warranty work must be completed without cost to the city within ten days after notification to vendor of equipment failure or faulty material. When extended warranties are available as standard, they must be included as a part of the bid for the benefit of the City. Any and all documents necessary to effect warranty must be properly applied for and submitted by the successful vendor. All freight charges to and from the vendor's repair facility for warranty repair and/or maintenance must be borne by seller during the warranty period.

SECTION B, PART II TECHNICAL SPECIFICATIONS (CONTINUED)

7.0 ASSEMBLY:

7.1 Unit shall be delivered completely assembled, properly lubricated, fueled, and ready for use.

8.0 LITERATURE:

8.1 Two (2) Complete sets of parts, service, and operator's instruction manuals shall be delivered with the unit(s). DVD's or CD's are acceptable.

9.0 TRAINING:

9.1 All mechanical equipment purchased by the Houston Airport System (HAS) shall include operator training. Bids that do not offer training will be declared non-responsive.

9.2 The training shall be performance based to ensure that the participants will be able to safely and successfully operate the equipment. The successful bidder shall be responsible for the content of the training.

9.3 The successful bidder shall provide two (2) separate training sessions of HAS personnel on specified equipment and it will be completed within 30 days of delivery and acceptance at no additional cost to the City. HAS may, at its discretion extend the time up to 90 Days. Each training session should last from 30 to 120 minutes. Training may contain various media but should always include hands on sessions. Training of HAS personnel may be videotaped. Attendance and evaluation sheets will be kept by the Houston Airport System.

9.4 Training will occur after the equipment has been delivered to HAS. HAS will advise the successful bidder when and where the training will take place. HAS employees are not allowed to operate the equipment until the training takes place.

10.0 DELIVERY:

10.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY
PR No. 10109673

1.0 GENERAL:

- 1.1 This specification describes a business class medium duty, cab and chassis with a mounted a dump body for the Houston Airport System. The unit incorporates interior and exterior grab handles.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with a dump body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CAB & CHASSIS:

- 2.1. General:
 - 2.1.1 Reference: Freightliner M2-106, or City approved equal
 - 2.1.2 GVWR – 52,000- lbs.
- 2.2 Engine and Equipment:
 - 2.2.1 270 HP @ 2000 RPM; 2200 GOV, 800 LB/FT @ 1300 RPM
 - 2.2.2 Engine mounted oil check and fill
 - 2.2.3 One piece valve cover
 - 2.2.4 Side of hood air intake with firewall mounted air cleaner
 - 2.2.5 DR 12v 160 amp 28-si quadramount pad alternator with remote battery volt sense
 - 2.2.6 (2) 12 volt maintenance free 1850 CCA threaded stud batteries
 - 2.2.7 Battery box frame mounted
 - 2.2.8 Single battery box frame mounted LH side back of cab
 - 2.2.9 Wire ground return for battery cables with additional frame ground return
 - 2.2.10 Non-polished battery box cover
 - 2.2.11 18.7 CFM compressor with internal safety valve
 - 2.2.12 Air compressor discharge line
 - 2.2.13 Electronic engine integral shutdown protection system
 - 2.2.14 RH outboard under step mounted horizontal after treatment system assembly with RH B-pillar mounted vertical tailpipe
 - 2.2.15 Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch
 - 2.2.16 11 foot 06 inch (138 inch+0/-5 inch) exhaust system height
 - 2.2.17 RH curved vertical tailpipe B-pillar mounted routed from step
 - 2.2.18 6 gallon diesel exhaust fluid tank
 - 2.2.19 Aluminum after treatment device/muffler/tailpipe shield(s)
 - 2.2.20 Horton Drivemaster on/off fan drive, or City approved equal
 - 2.2.21 Automatic fan control without dash switch, non engine mounted
 - 2.2.22 Spin on fuel filter
 - 2.2.23 Combination full flow/bypass oil filter
 - 2.2.24 1100 square inch aluminum radiator
 - 2.2.25 Antifreeze to -34f, ethylene glycol pre-charged SCA heavy duty coolant
 - 2.2.26 Gates blue stripe coolant hoses or equivalent or City approved equal
 - 2.2.27 Constant tension hose clamps for coolant hoses
 - 2.2.28 Radiator drain valve
 - 2.2.29 Lower radiator guard

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.2.30 Aluminum flywheel housing
- 2.2.31 Electric grid air intake warmer
- 2.2.32 Delco 12v 38mt HD starter with integrated magnetic switch

- 2.3 Transmission:
 - 2.3.1 Automatic transmission with PTO provision. Product reference: Allison 3500 RDS, or City approved equal.
 - 2.3.2 WTEC calibration – 6-speed RDS/TR or City approved equal
 - 2.3.3 Vehicle interface wiring with body builder connector mounted back of cab
 - 2.3.4 Electronic transmission customer access connector mounted back of cab
 - 2.3.5 Chelsea 277 Series customer installed PTO or City approved equal
 - 2.3.6 PTO Mounting, RH side of main transmission
 - 2.3.7 Magnetic plugs, engine drain, transmission drain, axle(s) fill and drain push button electronic shift control, dash mounted
 - 2.3.8 Transmission prognostics – disabled (n/a)
 - 2.3.9 Water to oil transmission cooler, in radiator end tank
 - 2.3.10 Transmission oil check and fill with electronic oil level check
 - 2.3.11 Synthetic transmission fluid or City approved equal

- 2.4 Cab Interior:
 - 2.4.1 Gray vinyl interior
 - 2.4.2 Molded plastic door panel
 - 2.4.3 Molded plastic door panel
 - 2.4.4 Gray vinyl mats with insulation
 - 2.4.5 No dash mounted ash trays and lighter
 - 2.4.6 Forward roof mounted console with upper storage compartments without netting
 - 2.4.7 In dash storage bin
 - 2.4.8 (2) cup holders LH and RH dash
 - 2.4.9 Gray/charcoal flat dash
 - 2.4.10 Heater, defroster and air conditioner
 - 2.4.11 Standard HVAC ducting
 - 2.4.12 Main HVAC controls with recirculation switch
 - 2.4.13 Standard heater plumbing
 - 2.4.14 Sanden heavy duty air conditioner compressor
 - 2.4.15 Binary control, R-134a
 - 2.4.16 Cab insulation
 - 2.4.17 Solid-state circuit protection and fuses
 - 2.4.18 12-V negative ground electrical system
 - 2.4.19 Dome light with 3-way switch activated by LH and RH doors
 - 2.4.20 Cab door latches with manual door locks
 - 2.4.21 High back air suspension driver seat
 - 2.4.22 High back non suspension passenger seat
 - 2.4.23 LH and RH integral door panel armrests
 - 2.4.24 Vinyl with vinyl insert driver seat
 - 2.4.25 Vinyl with vinyl insert passenger seat
 - 2.4.26 3 point fixed d-ring retractor driver and passenger seat belts
 - 2.4.27 Fixed steering column
 - 2.4.28 4-spoke 18 inch (450mm) steering wheel
 - 2.4.29 Driver and passenger interior sun visors
 - 2.4.30 Low profile dash

- 2.5 Cab Exterior:
 - 2.5.1 OEM 106 inch flat roof conventional cab
 - 2.5.2 Air cab mounts
 - 2.5.3 No fender extension
 - 2.5.4 Hood mounted air intake grille
 - 2.5.5 Fiberglass sloped hood

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.5.6 Dual 24 inch round air horns roof mounted
- 2.5.7 Single electric horn
- 2.5.8 Dual horn shields
- 2.5.9 Door locks and ignition switch keyed the same
- 2.5.10 Rear license plate mount end of frame
- 2.5.11 Integral headlight/marker assembly
- 2.5.12 (5) amber marker lights
- 2.5.13 Integral stop/tail/backup lights
- 2.5.14 Standard front turn signal lamps
- 2.5.15 Dual west coast molded-in color mirrors
- 2.5.16 Door mounted mirrors
- 2.5.17 LH and RH 8" molded-in color convex mirrors mounted under primary mirrors
- 2.5.18 Standard side/rear reflectors
- 2.5.19 cab mounted steps
- 2.5.20 63x14 inch tinted rear window
- 2.5.21 Tinted door glass LH and RH with tinted non-operating wing windows
- 2.5.22 Manual door window regulators
- 2.5.23 Tinted windshield
- 2.5.24 2 gallon windshield washer reservoir without fluid level indicator, frame mounted

- 2.6 Front Axle and Equipment:
 - 2.6.1 AF-12.0-3 12,000# FF1 71.5 KPI/3.74 Drop single front axle
 - 2.6.2 Meritor 16.5X5 Q+ Cast Spider Cam front brakes, double anchor, fabricated shoes or City approved equal
 - 2.6.3 Non-asbestos front brake lining
 - 2.6.4 Conmet cast iron front brake drums or City approved equal
 - 2.6.5 Chicago Rawhide Scotseal Plus XL Front Oil Seals or City approved equal
 - 2.6.6 Vented front hub caps - Oil
 - 2.6.7 Standard spindle nuts for all axles
 - 2.6.8 Meritor Automatic Front Slack Adjusters
 - 2.6.9 TRW THP-60 Power Steering
 - 2.6.10 Power Steering Pump
 - 2.6.11 See Through Power Steering Reservoir
 - 2.6.12 Organic SAE 80/90 Front Axle Lube
 - 2.6.13 Set back front axle

- 2.7 Front Suspension:
 - 2.7.1 12,000# Taper leaf Front Suspension
 - 2.7.2 Maintenance Free Rubber Bushings - Front Suspension
 - 2.7.3 Front Shock Absorbers

- 2.8 Rear Axle and Equipment:
 - 2.8.1 RT-40-145 40,000# R-SERIES Tandem Rear Axle
 - 2.8.2 6.14 Rear Axle Ratio
 - 2.8.3 Iron rear axle carrier with optional heavy duty axle housing
 - 2.8.4 17T Meritor ext lube main driveline with half round yokes, or City approved equal
 - 2.8.5 17T Meritor extended lube interaxle driveline with half round yokes, or City approved equal
 - 2.8.6 (1) Interaxle lock valve for tandem or tridem drive axles
 - 2.8.7 Blinking lamp with each mode switch, interaxle unlock default with ignition off
 - 2.8.8 Meritor 16.5x7 q+ cast spider cam rear brakes, double anchor, fabricated shoes or City approved equal
 - 2.8.9 Non-asbestos rear brake lining
 - 2.8.10 Brake cams and chambers on forward side of drive axle(s)
 - 2.8.11 Conmet cast iron rear brake drums or City approved equal

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.8.12 Chicago Rawhide Scotseal Plus XL rear oil seals or City approved equal
- 2.8.13 Haldex Goldseal Longstroke 2-drive axles spring parking chambers or City approved equal
- 2.8.14 Gunitite automatic rear slack adjusters or City approved equal
- 2.8.15 Organic SAE 80/90 rear axle lube or City approved equal

- 2.9 Rear Suspension:
 - 2.9.1 TufTrac 40,000# rear spring suspension or City approved equal
 - 2.9.2 TufTrac standard ride height or City approved equal
 - 2.9.3 Axle clamping group
 - 2.9.4 54 Inch axle spacing
 - 2.9.5 Fore/aft and transverse control rods
 - 2.9.6 Rear shock absorbers - one axle

- 2.10 Brake System:
 - 2.10.1 Air brake package
 - 2.10.2 ABS without traction control
 - 2.10.3 Reinforced nylon, fabric braid and wire braid chassis air lines
 - 2.10.4 Fiber braid parking brake hose
 - 2.10.5 Standard brake system valves
 - 2.10.6 Relay valve with 5-8 psi crack pressure, no rear proportioning valve
 - 2.10.7 BW AD-9 Brake line air dryer with heater
 - 2.10.8 Air dryer frame mounted
 - 2.10.9 Steel air brake reservoirs
 - 2.10.10 Standard air system pressure protection system
 - 2.10.11 Pull cable on wet tank, petcock drain valves on all other air tanks

- 2.11 Electronic Parameters:
 - 2.11.1 62 MPH road speed limit
 - 2.11.2 Cruise Control speed limit same as road speed limit
 - 2.11.3 PTO Mode engine RPM limit - 1100 rpm
 - 2.11.4 PTO RPM with cruise set switch - 800 RPM
 - 2.11.5 PTO RPM with cruise resume switch - 700 RPM PTO MINIMUM RPM - 700
 - 2.11.6 Regen inhibit speed threshold - 5 MPH

- 2.12 Trailer Connections:
 - 2.12.1 Chassis multiplexing unit
 - 2.12.2 Bulkhead multiplexing unit

- 2.13 Wheelbase & Frame:
 - 2.13.1 188 inch wheelbase
 - 2.13.2 11/32x3-1/2x10-15/16 inch steel frame 120KSI
 - 2.13.3 1/4 inch (6mm) C-channel inner frame reinforcement
 - 2.13.4 63 inch rear frame overhang
 - 2.13.5 Frame overhang range: 61 inch to 70 inch
 - 2.13.6 Square end of frame
 - 2.13.7 Front closing crossmember
 - 2.13.8 Standard weight engine crossmember
 - 2.13.9 Standard midship #1 crossmember(s)
 - 2.13.10 Standard rearmost crossmember
 - 2.13.11 Heavy duty suspension crossmember
 - 2.13.12 Up to a 55-degree wheel cut

- 2.14 Chassis Equipment:
 - 2.14.1 Three-piece 14 inch steel center bumper with flexible plastic ends
 - 2.14.2 Front tow hooks - frame mounted
 - 2.14.3 Bumper mounting for single license plate

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.14.4 No mud flap brackets
- 2.14.5 No rear mud flaps
- 2.14.6 GRADE 8 threaded hex headed frame fasteners
- 2.14.7 Swept-back bumper

- 2.15 Fuel Tanks:
 - 2.15.1 50 GALLON fuel tank - LH
 - 2.15.2 Plain aluminum/painted steel fuel/hydraulic tank(s) with painted band
 - 2.15.3 Fuel tank(s) forward
 - 2.15.4 Plain step finish
 - 2.15.5 No fuel tank screens
 - 2.15.6 Fuel tank cap(s)
 - 2.15.7 Alliance fuel filter/water separator
 - 2.15.8 Equiflo inboard fuel system or City approved equal
 - 2.15.9 High temperature reinforced nylon fuel line

- 2.16 Tires:
 - 2.16.1 HSL2 11R22.5 14 Ply radial front tires
 - 2.16.2 G338 11R22.5 14 Ply radial rear tires

- 2.17 Hubs:
 - 2.17.1 Set bearing iron front hubs
 - 2.17.2 Pre-set bearing iron rear hubs

- 2.18 Wheels:
 - 2.18.1 22.5X8.25 10-Hub pilot 2-hand HD steel disc front wheels
 - 2.18.2 22.5X8.25 10-Hub pilot 2-hand HD steel disc rear wheels

- 2.19 Instruments & Controls:
 - 2.19.1 Black gauge bezels
 - 2.19.2 Driver instrument panel
 - 2.19.3 Center instrument panel
 - 2.19.4 Low air pressure light and buzzer
 - 2.19.5 2 inch Primary and secondary air pressure gauges
 - 2.19.6 Intake mounted air restriction indicator without graduations
 - 2.19.7 97 DB Backup alarm
 - 2.19.8 Electronic Cruise Control with switches in LH switch panel
 - 2.19.9 Key operated ignition switch and integral start position; 4 position off/run/start/accessory
 - 2.19.10 Odometer/trip/hour/diagnostic/voltage display: 1x7 character, warning lamps, data linked, ICU3
 - 2.19.11 Diagnostic interface connector, 9 pin, SAEJ1939, located below dash
 - 2.19.12 2 inch electric fuel gauge
 - 2.19.13 Programmable RPM Control - Electronic Engine
 - 2.19.14 Electrical engine coolant temperature gauge
 - 2.19.15 Transmission oil temperature indicator light
 - 2.19.16 Engine and trip hour meters integral within driver display
 - 2.19.17 Furnished and installed PTO controls
 - 2.19.18 Electric engine oil pressure gauge
 - 2.19.19 AM/FM/WB Radio
 - 2.19.20 Dash mounted radio
 - 2.19.21 (2) Radio speakers in cab
 - 2.19.22 AM/FM Antenna mounted on forward LH roof
 - 2.19.23 Electronic MPH Speedometer with secondary KPH scale, without odometer
 - 2.19.24 Electronic 3000 RPM Tachometer
 - 2.19.25 Ignition switch controlled engine stop

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.19.26 No trailer hand control brake valve
- 2.19.27 Digital voltage display integral with driver display
- 2.19.28 Single electric windshield wiper motor with delay
- 2.19.29 Marker light switch integral with headlight switch
- 2.19.30 One valve parking brake system with warning indicator
- 2.19.31 Self canceling turn signal switch with dimmer, washer/wiper and hazard in handle
- 2.19.32 Integral electronic turn signal flasher with hazard lamps overriding stop lamps

2.20 Color:

- 2.20.1 Cab color, WHITE
- 2.20.2 Black, High Solids polyurethane chassis paint
- 2.20.3 Vendor white front wheels/rims
- 2.20.4 Vendor white rear wheels/rims
- 2.20.5 Bumper paint: FP24812 Argent Silver Dupont flex

3.0 DUMP BODY:

3.1 General:

- 3.1.1 Dump Body Reference: Davis FMT 12-14 Cubic Yard Dump Body, or City- approved equal
- 3.1.2 14' Dump body
- 3.1.3 1/2 Cab protector
- 3.1.4 Inside dimensions:
 - 3.1.4.1 Sides - 38"
 - 3.1.4.2 Ends - 46"
 - 3.1.4.3 Width - 89"
- 3.1.5 Davis tower controls
- 3.1.6 Asphalt apron
- 3.1.7 Air operated tailgate
- 3.1.8 "Hot" shift PTO for Allison 3000
 - 3.1.8.1 Series automatic/cable to the pump: Length - 14'
- 3.1.9 10" Wood board installed and painted

3.2 Tarp System:

- 3.2.1 Heavy duty electric tarp system with steel arms, wind deflector, in-cab controls and mesh tarp material vertical and horizontal side braces U.S. Tarp 11525 or City approved equal

3.3 Dump body equipped with:

- 3.3.1 Davis 63-120: Three stage front mount or City approved equal
- 3.3.2 Telescopic hoist with 37 tons lift capacity (NTEA CLASS 110)

3.4 Construction:

- 3.4.1 50,000 PSI minimum yield strength hi-tensile steel

3.5 Understructure:

- 3.5.1 3" 4.1# Channel crossmembers on 12" centers
- 3.5.2 8" 11.5# Channel long sills
- 3.5.3 ¼ inch heavy duty gussets on front and rear
- 3.5.4 3/16 inch medium duty gussets on every other interior crossmember

3.6 Floor:

- 3.6.1 3/16 inch (50,000 PSI minimum yield strength) plate with 45 degree slope inside corner where floor meets wall

3.7 Sides:

- 3.7.1 10 Gauge (50,000 PSI yield strength) sheet steel box type braces
- 3.7.2 Large box type rear post
- 3.7.3 Top rail constructed of heavy duty 3" square tubing

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 3: CAB & CHASSIS MOUNTED WITH A DUMP BODY (Continued):

3.0 BODY (Continued):

3.8 Tailgate:

- 3.8.1 10 Gauge (50,000 PSI minimum yield strength) sheet steel with 3" square tubing boxing entire tailgate assembly
- 3.8.2 Box type vertical braces
- 3.8.3 Dirt shedding sloped cross bracing
- 3.8.4 Flame cut heavy duty hinges and latch assembly double acting design
- 3.8.5 318" proof coil spreader chain apparatus

3.9 Front Panel:

- 3.9.1 10 Gauge (50,000 PSI Minimum yield strength) sheet steel with front cross brace angle

3.10 Doghouse Construction:

- 3.10.1 10 Gauge (50,000 PSI minimum yield strength) 24.16.2 fully welded 1/4" cap for upper pin seat
- 3.10.2 Access plate of top for greasing pin

3.11 Lights:

- 3.11.1 Conform to FMVSS108
- 3.11.2 All clearance lights and reflectors provided

3.12 Backup Alarm:

- 3.12.1 12 Volt DC 97 DB 70 beeps per minute wired into back up lights

3.13 Miscellaneous:

- 3.13.1 Direct mount hydraulic pump, "ROT" shift PTO for Allison 3000 Series automatic transmission, mud flaps, D.O.T. lighting for the dump body, OSHA safety body prop, backup alarm and one color paint to match the truck.

4.0 ASSEMBLY:

- 4.1 Unit shall be delivered completely assembled, properly lubricated, fueled, and ready for use.

5.0 LITERATURE:

- 5.1 (2) complete sets of parts, service, and operator's instruction manuals shall be delivered with the unit(s).

6.0 TRAINING:

- 6.1 All mechanical equipment purchased by the Houston Airport System (HAS) shall include operator training. Bids that do not offer training will be declared non-responsive.
- 6.2 The training shall be performance based to ensure that the participants will be able to safely and successfully operate the equipment. The successful bidder shall be responsible for the content of the training.
- 6.3 The successful bidder shall provide two (2) separate training sessions of HAS personnel on specified equipment and it will be completed within 30 days of delivery and acceptance at no additional cost to the City. HAS may, at its discretion extend the time up to 90 Days. Each training session should last from 30 to 120 minutes. Training may contain various media but should always include hands on sessions. Training of HAS personnel may be videotaped. Attendance and evaluation sheets will be kept by the Houston Airport System.
- 6.4 Training will occur after the equipment has been delivered to HAS. HAS will advise the successful bidder when and where the training will take place. HAS employees are not allowed to operate the equipment until the training takes place.

7.0 DELIVERY:

- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.

SECTION B, PART II TECHNICAL SPECIFICATIONS (CONTIUED)

ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY
PR No. 10110389

1.0 GENERAL:

- 1.1 These specifications are intended to describe a complete box van that will be used by the Public Works & Engineering Department Utility Customer Service Division.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab &-chassis mounted with a box van body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CAB & CHASSIS:

- 2.1 General:
 - 2.1.1 Utilimaster Aeromaster or City-approved equal
- 2.2 Axles/Suspension:
 - 2.2.1 Front axle 8,000 lb. I-Beam
 - 2.2.1.1 Suspension 9,000 lb. capacity taper leaf with shock absorber
 - 2.2.1.2 Rear Axle 15,500 lb. single reduction gear ratio: 5.13
 - 2.2.1.3 S Rear suspension 15,500 lb. capacity (17,000 Maximum Capacity)
 - 2.2.1.4 Spring vari-rate
- 2.3 Diesel Engine:
 - 2.3.1 The lowest emission or City approved equal
 - 2.3.1.1 175 hp at 2300/2600 RPM
 - 2.3.1.2 430 lb. ft. Torque
 - 2.3.2 Fuel Tank
 - 2.3.2.1 65 gallons RH mount
 - 2.3.3 OEM Standard Exhaust System
 - 2.3.4 Hour Meter
- 2.4 Transmission, Automatic:
 - 2.4.1 Four speed - Allison 2000 or City approved equal
 - 2.4.2 Transmission cooler
- 2.5 Wheels:
 - 2.5.1 Front Disc, 19.5" 8-stud 6.75 DC Rims; steel
 - 2.5.2 Rear Dual Disc, 19.5" 8-stud 6.75 DS Rims; steel
- 2.6 Tires:
 - 2.6.1 Front two (2) 245/70R 19.5 12 ply G109GY
 - 2.6.2 Rear four (4) 245/70R 19.5 12 ply G124GY
- 2.7 Brakes, Hydraulic:
 - 2.7.1 Split system
 - 2.7.2 Automatic adjustment
 - 2.7.3 Four channel ABS, Disc
 - 2.7.4 Parking DCM type

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.8 Electrical:
 - 2.8.1 Battery 12 volt 950 CCA maintenance free
 - 2.8.2 Alternator 12 Volt 100 amp
 - 2.8.3 Uninterrupted Power Switch
- 2.9 Cab Equipment:
 - 2.9.1 Gauges – Manufacturers Standard
 - 2.9.2 Air Conditioning – Manufacturer’s Standard
- 2.10 Frame and Bumper:
 - 2.10.1 Frame 80,000 PSI for 176 inch WB
 - 2.10.2 Bumper, front; full width

3.0 BODY:

- 3.1 General
 - 3.1.1 Utilimaster mounted on Navistar 1652 Chassis or City-approved equal
 - 3.1.2 Aluminum Aeromaster body length; eighteen (18) feet or City-approved equal
- 3.2 Body Size, Interior:
 - 3.2.1 Width 93.5 inches
 - 3.2.2 Height 85 inches
- 3.3 Floor Structure:
 - 3.3.1 Aluminum self-sealing extrusion
 - 3.3.2 Continuous floor planking
 - 3.3.3 Treadplate (safety) in cab and stepwells
 - 3.3.4 Body to be undercoated
- 3.4 Bumper, Rear-Step:
 - 3.4.1 Eight (8) inch wide treadplate
 - 3.4.2 Kick plate
 - 3.4.3 Recessed center license plate bracket
 - 3.4.4 Access Step Rear bumper 24” Wide single flip step with latch to lock in open /close
- 3.5 Rear structure:
 - 3.5.1 Extrusion with increased section modules
 - 3.5.2 Two (2) solid swing doors (each) twenty nine (29) inches wide
 - 3.5.3 Standard LH door release
 - 3.5.4 Slamlock hardware or City approved equal
 - 3.5.4.1 Non-push to lock
 - 3.5.4.2 Keyed to cab door in open position
- 3.6 Walls, side and rear:
 - 3.6.1 Twenty four (24) inch stud spacing
 - 3.6.2 Exterior covering with .125 inch hardened aluminum skin
 - 3.6.3 Fiberglass insulation
 - 3.6.4 Standard exterior rubrails
- 3.7 Bulkhead:
 - 3.7.1 Center opening
 - 3.7.1.1 Aluminum door
 - 3.7.1.1.1 Bulkhead mounted
- 3.8 Roof:
 - 3.8.1 Eight (8) inch stud spacing
 - 3.8.2 One (1) piece aluminum roof
 - 3.8.3 (.032) inch self-sealing extrusion

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY (Continued):

3.0 STEP VAN BODY (Continued):

- 3.8.4 Fiberglass insulation
- 3.8.5 Ceiling:
 - 3.8.5.1 Textured aluminum (.024) lined
- 3.9 Doors:
 - 3.9.1 Sliding doors left and right sides
 - 3.9.2 Kason lock selections or City approved equal
 - 3.9.3 Non-push to lock
 - 3.9.4 Keyed to rear door
 - 3.9.5 Left and right entry to have intermediate steps
 - 3.9.6 Equipped with weather tight seals around the entire frame
 - 3.9.7 Double sealed along the rear edge
 - 3.9.8 Sliding windows with drip rails above both doors
- 3.10 Operators compartment:
 - 3.10.1 Driver's & Passenger seat:
 - 3.10.1.1 High-back
 - 3.10.1.2 Tilt pedestal
 - 3.10.2 3-point seat belt
 - 3.10.3 Sound reduction fire wall
 - 3.10.4 Intermittent wiper motor
 - 3.10.5 Air conditioner/heater
 - 3.10.6 Cab dome light
- 3.11 Exterior:
 - 3.11.1 Bonded front driver / passenger windshield glass
 - 3.11.2 Exterior mirrors: Dual, left and right
 - 3.11.3 Tinted windshield
 - 3.11.4 Full front lift-up hood
 - 3.11.5 All lights per DOT regulation
 - 3.11.6 Mud flaps
 - 3.11.7 Paint color white
- 3.12 Lighting:
 - 3.12.1 Dedicated electrical wiring channel - built into interior of body roof
 - 3.12.2 Cargo dome light with a rear mounted light switch
 - 3.12.3 Four (4) twin bulb fluorescent fixtures 18" to 24" 120 volt with switch conveniently mounted in front and rear of vehicle.
 - 3.12.3.1 Two (2) mounted over work bench
 - 3.12.3.2 Two (2) general lighting)
 - 3.12.3.3 Directional Light- Traffic Advisor Equipment, TA Model- TA837A 44"8 Halogen Lamb with control head or City approved equal
- 3.13 Roof Mounted A/C:
 - 3.13.1 Roof mounted low profile A/C rotary air (cargo area)
 - 3.13.2 13,500 BTU with 5,600 BTU heat strip to be powered by the generator

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY (Continued):

3.0 STEP VAN BODY (Continued):

- 3.14 Generator:
 - 3.14.1 Onan Quiet Diesel 7.5 HD KW with remote start and gauge panel mounted inside the vehicle or City approved equal
 - 3.14.2 Generator to be mounted on a slide out service rack for easy access from the outside of the vehicle.
 - 3.14.2.1 Water cooled diesel
 - 3.14.2.2 62.5 amp 120V
 - 3.14.2.3 31.25 amp at 240V
 - 3.14.2.4 EPA approved
 - 3.14.3 Fuel supplied by main fuel tank
 - 3.14.4 Compartment mounted (lockable)
 - 3.14.5 Separate battery
 - 3.14.6 Start - stop switch
 - 3.14.7 Temp pressure shutdown system
- 3.15 Compressor:
 - 3.15.1 Floor mounted, electric, to be enclosed in a removable sound box with outside access via a lift up panel.
 - 3.15.2 2.5 Horse Power
 - 3.15.3 25 Gallon Air Tank
 - 3.15.4 4.9 SCFM @ 40 PSI
 - 3.15.5 3.5 SCFM @ 90 PSI
 - 3.15.6 150 Maximum PSI
 - 3.15.7 Electric wall socket to be provided inside mounting area to accept plug from air compressor
 - 3.15.8 Quick release outlet mounted at workbench
 - 3.15.9 Quick release outlet mounted at compressor vent to outside
- 3.16 Gauges:
 - 3.16.1 Oil pressure
 - 3.16.2 Water
 - 3.16.3 Temperature
 - 3.16.4 Battery
 - 3.16.5 Voltage
 - 3.16.6 Hour meter
- 3.17 Wiring:
 - 3.17.1 120 VAC breaker system for A/C, Lighting, Generator, Air Compressor and twin duplex service plug-in (4x4 box, location to be determined)
- 3.18 Work Bench and Shelving:
 - 3.18.1 Passenger Side Bench- Approx. 5' L x 3' H to the rear of air compressor cover and over the Generator cover Top must be made of solid surface Avonite in light gray. See drawing,
 - 3.18.2 Passenger Side Drawers – Under bench a top the generator housing a six (6) drawer cabinet 48" X 21" x 24" See drawing
 - 3.18.3 Passenger Side Shelving- Four shelves (approx. 7.5' Long cut at 15 degree angle) above Wheel well to ceiling made of welded aluminum angle frame with mid divider and 3/16 inch Aluminum plate-shelf base See drawing
 - 3.18.4 Drive side drawers – Two drawer sets across from the bench, one thirteen (13) drawer cabinet (42"x18"x24", and the other eleven (11) drawer cabinets must be 60"xx18"x24". See drawing.
 - 3.18.5 Driver shelving – Four (4) shelves (approx.8.5 feet long cut at 15 degree angle) above the wheel Well to ceiling on welded aluminum angle frame with mid-divider and 3/16 in plate – shelf base. See drawing
 - 3.18.6 Driver Side Tool Box with Drawers – One (9) drawer set of shelving five (5) 5" deep drawer cabinet W32xL60x24 and the other four 3" deep drawer cabinet W32xL60xD24 (First drawer set 10/ ½" clearance above floor base. See drawing

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY (Continued):

3.0 STEP VAN BODY (Continued):

- 3.18.7 Tool Rack (Aluminum) – upper and lower shelved bracking with holes for tools
- 3.18.8 Water Cooler Rack (aluminum, 3 gallon). See drawing

4.0 TRAINING:

- 4.1 Minimum two (2) hours equipment and maintenance orientation

5.0 LITERATURE:

- 5.1 Two (2) complete sets of Parts Manuals
- 5.2 Two (2) complete sets of Service Manuals
- 5.3 One (1) Operator Manual

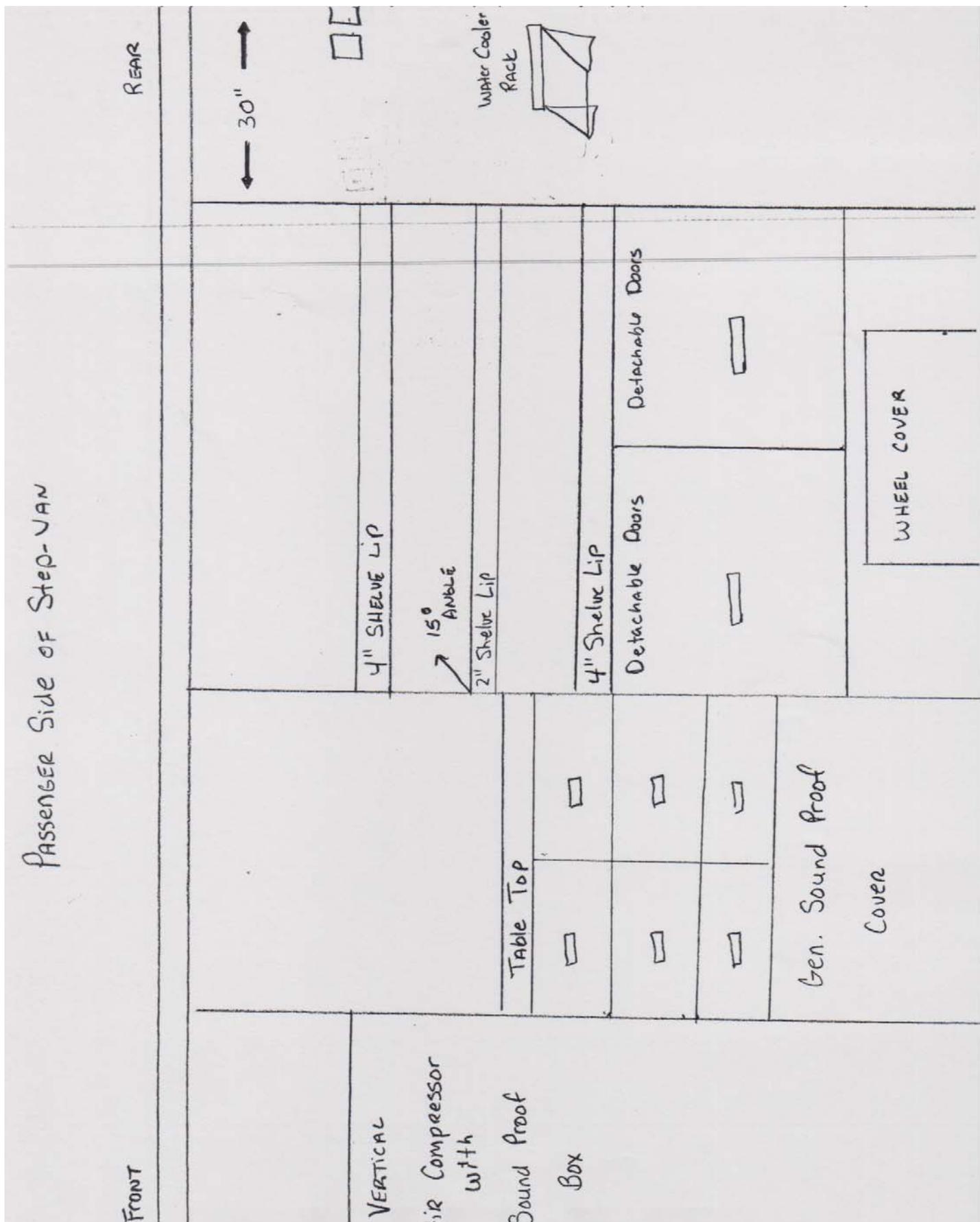
6.0 WARRANTY:

- 6.1 Minimum of one (1) year on both materials and workmanship shall be provided for the chassis, body, auxiliary air conditioner, and generator.

7.0 DELIVERY:

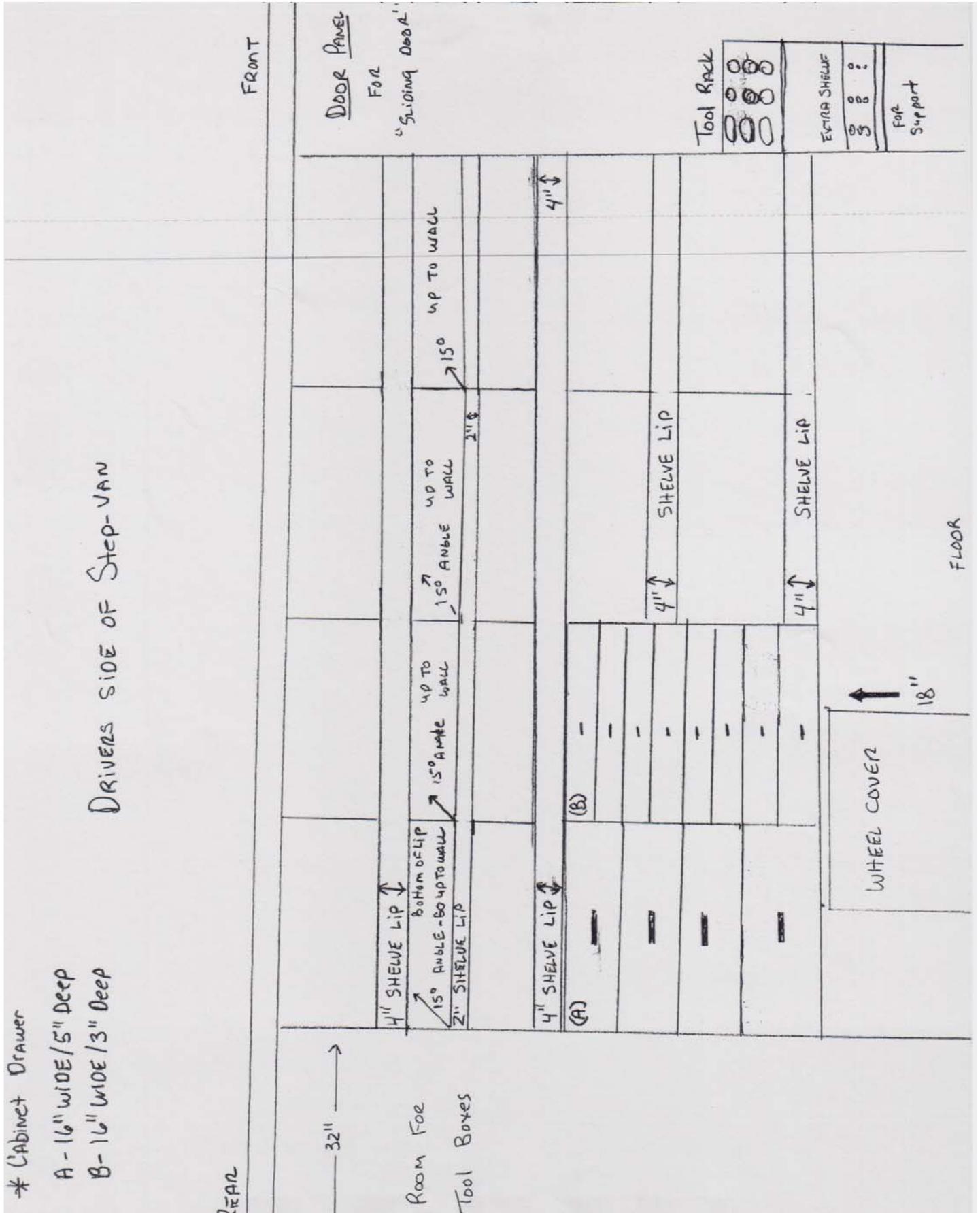
- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.

DIAGRAM I PASSENGER SIDE



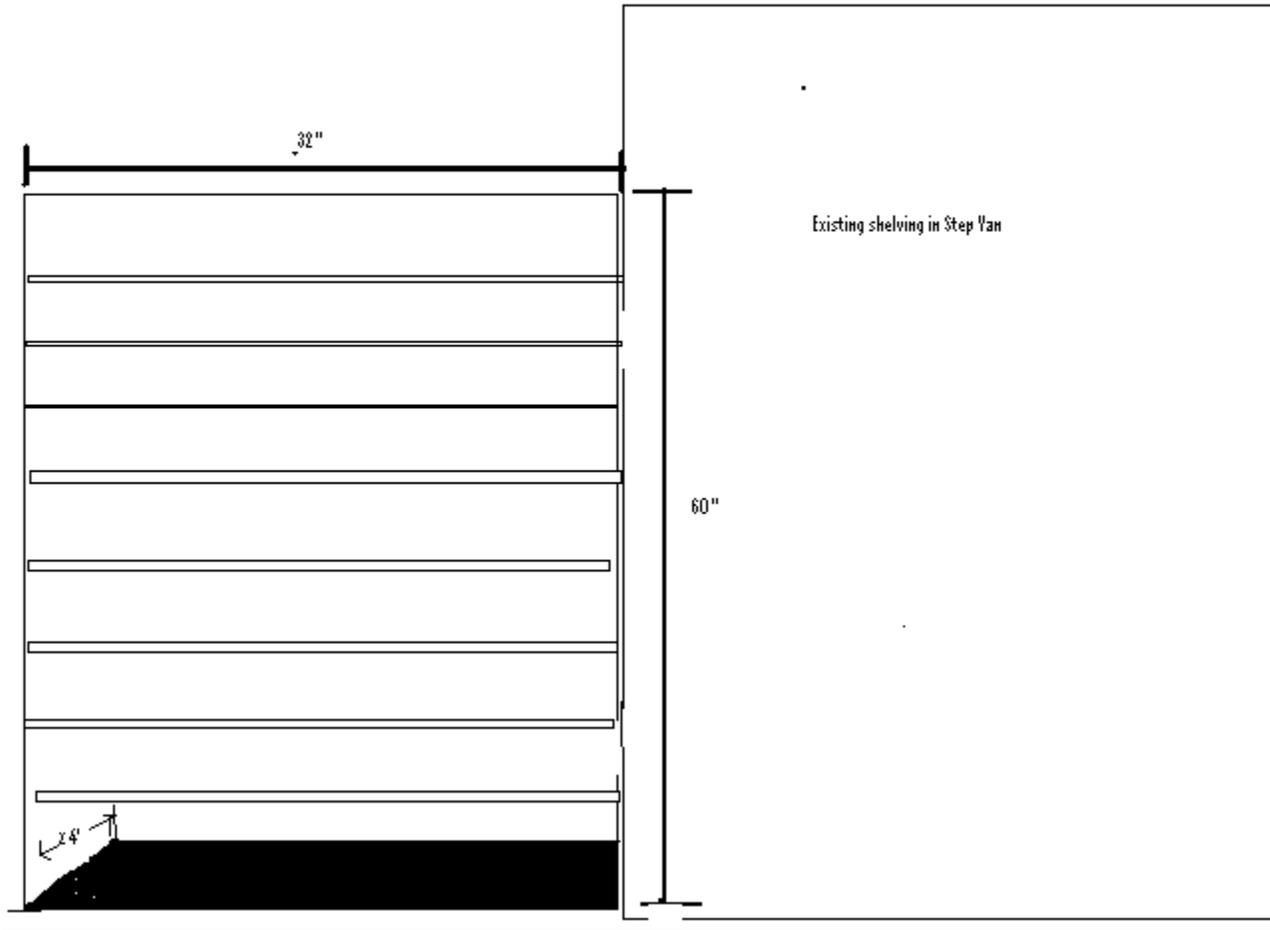
ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY (Continued):

DIAGRAM I DRIVER'S SIDE



ITEM NO. 4: CAB & CHASSIS MOUNTED WITH A BOX VAN BODY (Continued):

DRIVERS SIDE-TOOL BOX WITH DRAWERS



SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 5: TRUCK TRACTOR CAB & CHASSIS MOUNTED WITH WINCH
PR No. 10109515

1.0 GENERAL:

- 1.1 These specifications are intended to describe a Truck Cab and Chassis, to be mounted with a winch for Public Works & Engineering's Right-Of-Way Maintenance Division
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the truck tractor cab & chassis mounted with a winch.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CAB & CHASSIS:

- 2.1 Front Axle and Equipment:
 - 2.1.1 20,000 lb. axle, Cognis EMGUARD® FE 75W-90 synthetic Lube or City approved equal
 - 2.1.2 16,000 lb. suspension
 - 2.1.3 Power Steering Sheppard SD100 Dual
 - 2.1.4 Air Disc Front Brakes
 - 2.1.5 Cab to Axle shall be no greater than 123 inches
- 2.2 Rear Axle and Equipment:
 - 2.2.1 40,000 lb. axle, single-speed, tandem – 60" Spacing & Locking differential
 - 2.2.2 40,000 lb. suspension, air trac with HD Gabriel Truck Master shocks or City approved equal
 - 2.2.3 Heavy Duty Tracking Rods
 - 2.2.4 Dash mounted dump valve
 - 2.2.5 Air Disc Rear Brakes
 - 2.2.6 Oil wheel seals
 - 2.2.7 Differential ratio, 5.57, will be geared for truck to run approximately 67 MPH
 - 2.2.8 6S6M ABS Brakes
- 2.3 Brakes and Equipment Air:
 - 2.3.1 Moisture ejectors, automatic, Bendix DV-2 or City approved equal
 - 2.3.2 Air pressure gauge, dash-mounted w/light/buzzer for low air pressure
 - 2.3.3 Stemco Hubometer or City approved equal
 - 2.3.4 Air Compressor, 18.7 CFM
 - 2.3.5 Bendix AD-IP EP heated air dryer or City approved equal
 - 2.3.6 Long stroke parking brakes on axles.
 - 2.3.7 Trailer Hand Valve.
 - 2.3.8 15 feet Air & Electric Lines with (2) 7-way plugs with Hose Tenna or City approved equal
- 2.4 Cab and Equipment:
 - 2.4.1 OEM severe service with tilting hood and fenders
 - 2.4.2 Hi-back air suspension, seat with Hi-back fixed single passenger seat
 - 2.4.3 Warning light and buzzer for low oil pressure and high temperature
 - 2.4.4 Heater
 - 2.4.5 Assist handles
 - 2.4.6 Dual sun visors
 - 2.4.7 Tinted glass, all
 - 2.4.8 Gauges - to include the following; water temp (eng.), voltmeter, oil temp (trans.) oil pressure (eng), air pressure, and fuel

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 5: TRUCK TRACTOR CAB & CHASSIS MOUNTED WITH WINCH (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.4.9 Speedometer/Odometer with trip odometer
 - 2.4.10 Tachometer
 - 2.4.11 Engine hour meter, which will actuate only with engine running, dash mounted
 - 2.4.12 Dual electric horns
 - 2.4.13 Mirrors, dual Moto-Mirrors SS each side heated and motorized with switch on dash
 - 2.4.13.1 Two (2) Convex 8 inch Heated SS mirrors, offset under mirror bracket
 - 2.4.14 Factory air conditioning
 - 2.4.15 Four (4) Hadley Air Horns, RECT 2-26" & 2-29" air horns with shields or City approved equal
 - 2.4.16 Engine fan switch – full on or automatic selections
 - 2.4.17 AM/FM/WB radio with Two (2) speakers
 - 2.4.18 Tilt wheel, telescoping column
 - 2.4.19 Power Lift window, driver and passenger door, driver controlled
 - 2.4.20 Painted outside sunvisor
 - 2.4.21 Convex mirror over passenger door
 - 2.4.22 Cab air suspension
- 2.5 Electrical:
- 2.5.1 160 amp alternator
 - 2.5.2 Batteries, Premium 12 V Dual Purpose Batteries Minimum 2800 CCA Total
 - 2.5.3 Battery Box, left hand under cab, with non-slip step
 - 2.5.4 Rubber pad under batteries.
 - 2.5.5 Plug in, reset able circuit breakers.
 - 2.5.6 L.E.D. marker and tail lights.
- 2.6 Engine and Equipment:
- 2.6.1 Diesel 435 gross horsepower, 8 cylinders, minimum 1,450 ft. lbs. Torque
 - 2.6.2 Must meet 2010 emission requirements with EPA certification.
 - 2.6.2.1 If SCR system is selected:
 - 2.6.2.1. 1 DEF tank should hold a minimum of 12 gallons with polished stainless steel cover
 - 2.6.2.1. 2 DEF three way switch on dash with in-dash indicator light
 - 2.6.2.1. 3 SCR devices shall be mounted under right hand door
 - 2.6.2.1. 4 Diesel particulate filter shall be mounted on right hand side under cab
 - 2.6.3 Air cleaner, dry type with restriction indicator, dash mounted
 - 2.6.4 Spin-on fuel/water separator/filter
 - 2.6.5 Fan clutch
 - 2.6.6 Deep Core radiator, 1438 sq. in. frontal area, minimum
 - 2.6.7 Cooling system shall be protected with permanent coolant, rated for service to -40F
- 2.7 Exhaust System:
- 2.7.1 Vertical exhaust with rain curved end.
- 2.8 Frame and Equipment:
- 2.8.1 Minimum frame rating 2,850,000 RBM to meet GVWR
 - 2.8.2 Jost 5th Wheel JSK37 Air Slide or City approved equal
 - 2.8.3 Frame mounted access, both sides
 - 2.8.4 Minimum dual 80 gallon capacity fuel tanks
 - 2.8.5 Truck(s) will be delivered with full tanks of fuel
 - 2.8.6 Frame-mounted towing hook(s) on front
- 2.9 Tires and Wheels:
- 2.9.1 Front - 315/80R22.5 18 ply steel belted radial tubeless on steel disc type wheels (Alcoa 893630 piloted 22.5 x 9.00) R293 Tire tread.
 - 2.9.2 Rear – 11R22.5 14 Ply steel belted radial type tubeless for on/off road use with disc type wheels (Alcoa 885600 piloted 22.5 x 8.25) M711 Tire tread.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 5: TRUCK TRACTOR CAB & CHASSIS MOUNTED WITH WINCH (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.10 Transmission and Equipment:
 - 2.10.1 Transmission automatic 6 speed, Allison 4500RDS-P, and must be compatible with horsepower and torque of engine proposed or City approved equal
 - 2.10.2 TranSynd automatic Transmission Fluid only
 - 2.10.3 Must be able to be used both on and off road
- 2.11 Miscellaneous:
 - 2.11.1 Unless specified in the detailed vehicle specifications, the cab-to-axle dimension and/or wheel base shall be as required to properly mount the body on the chassis, with no more than four (4) inches between the Cab and Chassis unless a greater distance is required for proper operation.
 - 2.11.2 Line setting ticket for each unit will be available at the time of inspection.
 - 2.11.3 Color: White OEM standard.
 - 2.11.4 Trailer towing package including 15 ft air glad hand(s), two (2) seven-way plugs with Chrome Hose Tenna.
 - 2.11.5 Lincoln Auto lubrication System, NO EXCEPTIONS

3.0 BODY:

- 3.1 Winch:
 - 3.1.1 These specifications are intended to describe a Winch Truck shall be equipped with a Braden model AHS-20 Winch or City approved equal (45,000 lb Capacity).
 - 3.1.2 Two (2) Dell air control valves to operate winch and aux hydraulics.
 - 3.1.3 An Apsco air control valve shall be furnished to operate winch band brake
 - 3.1.4 A hydraulic temperature gauge shall be mounted in the pedestal.
 - 3.1.5 A hydraulic pressure gauge shall also be mounted in the pedestal.
 - 3.1.6 Load light controls in pedestal.
 - 3.1.7 Two (2) Halogen load lights shall be mounted in a headache rack.
 - 3.1.8 Light circuit shall be on an independent breaker.
 - 3.1.9 Breaker circuit shall be provided with a connector between the chassis and the headache rack.
- 3.2 Hydraulics:
 - 3.2.1 PTO 822XMAHX - A3XS shall be provided or City approved equal
 - 3.2.2 Hydraulic tank 110 gallons
 - 3.2.3 Two (2) mounting straps and brackets
 - 3.2.4 Commercial P72 with a P51 piggyback pump or City approved equal
 - 3.2.5 Flow-EZY strainers or City approved equal
 - 3.2.6 Parker relief valve shall be provided and installed.
 - 3.2.7 No shock pressure gauge
 - 3.2.8 No shock thermal gauge
 - 3.2.9 Parker return filter
 - 3.2.10 Commercial air piloted directional control valve
 - 3.2.11 Two (2) ball valves
- 3.3 Winch Mounting:
 - 3.3.1 Winch mounting plates shall be as follows:
 - 3.3.1.1 Mounting brackets 1/2" smooth plate with 4" x 3/4" flatbar side plates
 - 3.3.1.2 3/4" smooth steel top plate for winch to be mounted on
 - 3.3.1.3 All welds shall be continuous and mounts huck bolted to the frame
 - 3.3.1.4 All bolts shall be no less than grade 8
 - 3.3.1.5 Winch shall be supplied with no less than 150' of 7/8" steel cable with tail chain and hook

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 5: TRUCK TRACTOR CAB & CHASSIS MOUNTED WITH WINCH (Continued):

3.0 BODY (Continued):

- 3.4 Headache Rack:
 - 3.4.1 A headache rack shall be furnish and installed.
 - 3.4.2 Constructed of not less 4x4x3/8" tubular steel
 - 3.4.3 Two (2) chain racks and binder boxes shall be provided
 - 3.4.4 A wire mesh back lash screen shall be provided and constructed of 11/2" #6 expanded metal welded to the upright. A possum belly tray shall be provided and constructed of 4" channel frame with 1-1/2" #6 expanded metal floor

- 3.5 Fenders:
 - 3.5.1 Two (2) Half fenders constructed of no less than 1/8" tread plate rolled and mounted on 1/4" smooth plate and 2-1/2"x1/4" angle iron
 - 3.5.2 All welds continuous
 - 3.5.3 Mounted to frame with huck bolts
 - 3.5.4 Fenders shall be separated to either L/S or R/S frame rail

- 3.6 Loading Chute and Approach Ramps:
 - 3.6.1 3/8" side plates box construction with 1/4" base internal gussets
 - 3.6.2 Top plates shall be smooth and a minimum of 1"
 - 3.6.3 Continuous welds on all construction
 - 3.6.4 A frame width rolling tailboard a minimum of 8-5/8" constructed of no less than schedule 120 pipe with double bearing mounted on 10" channel
 - 3.6.5 A frame with rear jail house 3x3x3/8" tubing with continuous welds shall be provided to protect rear axles and lights
 - 3.6.6 Steps shall be provided and on the frame rails and hand rails shall be supplied as required for safety access

4.0 LITERATURE:

- 4.1 Two (2) sets of Parts Manuals
- 4.2 Two (2) sets of Service Manuals

5.0 WARRANTY:

- 5.1 Cab & chassis minimum, five (5) years/100,000 miles warranty on parts and labor
- 5.2 Body warranty minimum of three (3) years

6.0 TRAINING:

- 6.1 Two weeks of training shall be provided at location specified by City of Houston.

7.0 DELIVERY/INSPECTION:

- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.
- 7.2 Unit(s) shall have full tanks of fuel at time of delivery.
- 7.3 Unit(s) shall be accompanied with a copy of the original invoice, warranty policy(ies) and/or certification, as may be required.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

**ITEM NO. 6: CAB & CHASSIS MOUNTED WITH JET/VACUUM BODY
PR No. 10109439**

1.0 GENERAL:

- 1.1 These specifications are intended to describe a Truck Cab and Chassis to be mounted with a Combination Jet/Vacuum body for Public Works & Engineering Department's Right-of-Way Maintenance Division
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with the jet/vacuum body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CAB & CHASSIS: Reference Peterbuilt 367 or City approved equal

- 2.1 Front Axle and Equipment:
 - 2.1.1 20,000 lb. axle, Cognis EMGUARD® FE 75W-90 synthetic Lube or City approved equal
 - 2.1.2 20,000 lb. suspension
 - 2.1.3 Power Steering TRW THP60 Dual
 - 2.1.4 Cab to Axle shall be no greater than 160 inches.
- 2.2 Rear Axle and Equipment:
 - 2.2.1 30,000 lb. axle, single-speed – Locking rear differential
 - 2.2.2 31,000 lb. suspension, Reyco 79KB Multi Leaf, with 4,500 lbs Helper Springs or City approved equal
 - 2.2.3 Oil wheel seals.
 - 2.2.4 Differential ratio, 5.57, will be geared for truck to run approximately 65 MPH.
 - 2.2.5 6S6M ABS Brakes.
 - 2.2.6 Hubometer, showing miles or City approved equal
 - 2.2.7 Bendix Smart ATC Traction Control or City approved equal
 - 2.2.8 Gusseted Cam Brackets, Drive Axle(s).
 - 2.2.9 SBM Valve.
 - 2.2.10 Cognis EMGUARD® FE75W-90 synthetic lube or City approved equal
- 2.3 Brakes and Equipment Air:
 - 2.3.1 Moisture ejector, automatic, Bendix DV-2 on wet tank or City approved equal
 - 2.3.2 Berg Pull Cord Drain Valve(s) - All other air tanks
 - 2.3.3 Air pressure gauge, dash-mounted w/light/buzzer for low air pressure
 - 2.3.4 Front and rear dust shields.
 - 2.3.5 Air Compressor, 18.7 CFM.
 - 2.3.6 Bendix AD-IP EP heated air dryer or City approved equal
 - 2.3.7 MGM TR-T 3030in Parking Brakes, Long stroke, on both axles
- 2.4 Cab and Equipment:
 - 2.4.1 OEM severe service with tilting Metton hood and fenders or City approved equal
 - 2.4.2 Hi-back air suspension, Driver seat and low back non-Air Passenger.
 - 2.4.3 Warning light and buzzer for low oil pressure and high temperature.
 - 2.4.4 Heater
 - 2.4.5 Assist handles
 - 2.4.6 Dual sun visors
 - 2.4.7 Tinted glass, all

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 6: CAB & CHASSIS MOUNTED WITH JET/VACUUM BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.4.8 Gauges - to include the following; water temp (eng.), voltmeter, oil temp (trans.) oil pressure (eng), air pressure, and fuel
 - 2.4.9 Speedometer/Odometer with trip odometer
 - 2.4.10 Tachometer
 - 2.4.11 Engine hour meter, which will actuate only with engine running, dash mounted.
 - 2.4.12 Dual electric horns
 - 2.4.13 Mirrors, dual SSTL each side heated and motorized with switch on door.
 - 2.4.13.1 Two (2) Convex 8 inch Heated SS mirrors, offset under mirror bracket
 - 2.4.14 Arm rest on both doors
 - 2.4.15 Factory air conditioning
 - 2.4.16 One (1) Hadley Air Horn, 24.5" air horn with shield
 - 2.4.17 Engine fan switch – full on or automatic selections
 - 2.4.18 Adjustable Steering Column - Tilt/Telescopic
 - 2.4.19 Aluminum Cab with Steel Firewall; Steel Front Floor Sheet; and Steel Isolator insert.
 - 2.4.20 Thermal Insulation: Closed-Cell Foam in Floor, Special Mylar-Faced Foam in walls and Roof Structure
 - 2.4.21 Rubber Fender Lips 2.25 inch Wide
 - 2.4.22 Power Door Locks
 - 2.4.23 Power Windows
 - 2.4.24 CabMate, Mfg by Link, Cab Air Suspension or City approved equal
 - 2.4.25 AM/FM/WB radio with Two (2) speakers
 - 2.4.26 Painted outside sunvisor
 - 2.4.27 Convex mirror over passenger door
- 2.5 Electrical:
- 2.5.1 160 amp alternator
 - 2.5.2 Batteries, AGM 12 V Dual Purpose Batteries Minimum 2400 CCA Total
 - 2.5.3 Battery Box, left hand Back of Cab
 - 2.5.4 Rubber pad under batteries
 - 2.5.5 Plug in, reset able circuit breakers
 - 2.5.6 L.E.D. marker and tail lights
- 2.6 Engine and Equipment:
- 2.6.1 Diesel 350 gross horsepower, 6 cylinders, minimum 1,000 ft. lbs. Torque
 - 2.6.2 Must meet 2010 emission requirements with EPA certification.
 - 2.6.2.1 If SCR system is selected:
 - 2.6.2.1. 1 DEF tank should hold a minimum of 12 gallons with polished stainless steel cover
 - 2.6.2.1. 2 DEF three way switch on dash with in-dash indicator light
 - 2.6.2.1. 3 SCR devices shall be mounted under right hand door
 - 2.6.2.1. 4 Diesel particulate filter shall be mounted on right hand side under cab
 - 2.6.3 Air cleaner, dry type with restriction indicator, dash mounted
 - 2.6.4 Spin-on fuel/water separator/filter
 - 2.6.5 Fan clutch
 - 2.6.6 Deep Core radiator, 1,000 sq. in. frontal area, minimum
 - 2.6.7 Cooling system shall be protected with permanent coolant, rated for service to -40F
- 2.7 Exhaust System:
- 2.7.1 Vertical exhaust with rain curved end.
- 2.8 Frame and Equipment:
- 2.8.1 Minimum frame rating 2,832,000 RBM to meet GVW
 - 2.8.2 Section Modules of 23.6 cu in.
 - 2.8.3 Yield Strength of 120,000 PSI.
 - 2.8.4 Minimum 70 gallon capacity fuel tank Left Hand under cab with cab steps
 - 2.8.5 Frame-mounted towing hook(s) on front
 - 2.8.6 Truck(s) will be delivered with full tank of fuel

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 6: CAB & CHASSIS MOUNTED WITH JET/VACUUM BODY (Continued):

2.0 CAB & CHASSIS (Continued):

- 2.9 Tires and Wheels:
 - 2.9.1 Front - 315/80R22.5 20 ply steel belted radial tubeless on aluminum disc type wheels (Alcoa 893630 piloted 22.5 x 9.00) M860 Tire tread
 - 2.9.2 Rear – 315/80R22.5 20 ply steel belted radial tubeless on aluminum disc type wheels (Alcoa 893630 piloted 22.5 x 9.00) M843 Tire tread
 - 2.9.3 FF and RR Wheels Polished and including Dura-Bright XBR Technology Finish
- 2.10 Transmission and Equipment:
 - 2.10.1 Transmission automatic 5 or 6 speed, Allison 3000RDS-P, and must be compatible with horsepower and torque of engine proposed. Must be able to be used both on and off road
 - 2.10.2 TranSynd automatic Transmission Fluid only
- 2.11 Miscellaneous:
 - 2.11.1 Unless specified in the detailed vehicle specifications, the cab-to-axle dimension and/or wheel base shall be as required to properly mount the body on the chassis, with no more than four (4) inches between the Cab and Chassis unless a greater distance is required for proper operation.
 - 2.11.2 Line setting ticket for each unit will be available at the time of inspection
 - 2.11.3 Color: White OEM standard.
 - 2.11.4 Lincoln Auto lubrication System, NO EXCEPTIONS
 - 2.11.5 Air Restriction Indicator mounted in Air Cleaner intake Piping.
 - 2.11.6 All DOT required Reflector, Fire Extinguisher, and 107dB Back-up Alarm.

3.0 BODY:

- 3.1 General:
 - 3.1.1 GAPVAX MC Series Combination Machine Model Number – 80 GPM@ 2,000PSI or City approved equal.
- 3.2 Debris Body:
 - 3.2.1 3/16" ASTM A-572 Grade 50 Exten. High Strength Steel Debris Tank
 - 3.2.2 ¼" Thick Steel longsills
 - 3.2.3 12" Stainless Steel Float Ball Shut off in debris tank
 - 3.2.4 Top loading material backed debris deflection body inlet cannon with 8" cleanout basket to hold 25' fire hose without need to disconnect always curbside front
 - 3.2.5 Full opening rear tailgate with stainless steel "sure seal" rod and solid core gasket
 - 3.2.6 Four (4) Hydraulic rear door locks
 - 3.2.7 Dual (2) tailgate lift cylinders - open/close
 - 3.2.8 Front mounted hoist cylinder, 55,000# capacity, power up and down
 - 3.2.9 Cam-loc Fittings for Drain Hoses (per set) 6" – Includes Flanges
 - 3.2.10 24" Standpipe for Pump Off Drain Valve
 - 3.2.11 Debris Body Flush Out System
 - 3.2.12 Drain Valve – Rear Door- 6" Knife with 15' of lay flat hose (for tailgate basket, add Option I20)
 - 3.2.13 Level Indicator – Float type mounted on tailgate with external pointer
 - 3.2.14 Filter Screens – Interior for Pump Off and Drain Valve (flange, elbow and screen)
 - 3.2.15 Splash Shield – Rear Door
 - 3.2.16 Purge Valve at Gravity Drain Valve (1-1/4" Ball Valve)
- 3.3 Water Tank:
 - 3.3.1 Water Tank 3/16" Stainless Steel
 - 3.3.2 4" high anti-siphon ring with (4) 2-1/2" holes
 - 3.3.3 Water tank level sight tube in curb side – clear plastic hose
 - 3.3.4 2" Drain Valve at bottom of water tank
 - 3.3.5 3" Fill line 2-1/2" fire hose connection- curbside
 - 3.3.6 3" Supply line to water pump
 - 3.3.7 No baffles in water tank
 - 3.3.8 Install customer supplied water meter

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 6: CAB & CHASSIS MOUNTED WITH JET/VACUUM BODY (Continued):

3.0 BODY (Continued):

- 3.4 Vacuum System:
 - 3.4.1 True 8" diameter vacuum system
 - 3.4.2 Three (3) Vacuum Relief Valves set to crack at 16" HG
 - 3.4.3 Discharge silencer w/rain cap and bottom drain
 - 3.4.4 Cyclone Separator with 20" chamber
 - 3.4.5 Vacuum pump driven via Transfer Case rated 500 HP
 - 3.4.6 Roots Type Vacuum Pump 3, 500 CFM and 16" Hg
 - 3.4.7 Noise and vibration dampening mounts on transfer case and vacuum pump
 - 3.4.8 Stainless Steel Vee-Wire Filter Screen at Blower Inlet
 - 3.4.9 Vacuum Relief Valve, 6" Air Operated
 - 3.4.10 Upgrade to Roots Type Vacuum Pump 4,500 CFM and 18" Hg

- 3.5 Water Pump System:
 - 3.5.1 80 GPM @ 2,000 PSI Shaft Drive Water Pump, Heavy duty 1410 Drive Shaft
 - 3.5.2 Water pump drive: direct from PTO via drive shaft
 - 3.5.3 3" Water Strainer with stainless steel screen between water tank and pump
 - 3.5.4 Adjustable low pressure water spray gun with 50' x 1/2" hose and quick connects, mounted rear of cab on curb side, 800 PSI MAX
 - 3.5.5 Low point drain valves – water lines
 - 3.5.6 Multi-Flow – Shaft Drive Water Pump
 - 3.5.7 Air Purge System – MC System
 - 3.5.8 Giant GP8000 Series Water Pump rated 80 GPM @ 2000 PSI
 - 3.5.9 Valve before 3" Strainer
 - 3.5.10 50 x 1/2" Hand Gun Reel, Retractable with 50' x 1/2" Hose

- 3.6 Boom:
 - 3.6.1 8" Front mounted telescoping tube-in-tube boom – inside is true 8"
 - 3.6.2 Nine (9) foot telescoping extension – 26' reach from center of truck
 - 3.6.3 180 degree power rotation via direct hydraulic gear (worm) drive = (80 degree drive side, 100 degree curb side)
 - 3.6.4 Dual 4" lift cylinders
 - 3.6.5 Cab protection rack
 - 3.6.6 9" Rubber connector hose at articulation bearing
 - 3.6.7 Remote Lube for Boom Lift and Rotation

- 3.7 Hose Reel:
 - 3.7.1 Front frame mounted hose reel with 180 degrees articulation, hose reel spool driven via hydraulically powered gear box
 - 3.7.2 1-1/2" Heavy duty spool swivel for water, rated to 4000 PSI working pressure
 - 3.7.3 Telescoping Level Wind
 - 3.7.4 GapVax Reel-Count Digital Footage Counter or City approved equal

- 3.8 Controls, Gauges, Accessories:
 - 3.8.1 Cab Mounted Air Shift Control Panel for Blower, Water Pump, and Hydraulics (console at floor standard, Sterling is dash mounted)
 - 3.8.2 Operator control panel to include: sewer hose level wind, reel speed and direction, articulation control (brand brake release), blower tachometer, water pump tachometer, water pressure gauge hydraulic pressure gauge, vacuum gauge, electric engine throttle
 - 3.8.3 Emergency stop de-energize water flow valve and break vacuum
 - 3.8.4 If automatic transmission- interlock for throttle control
 - 3.8.5 Low water level display on control panel
 - 3.8.6 Engine Oil Pressure and Water Temp at Operators Station
 - 3.8.7 Electrical Switch on control panel- additional

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 6: CAB & CHASSIS MOUNTED WITH JET/VACUUM BODY (Continued):

3.0 BODY (Continued):

3.9 Lighting:

- 3.9.1 Strobe Beacon Light – Rear- Whelen 2022LPA
- 3.9.2 Rear Arrow Light – Halogen – 44” Wide Low Profile – Whelen TA837A
- 3.9.3 (1) Boom Work Light – Standard (Truck-Lite 80360)
- 3.9.4 Additional Work Light – Boom, rear, Side/Pump Compartment (per pair) Must Match with H5 or H6 or H7

3.10 Storage, Tool Boxes, Enclosure:

- 3.10.1 Tool Box – Steel, 36” Wide x 18” Tall x 24” Deep
- 3.10.2 Two (2) Galvanized Steel Tube Trays mounted over SINGLE axles/tires – 7-1/2 ft. long
- 3.10.3 Tool Box– Steel, 36” Wide x 18” Tall x 24” Deep (2)
- 3.10.4 Tool Box – Aluminum, 36” Wide x 18” Tall x 24” Deep
- 3.10.5 Traffic Cone Holder
- 3.10.6 Water Cooler Holder
- 3.10.7 Rear Drain Hose Rack for 6” Layflat hose

3.11 Chassis:

- 3.11.1 6” Chassis Sub-frame
- 3.11.2 DOT Lighting / Fenders / Mud flaps / Body and Tailgate Safety Props, ICC Lights
- 3.11.3 70 Gallons AW-46 Hydraulic Oil, Level/Temperature Gauge, Shutoff on Suction
- 3.11.4 Rear DOT Bumper
- 3.11.5 Front Bumper – may not be required in all states
- 3.11.6 Allison 10 Bolt PTO Upgrade
- 3.11.7 Tow Hooks Front

3.12 Paint Options:

- 3.12.1 Paint Body and boom – White
- 3.12.2 Paint framer, blower, silencer, boom base – Black
- 3.12.3 Rear Door Chevron Striping – Vinyl

3.13 Miscellaneous:

- 3.13.1 25 Feet of Vacuum Tubing:
 - 3.13.1.1 3 each of 8” x 5’
 - 3.13.1.2 1 each of 8” x 5’ with fluidizer holes
 - 3.13.1.3 1 each of 8” x 5’ with bolt on crown
 - 3.13.1.4 Six 8” tube clamps
- 3.13.2 Two 80 GPM Sewer Cleaning Nozzles: (1) 30 degree and (1) 15 degree
- 3.13.3 (1) Tiger Tail Hose Guide
- 3.13.4 Operations and Maintenance Manual
- 3.13.5 Fill Hose 50’ x 2 ½”
- 3.13.6 Leader Hose 10’ x 1”
- 3.13.7 1” Sewer Hose – 2,500 PSI x 800 ft. Plastic
- 3.13.8 Vanner 2600 Watt 120 Volt AC Power Inverter (Chassis system to supply needed batteries)

4.0 LITERATURE:

- 4.1 Two (2) sets of Parts Manuals
- 4.2 Two (2) sets of Service Manuals

5.0 WARRANTY:

- 5.1 Cab & chassis – minimum five (5) year/100,000 mile warranty on parts and labor shall be provided
- 5.2 Body – five (5) year non-prorated warranty against defects in material and workmanship

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 6: CAB & CHASSIS MOUNTED WITH JET/VACUUM BODY (Continued):

6.0 TRAINING:

6.1 Two weeks of training shall be provided at location specified by City of Houston.

7.0 DELIVERY/INSPECTION:

7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.

7.2 Unit(s) shall have full tanks of fuel at time of delivery.

7.3 Unit(s) shall be accompanied with a copy of the original invoice, warranty policy(ies) and/or certification, as may be required.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

**ITEM NO. 7: CAB & CHASSIS MOUNTED WITH A FLUSHER BODY
PR No. 10109438**

1.0 GENERAL:

- 1.1 These specifications are intended to describe a Truck Cab and Chassis to be mounted with a culvert flusher body for the Public Works & Engineering Department's Right-of -Way Fleet Maintenance Division.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with a flusher body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily.

2.0 CAB & CHASSIS: Reference Peterbuilt 367 or City approved equal

- 2.1 Front Axle and Equipment:
 - 2.1.1 20,000 lb. axle, Cognis EMGUARD® FE 75W-90 synthetic Lube or City approved equal
 - 2.1.2 20,000 lb. suspension
 - 2.1.3 Power Steering TRW THP60 Dual.
 - 2.1.4 Cab to Axle shall be no greater than 148 inches.
- 2.2 Rear Axle and Equipment:
 - 2.2.1 46,000 lb. axle, single-speed, tandem – Locking rear differential, both axles
 - 2.2.2 46,000 lb. suspension, Hendrickson HMX460 with shocks
 - 2.2.3 Oil wheel seal
 - 2.2.4 Differential ratio, 4.56, will be geared for truck to run approximately 65 MP
 - 2.2.5 6S6M ABS Brakes
 - 2.2.6 Hubometer, showing miles or City approved equal
 - 2.2.7 Bendix Smart ATC Traction Control or City approved equal
 - 2.2.8 Rear Brake Camshaft Reinforced
 - 2.2.9 Lube Pump, Drive Axle(s)
 - 2.2.10 Gusseted Cam Brackets, Drive Axle(s)
 - 2.2.11 SBM Valve
 - 2.2.12 Cognis EMGUARD® FE75W-90 synthetic lube or City approved equal
- 2.3 Brakes and Equipment Air:
 - 2.3.1 Moisture ejector, automatic, Bendix DV-2 on wet tank or City approved equal
 - 2.3.2 Berg Pull Cord Drain Valve(s) - All other air tanks or City approved equal
 - 2.3.3 Air pressure gauge, dash-mounted w/light/buzzer for low air pressure.
 - 2.3.4 Front and rear dust shields.
 - 2.3.5 Air Compressor, 18.7 CFM.
 - 2.3.6 Bendix AD-IP EP heated air dryer or equal or City approved equal
 - 2.3.7 MGM TR-T 3030in Parking Brakes, Long stroke, on both axles.
- 2.4 Cab and Equipment:
 - 2.4.1 OEM severe service with tilting Metton hood and fenders or City approved equal
 - 2.4.2 Hi-back air suspension, seats Driver and Passenger
 - 2.4.3 Warning light and buzzer for low oil pressure and high temperature
 - 2.4.4 Heater
 - 2.4.5 Assist handles
 - 2.4.6 Dual sun visors
 - 2.4.7 Tinted glass, all

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 7: CAB & CHASSIS MOUNTED WITH A FLUSHER BODY (Continued)

2.0 CAB & CHASSIS: (Continued)

- 2.4.8 Gauges - to include the following; water temp (eng.), voltmeter, oil temp (trans.) oil pressure (eng), air pressure, and fuel
 - 2.4.9 Speedometer/Odometer with trip odometer
 - 2.4.10 Tachometer
 - 2.4.11 Engine hour meter, which will actuate only with engine running, dash mounted
 - 2.4.12 Dual electric horns
 - 2.4.13 Mirrors, dual SSTL each side heated and motorized with switch on door.
 - 2.4.13.1 (2) Convex 8 inch Heated SS mirrors, offset under mirror bracket.
 - 2.4.14 Arm rest on both doors
 - 2.4.15 Factory air conditioning
 - 2.4.16 Two (2) Hadley Air Horns, RECT 26" air horns with shields
 - 2.4.17 Engine fan switch – full on or automatic selections
 - 2.4.18 Adjustable Steering Column - Tilt/Telescopic
 - 2.4.19 Aluminum Cab with Steel Firewall; Steel Front Floor Sheet; and Steel Isolator insert.
 - 2.4.20 Thermal Insulation: Closed-Cell Foam in Floor, Special Mylar-Faced Foam in Walls and Roof Structure.
 - 2.4.21 Rubber Fender Lips 2.25 inch Wide.
 - 2.4.22 Power Door Locks.
 - 2.4.23 Power Windows
 - 2.4.24 CabMate, Mfg by Link, Cab Air Suspension or City approved equal
 - 2.4.25 AM/FM/WB radio with (2) speakers
 - 2.4.26 Painted outside sunvisor
 - 2.4.27 Convex mirror over passenger door.
- 2.5 Electrical:
- 2.5.1 145 amp alternator
 - 2.5.2 Batteries, Premium 12 V Dual Purpose Batteries Minimum 2800 CCA Total
 - 2.5.3 Battery Box, left hand under cab, with non-slip step
 - 2.5.4 Rubber pad under batteries.
 - 2.5.5 Plug in, reset able circuit breakers.
 - 2.5.6 L.E.D. marker and tail lights.
- 2.6 Engine and Equipment:
- 2.6.1 Diesel 330 gross horsepower, 6 cylinders, minimum 1,000 ft. lbs. Torque
 - 2.6.2 Must meet 2010 emission requirements with EPA certification.
 - 2.6.2.1 If SCR system is selected:
 - 2.6.2.1. 1 DEF tank should hold a minimum of 12 gallons with polished stainless steel cover
 - 2.6.2.1. 2 DEF three way switch on dash with in-dash indicator light
 - 2.6.2.1. 3 SCR devices shall be mounted under right hand door
 - 2.6.2.1. 4 Diesel particulate filter shall be mounted on right hand side under cab
 - 2.6.3 Air cleaner, dry type with restriction indicator, dash mounted
 - 2.6.4 Spin-on fuel/water separator/filter
 - 2.6.5 Fan clutch
 - 2.6.6 Deep Core radiator, 1,000 sq. in. frontal area, minimum
 - 2.6.7 Cooling system shall be protected with permanent coolant, rated for service to -40F
- 2.7 Exhaust System:
- 2.7.1 Vertical exhaust with rain curved end.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO.7: CAB & CHASSIS MOUNTED WITH A FLUSHER BODY (Continued)

2.0 CAB & CHASSIS: (Continued)

2.8 Frame and Equipment:

- 2.8.1 Minimum frame rating 2,832,000 RBM to meet GVWR
- 2.8.2 Section Modules of 23.6 cu in.
- 2.8.3 Yield Strength of 120,000 PSI.
- 2.8.4 Minimum dual 70 gallon capacity fuel tanks
- 2.8.5 Frame-mounted towing hook(s) on front
- 2.8.6 Truck(s) will be delivered with full tanks of fuel

2.9 Tires and Wheels:

- 2.9.1 Front - 315/80R22.5 20 ply steel belted radial tubeless on aluminum disc type wheels (Alcoa 893630 piloted 22.5 x 9.00) M860 Tire tread or City approved equal
- 2.9.2 Rear – 11R22.5 16 Ply steel belted radial type tubeless for on/off road use with disc type wheels (Accur 28408 piloted 22.5 x 8.25) M843 Tire tread or City approved equal

2.10 Transmission and Equipment:

- 2.10.1 Transmission automatic 5 or 6 speed, Allison 3000RDS-P, and must be compatible with horsepower and torque of engine proposed or City approved equal
- 2.10.2 Must be able to be used both on and off road.
- 2.10.3 TranSynd automatic Transmission Fluid only.

2.11 Miscellaneous:

- 2.11.1 Unless specified in the detailed vehicle specifications, the cab-to-axle dimension and/or wheel base shall be as required to properly mount the body on the chassis, with no more than four (4) inches between the Cab and Chassis unless a greater distance is required for proper operation.
- 2.11.2 Line setting ticket for each unit will be available at the time of inspection.
- 2.11.3 Color: White OEM standard.
- 2.11.4 Lincoln Auto lubrication System, NO EXCEPTIONS.
- 2.11.5 Air Restriction Indicator mounted in Air Cleaner intake Piping.
- 2.11.6 All DOT required Reflector, Fire Extinguisher, and 107dB Back-up Alarm.

3.0 BODY: Reference Underground Flusher Body Model 31D31TF or City approved equal

3.1 Tank:

- 3.1.1 The capacity of the water tank shall be at least 3,100 gallons.
- 3.1.2 Construction shall be high density polyethylene with ultraviolet inhibitors to prevent undue brittleness when exposed to sunlight and shall be of the round design for additional strength with built in baffles.
- 3.1.3 A 2-1/2 in. overhead type tank filling assembly shall be located on the curbside.
- 3.1.4 A positive air gap anti-siphon system shall be incorporated to protect the potable water supply.
- 3.1.5 A 25 ft. x 2-1/2 in. curb side filler hose with fittings and carrying rack shall be included.
- 3.1.6 The tank shall be vented and fitted with a suitable removable port to permit inspection and access into the tank.
- 3.1.7 The system shall incorporate a suction line and a sloped bottom of tank to permit utilizing the entire bottom portion of the tank as settling chamber for heavy materials and to eliminate the possibility of these materials reaching the pump.
- 3.1.8 The tank shall be mounted in such a manner as to prohibit torsion racking of the truck frame from transmitting through the tank.

3.2 Pump:

- 3.2.1 The unit shall be equipped with a 4 in. centrifugal pump, hydraulically powered.
- 3.2.2 The pump shall mounted to the truck under the frame on the passenger side.
- 3.2.3 The pump shall be plumbed to the main water tank via hard piping.

3.3 Tool Boxes:

- 3.3.1 Provide and install two (2) undermounted tool boxes, approximately 24 in. x 24 in. x 24 in.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 7: CAB & CHASSIS MOUNTED WITH A FLUSHER BODY (Continued)

3.0 BODY: (Continued)

- 3.4 Knuckle Boom: Reference Ferrari Model F708A or City approved equal
 - 3.4.1 A knuckle boom shall be proved with plumbing through the boom.
 - 3.4.2 A hose nozzle end shall be provided and fixed to the above plumbing.
 - 3.4.3 Pendant control shall be provided to operate the boom, water pump on/off and engine throttle.
- 3.5 Hose Reel:
 - 3.5.1 A manual rewind hose reel shall be provided.
 - 3.5.2 A 60 feet x 2 inch collapsible hose shall also be provided.
- 3.6 Painting:
 - 3.6.1 Before painting, all metal shall be cleaned and etched to insure permanent bond of primer and paint.
 - 3.6.2 All components shall be painted before being installed on the unit. The entire unit shall be painted to match the cab of the truck.
- 3.7 State Inspection and Weight Certificate:
 - 3.7.1 Supplier shall provide state inspection and weight certification for each vehicle
 - 3.7.2 Supplier will complete the document and post in an appropriate location

4.0 LITERATURE:

- 4.1 Two (2) sets of Parts Manuals
- 4.2 Two (2) sets of Service Manuals

5.0 WARRANTY:

- 5.1 Cab & Chassis:
 - 6.1.1 Cab and Chassis a minimum, five (5) years/100,000 miles warranty on parts and labor shall be provided.
- 5.2 Body:
 - 6.2.1 Water tank, plumbing, water pump, valve and piping– 36 months for material and workmanship.
- 5.3 All other items – 36 months for material and workmanship

6.0 TRAINING:

- 6.1 Two days of training shall be provided at location specified by City of Houston.

7.0 DELIVERY/INSPECTION:

- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.
- 7.2 Unit(s) shall have full tanks of fuel at time of delivery.
- 7.3 Unit(s) shall be accompanied with a copy of the original invoice, warranty policy(ies) and/or certification, as may be required.

SECTION B, PART II TECHNICAL SPECIFICATIONS (CONTINUED):

**ITEM NO. 8: CAB & CHASSIS MOUNTED WITH PLATFORM/ CRANE BODY
PR No. 10111106**

1.0 GENERAL:

- 1.1 The intent of these specifications is to provide and furnish equipment to the City of Houston Parks Manufacturer's Reference: 2011 International 4300M7 SBA 4X2 (MA065) or City approved equal.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with the platform/crane body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily

2.0 CAB & CHASSIS:

- 2.1 General:
 - 2.1.1 Cab, conventional
 - 2.1.2 Seat, front bench full width; vinyl, with fixed back
 - 2.1.3 Mirrors (2) (Lang Merka) rectangular, 7.44" x 14.84", brackets breakaway type, with 102" spacing, with 7.44" sq convex both sides
 - 2.1.4 Air conditioner with integral heater and defroster
 - 2.1.5 Mirror, convex, look down right side 6"x10 ¼"
 - 2.1.6 Mirror, convex, hood mounted 2 for left and right sides 7.44" sq
 - 2.1.7 187.00" Wheelbase, 119.90" CA, and 73.00" Axel to Frame
 - 2.1.8 Frame rails heat treated alloy steel (120,000 PSI yield); 10.125" X 3.580" X 0.312"; 420.0" maximum OAL
 - 2.1.9 Axel, front non-driving I-beam type, 10,000-lb capacity
 - 2.1.10 Suspension, front, spring parabolic, taper leaf; 10,000-lb capacity; with shock absorbers
 - 2.1.11 Power steering gear
 - 2.1.12 Paint schematic, white
 - 2.1.13 Axle, rear, single reduction, 17,500-lb capacity, 190 wheel ends. Gear ratio: 6.50
 - 2.1.14 Suspension, RR, spring, single vair-rate; 18,500-lb capacity, with 4500-lb auxiliary rubber spring
 - 2.1.15 Wheels, front disc; 22.5" painted steel, 7.50 DC rims; white
 - 2.1.16 Wheels, rear dual disc; 22.5" painted steel, 7.50 DC rims, white
 - 2.1.17 2 Front tires 265/75R22.5 G149 RSA/RH 540 rev/mile, load range G, 14 ply or City approved equal
 - 2.1.18 4 Rear tires 265/75R 22.5 G622 RSD 561 rev/mile, load range G, 14 ply or City approved equal
 - 2.1.19 Fuel tank, aluminum, 50 US Gal
 - 2.1.20 Locking Fuel Cap
 - 2.1.21 Fuel Filter w/filter restriction/change indicator
- 2.2 Engine:
 - 2.2.1 Engine, diesel 240hp@2600 rpm, 620 lb-ft torque@1400 RPM, 2800 RPM governed speed
 - 2.2.2 Factory exhaust
 - 2.2.3 Transmission, Automatic (Allison 2500-HS) 4th generation controls; wide ratio, 5 speed, with overdrive; less retarder, with 33,000-lb GVW and GCW Max

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 8: CAB & CHASSIS MOUNTED WITH PLATFORM/CRANE BODY (Continued):

2.0 CAB & CHASSIS (CONTINUED):

- 2.3 Electrical:
 - 2.3.1 Electrical system, 12 volt, standard equipment
 - 2.3.2 Power source cigar type receptacle
 - 2.3.3 Alternator 12 volt 120 amp.
 - 2.3.4 Body builder wiring under standard cab at left frame, includes sealed connectors for tail/amber turn/marker/backup/accessory power/ground and sealed connector for stop/turn
 - 2.3.5 Electric Trailer Brake/Lights accommodation package to rear frame; for combined trailer stop, tail, turn, marker lights circuits; includes electric trailer brake unit, less trailer socket
 - 2.3.6 Stop/turn/tail/backup lights (truck lite) super 44, with LED lamps for stop, turn and taillights and truck super 40 lamps for backup lights, less power module, less rubber mount, includes reflectors.
 - 2.3.7 Backup alarm, electric 102dba
 - 2.3.8 Battery system maintenance free (2) 12-volt 1100CCA batteries
 - 2.3.9 Starter Motor (heavy duty) 12 volt; less thermal over crank protection with integrated magnetic switch
 - 2.3.10 Throttle, hand control engine speed control; electronic, stationary, variable speed, mounted on steering wheel
 - 2.3.11 Engine control, remote mounted provision furnished to remote mount engine control
 - 2.3.12 Radio AM/FM with weather band, clock, auxiliary input, includes speakers
- 2.4 Brakes:
 - 2.4.1 Brake system, hydraulic, split system, full power, with automatic adjustment and with four channel ABS
 - 2.4.2 Parking Brake DSSA Type, 12"X3", for hydraulic brake chassis, activated by level in cab
 - 2.4.3 Brakes, front hydraulic disc quadraulic; four 70mm diameter pistons
 - 2.4.4 Brakes, rear hydraulic quadraulic; four 70mm diameter pistons

3.0 PLATFORM BODY: (Reference Manufacturer, General Truck Body)

- 3.1 General:
 - 3.1.1 These specifications are intended to describe a platform flatbed body with toolboxes, crane and a welder
- 3.2 Specifications:
 - 3.2.1 Flatbed 15' Long, 96" Wide
 - 3.2.2 3/16" Steel Smooth Deck
 - 3.2.3 6" Channel Longsills
 - 3.2.4 4" Channel crossMembers on 16" Centers
 - 3.2.5 Gusset on each crossmember
 - 3.2.6 Non-skid material applied to floor before painting
- 3.3 Headboard contoured to chassis cab:
 - 3.3.1 Bottom section solid 1/8" smooth steel
 - 3.3.2 Top section top be expanded metal framed with 2" squared tubing
 - 3.3.3 Framed with 2" square tubing
 - 3.3.4 Headboard to be 2" higher than cab
- 3.4 Curb Side:
 - 3.4.1 Toolboxes:
 - 3.4.1.1 Two (2) each 48" x 18" x 18" toolboxes installed (Located to front behind headboard)
 - 3.4.1.2 One (1) 48" x 18" x 18" toolboxes (Located on top of bed)
 - 3.4.2 Oxygen/ Acetylene Storage Boxes:
 - 3.4.2.1 Installed right side front
 - 3.4.2.2 Steel construction
 - 3.4.2.3 Full opening door to front at box size 64" high x 24" wide x 28" deep
 - 3.4.2.4 Box vented

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 8: CAB & CHASSIS MOUNTED WITH PLATFORM/CRANE BODY (Continued):

3.0 PLATFORM BODY (CONTINUED):

- 3.4.2.5 Bottle storage rack for 13" acetylene bottle
- 3.4.2.6 10" oxygen
- 3.4.3 Electric Crane:
 - 3.4.3.1 Capacity 3,200 lbs
 - 3.4.3.2 Installed right rear corner
 - 3.4.3.3 One (1) each jack stand installed right rear corner
 - 3.4.3.4 Reinforce rear springs to accommodate crane (if required)
 - 3.4.3.5 Power Hoist
 - 3.4.3.6 Elevation
 - 3.4.3.7 Rotation
 - 3.4.3.8 Extension up to 11'
 - 3.4.3.9 Manual boom extension up to 15'
- 3.4.4 Rear Storage:
 - 3.4.4.1 Broom, Shovel Storage
 - 3.4.4.2 Expanded metal installed between frame rails of truck
 - 3.4.4.3 Minimum height at 10" high
 - 3.4.4.4 Rear access door with locking twist hasp at 6' deep
- 3.5 Street Side:
 - 3.5.1 Toolboxes
 - 3.5.1.1 Four (4) each 48" x 18" x 18" toolboxes installed as follows (Left side behind headboard front to rear;
 - 3.5.1.2 Boxes stacked)
 - 3.5.1.3 Underbody toolbox installed ahead of rear axle (Box installed on left side behind fuel tank)
 - 3.5.2 Welder Miller Trailblazer Model 302 (Stock No. 907216)
 - 3.5.2.1 Install welder on left rear weld bolts to prevent removal
 - 3.5.2.2 100' ground cable
 - 3.5.2.3 100' welding cable
 - 3.5.2.4 Clamps included
 - 3.5.2.5 Twin Reel Craft reels
 - 3.5.3 Storage Bins
 - 3.5.3.1 Two (2) Pak Rat Storage Bins (Weather Guard 308-3)
 - 3.5.3.2 Two (2) Pak Rat Storage Bins (Weather Guard 338-3)
 - 3.5.3.3 Stacked inside load space
 - 3.5.3.4 Anchor bins together and on the floor
 - 3.5.4 Water Cooler Holder
 - 3.5.4.1 2-5 Gallon Capacity
- 3.6 Rear Step Bumper 8" Wide:
 - 3.6.1 Skirted rear step bumper with pintle hook recess
 - 3.6.2 Heavy-duty mechanics vise right side of bumper
 - 3.6.3 Pintle hitch reinforced to Tow 16,000-lbs
 - 3.6.4 2" Ball Hitch combination pintle hitch
 - 3.6.5 Hitch at 22" from ground to center of hitch
 - 3.6.6 Electric brake controller installed
 - 3.6.7 6-way electric connector
- 3.7 Included Equipment
 - 3.7.1 All lights and reflectors to FMVSS requirements
 - 3.7.2 Conspicuity tape as required
 - 3.7.3 Body painted black

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 8: CAB & CHASSIS MOUNTED WITH PLATFORM/CRANE BODY (Continued):

3.0 PLATFORM BODY (CONTINUED):

- 3.7.4 Mud flaps
- 3.7.5 All toolboxes to be keyed alike and have door chains
- 3.7.6 Back Up Alarm

4.0 LITERATURE:

- 4.1 Manuals to be furnished upon delivery of equipment:
- 4.2 Two (2) complete sets of factory service shop repair manuals (Technical Service Manuals)
- 4.3 Two (2) complete sets of factory parts manuals
- 4.4 Two (2) complete sets of operators' manuals

5.0 TRAINING:

- 5.1 Supplier will provide two (2) two-hour operators training and two (2) two-hour technical training at designated City facility.

6.0 WARRANTIES:

- 6.1 Cab & Chassis:
 - 6.1.1 Services, Towing to 60-month/100,000 miles, 3600 hours; service call to the vehicle or towing to the nearest dealership for a non-drivable unit in conjunction with an warrantable failure; \$250 (USA) maximum benefit per incident
 - 6.1.2 Service Contract, Extended Vehicle Coverage to 60-month/100,000 miles; with 90-day towing; covers 100% of parts and labor, excludes extending warranty for engine, transmission, frame side rails, paint, perforation or corrosion of cab/cowl structure
 - 6.1.3 Service Contract, Extended Engine to 60-month/100,000 miles, 3600 hours; includes engine, engine electronics and injectors; for MaxxFace DT engine
- 6.2 Body:
 - 6.2.1 Manufacture's Standard Warranty
- 6.3 Transmission:
 - 6.3.1 Extended warranty on Allison Transmission 2 year

7.0 DELIVERY:

- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered prepaid F.O.B. destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston purchase order.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 9: CREW CAB & CHASSIS MOUNTED WITH A CHIPPER DUMP BODY
PR No. 10111102

1.0 GENERAL:

- 1.1 The intent of these specifications is to provide and furnish a crew cab and chassis mounted with a chipper dump body to the City of Houston Parks and Recreation Department.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with a crew cab chipper dump body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily

2.0 CAB & CHASSIS:

- 2.1 General:
 - 2.1.1 GVWR-33,000-lbs
 - 2.1.2 2011 International 4300 SBA 4X2 (MA025)
 - 2.1.3 Cab, conventional 6-man crew cab
 - 2.1.4 Heater hoses silicone
 - 2.1.5 Driver seat (National 2000) air suspension mid back, vinyl, with 2 position front cushion adjustments, -3 to +14 degree seat back adjustment
 - 2.1.6 Seat, Two-Man passenger; with two integral headrest, vinyl, less under seat storage compartment
 - 2.1.7 Rear seat bench full width, vinyl with fixed back and two integral outboard headrest
 - 2.1.8 Mirrors (2) rectangular, 7.44" x 14.84", brackets breakaway type, with 102" spacing, with 7.44" sq convex both sides, with black heads, brackets and arms
 - 2.1.9 Air conditioner with integral heater and defroster
 - 2.1.10 Mirror, convex, hood mounted (2) (Lang Merka) for left and right sides 7.44" sq.
 - 2.1.11 Cab rear suspension air bag type
 - 2.1.12 Model 4300 SBA 4X2 with 217.00 Wheelbase, 106.00 CA, and 63.00 Axle to Frame
 - 2.1.13 Tow Hook, front (2) frame mounted
 - 2.1.14 Frame rails heat treated alloy steel (120,000 PSI yield); 10.250" X 3.610" X 0.375" ; 456.0" maximum OAL
 - 2.1.15 Axle, front non-driving I-beam type, 12,000-lb capacity
 - 2.1.16 Suspension, front, spring parabolic, taper leaf; 12,000-lb capacity; with shock absorbers
 - 2.1.17 Steering column tilting
 - 2.1.18 Power steering gear
 - 2.1.19 Paint white
 - 2.1.20 Axle, rear, single reduction, 21,000-lb capacity, Hypoid gearing with 200 wheel ends gear ratio: 6.50
 - 2.1.21 Axle, rear, lube Synthetic oil
 - 2.1.22 Suspension, RR, spring, single vair-rate; 23,500-lb capacity, with 4500-lb auxiliary rubber spring
 - 2.1.23 Wheels, front disc; 22.5 painted steel white
 - 2.1.24 Wheels, rear dual disc; 22.5 painted steel white
 - 2.1.25 Wheel seals, front for oil lubricated wheel bearings
 - 2.1.26 Wheel bearing, front, lube synthetic oil
 - 2.1.27 2 Front tires 11R22.5 G395 LHS Fuel Max (Goodyear) 504 rev/mile, load range G, 14 ply or City approved equal
 - 2.1.28 4 Rear tires 11R22.5 G182 RSD (Goodyear) 496 rev/mile, load range G, 14 ply or City approved equal
 - 2.1.29 Aluminum tank, 50 US Gal

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 9: CREW CAB & CHASSIS MOUNTED WITH A CHIPPER DUMP BODY (Continued):

2.0 CAB & CHASSIS (Continued):

2.2 Engine:

- 2.2.1 Engine, diesel 215hp, 560 lb-ft torque@1300 RPM
- 2.2.2 Fan drive (Horton Drivemaster) "two speed" direct drive, with residual torque device for disengaged fan speed or City approved equal
- 2.2.3 Radiator aluminum; with in tank transmission cooler
- 2.2.4 Exhaust system single, horizontal, after treatment device, frame mounted right side back of cab, horizontal tail pipe
- 2.2.5 Transmission, Automatic (Allison 3000_RDS_P) 4th generation controls; close ratio, 5 speed, with overdrive; on/off hwy; includes oil level sensor, with PTO provision, less retarder, with 80,000-lb GVW and GCW Max 2.2.5 or City approved equal
- 2.2.6 Transmission shift control (Allison) push-button type; for Allison 3000 and 4000 series transmissions
- 2.2.7 Shift Control Parameters Allison economy programming in secondary and performance programming in primary
- 2.2.8 Transmission oil Synthetic
- 2.2.9 Allison spare input/output for rugged duty series (RDS)

2.3 Electrical:

- 2.3.1 Electrical system, 12 volt
- 2.3.2 Cigar Lighter
- 2.3.3 Alternator 12 volt 120 amp.
- 2.3.4 Body builder wiring under extended cab at left frame, includes sealed connectors for tail/amber turn/marker/backup/accessory power/ground and sealed connector for stop/turn
- 2.3.5 Battery system maintenance free (2) 12-volt 1300CCA batteries
- 2.3.6 Stop, turn, tail and B/U lights (Truck Lite) Supper 44, with LED lamps for stop, turn, and tail lights and Truck Lite Super 40 lamps for backup lights, less power module, less rubber mount, includes rear reflectors
- 2.3.7 Electric Trailer Brake/Lights accommodation package to rear of frame; for separate trailer stop, tail, turn, marker light circuits; Includes electric trailer brake accommodation package with cab connections for mounting customer installed electric brake unit, less trailer socket
- 2.3.8 Windshield wiper speed control
- 2.3.9 Headlights halogen, includes daytime running lights
- 2.3.10 Clearance/marker lights (5) (Truck Lite) amber LED lights, flushed mounted on cab or sunshade
- 2.3.11 Headlights on w/wipers, headlights automatically turn on when wipers are turned on
- 2.3.12 Starter Motor (heavy duty) 12 volt; gear reduced. with thermal over-crank protection
- 2.3.13 Indicator for low coolant level with audible alarm
- 2.3.14 Throttle, hand control engine speed control; electronic, stationary, variable speed, mounted on steering wheel
- 2.3.15 Engine control, remote mounted provision furnished to remote mount engine control for body builder
- 2.3.16 Circuit breakers manual reset (main panel) SAE Type III with trip indicators, replaces all fuses except for 5 amp fuses
- 2.3.17 Gauge, oil temp Allison Tran or City approved equal

2.4 Brakes:

- 2.4.1 Brake system, air dual system for straight truck applications
- 2.4.2 Air brake ABS (Bendix antilock brake system) full vehicle wheel control system (4-channel) with automatic traction control or City approved equal
- 2.4.3 Air dryer (Bendix AD-9) with heater or City approved equal
- 2.4.4 Front brakes, air cam S-Cam; 16.5"x5.0" includes 20 SqIn. long stroke brake chambers
- 2.4.5 Rear brakes, air cam 16.5"x7.0" includes 30/30 long stroke brake chamber and heavy duty spring actuated parking brake
- 2.4.6 Air compressor (Bendix tu-flo 550) 13.2 CFM capacity or City approved equal

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 9: CREW CAB & CHASSIS MOUNTED WITH A CHIPPER DUMP BODY (Continued):

3.0 CHIPPER BODY:

3.1 General:

- 3.1.1 Manufactures Reference: Southco Heavy Duty MP-1472 Multipurpose Body or City approved equal. Contact Jim Neal jim.neal@southcoindustries.com 1-800-331-7655
- 3.1.2 "L" Design: 14' x 92" x 72" high
- 3.1.3 "L" Cross box w/(2) underbody tool boxes
- 3.1.4 (2) Section 11' long x 30" high removable top
- 3.1.5 42" high 10 gauge (Stationary) sides w/tubing top rails reinforcement
- 3.1.6 Omaha 625 Hydraulic Hoist
- 3.1.7 Hitch (Heavy Duty Pintle)
- 3.1.8 6-Pole connector
- 3.1.9 Electric brake control
- 3.1.10 Color White
- 3.1.11 LED Lighting and 4 point strobe system
- 3.1.12 Wheel chocks and holders
- 3.1.13 Electric Shift PTO for Automatic Transmission
- 3.1.14 3/16' floor w/cross sills on 12" centers
- 3.1.15 Standard Warranty

4.0 LITERATURE:

- 4.1 Manual to be furnished upon delivery of equipment:
- 4.2 Two (2) complete sets of factory service shop repair manuals (Technical Service Manuals)
- 4.3 Two (2) complete sets of factory parts manuals
- 4.4 Two (2) complete sets of operators' manuals

5.0 WARRANTIES:

5.1 Cab & Chassis:

- 5.1.1 Extended warranty 5 years entire truck excluding chipper dump body.
- 5.1.2 Services, Towing to 60-month/100,000 miles, 3600 hours; service call to the vehicle or towing to the nearest dealership for a non-drivable unit in conjunction with an warrantable failure; \$250 (USA) maximum benefit per incident
- 5.1.3 Service Contract, Extended Vehicle Coverage to 60-month/100,000 miles; with 90-day towing; covers 100% of parts and labor, excludes extending warranty for engine, transmission, frame side rails, paint, perforation or corrosion of cab/cowl structure
- 5.1.4 Service Contract, Extended Engine to 60-month/100,000 miles, 3600 hours; includes engine, engine electronics and injectors; for MaxxFORCE DT engine
- 5.1.5 Allison Extended Warranty

5.2 Chipper Body:

- 5.2.1 Manufacturer's standard warranty

6.0 TRAINING:

- 6.1 Supplier will provide two (2) two-hour operators training and two (2) two-hour technical training at designated City facility.

7.0 DELIVERY AND INSPECTION:

- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.
- 7.2 Unit(s) shall have full tank of fuel, clean and shall be complete with all equipment operable at time of delivery/ inspection.
- 7.3 Unit(s) shall be accompanied with a copy of the original invoice, warranty and/or Certificates as may be required.

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

**ITEM NO. 10: CAB & CHASSIS MOUNTED WITH DUMP TRUCK BODY
PR No. 10111105**

1.0 GENERAL:

- 1.1 The intent of these specifications is to provide and furnish cab & chassis mounted with dump body to the City of Houston Parks and Recreation Department. Manufacturer's Reference: SBA 6X4 (SF625) or City approved equal.
- 1.2 Prime Contractor/Supplier:
 - 1.2.1 These specifications require the bidder to be a prime contractor/supplier and to bid on the cab & chassis mounted with the dump truck body.
- 1.3 Equivalent Equipment:
 - 1.3.1 Bidders proposing to provide equipment they believe to be equal to the specified model must provide sufficient operating and technical specifications for the City to evaluate the proposed equipment.
- 1.4 Equivalent Equipment Documentation:
 - 1.4.1 A bidder proposing to provide equivalent to the specified model must be able to demonstrate upon request that it has manufactured a vehicle similar to the unit bid, and that the vehicle has been proven and tested in service satisfactorily. The bidder will provide records of warranty service repairs upon request. The City of Houston shall be the sole judge whether the vehicle in service similar to the unit bid has been proven and tested satisfactorily

2.0 CAB & CHASSIS:

- 2.1 General:
 - 2.1.1 GVWR -62,000-lbs
 - 2.1.2 2011 International 7400 Model 7400 SBA 6X4
 - 2.1.3 181.00" Wheelbase,
 - 2.1.4 113.90" CA
 - 2.1.5 63.00 Axle to Frame
 - 2.1.6 Tow Hook, front (2) frame mounted
 - 2.1.7 Frame rails heat treated alloy steel (120,000 PSI yield); 10.866" X 3.622" X 0.433"; 456.0" maximum OAL
 - 2.1.8 Frame addition, front 1" integral
 - 2.1.9 Axle, front non-driving, wide track, I-beam type, 16,000-lb capacity
 - 2.1.10 Suspension, front, spring multileaf, shackle type; 16,000-lb capacity
 - 2.1.11 Power steering gear (2) dual power
 - 2.1.12 Paint schematic white
 - 2.1.13 Axle, rear, Tandem (Meritor RT-46-164EH), single reduction, 46,000-lb capacity, 200 wheel ends
 - 2.1.14 Gear ratio: 6.14
 - 2.1.15 Axle, rear, lube Synthetic oil
 - 2.1.16 Suspension, Rear, Tandem (Hendrickson HMX-460-54) Walking Beam Type 54" axle spacing; 46,000-lb capacity, with rubber end bushings, Transverse torque rods
 - 2.1.17 Wheels, front disc; 22.5 painted steel white, 9.0" DC rims
 - 2.1.18 Wheels, rear dual disc; 22.5 painted steel white, 8.25" DC rims
 - 2.1.19 2 Front tires 315/80R22.5 HSU2 481 rev/mile, load range L, 20 ply or City approved equal
 - 2.1.20 8 Rear tires 11R22.5 HDR1 495 rev/mile, load range G, 14 ply or City approved equal
 - 2.1.21 Fuel tank top draw; aluminum, 50 US Gal
 - 2.1.22 Heater hoses silicone
 - 2.1.23 Driver seat (National 2000) air suspension high back with integral headrest, vinyl, isolator, 1 chamber lumbar, 2 position front cushion adjustments, -3 to +14 degree seat back adjustment
 - 2.1.24 Seat, passenger; non suspension, high back fixed integral headrest vinyl
 - 2.1.25 Mirrors two (2) rectangular, 7.44" x 14.84", brackets breakaway type, with 102" spacing, with 7.44" sq convex both sides, with black heads, brackets and arms
 - 2.1.26 Air conditioner with integral heater and defroster
 - 2.1.27 Cab interior trim deluxe
 - 2.1.28 Cab rear suspension air bag type

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 10: CAB & CHASSIS MOUNTED WITH DUMP TRUCK BODY

2.0 CAB & CHASSIS (Continued):

2.2 Engine:

- 2.2.1 Engine, diesel 285hp, 860 lb-ft torque@1300 RPM, 2400 RPM governed speed,
- 2.2.2 Fan drive Viscous Type
- 2.2.3 Radiator aluminum; includes transmission oil cooler
- 2.2.4 Exhaust system single
- 2.2.5 Transmission, Automatic (Allison 3000_RDS_P) 4th generation controls; close ratio, 5 speed, with overdrive; on/off hwy; includes oil level sensor, with PTO provision, less retarder, with 80,000-lb GVW and GCW Max
- 2.2.6 Transmission shift control (Allison) push-button type; for Allison 3000 and 4000 series transmissions
- 2.2.7 Shift Control Parameters Allison load based shift schedules
- 2.2.8 Transmission oil Synthetic
- 2.2.9 Allison spare input/output for rugged duty series (RDS)

2.3 Electrical:

- 2.3.1 Electrical system, 12 volt
- 2.3.2 Cigar Lighter
- 2.3.3 Alternator 12 volt 120 amp.
- 2.3.4 Body builder wiring under standard cab at left frame, includes sealed connectors for tail/amber turn/marker/backup/accessory power/ground and sealed connector for stop/turn
- 2.3.5 Battery system maintenance free (2) 12-volt 1300CCA batteries
- 2.3.6 Stop, turn, tail and B/U lights (Truck Lite) Supper 44, with LED lamps for stop, turn, and tail lights and Truck Lite Super 40 lamps for backup lights, less power module, less rubber mount, includes rear reflectors
- 2.3.7 Backup alarm 102dba
- 2.3.8 Horn is air operated
- 2.3.9 Battery disconnect switch
- 2.3.10 Headlights halogen
- 2.3.11 Clearance/marker lights (5) (Truck Lite) amber LED lights, flushed mounted on cab or sunshade
- 2.3.12 Starter Motor (heavy duty) 12 volt; less thermal over-crank protection
- 2.3.13 Indicator for low coolant level with audible alarm
- 2.3.14 Throttle, hand control engine speed control; electronic, stationary, variable speed, mounted on steering wheel
- 2.3.15 Engine control, remote mounted no provision furnished to remote mount engine control
- 2.3.16 IP cluster display on board diagnostics displays fault codes in gauge cluster
- 2.3.17 Circuit breakers manual reset (main panel) SAE Type III with trip indicators, replaces all fuses except for 5 amp fuses
- 2.3.18 Alarm for Parking Brake

2.4 Brakes:

- 2.4.1 Brake system, air dual system for straight truck applications
- 2.4.2 Air Tank drain valve, manual
- 2.4.3 Air brake ABS (Bendix antilock brake system) full vehicle wheel control system (4-channel)
- 2.4.4 Air dryer (Bendix AD-9) with heater
- 2.4.5 Front brakes, air cam S-Cam; 16.5"x5.0" includes 20 Sq.In. long stroke brake chambers
- 2.4.6 Rear brakes, air cam 16.5"x7.0" includes 30/30 long stroke brake chamber and heavy duty spring actuated parking brake
- 2.4.7 Air compressor (Bendix tu-flo 550) 13.2 CFM capacity

SECTION B PART II TECHNICAL SPECIFICATIONS (CONTINUED):

ITEM NO. 10: CAB & CHASSIS MOUNTED WITH DUMP TRUCK BODY

3.0 DUMP BODY:

3.1 General:

- 3.1.1 Manufactures Reference: Warren Dump Body FL-16 or City approved equal
- 3.1.2 Dump body frameless-16ft.
- 3.1.3 Yardage 21/21
- 3.1.4 Floor Material AR450 3/16 in
- 3.1.5 Front and side material is 10GA A1011 material, 60 inch in height
- 3.1.6 Horizontal bracing
- 3.1.7 Cylinder hoist is CF-5363T
- 3.1.8 Tailgate is barn door style, 3 latch with center opening
- 3.1.9 Tailgate material to be 10GA A1011, 60 inches in height
- 3.1.10 All lighting to be LED
- 3.1.11 Hydraulic tank is 40 gallon side mounted
- 3.1.12 Hydraulic pump to pump 35 gal w/air shift CCW (400-80259)
- 3.1.13 Console Air/Air
- 3.1.14 Mud flaps and brackets
- 3.1.15 Tarp system installed, 90"X18" mesh with aero hand crank, chain drive
- 3.1.16 PTO option for automatic transmission

4.0 LITERATURE:

- 4.1 Manual to be furnished upon delivery of equipment:
- 4.2 Two (2) complete sets of factory service shop repair manuals (Technical Service Manuals)
- 4.3 Two (2) complete sets of factory parts manuals
- 4.4 Two (2) complete sets of operators' manuals

5.0 WARRANTY:

5.1 Cab & Chassis:

- 5.1.1 Services, Towing to 60-month/100,000 miles, 3600 hours; service call to the vehicle or towing to the nearest dealership for a non-drivable unit in conjunction with an warrantable failure; \$250 (USA) maximum benefit per incident
- 5.1.2 Service contract, extended to 60-month/100,000 miles, 3600 hours; includes engine, engine electronics and injectors; for MaxxForce DT engine
- 5.1.3 Extended warranty 5 years entire truck excluding dump body.
- 5.1.4 Allison Extended Warranty

5.2 Warren Trash Dump Body

- 5.2.1 12- Months after delivery to the original purchaser direct or by an authorized distributor.

6.0 TRAINING:

- 6.1 Supplier will provide two (2) two-hour operators training classes and two (2) two-hour technical training classes at designated City facility.

7.0 DELIVERY:

- 7.1 The item(s) specified above, with delivery tickets and/or other required documents shall be delivered Prepaid F.O.B. Destination to the location(s) shown on the purchase order(s) one hundred eighty (180) calendar days from receipt of the City of Houston Purchase Order.

SECTION C

GENERAL TERMS AND CONDITIONS

1.0 **COMPETITIVE BIDDING:**

It is the intent of the City of Houston to solicit the lowest and best responsible bid or price under competitive conditions. All materials and/or equipment shall be new unless stated otherwise. Prospective bidders are advised that the specifications within this bid invitation are not to be considered restricted to any referenced manufacturer.

2.0 **AWARD:**

- 2.1 The City reserves the right to consider and make awards of bids on articles of similar nature that will in all respects serve the purpose for which the purchase is being made. The City reserves the right to be the sole judge as to whether such articles will serve the purpose.
- 2.2 Unless otherwise specified, the City reserves the right to accept or reject in whole or in part any bid submitted or to waive any informalities that are in the best interests of the City.

3.0 **CONDITIONS PART OF BID:**

- 3.1 In the event of any conflict, the terms and provisions incorporated in the bid specifications shall control over the terms and provisions of the General Terms & Conditions for any or all purposes. Otherwise, all the terms and provisions appearing within the General Terms & Conditions shall be given full effect and shall be construed in harmony to the maximum extent by the parties hereto.
- 3.2 The failure of the City to insist, in any one or more instances, upon performance of any of the terms, covenants or conditions of this Contract (Purchase Order), General Terms & Conditions or Specifications shall not be construed as a waiver or relinquishment of the future performance of such term, covenant or condition by the City, but the obligation of the Prime Contractor/Supplier with respect to such future performance shall continue in full force and effect.

4.0 **SHIPPING TERMS:**

Prices shall be prepaid F.O.B. destination to the delivery locations, Houston, TX, as indicated on individual City of Houston purchase orders. Prime Contractor/Supplier shall retain title and control of all goods until they are delivered and the contract of coverage (Purchase Order) has been completed. All risk of transportation and all related charges shall be the responsibility of the Prime Contractor/Supplier. All claims for visible or concealed damage shall be filed by the Prime Contractor/Supplier. The City will notify the Prime Contractor/Supplier promptly of any damaged goods and shall assist the Prime Contractor/Supplier in arranging for inspection.

5.0 **SILENCE OF SPECIFICATIONS:**

The apparent silence of these specifications as to any detail or the apparent omission from them of a detailed description concerning any point shall be regarded as meaning that only the best commercial practice shall prevail and only materials and workmanship of first quality are acceptable. All interpretations of these specifications shall be made upon the basis of this statement.

6.0 **SPECIFIED EQUIPMENT, OR EQUIVALENT:**

- 6.1 Wherever in the specifications any materials or processes are indicated or specified by patent of proprietary name and/or by name of manufacturer, such specifications shall be deemed to be used for the purpose of facilitating descriptions of the performance, materials and/or processes desired and shall be deemed to be followed by the words, "or equivalent", if not so stated in the specifications herein.
- 6.2 The burden of proof shall rest with the bidder, in the course of a technical evaluation, to prove that the proposed item(s) are equivalent to the performance, materials, processes, or articles specified.
DETERMINATION AS TO WHETHER THE ITEM(S) BID IS(ARE) EQUIVALENT TO THOSE SPECIFIED SHALL REST SOLELY WITH THE CITY PURCHASING AGENT AND THE RECEIVING DEPARTMENT.

GENERAL TERMS & CONDITIONS: (CONTINUED)

7.0 BRAND NAMES:

Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing the general quality level, design and performance desired. Such references are not intended to limit or restrict bidding by other Prime Contractor/Suppliers, but are intended to approximate the quality design or performance that is desired. Any bid that proposes like quality, design or performance, will be considered. Equivalent products will be considered, provided a complete description and product literature is provided. Unless a specific substitution is made, the assumption will be that the item bid is exactly as specified on the Invitation to Bid.

8.0 PATENTS:

THE PRIME CONTRACTOR/SUPPLIER AGREES TO INDEMNIFY AND SAVE HARMLESS THE CITY, ITS AGENTS EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE "CITY") FROM ALL SUITS AND ACTIONS OF EVERY NATURE AND DESCRIPTION BROUGHT AGAINST THEM OR ANY OF THEM, FOR OR ON ACCOUNT OF THE USE OF PATENTED APPLIANCES, PRODUCTS OR PROCESSES, AND IT SHALL PAY ALL ROYALTIES AND CHARGES WHICH ARE LEGAL AND EQUITABLE. EVIDENCE OF SUCH PAYMENT OR SATISFACTION SHALL BE SUBMITTED, UPON REQUEST OF THE CITY PURCHASING AGENT, AS A NECESSARY REQUIREMENT IN CONNECTION WITH THE FINAL ESTIMATE FOR PAYMENT IN WHICH SUCH PATENTED APPLIANCE, PRODUCTS OR PROCESSES ARE USED.

9.0 RELEASE:

PRIME CONTRACTOR/SUPPLIER AGREES TO AND SHALL RELEASE THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE "CITY") FROM ALL LIABILITY FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THIS AGREEMENT, EVEN IF THE INJURY, DEATH, DAMAGE, OR LOSS IS CAUSED BY THE CITY'S SOLE OR CONCURRENT NEGLIGENCE AND/OR THE CITY'S STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY.

10.0 INDEMNIFICATION:

10.1 PRIME CONTRACTOR/SUPPLIER AGREES TO AND SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY, ITS AGENTS, EMPLOYEES, OFFICERS, AND LEGAL REPRESENTATIVES (COLLECTIVELY THE "CITY") HARMLESS FOR ALL CLAIMS, CAUSES OF ACTION, LIABILITIES, FINES, AND EXPENSES (INCLUDING, WITHOUT LIMITATION, ATTORNEYS' FEES, COURT COSTS, AND ALL OTHER DEFENSE COSTS AND INTEREST) FOR INJURY, DEATH, DAMAGE, OR LOSS TO PERSONS OR PROPERTY SUSTAINED IN CONNECTION WITH OR INCIDENTAL TO PERFORMANCE UNDER THIS AGREEMENT INCLUDING, WITHOUT LIMITATION, THOSE CAUSED BY:

- (1) PRIME CONTRACTOR/SUPPLIER'S AND/OR ITS AGENTS', EMPLOYEES', OFFICERS', DIRECTORS', CONTRACTORS', OR SUBCONTRACTORS' (COLLECTIVELY IN NUMBERED PARAGRAPHS 1-3, "PRIME CONTRACTOR/SUPPLIER") ACTUAL OR ALLEGED NEGLIGENCE OR INTENTIONAL ACTS OR OMISSIONS;**
- (2) THE CITY'S AND PRIME CONTRACTOR/SUPPLIER'S ACTUAL OR ALLEGED CONCURRENT NEGLIGENCE, WHETHER PRIME CONTRACTOR/SUPPLIER IS IMMUNE FROM LIABILITY OR NOT; AND**
- (3) THE CITY'S AND PRIME CONTRACTOR/SUPPLIER'S ACTUAL OR ALLEGED STRICT PRODUCTS LIABILITY OR STRICT STATUTORY LIABILITY, WHETHER PRIME CONTRACTOR/SUPPLIER IS IMMUNE FROM LIABILITY OR NOT.**

10.2 PRIME CONTRACTOR/SUPPLIER SHALL DEFEND, INDEMNIFY, AND HOLD THE CITY HARMLESS DURING THE TERM OF THIS AGREEMENT AND FOR FOUR YEARS AFTER THE AGREEMENT TERMINATES. PRIME CONTRACTOR/SUPPLIER'S INDEMNIFICATION IS LIMITED TO \$500,000 PER OCCURRENCE. PRIME CONTRACTOR/SUPPLIER SHALL NOT INDEMNIFY THE CITY FOR THE CITY'S SOLE NEGLIGENCE.

GENERAL TERMS & CONDITIONS: (CONTINUED)

10.0 INDEMNIFICATION: (Continued)

10.3 INDEMNIFICATION PROCEDURES:

- (1) **Notice of Claims.** If the City or Prime Contractor/Supplier receives notice of any claim or circumstances which could give rise to an indemnified loss, the receiving party shall give written notice to the other party within 10 days. The notice must include the following:
 - (a) a description of the indemnification event in reasonable detail,
 - (b) the basis on which indemnification may be due, and
 - (c) the anticipated amount of the indemnified loss.

This notice does not estop or prevent the City from later asserting a different basis for indemnification or a different amount of indemnified loss than that indicated in the initial notice. If the City does not provide this notice within the 10 day period, it does not waive any right to indemnification except to the extent that Prime Contractor/Supplier is prejudiced, suffers loss, or incurs expense because of the delay.

- (2) **Defense of Claims**

- (a) **Assumption of Defense.** Prime Contractor/Supplier may assume the defense of the claim at its own expense with counsel chosen by it that is reasonably satisfactory to the City. Prime Contractor/Supplier shall then control the defense and any negotiations to settle the claim. Within 10 days after receiving written notice of the indemnification request, Prime Contractor/Supplier must advise the City as to whether or not it will defend the claim. If Prime Contractor/Supplier does not assume the defense, the City shall assume and control the defense, and all defense expenses constitute an indemnification loss.

- (b) **Continued Participation.** If Prime Contractor/Supplier elects to defend the claim, the City may retain separate counsel to participate in (but not control) the defense and to participate in (but not control) any settlement negotiations. Prime Contractor/Supplier may settle the claim without the consent or agreement of the City, unless it (i) would result in injunctive relief or other equitable remedies or otherwise require the City to comply with restrictions or limitations that adversely affect the City, (ii) would require the City to pay amounts that Contractor does not fund in full, (iii) would not result in the City's full and complete release from all liability to the plaintiffs or claimants who are parties to or otherwise bound by the settlement.

11.0 INSURANCE: (See Exhibit No. 2, Sample of Certificate of Insurance)

11.1 Prior to award and/or starting work, Prime Contractor/Supplier must present a Certificate of Insurance evidencing the insurance coverage specified herein. **This is a mandatory requirement.** Only unaltered, original insurance certificates are acceptable. Photocopies are unacceptable.

***Exception:** Proof of insurance coverage **is not required** by Prime Contractor/Supplier if the specified equipment will be dropped-shipped by manufacturer, or delivered by a common carrier, and this contract agreement (Purchase Order) **does not require** Prime Contractor/Supplier to perform a labor or service component at a City facility. Prior to award, Prime Contractor/Supplier must present a written statement attesting to this exception.

11.2 The Prime Contractor/Supplier shall have insurance coverage as follows:

- **Commercial General Liability** shall be \$500,000 per occurrence; \$1,000,000 aggregate, per 12-month policy period.

GENERAL TERMS & CONDITIONS : (CONTINUED)

11.0 INSURANCE: (Continued)

- **Automobile Liability Insurance for autos furnished or used in the course of performance of this Contract (Purchase Order), including Owned, Non-Owned, and Hired auto coverage.** (Any Auto coverage may be substituted for Owned, Non-Owned and Hired Auto coverage.) If no autos are owned by Prime Contractor/Supplier, coverage may be limited to Non-Owned and Hired Autos. If Owned Auto coverage cannot be purchased by Prime Contractor/Supplier, Scheduled Auto coverage may be substituted for Owned Auto coverage. **EACH AUTO USED IN PERFORMANCE OF THIS CONTRACT (PURCHASE ORDER) MUST BE COVERED IN THE LIMITS SPECIFIED: \$1,000,000 - Combined Single Limit per occurrence; \$1,000,000 aggregate, per 12-month policy period.**
- **Worker's Compensation including Broad Form All States endorsement shall be in statutory amount and**
- **Employer's Liability:** Bodily Injury/Accident \$100,000; Bodily Injury / Disease \$100,000 (per employee); Bodily Injury / Disease \$100,000 (policy limit).

11.3 The issuer of any policy (1) shall have a Certificate of Authority to transact insurance business in the State of Texas, or (2) shall be an eligible non-admitted insurer in the State of Texas, and shall have a Best's rating of B+ or better and a Best's Financial Size Category of Class VI or better, according to the most current edition of Best's Key Rating Guide.

11.4 All insurance policies required by this Contract (Purchase Order) shall require that 1) the City of Houston is named as an additional insured on the General Liability, Auto Liability and any Umbrella policies; 2) waiver of subrogation is provided for the City of Houston on General Liability, Auto Liability, any Umbrella policies, and Worker's Compensation; and 3) thirty (30) days advance written notice shall be provided **by the Prime Contractor/Supplier** to the City before any policy required by this Contract (Purchase Order) is cancelled or non-renewed. Within such thirty (30) day period, Prime Contractor/Supplier covenants that it will provide other suitable policies in lieu of those about to be cancelled or non-renewed to maintain in effect the coverage required under the provisions hereof. Failure or refusal of the Prime Contractor/Supplier to obtain and keep in force the above-required insurance coverage shall authorize the City, at its option, to terminate this Contract (Purchase Order) at once.

11.5 **REQUIREMENTS FOR CERTIFICATE OF INSURANCE:**

- 11.5.1 Name and Address of Producer writing coverage.
- 11.5.2 Name of each insurance company providing coverage (as listed or on company's Certificate of Authority on file with the Texas Department of Insurance, or in Best's Key Rating Guide).
- 11.5.3 Name and address of Insured (as shown on policy).
- 11.5.4 Letter in the column must reference the insurer of the policy being described.
- 11.5.5 Must be a policy number; no binders will be accepted.
- 11.5.6 Date policy became effective.
- 11.5.7 Expiration date of policy must be at least 30 days from date of delivery of certificate.
- 11.5.8 Name and file number of project (Bid Name and Bid Number).
- 11.5.9 Name of project manager (Buyer).
- 11.5.10 Signature or facsimile signature of authorized representative of Producer (blue ink preferred).

**FORWARD CERTIFICATE TO BUYER AT: City of Houston/Administration & Regulatory Affairs Department
Strategic Purchasing Division
P.O. Box 1562
Houston, Texas 77251-1562**

GENERAL TERMS & CONDITIONS: (CONTINUED)

12.0 DRUG DETECTION AND DETERRENCE PROCEDURE: (See Online Forms)

- 12.1 It is the policy of the City to achieve a drug-free workforce and to provide a workplace that is free from the use of illegal drugs and alcohol. It is also the policy of the City that the manufacture, distribution, dispensation, possession, sale or use of illegal drugs or alcohol by Prime Contractor/Suppliers while on City premises is prohibited. By executing this Contract (Purchase Order), Prime Contractor/Supplier represents and certifies that it meets and shall comply with all the requirements and procedures set forth in the Mayor's Policy on Drug Detection and Deterrence, City Council Motion No. 92-1971 ("Mayor's Policy") and the Mayor's Drug Detection and Deterrence Procedures for Contractors, Executive Order No. 1-31 ("Executive Order"), both of which are on file in the Office of the City Secretary.
- 12.2 Prime Contractor/Supplier shall provide, prior to execution of this Contract (Purchase Order) by the City, 1) a copy of its drug-free workplace policy, 2) the Drug Policy Compliance Agreement substantially in the format set forth in Attachment "A", 3) a written designation of all safety impact positions, or if applicable, Certification of No Safety Impact Positions substantially in the format set forth in Attachment "C", and 4) if a written designation of safety impact positions is filed, a declaration substantially in the format set forth in Attachment "B" shall be filed.
- 12.3 SAFETY IMPACT POSITION means a Prime Contractor/Supplier's employment position involving job duties that if performed with inattentiveness, errors in judgment, or diminished coordination, dexterity, or composure may result in mistakes that could present a real and/or imminent threat to the personal health or safety of the employee, co-workers, and/or the public.

13.0 MINORITY AND WOMEN BUSINESS ENTERPRISES: (See Online Forms)

These provisions apply to goal oriented Contracts (Purchase Orders). A goal oriented Contract (Purchase Order) means any Contract (Purchase Order) awarded for the supply of goods or non-professional services of approximately \$100,000.00 for which competitive bids are required by law and which the City Purchasing Agent has determined to have City of Houston Certified MWBE subcontracting potential.

Prime Contractor/Supplier agrees to comply with the City's Minority and Women Business Enterprise programs as set out in Chapter 15, Article V of the City of Houston Code of Ordinances insofar as such programs apply to this Contract (Purchase Order). Prime Contractor/Supplier further agrees that it will make good faith efforts to award subcontracts or supply agreements in at least 11% of the value of this Contract (Purchase Order) to Minority and Women-owned Business Enterprises certified by the City's Affirmative Action Division. In addition, Prime Contractor/Supplier acknowledges that it has reviewed the requirements for good faith efforts that are on file with the City's Affirmative Action Division, is familiar with such requirements, and will comply with them.

Prime Contractor/Supplier shall require written subcontracts with all MWBE subcontractors and suppliers, which must contain the terms set out in the documents attached herein. If Prime Contractor/Supplier is an individual person (as distinguished from a corporation, partnership, or other legal entity), and the amount of the subcontract is \$50,000 or less, then the subcontract must also be signed by the attorneys of the respective parties.

Refer to the "City of Houston Goal-Oriented Minority and Women Business Enterprises Contract Provisions" attachment, which is incorporated in the specifications herein by this reference for all purposes, for more detailed information on this requirement.

14.0 REJECTIONS:

- 14.1 Articles not in accordance with samples and specifications must be removed by the Prime Contractor/Supplier and at his expense. All disputes concerning quality of supplies delivered under this offer will be determined by the City Purchasing Agent or designated representative.
- 14.2 All articles enumerated in the offer shall be subject to inspection on delivery by an officer designated for the purpose and if found inferior to the quality called for, or not equal in value to the Department's samples, or deficient in weight, measurements, workmanship or otherwise, this fact shall be certified to the City Purchasing Agent who shall have the right to reject the whole or any part of the same.

GENERAL TERMS & CONDITIONS: (CONTINUED)

15.0 TAXES:

The City is exempt from the Federal Excise and Transportation Tax, and the limited Sales and Use Tax. Unless the Bid Form or Specifications specifically indicate otherwise, the bid price must be net exclusive of above-mentioned taxes. A Prime Contractor/Supplier desiring refunds of, or exemptions from, taxes paid on merchandise accepted by the City, must submit the proper forms, and the City Purchasing Agent, if satisfied as to the facts, may approve or issue the necessary certificates.

16.0 INVOICING:

16.1 In order to expedite payments all invoices must be submitted in triplicate, itemized as to quantity, part and/or model number, description in the same order and form as in the City of Houston Purchase Order. Variations will only delay payment. In addition, invoices must show the name of the Department, Division or Section to which the merchandise was delivered, and the City of Houston Purchase Order Number.

16.2 All delivery tickets must have a description of the item delivered.

16.3 Mail invoices and a copy of the signed City of Houston Equipment/Receiver Report to the Accounts Payable Section of the Department and to the address, as noted on individual purchase orders.

16.4 Delivery tickets and packing slips will contain the same information as the invoice.

16.5 The City of Houston Equipment/Receiver Report must be signed by the receiving employee with their City Employee Number and must be signed by Prime Contractor/Supplier Representative.

17.0 PAYMENT:

Payment is due thirty (30) days after the City has approved the invoice or after the City has accepted the equipment and all required documents, whichever occurs later. Invoices received that do not agree with the provisions set forth herein shall be returned for correction and will result in payment being delayed.

18.0 PAYMENT OF SUBCONTRACTORS:

Prime Contractor/Supplier shall make timely payments to all persons and entities supplying labor, materials or equipment for the performance of this Contract (Purchase Order). Prime Contractor/Supplier agrees to protect, defend, and indemnify the City from any claims or liability arising out of Contractor's/Supplier's failure to make such payments. (Disputes relating to payment of M/WBE subcontractors shall be submitted to arbitration in the same manner as any other disputes under the M/WBE subcontract. Failure of the Prime Contractor/Supplier to comply with the decisions of the arbitrator may be deemed, at the sole discretion of the City, a material breach leading to termination of this Contract (Purchase Order)).

19.0 INSPECTIONS AND AUDITS:

19.1 The City reserves all rights to review all payments made to Suppliers by auditing at a later date. Subject to such audit, any overpayments may be recovered from the Supplier.

19.2 City representatives may have the right to perform, or have performed, (1) audits of Supplier's books and records, and (2) inspections of all places where work is undertaken in connection with this Agreement. Supplier shall keep its books and records available for this purpose for at least three years after this Agreement terminates. This provision does not affect the applicable statute of limitations.

19.3 City representatives have the right to examine the books of all subcontractors and/or suppliers supplying goods and/or services under the prime (Purchase Order) insofar as those books and records relate to performance under the prime contract (Purchase Order).

20.0 CONTRACTOR DEBT:

If Prime Contractor/Supplier, at any time during the term of this agreement, incurs a debt, as the word is defined in Section 15-122 of the Houston City Code of Ordinances, it shall immediately notify the City Controller in writing. If the City Controller becomes aware that Prime Contractor/Supplier has incurred a debt, the City Controller shall immediately notify Prime Contractor/Supplier in writing. If Prime Contractor/Supplier does not pay the debt within 30 days of either such notification, the City Controller may deduct funds in an amount equal to the debt from any payments owed to Prime Contractor/Supplier under this agreement, and Prime Contractor/Supplier waives any recourse therefor.

21.0 SUCCESSORS & ASSIGNS:

Prime Contractor/Supplier may not assign this (Purchase Order) or dispose of substantially all of its assets without the written consent of the City Purchasing Agent. Prime Contractor/Suppliers failure to obtain such consent shall be an event of default, authorizing the Purchasing Agent to terminate this contract (Purchase Order) according to its terms.

GENERAL TERMS & CONDITIONS: (CONTINUED)

22.0 CHANGE ORDERS:

- 22.1 At any time during the Agreement Term, the City Purchasing Agent, or designated representative, may issue a change order to increase or decrease the scope of services, or change plans and specifications, as may be necessary to accomplish the general purposes of this Agreement. Prime Contractor/Supplier shall furnish the services or deliverables in the change order in accordance with the requirements of this Agreement plus any special provisions, specifications, or special instructions issued to execute the additional work.
- 22.2 Prime Contractor/Supplier shall not make any changes to the specifications contained herein without written authorization from the City Purchasing Agent or designated representative.
- 22.2.1 The City may refuse to accept all or part of the work performed or equipment/supplies delivered if changes are made to the specifications without the written authorization of the City Purchasing Agent or designated representative. The City shall not be responsible for costs incurred by the Prime Contractor/Supplier on unauthorized change orders.
- 22.2.2 A letter with supporting documentation of the requested change(s) shall be submitted to the City Purchasing Agent, and the City Purchasing Agent must approve any requested changes by written authorization PRIOR TO ANY CHANGES BEING PERFORMED. Documentation acceptable to the City Purchasing Agent as evidence of Prime Contractor/Supplier's change(s) shall reference the City's bid specification by section(s) and page number(s). The face of the envelope containing this letter shall clearly state "CHANGE ORDER REQUEST". The letter shall reference the CITY BID INVITATION NUMBER, EQUIPMENT DESCRIPTION and CITY PURCHASE ORDER NUMBER(S). Failure to provide clear and concise evidence as stated above and in the format requested will result in denial until Prime Contractor/Supplier complies with these provisions. Documentation shall be mailed to:

City Purchasing Agent
City of Houston, Administration & Regulatory Affairs Department
Strategic Purchasing Division
P. O. Box 1562
Houston, TX 77251-1562

- 22.3 The City Purchasing Agent, or designated representative, may issue change orders, subject to the following limitations:
- 22.3.1 City Council expressly authorizes the City Purchasing Agent to approve change orders of \$25,000 or less. A change order of more than \$25,000 over the approved contract (Purchase Order) amount must be approved by City Council.
- 22.3.2 The total of all change orders issued under this section may not increase the Original Agreement amount by more than 25%.
- 22.3.3 For any items described in a change order that the Prime Contractor/Supplier is otherwise required to provide under the Original Agreement, the City shall not pay additional money to Prime Contractor/Supplier.

GENERAL TERMS & CONDITIONS: (CONTINUED)

23.0 TERMINATION OF AGREEMENT:

23.1 By the City for Convenience:

23.1.1 The City Purchasing Agent may terminate this Contract (Purchase Order) at any time upon 30 calendar days notice in writing to the Prime Contractor/Supplier. Upon receipt of such notice, Prime Contractor/Supplier shall, unless the notice directs otherwise, discontinue all services in connection with the performance of the Contract (Purchase Order) and shall proceed to cancel promptly all existing orders and contracts insofar as such orders and contracts are chargeable to this Contract (Purchase Order). As soon as practicable after the receipt of notice of termination, the Prime Contractor/Supplier shall submit a statement to the appropriate department(s) showing in detail the services performed or items delivered under this Contract (Purchase Order) to date of termination. The City agrees to compensate the Prime Contractor/Supplier for that portion of the prescribed charges for which the services were actually performed or items delivered under this Contract (Purchase Order) and not previously paid.

23.2 By the City for Default by Prime Contractor/Supplier:

23.2.1 In the event that the materials and/or services furnished by the Prime Contractor/Supplier do not conform to the standard set forth herein, or if the deliveries and servicing of this Contract (Purchase Order) do not conform to the requirements detailed herein, the City through a written notice from the Purchasing Agent to the Prime Contractor/Supplier describing such default may as its options:

(1) Terminate the Contract (Purchase Order) for default and the City shall have no further obligation under the Contract (Purchase Order).

(2) Allow the Prime Contractor/Supplier to cure default within 30 calendar days from receipt of notice unless the City Purchasing Agent specifies a longer period of time in the notice. The City, at its sole option, may extend the proposed date of termination to a later date. If prior to the proposed date of termination, Prime Contractor/Supplier cures such default to the City's satisfaction, then the proposed termination shall be ineffective. If Prime Contractor/Supplier fails to cure such default prior to the proposed date of termination, then the City may terminate its performance under this Contract (Purchase Order) as of such date and have no further obligation under the Contract (Purchase Order).

23.2.2 In the event of failure to deliver any or all of the items or to perform required services, the City may cover its loss by reasonably procuring from another source the items not delivered or the services not performed. Prime Contractor/Supplier shall be responsible for, and shall pay to the City immediately upon demand, the difference in price between that offered by the Prime Contractor/Supplier and that which the City was forced to pay for covering Prime Contractor/Supplier's failure to deliver or perform services.

23.3 By the Prime Contractor/Supplier for Default by City:

23.3.1 Default by the City shall occur if the City fails to perform or observe the terms and conditions of this Contract (Purchase Order) required to be performed or observed by the City, and the Prime Contractor/Supplier gives notice in writing to the City of the act or omission claimed by the Prime Contractor/Supplier to constitute default on the part of the City.

23.3.2 Upon receipt of such notice in writing from the Prime Contractor/Supplier; however, the City shall have 30 calendar days to cure such default. The Prime Contractor/Supplier, at its sole option, may extend the proposed date of termination to a later date.

23.3.3 If City cures such default prior to the proposed date of termination, the proposed termination shall be ineffective. If the City fails to cure such default prior to the proposed date of termination, then the Prime Contractor/Supplier may terminate its performance under this Contract (Purchase Order) as of such date.

EXHIBIT NO. 2

SAMPLE ACCORD CERTIFICATE OF INSURANCE Issue Date (MM/DD/YY)

PRODUCER:
ISSUERS OF POLICIES. THE ISSUER MUST HAVE A RATING OF **B+ OR BETTER AND FINANCIAL SIZE OF CLASS VI OR BETTER ACCORDING TO THE CURRENT YEAR'S BEST RATING**, OR HAVE A CERTIFICATE OF AUTHORITY TO CONDUCT INSURANCE BUSINESS IN THE STATE OF TEXAS

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED:

SAMPLE FORM

COMPANIES AFFORDING COVERAGE

-
COMPANY A
-
COMPANY B
-
COMPANY C
-
COMPANY D
-
COMPANY E

COVERAGES:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR.	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	General Liability				General Aggregate \$1,000,000
A.	(X) Commercial General Liability				Products-Comp/Op Agg. \$1,000,000
	Claims Made (X) Occur.				Personal & Adv. Injury \$1,000,000
	Owners & Contractors Prot.				Each Occurrence \$ 500,000
					Fire Damage (Any one fire) \$ 50,000
					Med. Expense \$ 5,000
					(Any one person)
A.	Automobile Liability	Auto Liability Insurance for autos furnished or used			Combined Single Limit \$1,000,000
	(X) Any Auto	in the course of performance of this Contract.			
	All Owned Autos	Including Owned, Non-owned, and Hired Auto			Bodily Injury (Per person) \$
	Scheduled Autos	coverage. (Any Auto coverage may be substituted			
	(X) Hired Autos	for Owned, Non-owned and Hired Auto coverage.)			Bodily Injury (Per Accident) \$
	(X) Non-Owned Autos	If no autos are owned by Contractor, coverage may			
	Garage Liability	be limited to Non-owned and Hired Autos. If Owned			Property Damage \$
		Auto coverage cannot be purchased by Contractor,			
		Scheduled Auto coverage may be substituted for			
		Owned Auto coverage. EACH AUTO USED IN			
		PERFORMANCE OF THIS CONTRACT MUST BE			
		COVERED IN THE LIMITS SPECIFIED.			
	Excess Liability				Each Occurrence \$
	Umbrella Form				Aggregate \$
	Other than Umbrella Form				
	Worker's Compensation				(X) Statutory Limits
	And				Each Accident \$ 100,000
	Employee Liability	Statutory Limits			Disease - Policy Limit \$ 100,000
					Disease - Each Employee \$ 100,000
	Other				

DESCRIPTION OF OPERATION/LOCATIONS/VEHICLES/SPECIAL ITEMS

City of Houston is named as **additional insured on Auto, General Liability and Umbrella policies. Waiver of Subrogation is provided on Auto, General Liability, Worker's Compensation and Umbrella policies.** The terms of the policies described by this certificate as to advance notification of cancellation and non-renewal are in compliance with the Contract terms between the City and the Insured for the project/service covered by this certificate and such advance notification will be provided.

CERTIFICATE HOLDER:
CITY OF HOUSTON/ADMIN. & REGULATORY AFFAIRS DEPT.
STRATEGIC PURCHASING DIVISION
P.O. BOX 1562
HOUSTON, TX 77251

CANCELLATION: (MODIFIED AS INDICATED ABOVE)

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED, BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUY FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, IT'S AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE: