

BID OPENING DATE AND TIME

On: FEBRUARY 12, 2014

AT: 10:30 A.M.

BID NO. S4YQ0630	PAGE 1 OF 19	INVITATION AND BID ADVERTISED	BIDDER MUST COMPLETE BELOW BIDDER AGREES TO COMPLY WITH ALL CONDITIONS OF THIS BID. UNSIGNING BIDS WILL NOT BE ACCEPTED.
This Invitation to Bid with your quotations must be received prior to the above cited bid opening date and time.		 CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT MUNICIPAL SERVICES BLDG. 1401 JFK BLVD, ROOM 170A PHILADELPHIA, PA 19102-1685	NAME AND ADDRESS OF FIRM
DEPARTMENT OOFM	DIVISION VEHICLE PURCHASE		Federal EIN/Social Security Number
AWARDED			BUYER: J. MANTON S. JUSTICE
DATE FOR THE PROCUREMENT COMMISSIONER			
TITLE OF BID: 4 X 2 ADVANCE LIFE SUPPORT MEDIC UNIT			
<u>GENERAL INFORMATION</u>			
<p>This Invitation to Bid and Contract is issued under the Antidiscrimination Policy described in the Mayor's Executive Order 03-12.</p> <p>While there are no ranges for the participation of Minority (MBE), Woman (WBE) or Disabled (DSBE) Owned Business Enterprises (collectively, M/W/DSBEs) projected for this Bid, bidders are prohibited from discriminating in their selection of subcontractors and are encouraged to use their Best and Good Faith Efforts to solicit quotes from M/W/DSBEs on an equitable basis with other firms. See the Office of Economic Opportunity (OEO) Instructions and Form which is part of this Invitation to Bid and Contract.</p>			
<u>BID QUESTIONS</u>			
<p>All questions concerning this Invitation to Bid, including specifications and conditions, must be presented prior to the bid opening date and time. Contact Procurement Department Customer Service by emailing Bid.Info@phila.gov or by calling (215)686-4720 with questions.</p>			
<u>BID SECURITY</u>			
When applicable, BIDDERS MUST SUBMIT BID SECURITY.			
<u>BID SIGNATURE</u>			
BIDDERS MUST SIGN PAGE 9 OF THE "TERMS AND CONDITIONS".			
For City Use Only			
BID SECURITY See Conditions of Bidding	MASTER BID SECURITY		CERTIFIED CHECK SUBMITTED WITH BID
	<input type="checkbox"/> YES	<input type="checkbox"/> NO	AMOUNT

**CITY OF PHILADELPHIA
OFFICE OF ECONOMIC OPPORTUNITY
ANTIDISCRIMINATION POLICY- MINORITY, WOMAN AND DISABLED OWNED
BUSINESS ENTERPRISES
INSTRUCTIONS AND FORM
(SEALED BID CONTRACTS)**

Under the authority of Executive Order No. 03-12, the City of Philadelphia has established an antidiscrimination policy (“Policy”) relating to the participation of Minority (MBE), Woman (WBE) and Disabled (DSBE) Owned Business Enterprises in City contracts. Executive Order 03-12 is administered by the City’s Office of Economic Opportunity (“OEO”).

The purpose of this Policy is to provide equal opportunity for all businesses and to assure that City funds are not used, directly or indirectly, to promote, reinforce or perpetuate discriminatory practices. The City is committed to fostering an environment in which all businesses are free to participate in business opportunities without the impediments of discrimination and participate in all City contracts on an equitable basis. In accordance with the contracting requirements of the City, the City’s Policy is applicable to this Invitation and Bid (hereinafter, “Bid”).

For this Bid, the City has not established ranges for the participation of MBEs, WBEs and/or DSBEs (collectively, “M/W/DSBEs”), but bidder is encouraged to exercise Best and Good Faith Efforts to include M/W/DSBEs in this bid and in bidder’s supply chain. “Best and Good Faith Efforts” are those efforts, the scope, intensity and appropriateness of which are designed and performed to achieve meaningful and commercially useful participation by M/W/DSBEs. An OEO Certification Registry of M/W/DSBEs is maintained by the OEO and is available online at www.phila.gov/OEO/directory. Firms owned and controlled by minority persons, women or disabled persons, which are certified as MBE, WBE, DSBE or DBE by an approved certifying agency, including the Pennsylvania Unified Certification Program, may apply to the OEO for listing in its OEO Certification Registry.

Bidder is also encouraged to identify below, any M/W/DSBEs that will be used by bidder if successful:

Company Name	Address	Certification Status (MBE, WBE or DSBE)	Type of Work/Supply Effort
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----
-----	-----	-----	-----

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 2 19
		FIRM NAME (Must be filled in)	

SECTION 1: GENERAL BID SUBMISSION

1.1 TITLE: 4 X 2 ADVANCE LIFE SUPPORT MEDIC UNIT

1.2 CONTRACT TERM: 03/01/2014 to 02/28/2015 ("Initial Term"), with an option to renew for up to three (3) additional one (1) year periods, ("the Renewal Term") exercisable, at the City's sole discretion, as of the expiration of the Initial Term or then current Renewal term. The City may, at its sole discretion, renew the contract for up to three (3) months at the beginning of each renewal period(s) (the "Additional Performance Period"), if a decision has been made not to renew the contract for an entire year.

1.2.1 The City shall exercise such sole option to renew the Contract Term by issuing a letter (the "Renewal Notice") notifying the Contractor that the Contract is renewed for the Renewal Term or Additional Performance Period (identified by commencement and termination dates) that is specified in the Renewal Notice. The Contract shall be deemed to be renewed for such Renewal Term or Additional Performance Period, and Contractor shall be obligated to perform all terms and conditions of the Contract throughout such Renewal Term or Additional Performance Period, as of the effective date indicated on the City's Renewal Notice, whether or not Contractor has agreed, verbally or in writing, to such renewal of the Contract term.

1.2.2 If an individual Performance Bond and/or Payment Bond is required under this Invitation and Bid, such bond(s) shall be and remain in full force and effect throughout the Initial Term, all Renewal Terms, any Additional Performance Period, and the period of any unexpired warranty provided or required under the Contract, without notice of Contract renewal by the City to the surety or the consent of the surety thereto. It is the sole responsibility of the Contractor to ensure that such bond(s) remain in full force and effect as provided in this Section 1.2.2, and failure to do so shall be an event of default pursuant to Section 19, Default, of the attached Terms and Conditions of Bidding And Contract.

If participation in the City's Master Performance Security Program is required under this Invitation and Bid, Contractor shall pay the required annual fee for such participation for each Renewal Term upon the issuance of the Renewal Notice.

1.3 CONTRACT TYPE: **REQUIREMENTS**

1.3.1 The following items are required in the operation of various City agencies as ordered. Exact quantities cannot now be determined but estimates thereof are listed herein. Quantities listed may be increased or decreased to meet the requirements of the City during the period of this contract. A minimum is not guaranteed. Purchase orders issued as a result of this bid will be for equipment to be delivered generally on an as-needed basis.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 3 19
		FIRM NAME (Must be filled in)	

Successful bidders are cautioned not to deliver any equipment without first being advised to do so by the ordering agency.

- 1.3.2 It is the intent of the Procurement Department to make an award for the period as stated above subject to the appropriation of funds in succeeding fiscal year/years by City Council. The City's fiscal year is from July 1st to June 30th inclusive.

Vehicles on the bid to be ordered after the end of the fiscal year are subject to the issuance of purchase orders for the following fiscal years. The City is not liable for the award involving following fiscal years' funds until such orders are issued.

The successful bidder(s) obligation to deliver on such purchase orders shall not take effect until the orders are issued. To simplify the contract procedure, however, the successful vendor will be required to furnish a Performance Bond or Performance Security Fee to cover units awarded to him.

- 1.4 METHODOLOGY OF ACQUISITION: Purchase only.

- 1.5 STATEMENT OF DIRECTION:

- 1.5.1 It is the intent of the City of Philadelphia to make an award for 4 x 2 Advance Life Support Medic Unit for the Philadelphia Fire Department as specified herein during the contract period.

- 1.6 BID SECURITY

- 1.6.1 Bid security shall be based upon **cumulative bid amount per Section 5.**

All bids submitted with a total greater than \$32,000.01 must be accompanied by the proper Bid Security.

Bidders already enrolled in the City's Master Bid Security Program for Fiscal Year 2013 (July 1, 2013 to June 30, 2014) are not required to provide Bid Security if their bid total is \$500,000.00 or less (per paragraph 2 of "Terms and Conditions of Bidding and Contract").

The Master Bid Security Program allows bidders to qualify for bid security for individual bids submitted during the covered bidding period provided the individual bid total is \$500,000.00 or less.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 4 19
		FIRM NAME (Must be filled in)	

1.6.2 **Bids Opening July 1, 2013 through June 30, 2014**

Bidders may qualify for the Master Bid Security Program described above for **Fiscal Year 2013 - (July 1, 2013 - June 30, 2014)** by submitting a check in the amount of **\$140.00** made payable to the City of Philadelphia. The check should be submitted, under separate cover, to the Bid Unit Supervisor at least one day prior to the first bid that the bidder wants covered under the program and is *non-refundable*. Or if, and only if, the bidder chooses to submit the check for the Master Bid Security Program with their bid, the check **MUST** be in the form of a Certified, Treasurer's or Cashier's Check, Bank or United States Postal Money Order and is non-refundable.

If the bidder is not enrolled and does not intend to enroll; or if the total value of the bid submitted exceeds \$500,000.00, the Master Bid Security Program is not applicable. Bidders instead **MUST** submit with their bid a refundable Certified, Treasurer's or Cashier's Check, Bank Money Order or United States Postal Money Order in the amount as specified in Paragraph 2 entitled "Bid Security", of the "Terms and Conditions of Bidding and Contract".

1.7 BID INFORMATION:

1.7.1 All information concerning this bid will be contained in this bid document as issued or amended.

1.7.2 Information provided verbally by any City official shall not be binding or relevant.

1.8 BID SUBMISSION:

1.8.1 All bids submitted to the City of Philadelphia must adhere to the bid submission requirements. It is the bidder's responsibility to ensure all bid submission requirements are met. Failure to adhere to these instructions may result in the bid being disqualified.

1.8.2 Advertised sealed bids shall be received and opened publicly at 10:30 AM Philadelphia local time in Room #170A, 1st Floor of the Municipal Services Building, located at 1401 JFK Boulevard, Philadelphia, Pennsylvania 19102, on the bid opening date.

1.8.3 Vendors must submit their bid to the City of Philadelphia **no later than 10:30 AM** on the date that the bid opens. **BIDS MUST BE PLACED IN THE BID BOX** (slot located outside of Room 170A) prior to the bid opening. Bids that are not in the bid box prior to the bid opening may be disqualified.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 5 19
		FIRM NAME (Must be filled in)	

- 1.8.4 It is the bidder's responsibility to ensure that the bid is submitted in a timely manner and placed in the bid box prior to the bid opening. If the bid is being sent by courier or mailed, it is recommended that the bid be sent early. The bid should arrive at least one business day before the bid opens to ensure timely receipt.
- 1.8.5 All bids **must** be placed in a **sealed** envelope. **The Bid Number, Opening Date and Company Name MUST be clearly labeled on the envelope.** If the bid is being delivered by courier or express mail, the bid **must** be in a **separate** sealed envelope inside the courier's envelope or express mail. This is to ensure that all bids conform to the sealed bid process of the City of Philadelphia. Failure to do so may result in the bid being disqualified.
- 1.8.6 Vendor's bid should be complete and include ALL information required as described in the various paragraphs of the bid specifications. All pricing must be completed on the forms provided and must be in **ink or typed.**

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 6 19
		FIRM NAME (Must be filled in)	

1.8.7 In accordance with Chapter 17-109 of The Philadelphia Code relating to Local Bidding Preferences and the Regulations promulgated thereto, this bid may be subject to a 5% local bid preference. In order to determine eligibility to receive the 5% preference, if applicable, bidder must be certified as a Local Business Entity ("LBE") at the time of the bid opening and must submit with the bid its LBE Certification number as is sued by the Procurement Department:

Bidder's LBE Certification Number _____

Further, through submission of this bid, bidder makes the following certification in connection with the grant of any local bidding preference:

"Throughout the entirety of the contract, my company or my subcontractor(s)¹ will perform the majority of any work on the subject contract within the geographic limits of the City of Philadelphia and my company or my subcontractor(s) will maintain within the City a majority of the inventory or equipment that will be used on the contract or the amount of inventory that is customary for that industry."

NOTE: If you wish to apply for Local Business Entity (LBE) certification, go to www.phila.gov/bids. Please provide sufficient time prior to bidding for processing of the LBE application. The Procurement Commissioner reserves the right to request any additional or clarifying information at any time prior to award of the contract, and during the performance of the contract.

¹ If the Bidder relies upon subcontractor(s) to perform the majority of the work and maintain the majority of the inventory or equipment within the City, the subcontractor(s)' LBE Certification Number and most recent annual affidavit of continuing eligibility must be submitted to the Procurement Department.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 7 19
		FIRM NAME (Must be filled in)	

1.8.8

BID PROCESSING FEE:

All bids submitted where the bid total is greater than \$30,000 must be accompanied by the proper Bid Processing Fee. The fee shall be in the form of a separate check or money order in accordance with Paragraph 3 of the "Terms and Conditions of Bidding and Contract".

1.8.9

CONTACT PERSON:

PRE-AWARD:

Indicate below to whom in your firm questions concerning this Invitation and Bid should be directed:

Name: _____

Address: _____

City/State/ZC: _____

Telephone No. (_____) _____ Ext.: _____

Fax No. (_____) _____

E-mail address _____

POST-AWARD:

Indicate below to whom in your firm questions concerning the Contract resulting from this Invitation and Bid should be directed:

Name: _____

Address: _____

City/State/ZC: _____

Telephone No. (_____) _____ Ext.: _____

Fax No. (_____) _____

E-mail address _____

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 8 19
		FIRM NAME (Must be filled in)	

1.8.10 FORMS TO BE RETURNED WITH BID:

Form #80-247B (one for each type of vehicle offered) is to be completed and returned with bid.

The Temporary Certificate shall be forwarded to the Office of Fleet Management, Attention: Christopher Cocci, 100 S. Broad St., 3rd floor, Philadelphia, PA 19102. Bidder shall state year, make, model, body model, manufacturer's cut off date, and delivery after receipt of order.

YEAR: _____

MAKE: _____

MODEL: _____

BODY MODEL: _____

MANUFACTURER'S CUT OFF DATE: _____

DELIVERY ARO: _____

1.8.11 BID QUESTIONS OR PROBLEMS

In preparing the bid response, should any bidder need clarification on the bid requirements, identify a discrepancy in the specifications, determine that a specified product has been discontinued or an alternate procedure is advised, etc.; then the bidder is STRONGLY encouraged to bring these issues to the attention of the Procurement Department's Public Information Unit prior to the bid opening by calling (215) 686-4720 or 4721, or by faxing (215) 686-4716. Questions, whether phoned or faxed, should be received no later than seven (7) calendar days prior to the scheduled opening date of the bid. The City reserves the right to only respond to those questions submitted prior to the stated deadline. If it is in the City's best interest to do so, the bid MAY be amended to reflect the proposed changes/modifications. Exceptions taken DO NOT obligate the City to change the specifications. The City of Philadelphia, Procurement Department will notify all bidders in writing, by addendum duly issued, of any interpretations/changes made to specifications or instructions. The City will not accept responsibility for oral instructions, suggestions or changes by any City agency.

Otherwise the successful bidder will have to provide the product or service exactly as defined in this bid, and in accordance with the directions in Section 2.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 9 19
		FIRM NAME (Must be filled in)	

1.9 BIDDER QUALIFICATION:

1.9.1 All bidders must be a bona fide manufacturer of, or dealer in, the article specified within the bid. To demonstrate this, bidders should submit the following reference information with their bid. References provided should be pertinent to the commodity requested in this Invitation and Bid and demonstrate the bidders ability to perform on a contract of this size and scope.

Please note that reference information in each section must be completed. Failure to submit this information may result in the bidder's disqualification.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 10 19
		FIRM NAME (Must be filled in)	

SECTION 1:

Customer Reference other than an employee or department of the City of Philadelphia, (excluding suppliers or financial institutions).

Firm Name: _____

Contact Name: _____

Phone No.: _____

Type Work: _____

Years dealing w/your firm: _____

SECTION 2:

Previous purchase order(s)/contract(s) with the City of Philadelphia; (State "None" if applicable).

Dept. Name: _____

Contact Name: _____

Phone No.: _____

PO#/Contract#: _____

Items: _____

1.10 MANDATORY PRE-BID MEETING

A MANDATORY PRE-BID MEETING for all interested parties will be held on **Tuesday January 28, 2014 at 1:00pm in Room 170A, City of Philadelphia Procurement Department, Municipal Services Building, 1401 JFK Boulevard, Philadelphia, PA 19102.**

The purpose of this meeting is to respond to questions from prospective bidders. Bidders are encouraged to submit questions in writing at this time. All questions that materially impact upon the bid process will be answered, in writing, in a formal addendum issued by the City. Oral responses by City employees or their representatives are not binding and shall not in any way be a commitment by the City.

Attendance at this Pre-Bid Meeting is Mandatory. Only bidders who attend the Pre-Bid Meeting and are subsequently qualified by the City will be eligible for award.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 11 19
		FIRM NAME (Must be filled in)	

SECTION 2: SPECIFICATIONS

2.1 Successful Bidder shall be required to supply the City of Philadelphia's **Office of Fleet Management (OFM) with a 4 x 2 Advanced Life Support Medic Unit** as listed in Sections 2 and 5 of this Invitation and Bid.

2.2 **SPECIFIC REQUIREMENTS**

All items to be bid upon are in accordance with Procurement Department Specification 41-V-20M:86 and OFM Spec Code 22313e.13.

In Section 5 "Pricing", vendor shall submit an Each (EA) price for all items listed therein. Bidder shall submit pricing on items indicated plus all options. Quoted prices must not contain more than three (3) decimal places.

2.2.1 **42853-011-052**

UNIT AS PER SPECIFICATION
 OMIT SECTION 19.0, PRE-PRODUCTION INSPECTIONS
 OMIT ITEM 32.3.1.2, SOFTWARE
 OMIT ITEM 32.3.1.3, LAPTOP COMPUTER

OPTIONS

- 2.2.1.1 **42853-009-336**
ITEM 19.1, PRE-CONSTRUCTION CONFERENCE
- 2.2.1.2 **42853-009-337**
ITEM 19.2, PILOT INSPECTION, CHASSIS
- 2.2.1.3 **42853-009-338**
ITEM 19.3, PILOT INSPECTION, BODY
- 2.2.1.4 **42853-009-339**
ITEM 32.3.1.2, SOFTWARE
- 2.2.1.5 **42853-009-340**
ITEM 32.3.1.3, LAPTOP COMPUTER
- 2.2.1.6 **42853-009-341**
ITEM 34.2, TECHNICIAN TRAINING

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 12 19
		FIRM NAME (Must be filled in)	

2.3 **DELIVERY INSTRUCTIONS:**

Department will contact vendor with delivery instructions.

All Invoices Against This Purchase Order Should Be Mailed To:

Office of Fleet Management
Accounting Unit, 3rd Floor
100 South Broad Street
Philadelphia, PA 19110

All motor vehicles, which are furnished by the awarded vendor, must be manufactured in the United States, Canada or Mexico. Motor vehicles consist of passenger cars and trucks in accordance with 75 Pa. C.S. §102, known as the Vehicle Code. A motor vehicle is manufactured in the United States, Canada or Mexico if a substantial majority of the principal components are assembled into the final products in an assembly plant in the United States, Canada or Mexico. The awarded contractor shall be prepared to prove that the motor vehicles which will be or have been furnished to the City of Philadelphia are, or were, in fact, manufactured in the United States, Canada or Mexico in accordance with Sections 3731-3736 of the Commonwealth Procurement Code (62 Pa. C.S. §§3731-3736, with applicability to the City of Philadelphia at 62 Pa.C.S. §3102), known as the Motor Vehicle Procurement Act. No payment shall be made to the awarded contractor unless the City of Philadelphia is satisfied that the contractor has complied with these provisions and the Motor Vehicle Procurement Act.

Any payments made to the contractor, which should have not been made, shall be recoverable directly from the contractor. In addition to the withholding of payments, any person who willfully violates any of the provisions of the Motor Vehicle Procurement Act, may be prohibited by the City of Philadelphia from participation in contracts awarded by the City of Philadelphia for a period of three years from the date of the determination that a violation has occurred.

SECTION 3: BID EVALUATION AND AWARD

3.1 EVALUATION

- 3.1.1 Bid will be evaluated by the Procurement Department.
- 3.1.2 Bids will be evaluated for responsiveness to the bid specifications and for responsibility of the bidders.
- 3.1.3 Bids which are determined to be non-responsive for reasons of:
 - (i) improper bid security
 - (ii) improper bid execution
 - (iii) incompleteness
 - (iv) offering counter terms and conditions

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT	BID NUMBER S4YQ0630	PAGE OF 13 19
	PHILADELPHIA, PA 19102 - 1685	FIRM NAME (Must be filled in)	

(V) improper or incomplete execution of OEO documents (if applicable)

may be disqualified by the City without notice to the bidder. The decision of the City is final.

3.1.4 Bidders whose bids are determined to be non-responsible for reasons of bidder qualification shall be notified by the City of the reasons for the determination and may contest the finding of non-responsibility through the prescribed procedures described in paragraph 9 of "Terms and Conditions of Bidding and Contract".

3.2 AWARD

3.2.1 This Invitation and Bid shall be awarded as a whole to the lowest responsive and responsible bidder(s).

3.2.2 **CONTIGENCY**

The contract award will be in the amount of the total amount bid for the items plus a 5% contingency amount to allow and provide for technological changes, improvements or amplifications as the result of the pilot inspection, etc.

3.2.3 **LOCAL BUSINESS ENTITY**

If the 5 % local bid preference is applicable, the total bid price or total section price of the certified Local Business Entity (LBE) will be multiplied by .95 and rounded to the second decimal place. The adjusted bid price of the LBE will then be used in determining the lowest responsive and responsible bidder.

Unless the Procurement Commissioner determines not to grant a preference for the reasons stated in subsection b., of the LBE Regulation, an LBE, whose bid is otherwise responsive and responsible and who has submitted the information required above, shall be granted a five percent bid preference on competitive bid(s) awards that are over \$32,000.00 and awarded as a whole or by section.

3.2.4 Performance Security

If the total award amount is \$500,000 or less, bidders attention is directed to paragraph 14 of "Terms and Conditions of Bidding and Contract", for the required Performance Security.

Please note however, that all awards as a result of this bid will have a minimum contract amount of \$32,001.00. All awards at the \$32,001.00 amount will be subject to a \$50.00 Master Performance Security Fee.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 14 19
		FIRM NAME (Must be filled in)	

If the total award amount exceeds \$500,000, the Master Performance Security Program does not apply. Upon notification of award, the City will require the successful vendor to provide an individual Performance Bond in the amount of 100% of the contract award as specified in the Letter of Award. For any subsequent renewal periods, sections 1.2.1 and 1.2.2 shall apply.

3.2.5 **City of Philadelphia-Business, Corporate and Slavery Era Insurance Disclosure**

In accordance with Section 17-104 of The Philadelphia Code, the Bidder, after execution of this Contract, will complete an affidavit certifying and representing that the Bidder (including any parent company, subsidiary, exclusive distributor or company affiliated with Bidder) has searched any and all records of the Bidder or any predecessor business entity regarding records of investments or profits from slavery or slaveholder insurance policies during the slavery era. The names of any slaves or slaveholders described in those records must be disclosed in the affidavit.

The Bidder expressly understands and agrees that any false certification or representation in connection with this Paragraph and/or any failure to comply with the provisions of this Paragraph shall constitute a substantial breach of this Contract entitling the City to all rights and remedies provided in this Contract or otherwise available in law (including, but not limited to, Section 17-104 of the Philadelphia Code) or equity and the contract will be deemed voidable. In addition, it is understood that false certification or representation is subject to prosecution under Title 18 Pa.C.S.A. Section 4904.

3.2.6 Insurance

Insurance is a requirement for this bid in accordance with Paragraph 15 of the "Terms and Conditions of Bidding and Contract". No contract will be executed nor purchase order issued unless and until all required insurance certificates, in the required amount, are received. **All insurance MUST meet the following requirements:**

- Insured must be in the same name and address as the Bidder
- The insurance carrier must be rated "A" or better by AM Best
- The certificate holder must be the City of Philadelphia, and specifically named as an additional insured on the certificate the "Description of Operations section".
- Certificate must be signed by an authorized representative of the insurance company/carrier

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 15 19
		FIRM NAME (Must be filled in)	

All certificates are to be sent to the Office of Risk Management, One Parkway, 1515 Arch Street, 14th Floor, Philadelphia, PA 19102, Attn. Debbie Lawton or FAX to (215) 683-1705.

SECTION 4: CONTRACT MANAGEMENT

4.1 CITY OF PHILADELPHIA RESPONSIBILITY

4.1.1 Order Against Contracts

(i) Subsequent to contract conformance of a Requirements bid, purchase orders will be issued at such time that the product is needed. Such purchase orders will show if delivery is to be made upon receipt of order, or only after notification by the using department.

4.1.1.1 The purchase order will be issued for unit and price not including contingency.

4.1.1.2 If during the production process the City identifies a need, the City will issue a change order. The total of the original purchase order and the change orders cannot exceed the contract total.

4.1.2 Invoices submitted shall be processed for payment upon the City's acceptance of the subject vehicle or equipment.

4.1.3 The using agencies and departments are responsible for monitoring the products delivered as described in the contract. If any problems arise, a letter should be sent to the vendor requesting resolution by a specified date. A copy should be sent to the buyer. If vendor does not resolve the breach of contract by the requested date the matter should be turned over to the buyer.

4.1.4 ADD-ONS

The City reserves the right to add, delete or change locations; or to acquire other types of options that the vendor can supply that are similar to, but not specifically called for in this bid. The procedure for such acquisitions shall be as follows:

Procurement or the using department will obtain from the Vendor a letter (on his/her letterhead) verifying the items to be added. The letter shall include the complete description of the item, the location (if applicable), the bid number, bid scheduled number, the price to the City and the applicable contract period; and upon receipt and approval by the Procurement Department shall automatically become part of the contract.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 16 19
		FIRM NAME (Must be filled in)	

4.2 VENDOR RESPONSIBILITY

4.2.1 Contractor may deliver only vehicle(s) or equipment as authorized in the contract and only after receipt of a purchase order or other authorized document from the Procurement Department. All orders must be in writing. Contractor shall not accept verbal delivery requests until after receipt of purchase order or other authorizing document from Procurement.

4.2.2 Contractor may deliver only vehicle(s) or equipment at the prices quoted and the quantities reflected in the contract

4.2.3 In the event that the contractor receives an order for vehicle(s) or equipment not specifically priced and incorporated into the contract, they must:

- (i) bring this to the immediate attention of the Procurement Dept., and
- (ii) notify the ordering agency in writing and refuse to deliver.

4.2.4 Should vehicle(s) or equipment be delivered that are not specifically incorporated and priced into the contract, and/or be delivered without purchase order, the City shall have no obligation for payment.

4.2.5 For delivery of vehicle(s) or equipment, contractor shall honor and be paid for orders placed until the close of business of the date of purchase order expiration. Delivery of vehicle(s) or equipment may occur following purchase expiration, so long as the order was placed prior to the purchase order expiration date.

4.2.5.1 Liquidated Damages For Late Deliveries

These specifications shall be subject to the following contractual provisions:

- (1) Time is an essential element of this agreement and Seller agrees that deliveries of items in condition satisfactory to the Procurement Commissioner shall be completed as provided on the day(s) specified pursuant to the delivery schedule contained in specifications.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 17 19
		FIRM NAME (Must be filled in)	

- (2) For each and every day that a vehicle is late, in accordance with the delivery schedule, the Procurement Commissioner may deduct from the monies due or becoming due Seller the sum per day per undelivered vehicle specified in the bid as liquidated damages to compensate Buyer for its damages arising out of delay in delivery. The number of days of default shall be computed as including the day of default through to but not inclusive of the day when delivery is made. Provided, however, as to item delivered but rejected, the item shall be considered as non-delivered from the date on which the vendor is notified of rejection until the date the item is re-delivered.
- (3) The term "vehicle" as used above shall refer to each vehicle, vehicle body, chassis, or other unit of equipment awarded to the bidder.
- (4) Notwithstanding the above provisions Seller shall not be liable for liquidated damages for delays in delivery caused by Acts of God, acts of public enemy, acts of government, quarantine restrictions and general strikes throughout the industry or freight embargoes not caused by or participated in by Seller.
- (5) Resort to liquidated damages provision by Buyer shall not preclude by Buyer from resorting to other available remedies for subsequent or continuing breaches by Seller.
- (6) Liquidated damages will be in the amount of \$75.00 per calendar day per vehicle that delivery of each vehicle exceeds the delivery schedule stated.

4.2.6 Successful bidder(s) will invoice after delivery and acceptance of vehicle(s) or equipment by the City to the address shown on purchase order.

4.2.7 Escalation Price

Vendor shall provide current model year vehicles at the prices set forth in Section 5. For subsequent model years, the vendor may increase or decrease the price provided that:

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 18 19
		FIRM NAME (Must be filled in)	

Next model year vehicle and optional pricing will be based on the percentage difference between the new dealer cost sheet and pricing level and the dealer cost sheet and pricing level effective on the date of the bid opening. This proportional (percentage) increase or decrease will be applicable to the contract price for the current model year vehicle and/or option, thus establishing the new price next model year vehicle and options. Notice of any price changes in the dealer cost sheet and pricing level established by the Manufacturer shall be given in writing to the Procurement Department, Department of Finance and the Controller Office. This notice must be accompanied by the notice from the manufacturer to the vendor showing the price changes. The City reserve the right to review the propriety of the price rise and cancel the contract at its discretion.

In no event shall the increased prices exceed the dealer's cost sheet and pricing level for vehicles under similar terms and conditions.

4.2.8 At the conclusion of this contract, Contractor agrees to cooperate with any incoming vendor on a transition plan to ensure an orderly changeover of responsibilities.

4.2.9 Payments to OEO Subcontractors

The below paragraph applies to all Invitation and Bids (I & B) containing OEO Participation Requirements:

The successful bidder shall, within five (5) business days after receipt of a payment from the City for work performed under the contract, deliver to its M/W/DSBE subcontractors the proportionate share of such payment for work performed (including the supply of materials) by its M/W/DSBE subcontractors.

In connection with payment of its M/W/DSBE subcontractors, the successful bidder agrees to provide proof of said payments upon any request by the City.

Failure to comply with the City's payment reporting process may be considered an Event of Default.

4.3 VENDOR ACCEPTANCES - IN SUBMITTING AN EXECUTED BID, THE BIDDER AGREES TO THE CONTRACT MANAGEMENT PROCEDURES IN THIS SECTION.

INVITATION AND BID Continuation	CITY OF PHILADELPHIA PROCUREMENT DEPARTMENT PHILADELPHIA, PA 19102 - 1685	BID NUMBER S4YQ0630	PAGE OF 19 19
		FIRM NAME (Must be filled in)	

SECTION 5: PRICING

(PRICES QUOTED MAY NOT EXCEED THREE (3) DECIMAL PLACES)

Unit pricing quoted below will prevail in case of any discrepancy(ies) between unit price and the extended amount and will be the determining factor in establishing applicable contract amount(s)/award.

5.1 42853 011 052
UNIT AS PER SPECIFICATION \$ _____
OMIT SECTION 19.0, PRE-PRODUCTION INSPECTIONS
OMIT ITEM 32.3.1.2, SOFTWARE
OMIT ITEM 32.3.1.3, LAPTOP COMPUTER
OMIT ITEM 34.2 TECHNICIAN TRAINING

OPTIONS

5.2 42853 009 336
ITEM 19.1, PRE-CONSTRUCTION CONFERENCE \$ _____

5.3 42853 009 337
ITEM 19.2, PILOT INSPECTION, CHASSIS \$ _____

5.4 42853 009 338
ITEM 19.3, PILOT INSPECTION, BODY \$ _____

5.5 42853 009 339
ITEM 32.3.1.2, SOFTWARE \$ _____

5.6 42853 009 340
ITEM 32.3.1.3, LAPTOP COMPUTER \$ _____

5.7 42853 009 341
ITEM 34.2, TECHNICIAN TRAINING \$ _____

Extended Total Bid Amount \$ _____
(Unit Price for all items bid).

BIDDER SPECIFY IF DELIVERY IS OTHER THAN 30 DAYS: _____

Type: 4 X 2 Advanced Life Support Medic Unit

GVWR: Approximately 19,000 lb.

Spec Code: 22313e.13

Reference Purchase Description: 41V20M:86

Vocation: Type 1-AD (Additional Duty) Ambulance

MODIFICATIONS TO SPECIFICATION AND STANDARD SPECIFICATIONS 41V20M:86

Intent Section

It is the intent of this specification to cover the basic requirements of a well-designed Type 1-AD (with pass thru) Advanced Life Support (ALS) medic unit with a patient compartment rollover protection system, complete in every detail, employing the best workmanship and material to insure ample sturdiness, flexibility and economy of operation. This equipment must be fully operational, in every detail and function, upon delivery to the City.

The ambulance shall be manufactured in compliance with the following:

- The “Federal Specification for the Star-of-Life Ambulance KKK-A-1822F” (dated August 1, 2007) and applicable amendments/revisions in effect at time of manufacture.

BIDDER INITIALS _____

- NFPA 1917: Standard For Automotive Ambulances (latest edition)

BIDDER INITIALS _____

- All Federal, State and local laws including the Federal Motor Vehicle Safety Standards (FMVSS)

BIDDER INITIALS _____

It is required that all vendors procure the truck chassis utilizing the City of Philadelphia Fleet ID Number for order tracking purposes. The City FIN number will be supplied to the awarded vendor.

BIDDER INITIALS _____

The following paragraphs cover all equipment, attachments and superstructures included in the modification to the standard specification(s).

Appurtenances and/or accessories not herein mentioned but necessary to furnish a complete unit ready for immediate use upon delivery shall be included and conform to the best practices known in strength, quality, material and workmanship and be subject to these specifications in full. All equipment/accessories standard for the model bid, or any option package required to meet any portion of the specification shall be provided. Deleting credit option(s) or dealer piecemealing of items normally supplied in an option package shall not occur without the expressed written consent of the City. Should the manufacturer’s current published data

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

or specifications exceed these, they shall be considered minimum and be furnished.

All bodies, systems, equipment, and interfaces with the chassis shall be done in accordance with the Chassis OEM Body Builders Guidelines.

BIDDER INITIALS _____

All specified items shall be factory manufacturing original equipment and factory installed. Instances where specified items are not available through the manufacturer, the dealer may install "aftermarket". However, these items and installation must be of the best known for the particular industry. All components shall be installed in accordance with the manufacturer's installation instructions or the written approval of the component manufacturer.

Dealer must furnish at time of delivery, for each piece of equipment being delivered, a line sheet pertaining to all components of the vehicle. This sheet must supply as a minimum all standard equipment of the referenced model(s) in this specification.

All wiring shall be color or number coded. Circuit breakers or fuses shall protect all electrical circuits. All chassis-to-body wiring shall be of the **DIN / WEATHERPACK** type connections.

All wiring connections exposed to the elements shall be crimped and soldered and covered with heat shrink tube.

All wiring, non-hydraulic hoses and tubing throughout shall be protected by non-flammable, fire retardant (FR) convoluted plastic split loom (**highest temperature rating available**) in all chafe areas. A nylon abrasion sleeve covering and proper clamps shall protect, in chafe areas, any hydraulic hoses and tubing. Rubber grommets shall be supplied on all wiring, hoses, and tubing when passing through any bulkheads, body panels, etc.

It should be noted that the specific requirements, as outlined below, supersede and or modify the corresponding paragraphs in the standard reference purchase description specification (**41-V-20M:86**). It also should be noted that any deviation of a line item should be addressed in letterform and included in the bid package.

This specification is not meant to be restrictive. It is recognized that manufacturers may have used different methods to insure integrity of their system. Bidders may substitute, for evaluation, alternate systems and the testing programs or protocols they have conducted to demonstrate compliance of their product. (Or Approved Equal Clause)

"OR APPROVED EQUAL"

The mention in the specifications of apparatus, equipment or material by brand name or by such specified description of the same as is hereby made, is intended to convey to the bidder's understanding, the degree of excellence required. Any article, equipment, or material, which will conform to the standards and excellence so established, and is of equal merit, strength, durability and appearance to perform the desired function, and are in service with other major municipalities in the United States. The Bidder is deemed eligible for offer as a substitute. The qualifications of the offering will be judged as to their conformance

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

with these specifications. Any equipment offered other than herein specified will be subject to a competitive demonstration and evaluation by the using department. This demonstration is to be provided on request within ten (10) working days after the receipt of bids. The result of that demonstration and evaluation will be of prime importance in the recommendation to the governing body for the final contract award.

Service Ability Form

Service Center Location:

Distance in miles (one way) from Service Center location to the Purchaser's location is: _____

Please answer the following questions:

Is this shop an authorized warranty center for the ambulance builder? Yes No

Is the Service Center enclosed and heated? Yes No

Number of full time Service Center employees: _____

Number of fully equipped service vans: _____

Is your shop equipped to handle, without subletting, the following:

- Body Repairs Yes No
- Paint Work Yes No
- Welding Yes No
- Frame & Spring Repairs Yes No
- Power Train Repairs Yes No

This form was completed and submitted by: _____
(Please print or type full name)

Title of Individual: _____

Signature of Individual: _____

Subscribed and sworn before me

Notary's Stamp

this __ day of _____, 19

Notary Public
Commission

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Bidder's Questionnaire

- | | <u>YES</u> | <u>NO</u> |
|---|-------------------|------------------|
| 1. The unit offered is manufactured entirely in the United States? | () | () |
| 2. The equipment offered is not a prototype; and there are at least ten (10) units of similar design in service in the United States? | () | () |
| 3. The capacity and performance tests will be satisfactorily performed in compliance with the information contained in this package? | () | () |
| 4. The manufacturer fabricates and assembles the ambulance body at the same factory complex? | () | () |
| 5. A full-time local representative of the Manufacturer is maintained: | () | () |
| Name: _____
Address : _____
Phone: _____ | | |
| 6. Said representative maintains factory trained and certified mechanics? | () | () |
| 7. The manufacturer maintains a Factory Service School at the factory? | () | () |
| 8. All pages of the General Instructions, Requirements, and Specifications have been received and reviewed? | () | () |
| 9. Has the Bidder completed all the questions and filled in the blanks in the specifications? | () | () |
| 10. Is the Bid Security attached? | () | () |
| 11. Does the Bidder comply with Purchaser's specifications without exception? | () | () |

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

- 12. Are all requested engineering diagrams and drawings included with the proposal? () ()
- 13. Does the proposed unit comply with dimensional requirements of the specifications? () ()
- 14. Does the manufacturer maintain a Service Center and Parts Depot? () ()
- 15. Does the manufacturer provide a program of factory training for the technicians? () ()
- 16. Are all specified warranties in compliance with the specifications? () ()
- 17. Are all proposed warranties in compliance with the specifications? () ()
- 18. Will the ambulance body be covered by a 15 year transferable warranty? () ()
- 19. Will the entire unit be NFPA 1917 compliant? () ()
- 20. Has a list of ten (10) in-service vehicles of similar design been included with the proposal? () ()
- 21. Are the proposed ambulance and equipment new in all respects? () ()
- 22. Have you provided an accurate statement of ambulance dimensions? () ()
- 23. Have you included a copy of your own detailed Bidder's specifications? () ()
- 24. Have you included a separate list of exceptions? () ()
- 25. Are you taking total exception? () ()
- 26. Are you proposing component substitutions which you feel exceed the specification? () ()
- 27. Does weight distribution comply with the recommendations of the KKK-A-1822F & NFPA 1917? () ()

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

- 28. Does the unit comply with the appropriate requirements of the Federal Motor Vehicle Safety Standards? () ()
- 29. Will the unit have a certified GVWR sticker? () ()
- 30. Does the manufacturer meet all specified criteria and code conformance? () ()
- 31. Will the local representative's Field Service Technician deliver the apparatus? () ()
- 32. Will the local representative's Field Service Technician train the Fire Department in the use and maintenance of the chassis, and body, for a three (3) day period? () ()
- 33. State the dimensions of your proposed unit?
 - a. Overall Height: _____
 - b. Overall Length: _____
 - c. Overall Width: _____
- 34. Delivery of the apparatus shall take place within _____calendar days after the execution of the contract.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Performance Tests and Requirements

A road test will be conducted with the ambulance loaded to its GVWR and a continuous run of ten (10) miles will be made under all driving conditions, during which time the ambulance will show no loss of power or overheating. The transmission driveshafts and rear axles will run quietly and be free from abnormal vibration or noise throughout the operating range of the ambulance.

Failure to Meet Tests

In the event the ambulance fails to meet the test requirements of these specifications on the first trials, second trials may be made at the option of the Bidder within 30 days of the date of the first trials. Such trials will be final and conclusive, and failure to comply with these requirements will be cause for rejection. Failure to comply with changes, as the Purchaser may consider necessary to conform to any clause of the specifications, within 30 days after notice is given to the Bidder of such changes will also be cause for the rejection of the ambulance.

Permission to keep or store the ambulance in any building owned or occupied by the Purchaser or its use by the Fire Department during the above specified period with the permission of the Bidder will not constitute acceptance.

Service Center and Parts Depot

Each Bidder must be able to display that they have in recent times and are currently maintaining a local service center that has been established for at least five (5) years and a parts depot capable of satisfying the warranty service requirements and parts requirements for the model and quantity of vehicles bid. Service Center must have supplied parts to at least ten (10) emergency medical services providers and serviced at least twenty (20) ambulances within the past year.

The Bidder must state the location of a local authorized service center, with a staff of factory-trained mechanics, well versed in all aspects of service for all major components of the ambulance. This service center must be not more than 60 (sixty) miles away from the delivery point. In addition, the successful Bidder must maintain a separate service facility at the manufacturing site, in order to satisfy the need for possible major emergency service work.

Local Representation

In order to assure the Purchaser that prompt, knowledgeable, professional representation is made on behalf of the manufacturer, the manufacturer must maintain a representative within a reasonable distance from the Purchaser. This representative must be competent and knowledgeable with respect to the sale and service of ambulances and emergency vehicles. The representative must make available factory-trained mechanics that are completely trained in the servicing and maintenance of the product offered and must be equipped to offer prompt service on the product in the Purchaser's in-service location. These mechanics must hold current and valid certifications from the manufacturer.

Technical Evaluation

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Technical evaluation will be based upon the ability of the Bidder to meet or exceed the minimum requirements set forth in the specifications during the expected life of the subject bid. The City accordingly will make estimates concerning the ability of the ambulance to perform.

1. Quality of workmanship, materials, and components that are used in construction of the ambulance.
2. Functional design of the ambulance.
3. Warranties.
4. Any other factors the City deems to be relevant.

Addenda and Interpretations

No interpretation of the meaning of the specifications or other contract documents will be made to any Bidder verbally. Every request for such interpretation will be in writing and addressed to the Procurement Department, and must be received at least ten (10) days prior to the date fixed for the opening of the bids to be given consideration. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be mailed by certified mail to all prospective bidders not later than five (5) days prior to the date fixed for the opening of bids. Failure of any Bidder to receive any such addendum or interpretation will not relieve any Bidder from any obligation under his bid as submitted. All addenda so issued will become a part of the contract documents.

User’s List

The Bidder will provide the name, address, telephone number and date of delivery of at least fifteen (15) similar units that have been manufactured and delivered to emergency medical service providers in the United States. The Bidder will also indicate the full name of a responsible person to contact at each emergency medical service provider.

3.0 CAB & CHASSIS

3.1 Cab-The conventional cab shall be of the forward control type with tilting fiberglass hood. Provide chrome plated full width, aerodynamic steel front bumper.
REF: International Terrastar SFA 4X2 or approved equal, with Ambulance Prep Package.

3.1.1 The cab seats will be air suspension, fully adjustable, reclining bucket seats with optional flip-up dual armrests, upholstered with the manufacturer’s finest grey vinyl & covered back.
REF: H.O. Bostrom Sierra Air 100

3.2 Chassis & Dimensions-GVWR to be approximately 19,000 pounds.
Wheelbase: approximately 183 inches

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

CA: approximately 108 inches

The ambulance will not exceed the following maximum dimensions:

Overall Height: 110" (Unloaded at normal ride height excluding radio/GPS antennas)

Overall Length: 290" (Inclusive of rear step)

Overall Width: 100"

3.3 Chassis & Body Colors

A paint process is required that provides the highest possible gloss as well as superior color and luster retention characteristics. In addition, the paint process must provide a high resistance to chemical sprays, salt sprays, humidity, and temperature changes. Lastly, this process, given the expected life of the vehicle and its heavy-duty cycle, must resist chipping. The final paint application shall be free of material application imperfections such as orange peel, streaking, or a dull finish. Once painted, the vehicle shall be inspected under a black light to bring any small imperfections, not seen with the naked eye, to attention. Any such imperfections shall be repaired prior to the conclusion of the paint inspection process. The final application shall provide a high gloss on all body surfaces including the roof and excluding the underside.

The vehicle will be painted two-tone with Sikkens Autocryl acrylic urethane or equal.

Top half: white (paint code 817U)

Bottom half from the standard belt line down: vermilion red (paint code FLNA3050)

The manufacturer's paint and base colors require prior approval by the Office of Fleet Management, and the submittal of an approx. 4-inch x 6-inch sample of the base coat & final coat to be used.

Do not paint the rear of the vehicle two-tone. This area is to remain white for custom installation of conspicuity sheeting ("Chevron" style safety pattern).

3.3.1 Striping, Emblems & Markings

"Star of Life" symbols shall appear on the ambulance in the following minimum sizes and quantities: two (2) three inch size on cab hood area; two (2) sixteen inch size on right and left body sides; two (2) twelve inch on rear of body and one (1) thirty-two inch size on body roof.

The following Scotchlite striping will be installed on the chassis fenders, doors, patient module extending rearward and stopping at the rear corner extrusions: 1 inch white, 3 inch gold and 1 inch blue. The stripes will abut each other. Leave a 19.00 inch cutout on the cab doors for dealer installation of provided PFD Maltese emblems. Striping scheme shall match current in service PFD EMS units.

PROVIDE ONE FRONT MOUNTED LICENSE PLATE DISPLAYING PFD MEDIC UNIT NUMBER DESIGNATION

Equip the rear of the patient module body with retroreflective striping in a chevron style safety pattern sloping downward and away from the vehicle centerline at a 45 degree angle. Each six inch wide stripe shall be a single color alternating between red

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

and fluorescent yellow using Scotchlite Diamond grade, Series 981, conspicuity sheeting or approved equal. All Reflective Striping should meet or exceed NFPA 1917 latest edition.

3.3.2 Lettering

The bidder will provide and install the current Philadelphia lettering package to meet current fleet scheme. Special lettering shall be installed per the following guidelines:

LETTERING MATERIAL: GOLD SCOTCHLITE

LETTERING SIZE: TO MATCH EXISTING PHILADELPHIA UNITS

LETTERING QUANTITY: TO MATCH EXISTING PHILADELPHIA UNIT

4.0 AMBULANCE BODY

Since it is the purchaser’s desire to eliminate divided responsibility on the part of the manufacturers, only manufacturers who build their own bodies will be considered. At least fifteen (15) similar units must have been sold and delivered of the type described herein. The ambulance body structure MUST be manufactured in the United States of America.

The design of the ambulance must embody the latest approved automotive engineering practices. The workmanship must be of the highest quality in its respective field. Welding will not be employed in the assembly of the ambulance in a manner that will prevent the ready removal of any component part for service and or repair. Special consideration will be given to the following points: accessibility of the various components which require periodic maintenance operations; ease of operation, driving & turning radius. All wiring will be soldered, heat-shrink covered ends, terminals at all connectors (where exposed to the elements) braided, bundled as necessary, and grommeted to prevent wear and deterioration.

The complete ambulance, assemblies, subassemblies, component parts, etc., will be designed and constructed with the due consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the ambulance is to be subjected when placed in service. All parts of the ambulance will be designed with a factor of safety, which is equal to or greater than that which if considered standard and acceptable for this class of equipment in emergency medical service. All parts of the ambulance will be strong enough to withstand general service under full loads. The ambulance will be so designed that the various parts are readily accessible for lubrication, inspection, adjustment and repair.

Bidder’s specifications must meet minimum requirements of all current mandated or voluntary ambulance design standards in effect at the date of the proposal submission. If certification programs are offered to the ambulance manufacturer being proposed, by any chassis manufacturer utilized by the ambulance manufacturer, those certification standards must also be met.

The ambulance will be designed and constructed, and the equipment so mounted, with due consideration to distribution of the load between front and rear axles, so that all specified equipment for Advanced Life Support, including a full complement of loose equipment, two emergency medical technicians and two patients, can be carried without overloading or damaging the ambulance. The responsibility for the vehicle design and its performance reliability shall rest on the successful bidder.

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Consistency is a major concern for this purchaser. The patient module shall be assembled / outfitted and mounted to the chassis in a consistent and repeatable manner. Each module shall exactly duplicate all modules ordered on this contract. In addition, the bolt on parts used in the module construction shall also be interchangeable with all units ordered on this contract.

Engineering Drawings

An approximate scale drawing of the proposed ambulance will be submitted with each bid. The scaled drawing submitted with the bid will include the following:

- a. Overall height to the top of the vehicle from the ground.
- b. Sizes of all compartments, width, height and depth.
- c. Overhang front and rear.
- d. Wheelbase, Overall Length and Overall Width of ambulance.

Drawing must show, but not be limited to, such items as the chassis being utilized, lights, horns, sirens, all compartment locations and dimensions, etc. In actuality, this blueprint will be a visual interpretation of the unit as it is to be supplied.

A blueprint must be approved by the Purchaser prior to any metal being sheared or cut for the unit. The Purchaser, the Manufacturer's Representative and the Ambulance Manufacturer will each have a copy of this blueprint. This blueprint will then become a part of the total contract.

4.1 Module Features

4.1.1 Configuration

An approximately 167" long aluminum modular body will be designed so that the full load being carried by the chassis will be properly distributed over both axles. The ambulance must be properly balanced when it is fully loaded and equipped.

4.1.2 Dimensions

Cab to axle: approximately 108 inches

Exterior body dimensions:

Height: approximately 92 inches

Width: approximately 96 inches

Length: approximately 167 inches

Interior body dimensions:

Height: approximately 72 inches

Aisle Width: approximately 48 inches with approximately 20 inches from edge of cot in wall position to squad bench riser.

Length: 163"

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.2 **Module Frame to Chassis Frame Attachment**

The purchaser requires a mounting system that provides a stable and durable attachment of the module body to the chassis frame. To accomplish this requirement the following body attachment methods shall be used: A minimum of five (5) mounting platforms shall be attached along the outside of each chassis frame rail for a total of ten (10). Each platform shall consist of one top plate of .375" thick steel and two side reinforcement plates made of .25" steel. There shall be a .375" full backing plate where the mount attaches to the frame rail. The plates shall be welded along all seams with a heavy continuous weld. The body substructure shall include a 1" by 3" solid aluminum tie down bar welded to each sub structure cross member. To complete the body to chassis attachment, a tuned mounting system shall be used. The elastomer mount shall be custom tuned to the specific chassis type for vibration reduction, structure borne noise attenuation and to provide low profile, low frequency isolation for best patient compartment conditions. Standard chassis furnished mounting donuts will not meet the requirements of this specification. The mount shall be attached to the chassis frame rail with three .625" diameter Grade 8 bolts with washers and locking nuts. The fail safe elastomer isolation mount shall then attach to the aluminum body tie down bar with a .75" diameter grade 8 bolt, washer and locking nut. To ensure patient and attendant safety in the event of a collision, the bidder must have dynamically tested the integrity of the mounting system up to an applied force of 20 G's. The test documentation must be signed by a registered professional engineer and must accompany the bid.

4.3 **Structural Requirements**

The construction of the module body shall be designed and fabricated to provide a minimum 15 Year Body Life and the greatest load carrying capabilities that are safely possible and the most up to date patient safety features that are economically available. In addition, the body shall be constructed so that it can be easily retrofitted to a new chassis if the occasion ever arises. All module body frame and skin materials, unless otherwise specified, shall be fabricated from aluminum metal so that weight reduction will be enhanced and material life increased. To support the 15 Year Body Life the converter shall warranty the material and workmanship in the construction of the module body for 15 years or more. The coverage shall apply to structural deterioration. The following areas shall also be specifically warranted per the manufacturer's standard structural warranty policy:

- The continued and correct alignment of compartment and access doors for 15 years.
- Seam or joint separation in the compartment or access door construction for 15 years.
- Transferability of the warranty to a new owner if the vehicle is ever sold.

4.3.1 **Corner Post Supports**

The body structure must be able to support the loaded weight of the vehicle in the unlikely event of a rollover. A structure is required that will enhance the safety of both patients and attendants in the event of an accidental collision. The foundation of a solidly built module body is the utilization of strong corner posts in both the sidewalls and the roof. A one-piece 90-degree radius post is required. The posts shall include a full length W shaped extrusion that forms a fully encased web inside the post for strength. This reinforcing member shall angle inward just before it joins the radius to form a small slot where the edges of the aluminum skin will be inserted

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

prior to the final welding. Because the structural integrity of a body is derived from the corner posts, subfloor, and framework, corner posts that are a part of the exterior body skin (e.g. rolled corner posts) will not be considered, nor will corner posts which do not have integral center reinforcement as part of the extrusion.

4.3.2 Wall and Roof Skin Supports

The exterior wall and roof skins will be supported on the inside by 2" square (minimum .125" wall) tubing strategically located at the load bearing points of the module body. The ceiling tubes will be spaced on minimum 12" centers for adequate load support. In addition to the vertical ribs on the street side and curbside wall, a horizontal rib will be installed. The rib will be located at approximately the belt line of the body. The rib will provide additional protection in the event of a side body impact.

4.3.3 Gusset Enhancement

To provide added strength to the module shell at all door openings, at all body corners and above all wheel wells, gussets will be installed. The gussets will be made from 2" square tubing and will total no less than twenty-four (24), with a minimum length of 5" each.

4.3.4 Floor Construction

Floors that are uneven or are incapable of adequately supporting the load being carried on the vehicle are unacceptable. For that reason thin floor panels and or a lack of floor supports are not desirable. To prevent buckling, sagging, oil canning or any other structural breakdown of the flooring system a detailed description of the required construction process is provided.

The body subfloor shall be constructed of .090" 5052-H34 aluminum. The floor, from the front to the rear and from curbside to street side shall be supported by a minimum 2" x 3" tubular beam with a .25" wall. The floor just behind the axle shall be supported by a minimum 1.5" x 3" tubular beam with a .25" wall. All beams shall be strategically located at the load bearing points of the floor and welded into place. The interior of this vehicle shall contain no wood or wood products of any kind. The subfloor, above the aluminum sheet shall be specially constructed to provide both acoustic and thermal protection for the patient interior. It shall consist of the .090" aluminum with tubular understructure as noted above. The underside of this area is to be sprayed with a sound reduction coating. In addition, a .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel shall be installed prior to installation of the floor covering. The purchaser reserves the right to inspect the process proposed by the bidder and to make determinations regarding the acceptability of that process. The resultant subfloor shall have no organic wood or wood products and shall be guaranteed against rotting or water absorption for a minimum of fifteen years. It shall not support or attract mold or fungus.

4.3.4.1 Rear Wheel Wells

Provide full width inner fender liners that cover dual rear wheels.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.3.5 Exterior Skin

A minimum tensile strength of 38,000 psi (5052H34 alloy) is requested for all .125" thick material and a tensile strength of 33,000 psi (5052H34 alloy) is requested for a .090" thick material. The minimum skin thickness will be as follows:

- Side, Front and Rear Walls: .125"
- Ceiling and Floor Panels: .090"

4.3.6 Skin to Support Attachment

All exterior aluminum body panels shall be attached to the underlying structural supports via high performance polyurethane two sided tape. The tape shall have a polyurethane foam core for environmental resistance and an acrylic adhesive for a durable bond. The tape will be used as an insulating agent to hold the panels tightly against the structural supports, thus eliminating vibration and oil-canning. In addition to the tape attachment system, all panels shall be welded to structural members at the perimeters only. Welding in the center of the panels is not desired as the process will cause heat distortion of the body panels and lessen the overall quality of the finished appearance. Use of the tape, as described here, will eliminate heat distortion without damaging the structural integrity of the module body.

4.3.7 Outer Door Skin

The outer face of the door and the door edges will be formed from one sheet of metal. All doors will be flush with the body side. The outer skin will be .125" thick and will include a minimum tensile strength of 38,000 psi (5052H34 alloy).

4.3.8 Inner Door Reinforcement

The doors shall include an internal extrusion for added reinforcement. The extrusions will extend around the entire perimeter of the door. In addition to the extrusions reinforcing each outer door pan, the extrusions themselves will be reinforced through a dual joining method. First, each mitered corner, where the frame corners join, will be fitted with a one-way insertable key that prevents the corner from pulling apart. Secondly, each corner where the frame joins will be welded to further prevent pulling apart.

4.3.9 Inner Door Pan

An inner door pan shall fit flush with the inner edges of the door. Inner door pans that do not fit flush will have sharp or ragged edges exposed and will not be acceptable. The polished aluminum diamond tread plate panels must be attached to the door structure with machine screws and Nutserts to prevent stripping. Sheet metal screws or rivets will not be accepted. Lastly, a closed cell cross-linked polyolefin foam tape shall be used beneath the inner door panels to isolate the panels from the door frames. This process will prevent door rattling.

4.3.10 Door Seal

All module doors shall incorporate an extruded rubber seal located on the perimeter of the door. The seal shall insert into an appropriate groove in the inner door

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

extrusion. Glued on seals or seals that are mounted to the compartment openings are unacceptable, as they will easily be torn by loading or unloading of equipment stored in the compartment.

4.3.11 Door Jamb

To ensure continued door alignment and successful latching capabilities, all access doors will be encased by a door jamb that is separate from the body skin and welded to the 2"x 2" tubular body frame members.

In addition, the compartment frame will be designed in such a manner as to provide extra protection around the openings of the compartment.

Prior to installing the doors on the module body, the doors will be true fit to the doorjamb, and then later installed on the body. The fitting, prior to installation, shall further ensure the correct alignment of the door to the doorframe.

4.3.12 Door Hinges

All doors will have full-length stainless steel hinges, .070" thick and incorporating a .25" diameter pin. All hinges will have un-slotted mounting holes for an exact and permanent installation with door hinge screws installed using thread locker. All doors will close on hollow air cell, extruded rubber seals that insert into grooves on the doors (glued on seals are unacceptable because of lengthy replacement times). The hinges are to be installed so the module doors will remain in their correct alignment for a minimum of 15 years.

4.3.13 Hold-Open Hardware

The following door hold-open devices will be provided:
Compartment Doors: Gas filled 100-degree extension actuator
Side Access Door: Gas filled 110-degree extension actuator
Rear Doors: Chrome finish "Grabber" type hold open devices with rubber type inserts

REF: Cast Products or approved equal.

4.3.14 Door Handles and Latching System

A latching system is required that provides safety to all onboard personnel, patients and security to all stored equipment. The patient area must be capable of being quickly secured. The following minimum characteristics are to be incorporated into the module door latching system:

All door handles shall be rugged, automotive style handles that are near flush with the door skin. Each handle shall actuate a Nader rotary safety latch. The handle and latching system shall be designed by the handle manufacturer to accommodate electromagnet activation. Handles such as paddle style or "D" ring style that must be retrofitted are unacceptable. The City also requires on all door lock mechanisms concerning the rod and clip connection, the rod shall be drilled and a cotter pins be installed to prevent connection from coming apart

REF: Tri/Mark Series 2100 or approved equal.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

All three patient area access doors shall include both interior and exterior latch activators. The interior activator shall be located in a recessed pan located on the door. A manual locking/unlocking device shall be located in the pan. This pan shall be powder coated cast aluminum for extra durability and for ease of decontamination. No plastic products shall be used for this application. Provide six (6) interior emergency door “direct release” mechanisms at the latch locations, two (2) on each door, to facilitate entry upon handle, linkage and or power lock failure.
EXTERIOR KEY LOCKS ARE DESIRED ONLY ON THE CURBSIDE AND RIGHT REAR PATIENT AREA ACCESS DOORS.

Exterior, double door compartments shall include two latching devices. The primary door shall include an automotive style handle as described above. The free door shall also include an automotive style handle, but excluding key lock, located on the outside of the door.

ONLY PRIMARY COMPARTMENT DOORS & THE ELECTRICAL SYSTEM COMPARTMENT SHALL HAVE AN EXTERIOR KEY LOCK.

The access door latching system shall be a proven system that has been subjected to a dynamic sled test of at least 20 G’s for installation and retention characteristics.

4.3.15 Programmable Power Lock System

4.3.15.1 Patient Access Doors

The curbside & right rear patient module access doors shall have electro magnetically activated power door locks that are operated from a switch panel located on each door panel. Locks may be overridden by a manual slide lever or by the door key. This system shall also be interfaced to the OEM power door lock system for the cab chassis.

4.3.15.2 Compartment Doors

All compartment doors (EXCEPT RIGHT STREET SIDE INTERMEDIATE ELECTRICAL COMPARTMENT DOOR) shall have electro magnetically activated power door locks that are operated from a switch panel located on each patient access door panel. Each lock may be individually overridden by the use of a key. This system shall also be interfaced to the OEM power door lock system for the cab chassis.

4.3.15.3 Keyless Entry Touch Pad System

The power door locks specified above shall be operable from an exterior programmable touch pad system. Install three (3) touch pads as follows: one (1) on curbside of vehicle just to the rear of the side entry door, one (1) on the right rear body panel 4" below the red flashing light at window level and one (1) on the left front body panel at the shoreline auto eject receptacle. These touch pads are to

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

operate all chassis locks as well. Configure unlock code to 911** (** will be the Medic Unit Number).

4.3.16 Insulation Requirements

To insure good working conditions and to create a stable patient environment, the vehicle shall be manufactured with particular attention paid to sound control. The following process must be performed throughout the manufacturing cycle of the vehicle:

- 4.3.16.1** The underbody, body interior walls, roofs and interior compartment walls shall be completely coated with sprayable, non-flammable latex sound control coating.
- 4.3.16.2** The interiors of all access and compartment doors shall be coated with sprayable, non-flammable latex sound control coating.
- 4.3.16.3** The backs of all interior cabinets shall be wrapped in antiphon damping material.
- 4.3.16.4** Door interiors are to be lined with polydamp intefoam extensional damping pad.
- 4.3.16.5** The body structural tubes shall be filled with non-resonating dampening material.
- 4.3.16.6** Side stepwell areas are to be backed with PT Damping Pad.
- 4.3.16.7** All walls shall be insulated with 2" Technicon polyfiber acoustic insulation. Headliners shall be double insulated with 2" Technicon Polyfiber and a Reflectix barrier.
- 4.3.16.8** A .125" damping pad, a .125" sound barrier sheet, and a .625" composite floor panel shall be installed prior to installation of the floor covering.

4.3.17 Diamond Tread Plate

Diamond plate trim used in the construction process of the vehicle will be a minimum of .125" thick and shall be brightly polished. The material will possess a minimum strength of 3003 alloy. All trim must be attached by screws for ease of replacement or repair. The tread plate will be provided and installed at the following locations.

4.3.17.1 Rear Kick Plate

A 14" high, full width kick plate will be located on the rear of the module body, above the rear step. The riser shall provide clearance to allow auxiliary rear step to pass under rear of module and riser in the event of a rear collision. Provide PA license plate mounting

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

provision with LED style light illumination. Mounting location shall avoid contact with flip up step.

4.3.17.2

Curbside Side Step Well

The stepping surface inside the side entry door is to be fabricated from embossed aluminum diamond tread plate for compliance with NFPA 1917 standards.

4.3.17.3

Front and Rear Extended Corner Guards

Radius guards will be installed at all body corners, both front and rear and be an extended height from bottom of blue Scotchlite strip to bottom of module.

4.3.18 Miscellaneous Trim Features and Fixtures

The following trim shall be provided and shall be attached by screws for ease of replacement or repair by this purchaser.

4.3.18.1

Fuel Fill Guard

A cast aluminum protective guard will be installed around the fuel fill location and labeled accordingly as to the fuel type.

4.3.18.2

ICC Light Bezels

Bright metal protectors will be located on each ICC light.

4.3.18.3

Lower Rub Rails

Lower rub rails (New York Style) shall be made of solid dense black rubber; track mounted with tapered ends and located at the bottom of the module body sides, fore and aft of the wheel well.

4.3.18.4

Drip Rails

Aluminum drip rails will be located above all exterior compartments.

4.3.18.5

Stone Guards

Stainless steel stone guards will be located on the front of the module body, inboard of the lower corner guards. These guards shall be the same height as the corner guards in 4.3.17.3.

4.3.18.6

Rear Step Bumper

The rear of the vehicle shall be equipped with a step bumper assembly & covered with .125" polished aluminum embossed diamond tread plate. The assembly shall be spaced out from the rear kick plate a minimum of 1.5". The center stepping section of the assembly shall pivot up and over center on two (2) .5" bolts to stay in up position. This section shall be a minimum of 9.5" deep and shall be constructed with grip-strut on the stepping surface to provide for better footing. The rear step shall be reinforced with 2.00" x 2.00" steel angle for added impact protection. The ends of the assembly

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

shall be fixed & incorporate two (2) dock bumpers, approximately 2.5" high X 15" long X 2" deep. The ground clearance from the top of the step to the ground will be no less than 16". Two (2) pin and socket holders will hold the fold-up step firmly in the down position. This rear bumper assembly shall be mounted into two receivers (square hitch style trailer tubing) at each step hanger thereby facilitating easy removal by pulling a pin at each hanger.

4.3.18.7 Rubber Fenders

Extruded rubber fender flares shall be installed above each wheel well opening of the patient module body.

4.3.19 Exterior Compartments

All exterior compartments shall be vented to the outside in such a way as to prevent moisture from entering the compartment. Under no circumstances shall vents be installed within the compartment door. The compartment itself shall be constructed as an individual box and welded into the body structural framing. The material used shall be .125" polished aluminum diamond plate that is continuously welded at all seams. Each compartment shall include two strips of LED lights, one to either side of the compartment door, to provide lighting inside the compartment. Requested shelving is to be fabricated from 3003-H14 aluminum diamond plate. This material is to be .125" thick. All shelving is to include a 2" integral lip to prevent equipment from sliding off of the shelf & be adjustable within the compartment.

4.3.19.1 Street Side Forward Compartment (#1)

Clear Door Opening: approx. 19" wide x 81" high

Actual Compartment Dimension: approx. 22" wide x 84" high x 20" deep

This area shall be accessed through a single outside hinged door. The compartment shall house the vehicle's primary oxygen cylinder and be labeled "OXYGEN STORAGE ONLY." Provisions to mount an aluminum oxygen tank with the following dimensions on right compartment wall shall be provided: 26.00" CIRCUMFERENCE, 7.5" DIAMETER, 36.50" HEIGHT TO NECK OF VALVE STEM.

4.3.19.2 Street Side Intermediate Compartment (#2)

Clear Door Opening: approx. 52" wide x 28" high

Actual Compartment Dimension: approx. 55" wide x 32" high x 20" deep

This area shall be accessed through double, outside hinged doors. Both doors shall have exterior door handles and latching devices. Install a fixed divider in center of compartment. Right hand door to be keyed Trimark #2002 so only Fleet Service can access right side of compartment. Do not wire the keyless entry system to this door. Install all body electrical equipment in this right hand compartment.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

The left side compartment shall include one adjustable aluminum shelf.

4.3.19.3 Street Side Rear Compartment (#3)

Clear Door Opening: approx. 26" wide x 28" high

Actual Compartment Dimension: approx. 31" wide x 32" high x 20" deep

This area shall be accessed through double, outside hinged doors. Both doors shall have exterior door handles and latching devices. An adjustable shelf will be installed in the center of this compartment.

4.3.19.4 Curbside Rear Compartment (#4)

Clear Door Opening: approx. 19" wide x 81" high

Actual Compartment Dimension: approx. 24" wide x 84" high x 20" deep

“COMPARTMENT FLOOR IS TO BE SWEEP-OUT STYLE”

This area shall be accessed through a single outside hinged door and also provide interior entry regarding the shelving portion of the compartment. Furnish a 16.00" deep vertical divider centered in the compartment to accommodate customer supplied backboards. Install shelf track on the right side of the divider and right compartment wall along with three (3) adjustable 18 inch deep shelves in this area. Both sides of divider and compartment walls are to be flat aluminum and be covered with gray rubber matting.

Provide a STAIR CHAIR POCKET that is 40" high x 10" wide x 1.2" deep recessed into the interior panel of the outside hinged door. The pocket shall be installed as close to the bottom and hinged side of door as possible.

4.3.19.5 Curbside Forward with Battery Compartment (#5)

Clear Door Opening: approx. 22" wide x 79" high

Actual Compartment Dimension: approx. 27" wide x 82" high x 30" deep

This area shall be accessed through two (2) openings located on the curbside interior front wall cabinet, retain upper exterior door and frame for possible HVAC service accessibility. Further details shall be discussed at the preconstruction conference.

This compartment shall be used primarily for storage of customer furnished jump kits. The inside of this compartment shall be gray spatter paint and include two adjustable aluminum shelves. Include a lower single outside hinged door for exterior access to a battery compartment. Fabricate a rollout stainless steel tray to fit three (3)

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

heavy duty group 31 AGM batteries (see sections 14.2 & 14.3).

4.3.19.6 Compartment Matting

Provide black matting in each exterior compartment shelf and floor.
REF: Mateflex or approved equal

4.3.20 Patient Area Door Openings

4.3.20.1 Rear Doors

Two (2) doors shall be provided at the rear of the module body. The overall opening of the access shall be a minimum of approx. 58" in height x 47" in width. Both inside and outside door handles shall be installed on each rear door. Omit power lock and key cylinder from L/S door.

4.3.20.2 Side Door

One (1) side door shall be provided on the curbside of the module body. The opening shall have minimum overall dimensions of approx. 79" in height x 30" in width. The curbside skirt, forward of the rear wheel well shall be dropped three (3) inches. Two integral aluminum diamond plate steps shall be installed within the side access door stepwell for improved accessibility to the patient compartment. The design must be such that all steps are integral.

4.3.20.2 Automatic Step

Provide one (1) set of electric steps at the curbside access door to further assist in stepwell entry. Actuate with the opening & closing of side door. Further details shall be discussed at the preconstruction conference.

REF: Kwikkee Brand or approved equal

4.3.20.3 Windows in Patient Entry Doors

Each of these windows shall measure approx. 16.5"H x 17"W and be glazed and tinted in accordance with FMVSS. The windows shall have dark privacy glass and or one way glass; no films are to be used. This purchaser desires a product that enables one to see out of the patient compartment but not see in. Windows need to be encased in extruded aluminum frames. Under no circumstances will RV style windows, windows that rely on rubber gaskets, windows that do not feature extruded aluminum frames, or windows that do not meet the above stated minimum dimensions be acceptable. Further details shall be discussed at the preconstruction conference.

**REAR DOORS SHALL INCLUDE FEATURE FIXED WINDOWS.
SIDE DOOR SHALL HAVE A SLIDING PRIVACY WINDOW.**

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.4. Paint, Finish & Stripe Requirements

See Section 3.3

4.5 Interior Appointment Standards

The materials required for the interior appointment must be lightweight, yet rugged in design. Solid color coordinated panels are required in lieu of padded vinyl surfaces because of the tendency of padded vinyl to tear and gouge. In addition, the padding when exposed will potentially absorb infectious liquids.

All interior storage cabinets, including the interior of the squad bench, shall be painted for ease of cleaning. Under no circumstances shall carpet be used within these storage cabinets as it is impossible to decontaminate. The paint shall be treated with an antimicrobial agent & be gray in color. SEE ATTCHED DRAWINGS FOR CONFIGURATION

4.5.1 Ceiling

The patient area ceiling shall be constructed of a bright white aluminum composite material consisting of a polyethylene core laminated between two sheets of coated aluminum. The headliner shall be smooth, impervious to moisture, easy to clean and durable. It shall have the same rate of expansion and contraction as the aluminum body. Headliner that is padded or upholstered in any way shall not be acceptable, nor will any headliner made of wood or wood products due to the lower degree of durability and the risk of contamination inherent in such materials. Plastic or ABS type headliners are also not acceptable. Lastly, the headliner shall be coated with an antimicrobial agent.

REF: Alcopla or approved equal

4.5.1.1 Anti-Microbial Coated Ceiling Grab Rails

Grab rails shall be installed in the ceiling as noted below. These rails are to be constructed of stainless steel. Integral stanchions shall be welded into place at fixed points along the length of the rail for attachment to the ceiling. The rail shall attach through aluminum mounting plates that are welded to the module roof structure for strength and durability. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.

SPLIT RAILS FOR COT: TWO 2' SECTIONS

LOCATE: EACH SIDE OF CPR SEAT OVER COT

SINGLE RAIL FOR SQUAD BENCH: ONE 6' SECTION

LOCATE: AISLE EDGE OF SQUAD BENCH

The grab rails listed above shall have a removable vinyl pad installed for the protection of vehicle occupants. The vinyl shall be matched to the rest of the patient area upholstery.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.5.1.2 IV Hooks / Hangers

Provide two (2) flush mounted swing-down IV hangers with rubber arms.

Location: One (1) over waist area of cot

Location: One (1) at head of squad bench

REF: Cast Products or approved equal

Provide four (4) snap type IV hooks.

Location: Install one (1) in ceiling next to bench IV hanger & (1) on face of main wall cabinet trim, forward of the CPR seat approximately 4" from ceiling. Utilize spacers behind hooks as necessary to provide a flush mounting surface. Further details shall be discussed at the preconstruction conference for last two (2) hooks.

REF: Perko Snap Type Fender Hook or approved equal

4.5.2 Flooring

Provide 2.5mm thick hard-wearing, highly flexible gray safety flooring. It should be easily hot welded to produce a seamless and impervious floor, minimizing the ingress of dirt and helping maintain hygiene standards. The long-term durability and excellent slip resistance ideally lend it to application in medium to heavy duty environments. The subject floor covering shall be designed for low maintenance and include a bacteriostat for enhanced hygiene.

REF: Altro Designer 25, STORM (Color # ASD25903) or approved equal.

A radius cove molding shall be installed at all areas of the floor that may have seams. The 90 degree edges of the squad bench, the attendant seat riser, and the front wall cabinet shall be protected by a chamfered trim angle.

See section 4.3.4

4.5.2.1 Cot Mounts & Accessories

The following cot mounting hardware shall be installed per the instructions listed below. The installation shall meet the hardware manufacturer's installation guidelines. In addition, the installation process shall have been subjected to Hygee sled testing.

Cot safety hook: install a yellow cot safety hook just inside the rear door threshold of the vehicle. This hook shall be the type recommended for the cot being used.

Cot mounts: antler, rail & floor brackets shall provide utilization of side & center positions.

REF: Cot Model Stryker 6080 MX-PRO or approved equal.

Floor protection: Also install a 6 inch by full length 16 gauge stainless steel floor plate from the forward end of the rear door stainless steel threshold running from riser to riser.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.5.2.2 Fluid Dam

Install a matching Avonite fluid dam on the forward edge of the walk-through area & seal all edges with silicone. Position cove molding against patient area of the floor & seal with silicone.

4.5.3 Inhalation Panel

To prevent contamination, the inhalation panel shall be fabricated using no wood or wood based products. The material used shall be an aluminum composite material covered with gray Formica. It shall not absorb liquids and shall not attract bacteria, molds or fungi.

REF: Wilsonart Fashion Gray #381 or approved equal.

4.5.4 Patient Area Countertops

The patient area countertop(s) shall be constructed of a solid surface material. The countertops shall incorporate a 1" retention lip around the perimeter of the material. A radius cove molding shall be installed at either end of the countertops where the material meets the cabinet wall. The rear edge of the material, adjoining the side wall of the vehicle, shall be sealed with silicone. In addition, any and all areas that require seams due to manufacturing processes shall be sealed with silicone. This material shall be uniform throughout so that scratches can be buffed out without causing adverse effects on the appearance of the material.

REF: Avonite (Northern Melange) or approved equal.

Locations: Two (2) required, street side cabinet wall, one (1) to each side of CPR seat

4.5.5 Risers

The interior of this vehicle shall be constructed without the use of wood or wood-based products. The risers shall be constructed of a reinforced structural composite consisting of a high density polypropylene core laminated between two layers of .024" aluminum skin. The composite shall then be covered by a Formica laminate to match the interior of the vehicle. The finished riser panels shall be impervious to water or other forms of moisture and must be guaranteed against rotting or decomposition.

COVER ALL INHALATION, CPR, AND TELEMETRY COUNTER WALLS WITH FASHION GRAY LAMINATE. INSTALL ALUMINUM TRIM ON THE VERTICAL LAMINATE SEAMS

4.5.6 Aluminum Interior Cabinets

This specification requires an all-aluminum modular cabinet design. Aluminum, a minimum of .063" thickness, is required over wooden cabinetry due to its lighter weight, greater durability, and the ease with which it can be decontaminated. The main cabinet wall shall be of modular construction. All individual cabinets shall be of welded construction. To insure the safety of patients and attendants in the rear of the vehicle, the main cabinet wall installation shall have been tested to a minimum frontal impact of 20 G's. The main cabinet wall may not be constructed of any wood or wood product. Wooden cabinetry can warp, expand, contract, splinter, separate, or

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

crack. Wood will also harbor bloodborne pathogens whereas aluminum can be easily cleaned. Aluminum will remain stable and securely mounted (no fibers to compress) over many years and miles of continuous service. For these reasons, wooden cabinets, even when laminated with another material, will not be acceptable.

PROVIDE RUBBER MATTING AS NEEDED IN ALL INTERIOR COMPARTMENTS, FLOORS & SHELVES.

INSTALL A 2.00" X 2.00" STAINLESS STEEL PLATE ON EACH SIDE OF ALL HINGED PLEXIGLAS DOORS WHERE SLAM LATCHES ARE INSTALLED TO PREVENT DOORS FROM CRACKING.

ALUMINUM INTERIOR CABINET CONFIGURATION: SEE DRAWINGS

4.5.6.1 Aluminum Cabinet Warranty

The all-aluminum cabinet construction, as described within this section, shall be warranted against any structural defects for a period of time not less than 15 years. This warranty shall be stated within the manufacturer's structural warranty document, and shall not be subject to any mileage limitations.

4.5.6.2 Street Side Cabinet Wall

The street side main cabinet wall shall be constructed from aluminum as described above. Each cabinet within the cabinet wall shall be designed and constructed as an individual welded aluminum box. Each box shall be insulated and soundproofed. The boxes shall then be bolted together to form the main cabinet wall. The cabinet wall assembly shall be further insulated against noise and temperature extremes. The entire assembly shall be bolted to the module body structure. Cabinets that are welded or otherwise permanently affixed to the module body structure will be unacceptable. Likewise, cabinets mounted with the use of either rivets or adhesives of any kind will not be considered.

Cabinet Doors: All street side cabinet doors shall be clear Plexiglas and where applicable, sliding or hinged. Sliding doors are to include extruded pull handles whereas hinged require spring loaded lever style latches to meet NFPA 1917 standards.

Cabinet Shelving: All interior cabinet shelves shall be fabricated from aluminum. The shelves shall utilize mini Unistrut adjustable shelf track. Provide a minimum of six (6) shelves.

4.5.6.2.1 Restocking Cabinet Frames, Street Side

The street side cabinet(s) listed below shall feature sliding Plexiglas doors that hinge upward for cleaning and restocking of the cabinet in addition to

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

the normal sliding mode of operation. The extruded door frame shall be installed at the top with a full length piano hinge. This will allow the entire frame to flip upwards providing complete access to the cabinet. The door and frame shall be held in the "up" position with two gas-charged cylinders, and in the down position with two sliding dead bolt type latches installed vertically. The remainder of the door construction shall adhere to the appropriate section of this specification.

Locate: One (1) cabinet over inhalation area
Locate: Two (2) rear main wall cabinets

4.5.6.3 Curbside Interior Cabinets

All of the cabinets located within this section shall meet the same standards for construction, design, materials, and testing as designated in the previous sections.

Squad Bench Storage: A storage area, fabricated from .125" 5052-H32 aluminum, shall be installed beneath the squad bench cushions. This compartment shall be painted and trimmed per the cabinet construction section of this specification. Also provide stick on rubber matting as necessary. Access to this area shall be gained by raising the bench cushions. This space shall be as large as possible given the design mandates and the presence of the wheelhouse directly beneath this area. Note that storage areas made of wood, whether or not they are laminated or otherwise covered with another material, will not be acceptable.

Provision for three (3) "D" style oxygen bottles storage shall be provided at the forward end facing the curbside access door stepwell. The storage cabinet door shall be hinged and constructed similar to the exterior compartment doors.

An aluminum angled trim piece shall be installed along the bottom edge of each bench cushion. Each piece shall be bent to follow the contour of each cushion on the horizontal plane. These trim pieces shall provide added protection for the upholstery against extensive wear.

24 lb. gas piston style hold-open devices shall be installed on the flip-up squad bench cushion. A paddle style latch shall be installed on the flip-up bench cushion to hold the cushion in the "closed" position. The operation of this latch shall be passive and shall require intentional unlatching in order to raise the squad bench cushion. Latch is to be flush mounted in the face of the squad bench riser.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Install a full height welded aluminum crash resistant end restraint at the head of the squad bench. The restraint bulkhead is to incorporate a shatter resistant Lexan viewing window to the side access door area.

INCLUDE AN ELASTIC STORAGE POUCH ON BENCH SIDE OF RESTRAINT.

Bench Ceiling Cabinet: A cabinet shall be installed at ceiling level over the full length of the squad bench. This cabinet is to be fabricated from .063" 5052-H32 welded aluminum. The interior of the cabinet shall be painted per the cabinet construction description listed elsewhere within this specification. The cabinet is to be accessed through hinged Plexiglas doors with NFPA style latches that are held in the "open" position by gas piston hold-open devices. Additional padding shall wrap around the bottom side and forward end of the bench ceiling cabinet, also across the vertical face of the cabinet trim.

Curbside Rear Compartment: An inside / outside dual access storage area shall be provided as indicated in section 4.3.19.4. This space shall be accessible through both an exterior compartment door and a right hinged clear Plexiglas interior cabinet door.

4.5.6.4

Forward Wall Interior Cabinets

Like all other cabinets in the patient area that are to be provided and installed by the manufacturer, the cabinets on the forward wall are to be fabricated from aluminum as dictated in the appropriate section above.

Front Wall Cabinet: A cabinet shall be provided on the front wall of the patient area just inside the curbside access door. This cabinet shall run from floor to ceiling and shall be fabricated from .125" welded aluminum. The cabinet shall be anchored at both the top and bottom for stability. Under no circumstances shall this cabinet be welded to any module body structural member. This storage area shall be used to house purchaser supplied bagged equipment and supplies. Include three (3) shelves, one (1) fixed & two (2) adjustable. See section 4.3.19.5.

Upper access to the front wall cabinet, as described above, shall be provided per the description below:

Door Type: Hinged Clear Plexiglas

Quantity: Two (2) Equal Sizes

Latch Style: NFPA

Lower access to the front wall cabinet, as described above, shall be

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

provided per the description below:

Door Type: Solid Formica Covered Hinged Doors

Quantity: Two (2) Equal Sizes

Latch Style: Locking Type NFPA

Additional locks shall be required, further details shall be discussed at the preconstruction conference.

Cabinet Behind Attendant Seat: A vertical storage cabinet shall be located behind the attendant seat. The upper and lower section shall be used for miscellaneous storage. The left and right cabinet walls shall be fitted with Unistrut shelf track for an aluminum adjustable shelf. Each area shall be accessed through hinged doors with NFPA compliant key lock/latching devices. The entire cabinet shall be fabricated from aluminum. The interior of the cabinet shall be painted and trimmed as described in the cabinet construction section of the specification. Provide two (2) solid Formica covered doors & three (3) shelves, two (2) adjustable & one (1) fixed.

4.5.7 Interior Access Door Panels

Provide composite covered by a Formica laminate to match the interior of the vehicle. The lower portion of the patient area entry doors shall be covered with single sheets of stainless steel. All interior entry door panels to be three (3) piece design. Configure so latching mechanism can be serviced without removing door grab rail or entire door panel.

INSTALL STAINLESS STEEL VERTICAL ANGLES ON THE INNER EDGES OF THE REAR DOORS TO PREVENT DAMAGE FROM LOADING COT.

4.5.7.1 Patient Area Door Grab Rails

Angled door handles shall be installed on the interior door panels of each access door. The handles shall be one-piece and shall be constructed of stainless steel. The handles shall feature smooth radius corners and flange mounts at each attachment point. Because contamination occurs most often as a result of contact, this feature must be treated with an anti-microbial agent consisting of an inorganic ceramic coating embedded with silver ions. This coating shall be effective against a broad range of microbes including bacteria, molds, algae and fungi.

4.5.7.2 Door Panel Conspicuity

Red Scotchlite strips, 2" x 12", shall be installed horizontally across the top of each entry door. Red reflectors will be provided on the interior panels of all patient entry doors in order to warn oncoming traffic of opened doors. The reflectors need to be located at the top & bottom outer corners of the door panels. Reflectors are to be doubled in all locations.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.5.8 Assist Handles

Install an assist handle at all entry points on the vehicle per NFPA1917 requirements. The handle is to have a knurled anti-slip finish.

Locate: Next to Front Wall Cabinet & Side Access Door

Locate: Street Rear Riser

Locate: Curbside Rear Riser

4.5.9 Interior Seating

All upholstery specified throughout shall be not less than 32 oz. Naugahyde. To enhance cleaning and disinfecting, the material shall be manufactured with an antimicrobial agent embedded into the fabric All seat belt installation techniques shall meet current FMVSS standards. In addition, the installation techniques shall be tested through a SLED test of at least 20 g's. Signs that read "Occupants Must Be Seated & Belted When Ambulance Is In Motion" shall be visible from each seated position.

4.5.9.1 Attendant Seat

An attendant's seat base shall be fabricated from aluminum and shall be installed in a position at the head of the cot. A bucket type seat with a built-in child safety seat and 3-point occupant restraint shall be installed on the seat base in the rear-facing position. The seat shall be upholstered to match the vehicle interior, and shall be capable of adjustment from front to rear. Under NO circumstances shall this seat be installed in any manner that allows it to swivel due to the lack of stability and weaker structural characteristics inherent in such designs. The entire seating assembly, as described here, shall be subjected to a Hygee sled test of at least 20 G's to test the structural integrity of the design, as well as seatbelt retention characteristics, in order to assure a certain level of safety for the vehicle occupants.

REF: EVS Model 1800 Seat or approved equal

Construct a custom seat base that is 4.00" wider than standard to allow the seat installation more in line with the cot at the centered position. Make the seat base as low as possible, approximately 10 inches high.

Provision for three (3) "D" style oxygen bottles shall be provided at the aisle side of the attendant's seat base. The cabinet door shall be hinged and constructed similar to the exterior compartment doors.

4.5.9.2 CPR Seat

Provide street side wall CPR seat per drawing with applicable three point seat belt system.

4.5.9.3 Squad Bench Seating

The squad bench shall be designed for one person lying in the prone position or three people in a sitting position. Provide applicable two & three point seat belt system. See section 4.5.6.3.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.5.9.4 Seat Belt Warning System

Provide an occupant restraint warning system for each designated seating position in the patient compartment per NFPA 1917 latest edition.

4.5.10 Interior Occupant Protection

For the safety of occupants in the patient area, the vehicle shall be equipped with an interior occupant protection system incorporating an emergency inflatable airbag system at the attendant, squad bench and the CPR seat locations. In the event of a side impact rollover collision, the bags shall be triggered by an electronic sensor to inflate and protect the occupants against severe head strikes typical of such collisions.

The attendant seat location shall be protected by an inflatable head cushion technology as well as a unique inflatable tubular system to prevent the attendant from impinging into the danger zones of the inhalation area.

The CPR seat location shall be protected by a combination of an inflatable tubular system at the forward side to protect against entry into the inhalation area as well as a system of progressive resistance head protection cushions. The progressive resistance head protection cushions shall incorporate layers of foam of increasing densities. Should a head strike occur, then the increasing density of the cushion as the impact progresses shall lessen the likelihood that the head will reach the aluminum cabinet material behind the cushions. It should be noted that standard single density foam cushions will not meet the requirements of this section. The bidder must have performed both actual impact tests as well as computer simulations in order to test the efficacy of this material in reducing head strike intensities to a survivable rate.

As part of the interior occupant protection system, the vehicle shall have (2) inflatable head cushions (airbags) installed to protect the head of the occupant seated in the forward & rearward positions of the squad bench. The restraint deployment shall be simultaneous with all the other patient compartment airbags activated by the electronic rollover crash sensor installed on the vehicle.

All airbag seating locations shall have been tested with a variety of occupant sizes. Those tests shall include Hybrid III fully instrumented test mannequins including 5% child (115 lbs.), 50% female (163 lbs.), and 95% male (195 lbs.). Testing shall have included at least fourteen (14) fully instrumented destructive dynamic roll crashes and an additional six (6) side impact destructive crashes. Roll crash testing shall be performed at 17-19G's while side impacts shall be approximately 27G's.

The vehicle must have been certified as compliant to standards ECE R29, SAE J2420, and SAE J2422. The bidder must show evidence that their service facility is trained and certified to service or to replace the airbags should the need arise. Such certification shall be attached to the proposal.

Each seating position shall include seat belts as follows:

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Attendant seat: Three point seat belt

CPR seat: Three point seat belt with removable third point latch

Ends of squad bench: Three point seat belt with removable third point latch

Center of squad bench: Two point seat belt

Each seat belt shall have been tested to verify its latching capabilities and performance as well as the extent to which it allows movement by the "spooling effect" within the retractor. Those tests shall verify that this spooling effect allows less than three inches (3") of belt travel before latching.

There shall be a barrier constructed at the head of the squad bench that will provide a 16" high restraint which, when working in conjunction with the above three point belt system will assist in securing the occupant in the event of a rollover collision.

4.6 Miscellaneous Accessories & Equipment

Provide the following miscellaneous accessories and equipment with each ambulance delivered. Installation shall be required in each vehicle where noted.

ITEM #1: Sharps container & bracket, each unit shall be delivered will one (1) Sage Products (P/N: 38981) wall bracket and one (1) (P/N: 8980) sharps container. The unit shall be located on a reinforced upper portion of the curbside compartment wall over the foot of the squad bench. Install with machine screws and nuts utilizing rubber coated clamps. No self-tapping screws shall be used.

ITEM #2: Flashlights, install only two (2) Streamlight Stinger flashlights complete with chargers at the cab center console area. The location to be determined at the pre-construction conference and the two (2) subject flashlight kits per vehicle will be supplied by The Philadelphia Fire Dept. EMS.

ITEM #3: Provide one (1) set of "Z" Type snow chains compatible with chassis tire size.

REF: Peerless/Security Chain or approved equal.

ITEM #4: Provide one (1) Lifepak 15 mounting bracket & install at street side telemetry wall counter top. Shorten counter top cabinet height to 12 inches. Further details shall be discussed at the preconstruction conference.

ITEM #5: Supply, install & wire two (2) Streamlight Fire Vulcan LED Flashlight kits (P/N 44450). Installation locations will be determined at the pre-construction conference.

ITEM #6: Provide a new vehicle all filter service kit to contain engine oil filters, engine air filters, transmission filters, cab chassis & ambulance body HVAC filters (cabin filters). All parts to be OEM Brand.

4.7 Medical Oxygen & Suction Aspirator System Standards

Providing a safe and responsive NFPA 1917 (latest edition) compliant medical oxygen and suction aspirator system is essential to this purchaser in providing proper patient care. The

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

oxygen and suction systems shall be complete upon delivery with the exception of the O2 cylinder. The cylinder shall be supplied and installed by the purchaser after delivery of the vehicle has taken place. The oxygen system shall be responsive, in that the flow to the outlets must be activated without hesitation. The oxygen system must be safe, in that all oxygen lines must be protected against sudden, unexpected high pressures due to defective regulators. When bottle pressures drop below certain levels, reflecting that it's time to change the cylinder, user personnel must be quickly advised. If an oxygen regulator falls out of calibration, causing pressures that are too high or low for proper and safe treatment, personnel should also be quickly advised. To reduce the levels of occurrence for improper oxygen delivery, the system shall be designed as follows.

4.7.1 Oxygen Delivery System

The oxygen delivery system shall be designed around a single piece manifold assembly. The manifold assembly shall incorporate ports for installation of delivery lines to all specified outlets, installation of an electrically activated oxygen delivery solenoid and installation of a manual override valve for the electrical activation. The manifold shall be located behind the inhalation panel for ease of access.

4.7.2 Oxygen Delivery Lines

No high-pressure oxygen lines shall be plumbed into the patient area. A single, low pressure line from the regulator to the manifold assembly shall be installed. No connections shall be installed in the line, between the regulator and manifold. To prevent crimping of the exposed line located in the cylinder storage compartment, the line shall be protected with a flexible spring guard. In addition, a breakaway elbow protector shall be installed where the line makes any 90 degree bend (normally where the line passes from the O2 bottle storage cabinet, into the patient area interior).

4.7.3 Oxygen Activation & Manual Bypass

The switch, located on the rear control panel and labeled "OXYGEN", shall activate the solenoid. This design will allow for the instantaneous flow of oxygen while eliminating the need to manually turn a valve to initiate oxygen flow.

The oxygen solenoid shall be equipped with a manual bypass valve. Located behind the inhalation panel, the valve shall be easily accessible so that, in the unlikely event of an electrical failure, administration of oxygen may continue.

4.7.4 Oxygen System Monitoring

The condition of the oxygen system shall be continually monitored and reported to the vehicle operators through the vehicle's onboard electrical system. Digital readouts containing the information listed below shall be available primarily at the patient area control console. The secondary location for availability of this information shall be the cab console. The information available shall include the following:

CYLINDER PRESSURE & LINE PRESSURE

In addition, this system shall be designed to offer a warning, both audible and visual, if the condition of the oxygen system falls outside of the following pre-programmed parameters:

- Low Cylinder Pressure (500 psi or below)

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

- Low Line Pressure (40 psi or below)
- High Line Pressure (75 psi or above)

These oxygen system warnings shall immediately notify the personnel of a problem, again, via a digital readout and audible alarm. The system shall require the personnel to acknowledge receipt of the information.

4.7.5 Oxygen Cylinder Installation

See Section 4.3.19.1

Provide one (1) vertical track for mounting of cylinder bracket & weld on the back wall of compartment #1 in the right hand corner.

Provide one (1) "M" size oxygen cylinder bracket.

REF: Zico # QRMV or approved equal

REMOTE MOUNT THE O2 TANK REGULATOR & TRANSDUCER ON THE RIGHT COMPARTMENT WALL IN A BRACKET. INSTALL A 2 FT. STAINLESS STEEL BRAIDED HOSE FOR REGULATOR TO TANK CONNECTION.

USE A CGA 540 HAND-TIGHT NUT FOR THE O2 REGULATOR IN LIEU OF STANDARD.

4.7.6 Primary Oxygen Outlets

The oxygen outlets installed in the vehicle shall be Ohio Medical Quick Connect style outlets. Two (2) oxygen outlets shall be installed, one (1) in the rear inhalation panel and one (1) in the ceiling area over head of cot.

4.7.6.1 Additional Oxygen Outlets

Further oxygen outlets shall be installed as noted below.

Quantity: One (1)

Locate: FORWARD END OF SQUAD BENCH OVERHEAD CABINET

Quantity: One (1)

Locate: REAR OF THE STREET SIDE RISER.

Install with a control switch in a recessed pocket. Utilize a minimum size closeout inside adjacent rear compartment.

4.7.7 Suction Aspirator

The manufacturer shall furnish and install an SSCOR suction system. The system shall include a #107CDC20 pump, a #22000 wall-mounted regulator, and a #23002 canister holder. The aspirator shall be accessible for use from the inhalation area per the attached drawings.

INSTALL CANISTER HOLDER AT FORWARD END OF INHALATION AREA NEXT TO THE 110V OUTLET.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

LOCATE PUMP IN R/H SIDE OF EXTERIOR BODY COMPARTMENT #2

4.8 Low Voltage Converter Added Electrical System Standards

The converter added electrical system must meet all current ambulance design standards. This electrical system has proven to sometimes be the most complex and troublesome system on this type of vehicle. A system is desired that is simple in design so that electrical problem diagnosis and repair time can be minimized. The electrical system must be thoroughly engineered and manufactured to allow simple personnel operation. Finally, the system must be designed so that the probability of experiencing dead batteries, shorted electrical components and engaging in lengthy troubleshooting procedures will be reduced.

All body builder added relays shall be in sockets, securely mounted and function labeled. Additionally, power distribution centers and fuse / relay panels must also be function labeled along with electrical schematics / component locators mounted to their applicable enclosures.

Past experience has shown that the electrical output provided by the chassis charging system can be marginal and under certain circumstances the electrical load can exceed the alternator output. In addition, some electrical systems have not provided proper circuit protection and at times have not provided adequate wiring for the load. To address the above objectives, the following minimum electrical system design is required.

4.8.1 Multiplexed Electrical System

Because most chassis manufacturers have chosen multiplex electrical communication technology to operate the chassis system, this purchaser requires the same technology for the converter-added systems. A standardized electrical control and wiring system is required. The central processing distribution board must be pre-printed and must be common in design and interchangeable between all similar models offered by the manufacturer. The vehicle manufacturer must own and control all rights to the electrical system. Standard systems controlled by outside vendors and modified for a specific vehicle or manufacturer will not be acceptable due to the unpredictability for future parts or service. Switch panels or main boards that are not standard in design and are not interchangeable from one unit to another will not be considered. The system must consist of logic-controlled solid state circuitry installed on a pre-printed circuit board. Since solid state logic-controlled technology is commonly available and not proprietary to any one manufacturer and has been proven to be more reliable with greater benefits, a blanket exception or clarification regarding the electrical specification is not acceptable.

In addition to the main distribution board, the system will consist of a series of input or output control modules to manage and feed information and to control the various circuits required by this specification. All modules shall be pre-printed, solid state devices. Each output module must have 10 or more outputs and shall communicate with the central processing unit over a single wire. The output modules shall be capable of carrying at least 10 amps load per output or a total load of at least 50 amps per module. The total system must be capable of expanding to control at least 160

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

output circuits. Each input module must have 10 or more switch inputs. The total system shall be capable of expanding to handle at least 40 inputs.

Under no circumstances will systems be acceptable that utilize screw type terminals or card connectors due to their susceptibility to working loose due to vibration normally encountered on a vehicle.

The system shall include as standard at least 16 analog inputs to manage information such as oxygen pressure, amperage, voltage etc. coming from an analog source. These analog inputs must be capable of being used in logic statements to enhance the operation and control of the vehicle.

Under no circumstances may the operation of the central processing unit or the input or output modules be based upon the operation of mechanical relays. Relay based systems require higher amperage operating current and rely on mechanical contact points designed to degrade with use, creating short duty cycles for the vehicle electrical system. Relay based systems, due to those limited short duty cycles, will not be acceptable for the requirements of this specification.

The central processing unit shall be fully programmable and shall control a number of functions. The minimum functions to be controlled are as follows:

- *No Load Starting Circuit
- *Sequenced Start Circuit Activation
- *Climate Control Heat/AC operation
- *Oxygen Warning System (high and low pressure)
- *All Warning Light Flashers and Flash Patterns
- *Load Management
- *Electrical System Diagnostics
- *Intensity Controls for Patient Dome Lights
- *Patient Status System
- *Electrical Diagnostics

LOCATE SYSTEM IN R/H SIDE OF EXTERIOR BODY COMPARTMENT #2

PROVIDE SYSTEM ELECTRICAL SCHEMATIC / COMPONENT LOCATOR MOUNTED TO INTERIOR DOOR PANEL OF COMPARTMENT #2

4.8.2 Circuit Protection

Each converter added electrical circuit must have circuit protection for both over current limit and over temperature condition. The circuit protection shall be provided by solid-state circuit breaker/switching devices (MOSFETS) for both the input and output wire feeds for each circuit. The circuit protection shall require no user intervention such as that required for circuit breakers or fuses. For added protection and system reliability, all MOSFETS shall have heat sinks. The system shall indicate an output fault warning on the digital display in the driver control area. Upon a malfunction occurring, the warning shall identify the specific module and the output number for easy troubleshooting and to minimize ambulance down time.

4.8.3 Field Proven & Time Tested Electrical System

The converter-added electrical system represents the most important system in the design of this ambulance. Reliability and proven performance is essential. Therefore, the bidder must be able to demonstrate that he has at least five years' experience with solid state logic-controlled electrical systems installed in emergency vehicles.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Further, the bidder must be capable of all programming required by the system without turning to outside vendors. This includes custom-programmed items as may be delineated in this specification.

The bidder may be required to demonstrate an in production or in service vehicle in order to guarantee compliance with this requirement. Prototype or first of a kind electrical systems are not acceptable. The purchaser may require the bidder to furnish specific references to further document compliance.

4.8.4 Battery Switch

A two-position power selector, turning the battery power to the ambulance systems either “on” or “off” shall be furnished. The switch shall be located on or near the driver’s seat base or cab center console. Unless otherwise specified; the battery switch shall not disconnect power to the OEM chassis systems.

4.8.4.1 Battery Switch “On” Exterior Indicator Lights

Install green weatherproof LED lights on the street side front and rear face of the body. Wire the lights to indicate that the battery switch is on when the engine is not running. Lights are to go off when the ignition is activated. A WEATHERPROOF LABEL FOR EACH LIGHT WILL BE PROVIDED TO READ: “BATTERY ON”.

REF: Whelen P/N 0SG00SCR or approved equal

4.8.5 Wiring

The following minimum wiring standards are required:
Identification by color, by itemized number, and by actual circuit name, stamped every four to six inches.

Size will vary and will be dependent upon each wire being able to carry a minimum of 125% of the actual circuit load.

Protection of wiring: All wiring must be run in breakaway wire loom for protection against abrasion or chafing.

All insulated wire & cable shall conform to SAE J1127, Low Voltage Battery Cable, or SAE J1128, Low Voltage Primary Cable, type SXL, GXL, or TXL.

4.8.6 Automatic Load Management

In order to insure that onboard personnel attention is focused on victim care rather than being occupied with monitoring vehicle systems, an automatic load management system is required. The bidder must provide a system that continually monitors the vehicles charging system while it is sitting on scene. The system design shall have the ability to automatically shut down not less than ten pre-programmed electrical circuits to prevent a deficit charging condition while the vehicle is sitting at idle. The system shall be programmed to automatically scan the electrical system on one-minute intervals.

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

If a deficit charging condition continues for more than one minute, a pre-programmed circuit shall shut down, correspondingly reducing the electrical draw. If the deficit condition continues, a second circuit shall automatically shut down. This process shall continue to repeat at one-minute intervals until at least ten circuits are shut down with corresponding load reductions. In the event any circuits are being controlled (disabled) by the load management system, the driver must be informed in two ways. First, a digital display warning shall appear on the driver information panel indicating Load Management Active. At the same time, the L.E.D. switch indicator light shall begin to flash for each specific circuit that is being disabled. Systems that cannot indicate specific circuits being affected by the Load Management System are not acceptable.

Load management systems must be programmed through a microprocessor based logic and memory system rather than a series of mechanical relays. Systems that require manual activation of Load Management will not be acceptable. Once the deficit condition ceases to exist, the system must be capable of restarting any disabled circuit without any action required by the driver.

The bidder is required to furnish a system that permits the end user, if he so desires, to determine prior to production the order of priority for shedding loads. Although the entire system must function automatically, it must also be designed so that it can be set by the end user to a System Off mode for restocking, training, or maintenance convenience. The System Off setting shall not be merely a switch which would permit the operator to easily turn off Load Management. The intent is to keep the system active at all times when the vehicle is in operation.

4.8.7 Low Amperage Switching

Electrical devices that are not activated automatically shall be controlled from either the cab or patient area control panels through the use of manual switches. A low amperage switch that sends only an on/off signal to the central electrical distribution area is required. The switches provided shall have documented durability ratings at a minimum of fifty million (50,000,000) cycles. The switch design shall include magnetic technology to attain the required durability ratings. Membrane or rocker style switches will not be acceptable due to their tendency to degrade and fail in continued field use. To eliminate loose or poor contacts, it is unacceptable to have soldered or terminal type connections for the switches. The switches must be an inherent part of the panels.

4.8.8 Switch "On" Indicator Light

All switches (unless otherwise noted) on the panels described below shall include a red L.E.D. indicator light that will indicate when power is being applied to a circuit. Designs that have indicator lights that activate to indicate switch position only are not acceptable. In addition, the indicator lights shall be independently programmable to flash or steady burn as required meeting the end user specification.

4.8.9 Switch Panel Design

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Each console shall contain a combination of control switches as described above and also an integral digital vacuum florescent message center. The message center shall provide driver & attendant information as described below. The message center is required over the use of buttons, lights or gauges because of the ease in acknowledging the specific information. The drivers display shall be capable of displaying at least four sets of 20 character messages at one time. The rear display shall be capable of displaying two sets of 20 character messages at the same time. Both the cab and patient area switch panels shall be fabricated on a pre-printed circuit board.

Any spare or unused switches must be capable of being programmed later for additional functions including the ability to act as macro switches (one switch activating multiple features) without the need for rewiring.

The switch panels shall be fabricated so that they can be removed for service in less than three minutes. The removal of each panel shall be facilitated by the use of a single four-wire connector for panel control and communication. It shall be flush to the panel surface and shall meet the following requirements for decontamination and spill resistance.

4.8.9.1 Switch Panel Decontamination & Spill Resistance

Both the driver and the patient area switch panels must be designed so they can be easily decontaminated. Current designs make decontamination impossible when an attendant must use a contaminated glove to operate the switch panel while treating a patient. These areas become breeding grounds for bacteria. For this reason, the switch panels must be built in such a manner that there are no openings or crevices on the panel faces. The entire switch panel must be sealed with a protective overlay material. There shall be no printing or labeling on the face of this material. Holes in the panel through which switches, backlighting, or legends are inserted will be unacceptable. The panels must be cleanable with any commercially available spray type cleaner or disinfectant commonly used by fire and EMS services with no damage created by fluids leaking through openings onto the circuit boards or switch contacts.

The panel surface must be covered with a polyester film laminate for enhanced solvent resistance, strength, and durability. Both front and rear switch panels shall have been tested to at least a 24 hour exposure under DIN 42 115 Part 2 for the following commonly used chemicals: hydrogen peroxide <25%, bleach <20%, glycol, isopropanol, xylene, benzene, phosphoric acid <30%, ammonia <2%, hydrochloric acid <10%, acetic acid <50%, sulphuric acid <10%, diesel fuel, silicone oil, linseed oil, Windex, Formula 409, Fantastic, Wisk, Downey, washing powders, fabric conditioner, Ajax, and glycerin. The bidder shall be required, if asked, to provide the appropriate documentation showing that the above chemicals

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

produced no visible damage after at least a 24 hour exposure. Bidders should be cautioned that commonly used polycarbonate or vinyl membrane fascia and nameplate substrates for electrical panels will not meet this requirement.

The panels shall be spill resistant to shed accidental moisture from spilled soft drinks or coffee cups. In addition, the surfaces of the panels shall be antimicrobial. This purchaser reserves the right to request documentation showing that the panel surfaces will kill microbes on contact. This antimicrobial property is to be inherent in the surface material itself and shall not need to be reapplied at any point in the future. Products offered that include aftermarket treatments of the panel surfaces will not be considered.

4.8.9.2 Switch Panel Backlighting

Switch panels shall have backlight with fiber optic technology, powered with high intensity L.E.D. lights. All switch perimeters shall be lighted and raised for ease of switch location at night.

The rear switch panel shall include an individual intensity control. Switch panel lighting that operates at the same level as the cab instrument panel or that illuminates both the front and rear panels at the same intensity will not be considered.

4.8.9.3 Cab Control Switching & Digital Display

The cab control center shall include: two (2) separate switch panels and one (1) display panel in the upper left portion of the cab OEM dashboard as follows:

The left switch panel shall contain “EMERGENCY LIGHTS”, “PRIMARY/SECONDARY” and “SECURITY” switches.

The right switch panel will include “FLOOD LIGHTS”, “CHANGE DISPLAY” and “WARNING RESET” switches.

The “Emergency Light” switch shall activate all emergency lighting.

The “Primary/Secondary” control switch will function as follows: If the vehicle is placed in gear all emergency lights will be activated, if the vehicle is placed in park, the system will default to secondary mode but may be overridden by depressing the Primary/Secondary switch.

The “Flood Lights” switch activates the side scene lights on both sides of the vehicle. The door open circuit and reverse activated circuit will activate the rear loading lights. The opening of the side access door will activate the curbside scene lights.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

The "Security" switch will activate the Security Idle System in section 4.8.22.

Digital Message Center: The following digital displays will appear on the faceplate of the cab console when selected.

- *Voltage (to the nearest 0.10 volt) *Amperage (to the nearest amp)
- *Engine Tachometer *Inside Patient Area Temperature
- *Access or Compartment Door Open Warning Message
- *Oxygen Warning For Both Tank and Line Pressure
- *Electrical System Diagnostics *24 Hour Clock
- *Trip Odometer *Emergency Brake Warning
- *The system shall be capable of displaying specific verbiage as directed by the customer.

4.8.9.4 Patient Area Control Switches & Digital Display

Switch Activation: the patient area control center shall include approx. 28 switches installed in a backlit aluminum control panel. The following circuits shall be provided on the switch panel:

- *Rear Heat/AC Activation and Separate Temperature Control
- *Rear Heat/AC Fan Speed Control *Power Vent
- *Cot Dome Lights and Bench Dome Lights
- *Oxygen and Suction *Stop Clock
- *Oxygen Line Pressure *Oxygen Cylinder Pressure

Digital Message Center: The following digital displays shall appear on the faceplate of the patient area control console when selected.

- *Patient Area Temperature *Thermostat Setting
- *Oxygen Tank Pressure *Oxygen Line pressure
- *Oxygen Warning *Stop Clock
- *The system shall be capable of displaying specific verbiage as directed by the customer.

4.8.10 Door Open Indicator System

A Door Open warning indicator, with accompanying audible chime shall be installed in both the cab and patient area. A digital display shall appear on both consoles indicating which specific door has been left ajar. In the case of access doors, the display will read Front Access Door Ajar or Rear Access Door Ajar. In the case of a module compartment door, the display will read Compartment #1 Ajar etc.

4.8.11 Body Compartment & Access Door Trigger Switches

Exterior circuits such as loading lights, side scene lights and compartment lights shall be activated by low amperage, non-mechanical switches. The type of switch desired is a magnetic sensitive switch that activates the circuit when the magnetic plane is broken. Plunger type switches are not acceptable because of their short useful life and higher amperage requirements.

4.8.12 No Load Starting

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

To assure the ability to start the unit, the vehicle electrical system must have the ability to manage electrical loads during the engine startup or cranking period. The system shall automatically shut down all converter-added electrical loads when the ignition is activated and the engine is cranking. Once the engine has started, the system shall automatically turn back on all loads that were previously in the on condition. This feature must be accomplished by system programming and not by means of a relay or a series of relays which are subject to failure; thereby causing the entire converter-added electrical system to fail. Relay based systems will not be considered.

4.8.13 Variable Throttle Advance

In order to reduce the number of component parts and unnecessary throttle linkages, the factory electronic throttle control shall be utilized to activate the throttle advance system. The controls shall require that the chassis be placed in Park or Neutral with the Module Disconnect switch in the on position and the Park Brake engaged before activation of the throttle advance. A digital display warning on the driver console, accompanied by an audible tone, must instruct the driver to “Set Park Brake” or “Release Park Brake” to engage or disengage the automatic throttle control.

4.8.14 Sequenced Start Circuit Activation

To prevent the heavy load burden placed on the alternator and charging system when all emergency warning circuits are activated at the same time by pre-loading the master switch, the vehicle electrical system shall automatically sequence all load-managed warning circuits so they come on one at a time. This sequenced start activation shall be an integral part of the electrical system and shall be accomplished without the use of relays or aftermarket add-on systems.

4.8.15 Electrical System Diagnostic Check

The electrical system must have built-in capability to self-check each converter-added circuit and identify a short or open circuit by means of a single diagnostic switch. The diagnostic system shall be operable from the driver’s seat without exiting the vehicle. Diagnostic systems that are incorporated into exterior compartments, patient area interior cabinets, or remote locations will not be acceptable. The relevant information shall be displayed on the digital display on the cab switch panel. When the operator activates the Run Diagnostic switch, the unit will initiate the systems check. The digital display shall flash the message Running Diagnostics while the check is in progress. The system must go through all outputs for the vehicle to check for malfunctions. If a malfunction is found, the display shall stop flashing and steady burn to indicate the message Module #, Output #, Fail. This message will direct the service staff to the correct output module and the correct wire number in order to troubleshoot and repair the system. Once a failure is identified, the operator may continue to run the remainder of the diagnostic by pressing the Warning Reset switch.

4.8.16 Module Disconnect Default

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

The "Module Disconnect" circuit shall default to the "ON" position when the battery switch is activated. There shall be no manual switch. Manual activation of a switch is not desired.

4.8.17 Battery Conditioner

An on board battery conditioner or charger shall be provided and installed in the street side intermediate #2 compartment. This unit shall be wired through the vehicle shoreline inlet and have a rated output of 45 amps minimum.

REF: IOTA Engineering DLS-45/IQ4 or approved equal.

4.8.18 12 Volt Power Point Outlets

Provide three (3) heavy duty 20 amp cigarette lighter style power outlets. All outlets shall have dust caps / covers, be function labeled and incorporate Schottky Medical Diode isolation. In addition, configure outlets to be 12 volt battery hot at all times; each through a 20 amp manual reset circuit breaker. Locate as follows:

TWO (2) FORWARD ACTION WALL, ONE ON EACH SIDE OF 120V OUTLET
ONE (1) CURBSIDE UPPER FRONT WALL CABINET, LEFT CORNER

4.8.19 Module Disconnect Timer

The "Module Disconnect" circuit shall be wired to shut down when left in the "On" position with the engine not running and the battery switch "On". If the shoreline is plugged in, then this feature will be disabled. Toggling the Module Disconnect switch shall reset the circuit for an additional time interval. The time interval shall be adjustable through software programming.

Time Out: THREE (3) MINUTES

Configure: DO NOT TIME OUT IF SHORELINE IS CONNECTED

4.8.20 Emergency Brake Warning

When the vehicle is placed into "Park" or "Neutral" with the battery switch "On", then an audible alarm, accompanied by a visual readout on the cab console digital display, shall warn the vehicle operator to engage the emergency brake. Likewise, when the vehicle is placed into gear, then the same alarm will sound with a visual display warning the operator to disengage the emergency brake.

PROGRAM A FIVE (5) SECOND DELAY BEFORE THE ALARM ACTIVATES.

THIS ALARM SHALL BE DIFFERENT, DISTINCT & LOUDER THAN ANY OTHER CHIMES UTILIZED IN THE VEHICLE BUILD. LOCATE ALARM TO PREVENT OPERATOR TAMPERING.

4.8.21 Clock

Provide a 6" dial battery operated clock that features green 12 volt fluorescent back-lighting, a second hand and 12/24 hour time. It shall be installed on a hinged panel to aid in adjusting the time and changing the battery.

REF: TrinTec Industries or approved equal

LOCATE CLOCK IN PATIENT AREA ABOVE REAR ENTRY DOORS

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.8.22 Security Idle System

A solid state security idling system shall be provided on the vehicle. With the system in the on position, the driver may remove the vehicle keys with the engine running. If the vehicle is placed in gear without returning the keys to the ignition, the system will sound the vehicle horn, flash the marker lights and automatically shut down the engine to prevent vehicle theft. The desired system must be integrated into the vehicle’s programmed electrical system. Aftermarket add-on units are not acceptable.

4.9 Line Voltage Converter Added Electrical System Standards

The ambulance shall be furnished with a 2-wire plus ground 125 volt AC wiring system that is separate & distinct from the vehicle’s DC wiring system(s). This system is to be utilized while the vehicle is stationary for powering maintenance devices, medical equipment & battery chargers. Provide GFCI protection to all line voltage AC circuits. All components, equipment, and installation procedures must conform to NFPA 70, National Electrical Code and or NFPA 1917, Standard for Automotive Ambulances, latest editions.

4.9.1 Main Panel Board (Distribution Box)

Locate one (1) main circuit breaker panel on the R/H ceiling of exterior compartment #2. Provide a minimum of two (2) circuits: battery conditioner power & patient area interior receptacles. All circuit breakers are to be function labeled.

4.9.2 Line Voltage Power Inlet (Shoreline)

The vehicle shall be equipped with a permanently mounted, non-arcing, male recessed-type receptacle with hinged cover. This inlet shall be a straight three-prong type and shall include the female adapter plug. It shall be designed so that the plug will automatically eject from the inlet in the event that the vehicle is started while still plugged in. The shoreline system shall be designed to handle a 20 amp load and also include a 20 amp inline GFI breaker. This inlet shall be function labeled per applicable NFPA standards.

REF: Kussmaul Super Auto Eject or approved equal.

PROPERLY ISOLATE / DIODE PROTECT VEHICLE CHASSIS STARTER CRANK CIRCUIT UPON INSTALLATION

LOCATE: STREET SIDE OF BODY AS FAR FORWARD AS POSSIBLE

4.9.2.1 Shoreline Indicators

Provide & function label two (2) small green LED pilot lights, one (1) configured to light at the presence of “live” AC shoreline inlet power and the other for “live” battery conditioner AC inlet power. The lights shall be wired in after the applicable circuit breaker (load side) so as to indicate not only the presence of AC power, but the fact that the applicable circuit breaker is in the closed position.

LOCATE BOTH STACKED ABOVE THE SHORELINE INLET

LABEL TOP: “BATTERY CHARGER INDICATOR”

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

LABEL BOTTOM: "SHORELINE INDICATOR"

4.9.3 125 Volt Interior Outlets

The patient compartment shall be equipped with three (3) line voltage duplex receptacles conforming to NEMA 5-15R. They shall be near flush, vertically mounted and incorporate a "live" (hot) circuit indicator. Locations are as follows:

- ONE (1) ON FORWARD ACTION WALL BETWEEN 12 VOLT POWER POINTS
- ONE (1) IN UPPER LEFT CORNER CURBSIDE FRONT WALL TOP CABINET
- ONE (1) ON UPPER LEFT CORNER STREET SIDE TELEMETRY WALL

4.10 Patient Area Environmental Systems (HVAC)

This purchaser is committed to keep safe our end users by technology available in today's market place. Therefore, it shall be incumbent for all primary manufacturers to provide the maximum protection from airborne pathogens & eliminate obnoxious odors that can create discomfort for ambulance personnel along with their patients.

An NFPA 1917 compliant system is desired that makes the selection of HEAT or A/C and the temperature control of either choice a quick process. In addition, a system is desired that provides uniform temperature throughout all areas of the patient compartment. The unit shall deliver an air flow of not less than 650 CFM and carry a BTU rating of not less than 65,000 for heat and 32,000 for A/C. To meet these requirements, the system must be of the following minimum design standards.

REF: Hoseline, Inc. or approved equal.

ALL ADDED HEATER HOSE CONNECTIONS SHALL BE METAL, PLASTIC PRODUCTS ARE UNACCEPTABLE (TEE, UNION, ETC.)

4.10.1 System Controls

The climate control functions shall be controlled through a primary location in the inhalation panel. Switches shall be present in the rear control panel to select either "Heat", "A/C", or "Off" functions, "Automatic" or "Manual" mode of operation, and to select the desired temperature.

4.10.1.1 Thermostat

The temperature level shall be adjustable from the rear electrical control panel for the 12V system. The switches shall be used to scroll through desired temperature settings on one degree intervals. Once the desired temperature is set, then the system shall retain that setting regardless of the position of the battery switch. The temperature sensor for the system shall be located at the inhalation panel so as to attain a true patient compartment temperature.

This system is to be controlled through the converter-added electrical system. Under no circumstances shall household type thermostats be acceptable.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.10.1.2 Modes

The system shall allow for both automatic and manual operation. When set to the manual mode the fan speed shall be infinitely adjustable from the rear control panel for extra ventilation. When set to the automatic mode the fan speed shall be controlled by the thermostat setting. The temperature that is selected shall be continuously maintained. When the selected temperature has been reached, then the system shall automatically cycle the fan speed down to reduce unnecessary electrical load.

4.10.2 Heater Control Valves

The flow of hot water from the chassis to the converter-added HVAC shall be controlled by vacuum or electrically operated shutoff valves that provide inherent sealing when not actuated (normally closed valve). Water flow to the rear heater shall be activated when the rear heater switch is turned to the "On" position. In addition, two (2) high quality metal manual shut off service valves are required for the OEM to body heater connection points. They shall be end user accessible, valve type and location to be approved by this purchaser.

4.10.3 Location

An efficient, low loss HVAC system is required. All environmental system components shall be readily accessible for servicing at the installed locations. The air conditioning and heating unit shall be installed above floor level through a tilt out access panel in a dedicated environmental cabinet on the front bulkhead wall of the patient compartment. Install an exterior access compartment door to service and or remove the blower motor or the entire system. The size of the access door to be determined, and include a Trimark exterior latch with #2002 key code matching the street side #2 intermediate compartment right hand door so only fleet service can gain access to the HVAC system. See section 4.3.19.5. The final location must be approved by this purchaser. Further discussion regarding design & location will occur at the pre-construction conference.

4.10.4 Airflow

To provide uniform temperature levels through the patient area, an air duct system shall be installed for airflow. Separate air intakes and exhaust ports are required to minimize air turbulence and increase overall efficiency of heating and cooling within the vehicle. Systems that combine both air intakes and exhaust ports within the same grille work are unacceptable because of reduced efficiency. The output from the HVAC unit shall be channeled from the blower, through a chute and vented out at ceiling level. Air systems will have adjustable louvers to direct the flow of air. This process will allow the air to flow in a circle throughout the patient area, thus providing uniform, temperatures throughout.

4.10.5 Filtration System

Replaceable high quality 3-ply carbon filter(s) shall be installed at the air intake area(s) of the HVAC system. Replacement of the filter shall be simple, and shall

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

require very little time so as to assure that the vehicle will not have to be taken out of service. Replacement filters shall be of standard size and readily available.

4.10.6 A/C System Requirements

The patient module shall contain a separate distinct A/C system independent of the truck chassis OEM A/C system. The cab chassis will be ordered with the optional engine mounted second A/C compressor for the body if available from the chassis OEM. A 60,000 BTU minimum top mount condenser unit with four 12 volt pusher fans is required. Activation of fans will be one at a time based on AC system demand. Condenser shall be installed on the front exterior wall of the patient module with an unobstructed flow of air.

4.10.7 Ultraviolet Lamp

A 13 watt Germicidal Ultraviolet Lamp shall be installed in the HVAC output duct of the patient area to reduce bacteria and mold growth. The lamp should have a wavelength of 254 nm, be resistant to vehicle vibration and be no more than 6" long. For maximum efficiency the lamp must be installed in the duct itself and not in the HVAC unit. Lamp should be activated automatically anytime the blower fan for the heat A/C system is in the "on" position.

4.10.8 Powered Venting System

Install a 400 CFM exhaust and fresh air supply ventilation system to comply with NFPA 1917 requirements. Each exterior vent cover shall be 9.5" square, low profile and feature a polished finish. System operation will be incorporated into patient area electrical switch panel.

REF: Cast Products exterior vent cover or approved equal

4.10.9 CO Detector (NFPA 1917)

A 12V carbon monoxide detector shall be installed in the patient area near the rear doors. The device shall mirror the buildup of carbon monoxide in the human bloodstream. An alarm and health hazard display shall warn of toxic accumulation. Provide a listed CO detector in accordance with ANSI / UL 2034, Standard for Safety, Single and Multiple Station Carbon Monoxide Alarms.

4.11 Lighting System Requirements (LED)

All light assemblies must be LED type and securely mounted with the appropriate fasteners. Two-side tape is unacceptable as an installation option. This illumination system must comply with all applicable requirements prescribed for it by FMVSS / CMVSS 108 & NFPA 1917, latest edition.

4.11.1 Ambulance Exterior DOT Lighting

Provide all applicable stop, tail, turn signal, marker, clearance, ID, back up & license plate lamps along with required reflex reflectors. Clearance lights shall be installed with chrome or aluminum guards. Optional chrome flanges will also be required for stop / tail, turn & back up lamp assemblies.

REF: Whelen Engineering M6 Series, Weldon or approved equal

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Provide two (2) amber "arrow" style turn signal light assemblies in chrome flanges on the left & right front face of the ambulance body.

REF: Whelen Engineering M6 Series or approved equal

Provide two (2) red light assemblies with chrome flanges and install on each side of the vehicle towards the center rear of the body. These lights shall function as both marker lights and turn signals. Lens color shall match light color.

REF: Whelen Engineering M6 Series or approved equal

4.11.2 Ambulance Emergency Lighting

4.11.2.1 Light Bars

Front Light Bar: Provide and permanently mount to cab roof a 62 inch light bar. Lens color shall match light color, red warning with clear left & right intersection lights.

REF: Whelen Engineering D12LPEMS, Delta Super LED or approved equal

INTERLOCK TO NEUTRAL SAFETY SWITCH-NO WHITE LIGHT ON SCENE

ENTIRE LIGHT BAR SHALL DEACTIVATE IN SECONDARY MODE

Rear Light Bar: Provide and permanently mount an 88 inch light bar to the rear face of ambulance body so that it is kept below body roofline. Lens color shall match light color. Illumination will include red warning, two (2) clear rear loading lights & one (1) center amber flashing light assy.

REF: Whelen Engineering 4500, (with 400 Series Linear Super LED Lights) or approved equal.

THE DOOR OPEN CIRCUIT AND REVERSE ACTIVATED CIRCUIT WILL ENERGIZE THE REAR LOADING LIGHTS.

Rear Traffic Advisor: Provide and permanently mount an amber colored, 8 lamp light bar to the rear face of ambulance body below the rear emergency bar listed above.

REF: Whelen Engineering TAL85 or approved equal

DELETE THE CONTROL HEAD THAT NORMALLY SHIPS WITH THIS PRODUCT, TRAFFIC ADVISOR TO OPERATE THROUGH CONVERTER ELECTRICAL SYSTEM

TRAFFIC ADVISOR TO ACTIVATE WITH MODULE DISCONNECT ACTIVATION

PROGRAM TO SYNCHRONIZE WITH CHASSIS TURN SIGNALS & FLASH MODE IN REVERSE

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.11.2.2

Lower-Level Warning

Headlight Flasher: The vehicle headlights shall alternately flash through the activation of the appropriate switch on the cab control console. This feature shall be accomplished through a solid state flashing device that is a part of the primary electrical control board. A programmable phase control shall be built into the system board to allow alteration of the light flashing sequence.

INTERLOCK TO NEUTRAL SAFETY SWITCH-NO WHITE LIGHT ON SCENE

Front Grille & Intersection Lights: Mount four red flashing lights, two (2) on the front cab grille & two (2) on the front cab fenders with option chrome flanges. Lens color shall match light color.

REF: Whelen Engineering M7 Series or approved equal

INSTALL A DEUTSCH STYLE CONNECTOR ON ALL FOUR (4) LIGHTS TO FACILITATE GRILLE & TILT HOOD REMOVAL.

Rear Wheel Well Lights: Provide two (2) red flashing lights at the left & right side wheel well areas with optional chrome flanges. Lens color shall match light color.

REF: Whelen Engineering M7 Series or approved equal

Rear Body Face Lights: Install two (2) red / amber flashing split light assemblies on the left & right sides of the rear body at door window level. Provide chrome flanges & clear lenses.

REF: Whelen Engineering M9 Series or approved equal

TOP COLOR TO BE RED & ALSO ACTIVATE WITH CHASSIS BRAKE LIGHTS

BOTTOM COLOR TO BE AMBER

4.11.2.3

Upper-Level Warning

Provide six (6) red flashing lights at the upper body corners; install two (2) on the front face, two (2) on street side & two on (2) curbside with chrome flanges. Lens color shall match light color.

REF: Whelen Engineering M9 Series or approved equal

4.11.2.4

Scene Lighting

Provide four (4) clear scene lights with chrome flanges at curbside & street side upper body corners; mount inboard of upper-level warning lights.

REF: Whelen Engineering M9 Series or approved equal

THE OPENING OF THE SIDE ACCESS DOOR WILL ALSO ACTIVATE THE CURBSIDE SCENE LIGHTS.

DO NOT INTERLOCK TO NEUTRAL SAFETY SWITCH

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

4.11.3 Exterior Compartment Lighting

The illumination for all exterior compartments shall consist of LED lighting strips. They will be installed in each side of the compartment opening at the inside of the door jamb and shall direct the light back into the compartment. These semi-rigid light strips are to fit securely into clips installed at each location. Please note that rope lighting is not an acceptable alternative to this requirement.

4.11.4 Body Access Door Warning Lights

Install three (3) custom made red flashing LED light strips, approx. twelve inches long, on the side and rear patient area access door interior door panels. Each light strip shall include an array of LED lights centered behind an integral lens for maximum light disbursement. When mounted, the lens shall be flush with the inner door panel and be designed to provide a bright and intense light from a distance. As distance is decreased, the light shall become less intense, preserving night time visibility for people working near the vehicle. They shall activate when the access door is open, and the red flashing light circuit is activated. This system is to provide additional illumination to warn traffic and pedestrians of a stationary emergency vehicle with open body doors, and to provide additional safety for the attendants.

LOCATE ON LOWER PORTION OF ALL ENTRY DOORS BETWEEN 34 AND 43 INCHES ABOVE THE GROUND DEPENDING ON CLEARANCE REQUIRED FOR DOOR LINKAGE, ETC.

4.11.5 Ground Lighting

Provide NFPA 1917 compliant ground lighting designed to provide illumination at regions under the driver & crew riding area exits, including the cab chassis.

LIGHTS FUNCTION AS FOLLOWS:

CAB & COMPARTMENT DOORS ACTIVATE THE LIGHTS IN THEIR RESPECTIVE QUADRANTS WITH MARKER LIGHTS ON

REAR ENTRY DOORS & REVERSE GEAR ACTIVATE THE REAR CORNER LIGHTS PLUS A CENTER REAR LIGHT

ALL LIGHTS TO ACTIVATE FOR 15 SECONDS WHEN THE VEHICLE IS PLACED IN DRIVE.

4.11.6 Patient Area Interior Lighting

4.11.6.1 Ceiling Illumination

Provide eight (8) dome lights for areas over the cot, squad bench, walk thru & curbside door stepwell. They shall be recessed into the headliner and not protrude from the ceiling more than one inch. All lights shall activate to mid-intensity when either the side or rear access doors are opened. With the doors closed, separate switches located on the rear electrical console panel shall activate each row of lights. The intensity of the lights shall be infinitely variable through a

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

solid-state control. Lighting systems that utilize only a “HI-LO” circuit will not be considered.

REF: Whelen Engineering SUPER-LED (P/N: 80C0EHCR) or approved equal

4.11.6.1.1 Programmable Light Timer

Momentary switches shall be installed to operate the ceiling illumination with the battery switch in the “off” position and activate a programmable solid state timer that will automatically shut the lights off after the specified period of time. This timer shall be field-programmable to allow the elapsed time to be adjusted and be integrated into the vehicle’s programmed electrical system. Aftermarket add-on or mechanical units are not acceptable.

SET ELAPSED TIME FOR 15 MINUTES

SWITCH LOCATIONS: ONE (1) AT STEPWELL SIDE OF BENCH RESTRAINT & ONE (1) IN THE CURBSIDE REAR ENTRY DOOR INTERIOR DOOR PANEL

4.11.6.2 Action Wall Illumination

Provide ample report lighting on the bottom of the inhalation panel, three (3) light fixtures minimum. Control shall be via a switch on the rear patient area switch panel.

4.11.6.3 Curbside Stepwell Illumination

Two (2) light fixtures shall be installed in the curbside stepwell to light this area when the side access door is opened. The lights shall be activated by a magnetic door switch installed on the door as described elsewhere within this document.

LOCATE ONE (1) ON THE LEFT SIDE OF EACH STEP RISER

4.11.7 Cab Spot Light

Provide one (1) portable 12 volt heavy duty spotlight with coiled cord, momentary power switch & mounting bracket. Hard wire the unit to vehicle electrical system & mount behind driver’s seat in cab.

REF: Unity Brand or approved equal

4.12 Audible Emergency Warning Systems

Provide electronic siren system with two (2) speakers. Install siren control in cab radio console & mount speakers to each side of center section on the front bumper next to each tow hook. Allow space to mount front unit number/license plate found in section 3.3.1.

REF: Whelen Engineering (P/N 295HFSC9) or approved equal

REF: Federal Signal Dynamax (P/N MS100-DEU) or approved equal.

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

WIRE THE SPEAKERS USING THE FOLLOWING:
DEUTSCH #0462-201-16141 FEMALE PIN
DEUTSCH #0460-202-16141 MALE PIN
DEUTSCH #DT04-2P MALE CONNECTOR (PLUG)
DEUTSCH #DT06-2S FEMALE CONNECTOR (SOCKET)
DEUTSCH #W2P PLUG LOCK

4.13 Two-Way Radio & Communication Requirements

4.13.1 Antenna Coax #1

An RG 58U coax shall be installed with a removable access plate in the patient area ceiling for access to the exterior termination point located on the module body roof. Under no circumstances shall the vehicle design necessitate disassembly of the interior finish work to access the coax termination point. The coax shall terminate at the following locations:

EXTERIOR TERMINATION: FRONT CENTER OF THE MODULE ROOF
INTERIOR TERMINATION: BEHIND DRIVER’S SEAT BASE

4.13.2 NMO Antenna Base

NMO base shall be installed at the front center of module roof. The base shall include the coaxial cable required in 4.13.1 above.

REF: Motorola P/N: RRDN6798A or approved equal.

4.13.3 Pull Wires / Conduits

Provide pull wires & conduits to aid in radio & antenna cable installation to prevent removal of interior panels once the vehicle has been completed.

Further details shall be discussed at the preconstruction conference.

4.13.4 Radio Mounting Center Console

A radio console shall be installed at the floor level in the cab allowing space for siren and radio head installation. The design shall be the same as current consoles utilized by PFD/EMS and be color coordinated with the cab interior. Exact location, design and configuration shall be determined during ambulance development. Under no circumstances shall the console interfere with the OEM vehicle controls or gauges, nor shall it be installed in such a manner as to interfere with the driver's line of vision.

INCLUDE THREE (3) CUP HOLDERS IN CONSOLE DESIGN

PROVIDE NECESSARY CUT-OUTS WITH MOUNTING BRACKETS AT CAB CONSOLE & PATIENT AREA INHALATION PANEL FOR MOTOROLA RADIO INSTALLATION

The vendor shall install the following power supply requirements in the console:
Two (2) covered six circuit fuse blocks with negative bus each wired to a dedicated

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

50 amp power & ground. One (1) fuse block to be 12 volt battery “hot at all times”, the other connected as 12 volt “battery switch hot” and each labeled as such. The 50 amp circuits are to each be protected by High Amp Type III circuit breakers. The breakers need to be located in an accessible location for service and function labeled.

REF: Blue Sea # 5025 or approved equal.

REF: Bussman CB185-50 or approved equal

4.13.5 Radio Power / Ground & Data Cables

Provide at the bulkhead wall behind driver’s seat: one (1) 40 amp constant battery hot circuit & one (1) ground terminated to covered, insulated stud terminals.

Provide in the patient area behind inhalation panel: one (1) 15 amp constant battery hot, one (1) 15 amp battery switch hot & one (1) ground terminated to covered, insulated stud terminals.

Provide and install two (2) Motorola Radio cables to connect the front radio head (cab center console area) and the rear radio head (patient module action wall area). Terminate both cables at bulkhead wall behind driver’s seat. The following Motorola Cable part numbers are to be utilized: #HKN4356B (front radio head cable) and #YKN4242 (rear radio head cable).

Provide and install two (2) more Motorola Radio cables to connect the front radio head (cab center console area) and the rear radio head (patient module action wall area). Terminate both cables at bulkhead wall behind driver’s seat. The following Motorola Cable part numbers are for reference: #HKN6170A (front radio head cable 10 feet long) and #HKN6169A (rear radio head cable 17 feet long). This series of Motorola Remote Mount Control Head Cables are available in lengths from 10 feet to 131 feet. The contractor is solely responsible to install the correct length required by their ambulance construction.

The contractor is to supply and ship loose with each completed ambulance: two (2) Motorola Control Head Accessory Cables (part number HKN6188).

4.13.6 GPS / MOBILE DATA TERMINAL ANTENNA

The contractor shall install one (1) PURCHASER SUPPLIED hockey puck style MDT antenna on the patient module roof. The connector end of the antenna needs to terminate at the radio mounting center console assembly. Supply a channel or other protective passageway along with interior access plates to allow for replacement of this antenna and cable, should that ever become necessary. This antenna will also require some type of replaceable mounting plate or enclosure for possible future antenna model replacements of different designs. The exact design and locations will be discussed at the pre-construction conference.

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

5.0 CAB & BODY EQUIPMENT

5.1 Equipment & Accessories-The interior trim level shall be the chassis manufacturer's highest available & gray in color (Premium Interior Package).

REF: International Terrastar SFA 4X2.

5.1.1 Provide manufacturers highest output integral air conditioner / heater and defroster available with factory tinted glass. Also include a grille ember screen to keep hot embers out of HVAC air intake system or cabin air filter if available.

5.1.2 All gauges and applicable warning lights shall be electrical, illuminated, and shall include but not be limited to fuel level, coolant temperature, transmission temperature, air cleaner restriction, oil pressure, ammeter / voltmeter, tachometer, speedometer and hour meter. Hour meter shall be located on driver's side of radio console if not included in OEM instrument cluster.

5.1.3 Provide multi-speed electric windshield wipers with delay & windshield washer system.

5.1.4 Provide largest size padded dual sun visors.

5.1.5 Provide dome light, door and switch activated.

5.1.6 Provide a heavy duty turn signal indicator with transistorized flasher.

5.1.8 Provide Safety Seat Belts- Belts shall comply with DOT Rules, Regulations and be red in color.

5.1.8.1 Cab Seat Belt Warning System

Provide an occupant restraint warning system for each designated seating position in the truck cab. Interface with ambulance builder's body system or utilize stand-alone cab chassis OEM option. See section 4.5.9.4.

5.1.9 Install R/S & L/S heated, power rectangular bright finish cab door mirrors: 7 X 16 inch (approx.), 102" inside spacing, integral arm, and integral convex inserts.

REF: Lang Mekra or approved equal

Also provide a standard windshield mounted interior rear view mirror.

5.1.10 Rustproofing :Areas to be rustproofed (wet, airless spraying, no mist applications) shall include but not be limited to: light wells, doors, rocker panels, rear vertical door jambs, front pillars, fender and fender wells, entire underbody, etc.

The rustproofing compound shall be in accordance with MIL SPEC QPL 62218, or latest revision. All surfaces shall be properly prepared and finished.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Manufacturers standard rustproofing is acceptable; City reserves the right to require undercoating.

- 5.1.11 Provide yellow interior grab handles at cab door entry points along with chrome “towel bar” type exterior grab handles on cab body at L/S & R/S “B” pillars.
- 5.1.12 Provide a tire inflation decal, indicating the proper tire pressure in "psi" on the body or fender above each set of tires.
- 5.1.13 Provide tinted safety glass throughout with power door glass and power door locks. Delete OEM chassis Auto-Lock Feature if applicable to power door lock system.
- 5.1.14 Provide AM / FM stereo CD radio, with clock, antenna and two speakers.
- 5.1.15 Provide black rubber H/D cab floor covering, carpet will not be acceptable.
- 5.1.16 Two (2) high-visibility permanent plates must be mounted in the driver’s compartment: one (1) to specify the quantity and type of chassis fluids required including engine oil, engine coolant, transmission fluid, drive axle, refrigerant oil and refrigerant charge (both truck chassis and body if separate A/C systems apply). The second plate shall display “**Height**”, “**GVWR**” and “**Total Length**” of the completed ambulance. It must be dash mounted in plain view of the driver and passenger.
Stickers will not be acceptable as permanent plates regarding the above requirements.
- 5.1.17 Provide a walk thru between the back of the cab and the front of the module body. The opening shall be large enough to allow passage between the front and the back. **(Type 1 Ambulance Cab Chassis shall be properly modified to provide walk through access to the patient area.)**
- 5.1.18 Standard width embossed diamond plate running boards shall be installed on each side of the cab at the entry points. The running boards shall be constructed with .125" thick 3003-H14 alloy polished aluminum diamond tread plate that is embossed for NFPA 1917 compliance. The stepping section shall include grip strut inserts or be fabricated with a star punched pattern. The running boards shall flare to full width of module body.
INSTALL THE BLOCK HEATER RECEPTACLE TO THE REAR OF THE FRONT FACE OF THE L/S RUNNING BOARD & LABEL ACCORDINGLY.
- 5.1.19 Provide cab mounted parking brake handle mechanism with relocation option from center floor area to right side of driver’s seat floor area to accommodate the radio center console in section **4.13.4**.
- 5.1.20 Provide steering column mounted OEM cruise control system.
- 5.1.21 Provide optional dash mounted switch for momentary Exhaust Regeneration Inhibit

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

which resets with key off.

6.0 FRAME

- 6.1** The frame shall be constructed of high strength low alloy steel, reinforced as required to prevent distortion under maximum loads. The cross section design and area shall be sufficient to prevent or minimize torsional flex during the anticipated usage of the truck.
- 6.2** Provide one set of frame mounted front tow hooks.

7.0 AXLES AND SUSPENSION SYSTEMS

Vehicle Weight Ratings & Payload will be in accordance with the recommendations of the GSA Federal Specification KKK-1822-F (8-01-07) & NFPA 1917 (latest edition). The ambulance will comply with all applicable requirements of the Federal Motor Vehicle Safety Standards in effect at the time the contract is awarded. The successful Bidder will furnish a weight certificate showing weight on the front axle, rear axle, and total weight for the completed ambulance at time of delivery.

7.1 Front Springs: Approximately 7,000 lbs. capacity

Rear Springs: Rear suspension shall be OEM air ride system ordered with the chassis & approximately 12,000 lbs. capacity. Provide cab dash with optional rear suspension air pressure release valve control. There shall be a “dump” feature to lower the vehicle height automatically upon opening the left rear patient compartment entry door. The load height will automatically return to normal ride height when the door is closed. The dump feature must incorporate a high speed control system to minimize response time. Interlock rear suspension control to dump only with the vehicle transmission in “Park”. In order to maintain correct body height & side-to-side height, install dual height control valves & rod kits. SET BODY FLOOR HEIGHT IN THE DUMPED POSITION FOR 34.00" AND 36.00" FOR THE NORMAL RIDE HEIGHT.

REF: International Ride Optimized Suspension (IROS) or approved equal.

Further details shall be discussed at the preconstruction conference concerning ping tanks.

Air Suspension Override Switches: manual air dump override switches shall be installed as noted below. These switches shall override the air dump activated by opening the patient compartment entry door.

SWITCH LOCATIONS: ONE (1) AT STEPWELL SIDE OF BENCH RESTRAINT & ONE (1) AT CURBSIDE REAR INTERIOR DOOR PANEL

7.2 Heavy-duty gas shocks and stabilizer bars shall be provided on both the front and rear axles.

7.4 OMIT

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

- 7.5 Front Axle: Approximately 7,000 lbs. capacity, non-driving I-beam type
Rear Axle: Approximately 13,500 lbs. capacity, dual rear wheels
- 7.6 The front axle shall be equipped with grease packed wheel bearings, applicable wheel seals & hub covers.
- 7.7 Rear axle shall be positive traction, limited slip or automatic, locking type differential.
- 7.8 Provide synthetic oil.
- 7.9 Provide a magnetic drain plug.

8.0 BRAKES

- 8.1 OEM's heaviest duty, power assisted hydraulic 4-wheel disc brakes, linings and parking brake shall be furnished on the OEM chassis offered.
- 8.2 Provide OEM's antilock brake system.
- 8.3 Provide minimum 13.2 CFM capacity air compressor and tanks for air source on hydraulic brake chassis. **REF: Bendix Tu-Flo 550 or approved equal.**
- 8.4 Provide air dryer with heater & purge silencer. **REF: Meritor Wabco System Saver 1200 & Meritor P/N: R950035 purge silencer or approved equal.**
- 8.5 Provide remote tank drains as directed by the Purchaser for all applicable system air tanks.

9.0 ENGINE

9.1 DELETE

- 9.2 Provide a diesel engine, six (6) or eight (8) cylinder turbo charged, electronically controlled with approximately 300 HP @ 2600 RPM & 660 lb.-ft. torque @ 1600 RPM. A certified engine curve will be provided for the engine, which will show gross horsepower, gross torque and fuel consumption of the proposed engine. Engine and fuel system must be compatible for use with Bio-diesel fuels of various blends to B20.
- 9.3 The diesel engine shall be Fire & Emergency rated by the manufacturer and incorporate an emissions system derate exemption calibration if available. Idle reduction engine shutdown device shall be disabled, if provided, in accordance with federal and state exemptions.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

10.0 ENGINE EQUIPMENT**10.2 OMIT**

- 10.4** Provide an engine governor, to achieve a maximum road speed of approximately 75 mph. while fully laden (GVWR).
- 10.5** Provide grille ember screen to keep hot embers out of engine air intake system, if available.
- 10.6** Provide manufacturers engine protection / monitoring system configured for emergency & rescue that prevents engine shut down.
- 10.7** Provide engine block heater (120 Volt / 1000 Watt). Install the block heater receptacle to the rearward front face of the L/S running board & label accordingly.
Ref: Phillips or approved equal.
- 10.8** Provide magnetic oil pan drain plug.
- 10.9** Provide horizontal EPA emission approved exhaust system. Modifications or extensions made to the OEM exhaust system shall meet or exceed OEM's requirements in terms of backpressure, components, clearances, design and workmanship.

The tail pipe will terminate on the left side (street side) of the ambulance, ahead of the rear axle, must exit horizontal and no extension. All exhaust piping shall be protected against damage from vibration, torque, frame flexing and include proper heat shielding. System must also connect to "Nederman" point source exhaust system currently in use at PFD Stations. (To be discussed at preconstruction conference)

- 10.10** Provide heated fuel-water separator with primer pump & filter restriction/change indicator.
Ref: Manufactures standard, RACOR or approved equal.

11.0 TRANSMISSION

- 11.1** Provide a 5 speed close ratio automatic transmission with overdrive & park pawl. This also must include a cab mounted transmission control module & column mounted shift control.
REF: Allison 1000 EVS or approved equal.
- 11.2** Provide OEM's heaviest duty transmission fluid cooler, external preferred if available.
- 11.3** The transmission must be factory filled with synthetic fluid meeting or exceeding TES 295® along with an Allison TES 295® approval number and Allison Approved logo.
- 11.4** Provide magnetic fluid drain plug.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

12.0 STEERING

12.1 The OEM's standard, power assisted steering shall be furnished with tilting column.

13.0 ENGINE COOLING SYSTEM

13.1 Provide heavy duty cooling system with maximum capacity radiator. All coolant hoses to be silicone (if available), otherwise EPDM with spring type, constant torque stainless steel clamps.

13.2 Provide **extended life permanent** antifreeze, protection to -34 degrees Fahrenheit to meet or exceed OEM engine specifications.

14.0 ELECTRICAL EQUIPMENT

14.1 Nominal System Voltage: 12 Volt Negative Gnd. Manual reset circuit breakers or fuses shall protect all circuits. All wiring will be soldered, covered with self-sealing heat-shrink and loomed as necessary. All harnesses & loom shall be protected with rubber grommets and or edge guard whenever passing through or over any metal or abrasive material. Wiring shall be color coded, circuit function coded or number coded, as well and secured to prevent wear and deterioration. Applicable circuits shall incorporate diode usage for isolation and or voltage spike protection. One example would be the starter crank trigger circuit regarding the shoreline auto eject.

14.2 Provide three (3) 12 volt, group 31 (3/8 inch threaded stud terminal) AGM batteries, total 3,450 CCA minimum, with the highest reserve capacity available.
REF: Odyssey Extreme Model 31-PC2150 or approved equal.

Battery stud termination shall be performed with industry standard stainless steel terminal nuts & proper color protective terminal caps.

REF: Standard (SMP) #'s BP99, BP41R & BP41B or approved equal.

14.3 Fabricate and install a heavy duty custom stainless steel slide out battery tray with stainless steel hold down and hardware (no straps). Provide two (2) high quality latches on custom tray to prevent any movement in the stowed position. The battery tray floor shall be lined with Mateflex (or approved equal) and contain a drain hole with a threaded plug. Locate the tray assembly in a separate vented compartment beneath floor level of the right front exterior compartment. Install protected positive and negative terminal blocks in an accessible location for jump start purposes. City reserves the right to approve battery tray & system to be installed.

14.4 Provide a pad mount type alternator (320 amp output minimum) sufficient in capacity to support the electrical system specified, when used under severe ambulance conditions.
REF: Leece-Neville 14931PAH or approved equal.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

- 14.5 Provide a 12 volt starter with integrated magnetic switch and over-crank protection.
REF: Delco Remy 29MT or approved equal.
- 14.6 Five sets of all applicable keys will be supplied with each vehicle. To include but not limited to, cab doors, vehicle ignition, all exterior body doors, interior compartments and or cabinets. All truck chassis shall be ordered with Fleet Option “Keys – All Alike” (if available) for ignition & cab doors.
REF: International Truck ID Z-250 or approved equal.
- 14.7 Provide all applicable head, stop, tail, turn signal, marker, clearance, ID, back up & license plate lamps along with required reflex reflectors. This illumination system must comply with all applicable requirements prescribed for it by FMVSS / CMVSS 108. See section 4.11.1.
PROVIDE ALL LED LIGHTING, INCLUDING HEADLIGHTS FOR THE CAB CHASSIS IF AVAILABLE, OEM OR AFTERMARKET.

15.0 TIRES

15.2-15.4 OMIT

- 15.5 Provide two (2) spare, mounted tires on OEM steel rims for each vehicle delivered, one (1) spare for the front position & one (1) spare for the rear position. The rims shall be painted to match the vehicle’s white color referenced in Section 3.3.
- 15.6 Tires shall meet or exceed the load requirements of GVWR of chassis.
Front tires: 225/70R19.5 Load Range G, 14 Ply, tubeless with ribbed highway tread
REF: Goodyear G647 RSS or approved equal.

Rear tires: 225/70R19.5 Load Range G, 14 Ply, tubeless with mud & snow tread
REF: Goodyear G622 RSD or approved equal.
- 15.7 Provide OEM steel rims properly painted to match the vehicle’s white color referenced in Section 3.3.
- 15.8 All vehicle lug nuts shall be equipped a “Loose Wheel-Nut Indicator” upon delivery, high visibility green in color.
REF: Wheel-Check Brand or approved equal.
- 15.9 Each tire shall be equipped with a visual indicator that denotes tire pressure per NFPA 1917 latest edition. Provide necessary extensions & hardware for proper installation at inner rear wheel positions.
REF: Real Wheels Corporation Tire Watch Brand or approved equal.

16.0 FUEL SYSTEM

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

and liners; lube oil cooler; water pump; cylinder block;
oil pan; connecting rod assembly; lube pump
assembly; camshaft and bushings; cam followers;
major cooled EGR components 3 years / 150,000 miles

**Total Engine Coverage, base and extended with "NO DEDUCTIBLE"(less wear items)
5 Years / 150,000 Miles / 10,800 Hours**

Complete Drivetrain (Excluding Transmission): 5 years / 150,000 miles
Transmission: 5 years / unlimited miles

Cab & Chassis: (Bumper /Bumper)
2 years / unlimited miles
All components ie: utilized in starting, charging, accessory
systems including harness, sensors, modules cranking
motors, alternator, regulators etc.

Cab & Chassis Structural: 5 years / unlimited miles

Body: Modular Body Structural: 15 years/unlimited miles (includes body
doors, continued body door alignment & interior cabinets)
Ambulance Body Electrical: 6 years/72,000 miles
Ambulance Conversion: 2 years/24,000 miles
Ambulance Body Paint: 5 years/60,000 miles

NOTE: All minor repairs (over four (4) labor hours) shall be performed within 2 working days,
Sundays excluded.

All major repairs shall be performed within 7 working days, Sundays excluded.

All warranty work performed by City forces will be billed at the rate of **\$52.00/hour.**

BIDDER INITIALS _____

Transportation to and from the vendor's site, if required, is the successful bidders
responsibility. If transportation is performed by City forces it will be invoiced at
\$100.00/hour each direction, plus the cost of any equipment.

BIDDER INITIALS _____

If the time intervals for minor and major repairs are exceeded, **the City of
Philadelphia reserves the right to perform warranty work with direct invoicing
to the successful bidder, not the manufacturer.**

BIDDER INITIALS _____

Copies of Warranty Repair Orders shall be forwarded to the Office of Fleet
Management within five (5) days after completion of each repair, including all cost
for parts and labor.

BIDDER INITIALS _____

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

WARRANTY REGISTRATION

The City of Philadelphia requires the successful bidder supply **WARRANTY REGISTRATION** of all warrantable components.

The warranty registration forms shall be supplied to the City, by the successful bidder, listing component description and serial number and chassis serial number. Each form shall require the signature of a representative of the City (OFM), the successful bidder and the subcontractor, where applicable.

If the successful vendor or their subcontractor, supply a standard warranty registration form which includes disclaimers, the City reserves the right to refuse to sign. If no other registration for can be supplied the City shall sign the standard form as a "**REGISTRATION ONLY**".

The City recognizes only the warranty terms cited in the Invitation to Bid and agreed to in the contract awarded to the successful bidder, under Warranty, section 18 and Engineering Responsibility & Chronic Complaints/Failures, Section 35.

The City reserves the right to hold final payment until all warranty registrations are completed and a copy of such registrations supplied to OFM. A city form is to be completed for each vehicle.

BIDDER INITIALS _____

19.0 PRE-PRODUCTION INSPECTION:

- 19.1** Provide the Office of Fleet Management pre-construction conference at the ambulance body manufacturer’s plant, for one person on each inspection trip. The successful bidder shall incur all expenses for lodging, meals, and transportation (transportation will be via air if more than 125 miles one way).
- 19.2** Provide the Office of Fleet Management pilot inspection for the chassis at the manufacturer’s plant, for one person on each inspection trip. The successful bidder shall incur all expenses for lodging, meals, and transportation (transportation will be via air if more than 125 miles one way).
- 19.3** Provide the Office of Fleet Management pilot inspection for the body manufacture / up-fitter at the manufacturer’s plant, for one person on each inspection trip. The successful bidder shall incur all expenses for lodging, meals, and transportation (transportation will be via air if more than 125 miles one way).

21.0 QUESTIONS REGARDING BID

All questions regarding Bid Specification should be directed to the Office of Fleet Management. Fred Harrison, 215-686-1879 / E-mail – frederick.harrison@phila.gov

MUST BE FILLED IN

FIRM (VENDOR’S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Bud Lipski, 215-686-1875 / E-Mail - bud.lipski@phila.gov

**22.0 ILLUSTRATIONS & DRAWINGS
REQUIRED FOR THIS BID BIDDER INITIALS _____**

24.0 CERTIFICATION OF COMPLIANCE WITH SPECIFICATIONS

The bidder shall certify on the form furnished with the Invitation and Bid that the Truck, component units, and parts shall be suitable for the work to be performed and will be constructed to definite standard dimensions, with proper clearance and fits; that previously published or set ratings shall not arbitrarily be raised without prior approval of the manufacturer of the actual unit and further, that the truck offered shall comply in every respect with the terms of this specification. In the event that the truck offered does not comply with this specification, the bidder shall state definitely, referring to the proper paragraph of this specification, where the Truck he proposes to furnish does not comply. Where no statement is received, the successful bidder shall be required to meet every requirement of the specification.

25.0 REQUIREMENTS

General - Though they shall not be specifically enumerated herein, all parts necessary to provide a complete and efficient truck shall be furnished. All parts shall conform to current engineering practices of the industry relative to design, strength, quality of material and workmanship. The City reserves the right, at its option alone, to accept trucks with minor deviations from this specification.

26.0 MATERIALS

The Truck and all parts thereof shall be made of materials which are suitable for the intended service and shall be produced by current standard manufacturing processes. The materials shall be free from characteristics or defects which affect the appearance or which shall affect the proper functioning of the finished product.

27.0 GROSS VEHICLE WEIGHT AND DRY CHASSIS WEIGHT RATINGS

These shall be as specified in the Invitation to Bid. The gross vehicle weight rating shall include the weight of the complete chassis and cab.

30.0 SHIPMENT AND DELIVERY

30.1 Delivery Information - Final Delivery shall be made between the hours of 8:00 AM and 3:30 PM, Monday through Friday, except City Holidays. Each unit shall be accompanied by a Delivery Slip which will contain the City's Bid Number, Item Number, Purchase Order Number, and Serial Number of the Unit.

VENDOR MUST NOTIFY OFM, THIRTY (30) DAYS PRIOR TO MAKING ANY

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

DELIVERY.

DELIVERY CONTACT PERSON: FRED HARRISON (215-686-1879)
BUD LIPSKI (215-686-1875)
OFFICE OF FLEET MANAGEMENT
100 S. BROAD STREET, 3RD FLOOR
PHILADELPHIA, PA 19110

DELIVERY LOCATION: OFFICE OF FLEET MANAGEMENT
SHOP 415
3895-99 RICHMOND STREET
PHILADELPHIA, PA 19137
215-685-1232

30.3 DELIVERY CONDITIONS

30.3.1 Vehicles, regardless of delivery point, shall be ready for use including all lubricants, coolant and operating fluids as required, minimum of 30 gallons of diesel fuel, equivalent amount of DEF (diesel exhaust fluid), if required. Battery shall be fully charged, tires properly inflated.

31.0 INSPECTION

31.1 Pennsylvania State Inspection
Each vehicle shall pass the Vehicle Code Examination of the Department of Transportation, Commonwealth of Pennsylvania; when delivered, chassis vendor shall have attached current State Inspection Stickers in the proper location.

31.2 Exhaust Emissions Inspection (If Required)
All vehicles with GVW's subject to the provisions of the Pennsylvania Department of Transportation exhaust emission regulations must meet said requirements and have the appropriate sticker affixed to the windshield, along with the State Vehicle Inspection Sticker, when the vehicle is delivered to the City.

31.3 City Inspection - City Inspection of delivered vehicles will be conducted at the specified delivery point. It will be conditioned upon the satisfaction of all of the requirements of this specification and the Invitation to Bid.

Upon **final delivery to the City**, any vehicle(s) not meeting the requirements of the specification and the Invitation to Bid will be rejected. All rejected vehicles must be removed from the City's equipment delivery location within 48 hours of notification to the bidder / vendor.

BIDDER INITIALS _____

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

Upon **final delivery to the City**, in addition to liquidated damages (if applicable), the City at its sole discretion will charge the vendor / successful bidder a re-inspection fee of **\$150.00** for each occasion a vehicle(s) / equipment not meeting the requirements of the specification and the Invitation. This re-inspection fee will be assessed each occasion a unit must be re-inspected.

This re-inspection fee will be deducted from the invoice for unit(s) not meeting the requirements of the specification and the Invitation to Bid.

BIDDER INITIALS _____

31.4 OFM, Bureau of Quality Assurance, shall be notified when the Pilot or First Production Model is available for inspection.

32.0 CERTIFICATIONS & MANUALS (PER ORDER)

32.2 Provide the necessary documents for the City to take Title to the vehicle in accordance with the Pennsylvania Motor Vehicle Code.

ALL THE ITEMS, INVOICE (STATE ORIGINAL), MSO, MV-1 (COMPLETED), COPY OF THE SECOND STAGE STICKER) ARE TO BE HAND DELIVERED FOURTEEN (14) DAYS PRIOR TO DELIVERY TO:

**CITY OF PHILADELPHIA
OFFICE OF FLEET MANAGEMENT
BUREAU OF QUALITY ASSURANCE
100 S. BROAD STREET, 3RD FLOOR
PHILADELPHIA, PA 19110**

32.3 Operation, Maintenance & Repair Data

Prior to the delivery of the first units, the vendor shall forward directly to the Office of Fleet Management, Maintenance, Operating and Repair manuals and Parts Lists as specified below. The manuals shall be shipped separately to OFM 100 S. Broad Street 3rd Floor, Philadelphia, Pa. 19110 and not with the units. All manuals shall be in the form of neatly bound books, with durable covers, and shall be properly identified with the manufacturer's name, model and serial number of the equipment.

The operating and maintenance or shop manuals shall be the latest manufacturer's handbook, covering in detail the recommended operating, maintenance and service procedures.

Where components or equipment of several manufacturers have been used in manufacturing the unit, the manuals shall include operating, maintenance and repair information and parts lists of all manufacturers covering all of the components used. Where the vendor or manufacturer uses components manufactured by other in building equipment which he sells under his own trade name, he shall furnish the parts numbers and full data of the original

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

manufacturers of all components used, where possible, as well as the part numbers he may assign to these components as being parts of his product.

32.3.1 One (1) set of PAPER MANUALS shall be furnished for each unit delivered.

Contractor is responsible to have manuals printed to paper form when only electronic format is available. Each manual shall cover chassis, cab, engine, transmission, differential, ambulance body and all other added equipment. Content shall include but not limited to:

- *Operation / Maintenance Instructions
- *OBD II & Emission Diagnostics
- *Chassis & Body Component Locator
- *Allison Transmission Diagnostics
- *Collision Repair
- *Chassis & Body Wiring Diagrams
- *Illustrated Body Parts Manual
- *Allison Transmission Overhaul

Provide an eight year subscription to all manufacturer issued Service Bulletins (two for each vehicle supplied under this order)

NOTE: Provide two (2) additional sets of operators manuals, these manuals are to be delivered one month prior to delivery.

32.3.1.2 SOFTWARE

Provide software package(s) for all components; i.e.: engine, transmission, ABS brake system, chassis / body (BCM), all communication cables & interface modules, including any proprietary. Cost shall include all required hardware (excluding computer) and licensing fees for one year.

BIDDER INITIALS _____

32.3.1.3 Laptop Computer

Provide one (1) fully-rugged laptop loaded & operational with software requested in section 32.3.1.2 for vehicle diagnostics. Include applicable current 64-bit Windows Operating System compatible with all diagnostic software and the following minimum requirements:

Display: 14 inch minimum HD LED touchscreen 1366x768

CPU: 2.9GHz min.

Storage: 500GB min.

RAM: 16GB min.

Battery Operation: Max. Available

Warranty: 3 year limited, parts & labor min.

REF: Dell Latitude E6430 ATG or approved equal

BIDDER INITIALS _____

32.3.2 Preventive Maintenance Instructions

In addition to the manuals specified above, the vendor shall furnish an equal number of condensed Preventive Maintenance Instructions for all parts of the unit. These instructions shall consist of manufacturers' recommendations for periodic lubrication, cleaning and other preventive maintenance services, and shall be made up in a compact form covering the particular unit delivered.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

32.3.3 Recommended Spare Parts

The vendor shall furnish with each service manual a list of recommended spare parts. The list shall include all necessary data for ordering the parts, even if originally furnished by other manufacturers.

The vendor warrants that they shall maintain or have maintained a stock of repair parts within the Philadelphia Metropolitan area at inventory levels for the period described hereafter:

The manufacturer shall supply, through a dealer, a published price list for spare parts required to support the units to be manufactured hereunder for ten (10) years from the date of delivery of the last unit.

33.0 SIGNS

Signs, decals, and etc. showing dealers name and/or address, shall not be permitted on the outside of the unit.

34.0 INSTRUCTIONS & TRAINING (PER-ORDER)

The vendor shall furnish three (3) video training DVD's, covering the following subjects (if available):

- Operator Training
- Routine Maintenance
- Preventive Maintenance

If the vendor does not have video training DVD's available at the time of the bid opening, it shall be acceptable to the City that the vendor tape the training sessions at the time of the training, making three (3) copies available to the City.

In addition, the vendor shall instruct City employees in the operation, servicing and maintenance of the units or equipment delivered at the following City facilities and at such times as the end user may designate, all within thirty (30) days after final acceptance of the first unit.

34.1 Operators Location to be determined
 One Day Program

34.2 Technician
Provide technician training for a class group of 10 technicians, per day by a certified factory trainer on all components used in the manufacturing of the unit. All required training equipment and materials shall be supplied shall be included in the cost. The training facility shall be within the city limits.

BIDDER INITIALS _____

Technical and field service support shall be provided by the vendor, if necessary. This support must be by personnel qualified to instruct on training, repair and maintenance of the equipment. The technical representatives shall be available in the Philadelphia Metropolitan

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

area when required by the City.

35.0 ENGINEERING RESPONSIBILITY & CHRONIC COMPLAINTS/FAILURES

The term **CHRONIC COMPLAINTS/FAILURES**, as used herein, shall mean that the same component, sub-component, assembly or part, such as an engine, transmission, differentials, hydraulic system, pumps, etc. including valves, controls, water pumps, high pressure water systems, etc. develops repeated defects, breakdowns, and/or malfunctions.

The responsibility for the design of this equipment shall rest upon the successful vendor, and they shall consider all elements of operation for which the warranty shall apply. The successful vendor shall be responsible for the compliance and performance of each subcontractor, including all suppliers. Where the equipment, units and/or sub-components develop **CHRONIC COMPLAINTS /FAILURES** during service operations, the successful vendor will be required to make any engineering design changes, repairs, alterations, and retrofits or to make an adequate heavy duty redesign of any component so as to properly correct and continue to render continuous, durable and safe performance. Warranty periods shall be for an additional one year, measured from the completion date of any corrective measures. This additional warranty shall not expire at the end of the initial warranty period even when the correction is performed in the last days of the original, stated, warranty period.

Minor items or ordinary service adjustments are not included nor considered under this scope of **CHRONIC COMPLAINTS/FAILURES**. Conditions caused by other factors such as operational damage due to accidents, vandalism, misuse, or lack of proper maintenance, service, lubrication as prescribed or recommended by the Original Equipment Manufacturer (OEM), are also excluded.

Records and reports will be maintained by the Office of Fleet Management and will be made available for the successful vendor's periodic examination relative to **CHRONIC COMPLAINTS/FAILURES**.

The successful vendor shall provide written reports to the City, detailing the action taken as a result of a notice of complaint describing the failure. Any written notices of complaints or field action with corrections made shall be forwarded directly to the Office of Fleet Management, 100 S. Broad Street, 3rd Floor, Philadelphia, PA 19110, Tel. (215) 686-1825, FAX (215) 686-1829, in numbered report identifying the vehicle's property number, part or serial number of the failed component, with copies to the Engineering Section, same address.

For a fair and equitable evaluation of the **CHRONIC COMPLAINT/FAILURE**, the successful vendor, when notified of service difficulties, will be permitted to make detailed studies, analyze operational conditions and will have access to the equipment in order to make recommendations for corrections so as to obtain the desired safe and durable mechanical performance.

To reduce or eliminate **CHRONIC COMPLAINTS/FAILURES** on equipment, the City, as part of this contract, shall designate a Technical Review Committee, consisting of the Fleet Manager, Deputy Fleet Manager and Operations Manager of the affected equipment, to review, analyze and evaluate any successful vendor's remedies.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

In the event the successful vendor fails to address, or make the proper changes, repairs, modifications, retrofits, or does not render field service after written notice, or unnecessarily delays any actions, the Office of Fleet Management shall have the option of seeking appropriate restitution for loss of production.

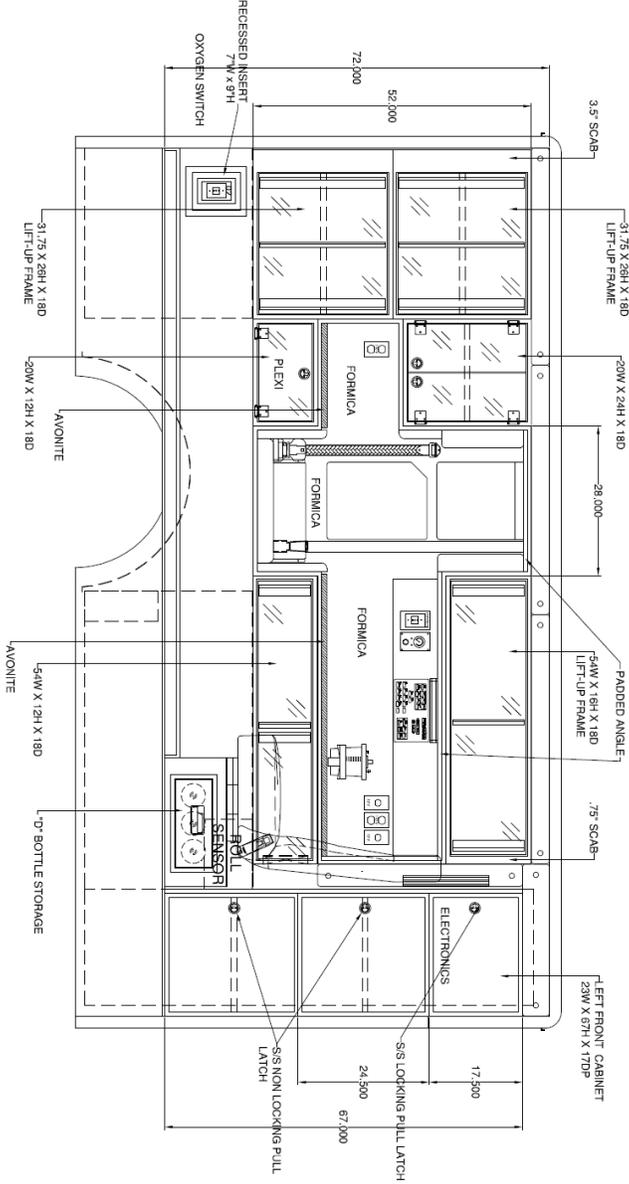
The successful vendor shall also be subject for Loss of Use, in the form of rental, lease payments, or a \$200.00 per day fee, while a vehicle is rendered unserviceable or out-of-service.

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



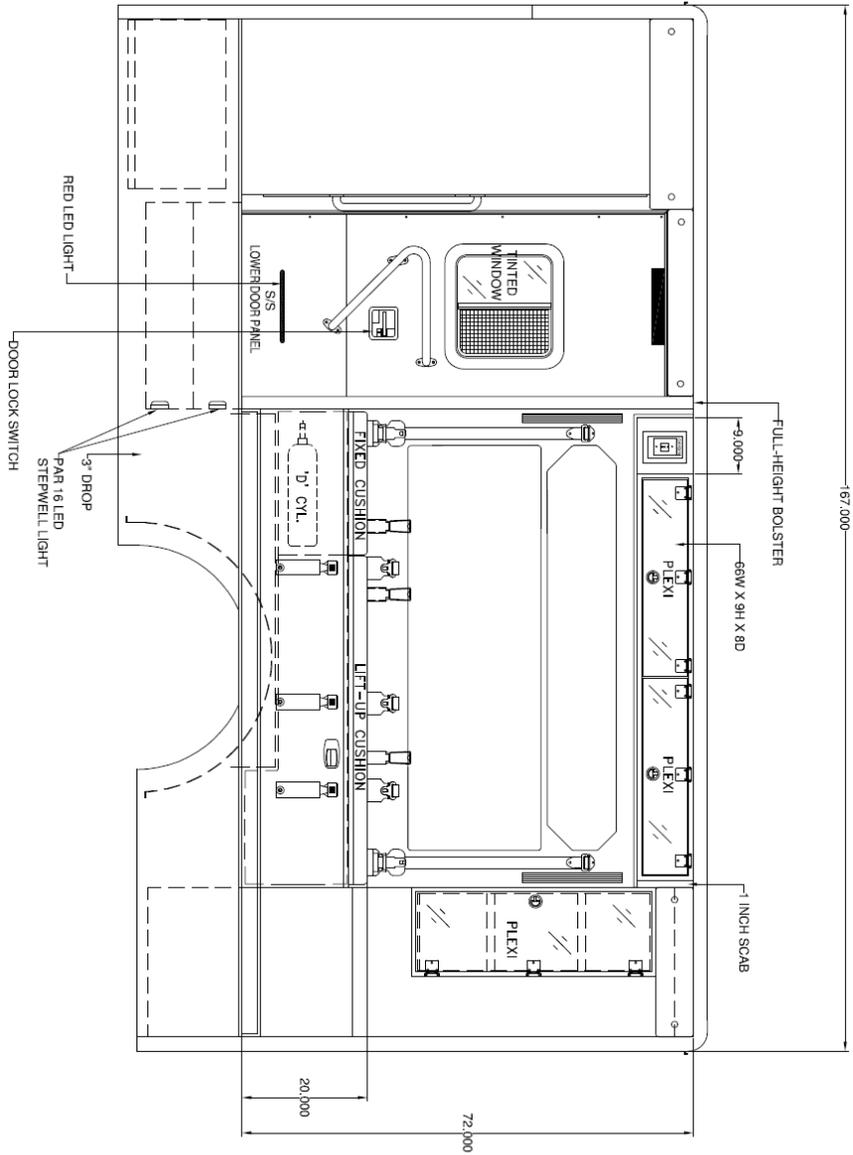
Patient Compartment Street Side Wall

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



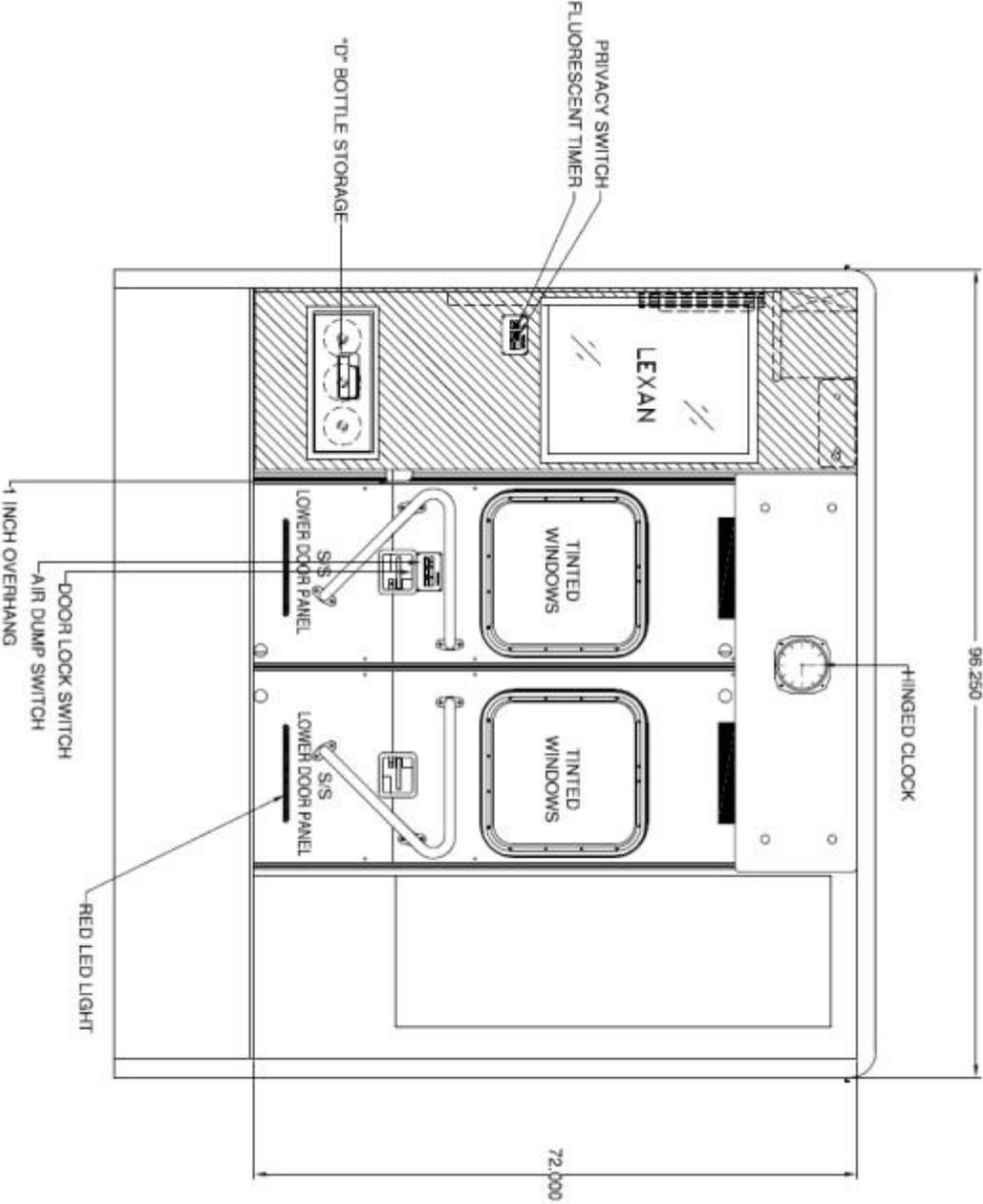
Patient Compartment Curbside Wall

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



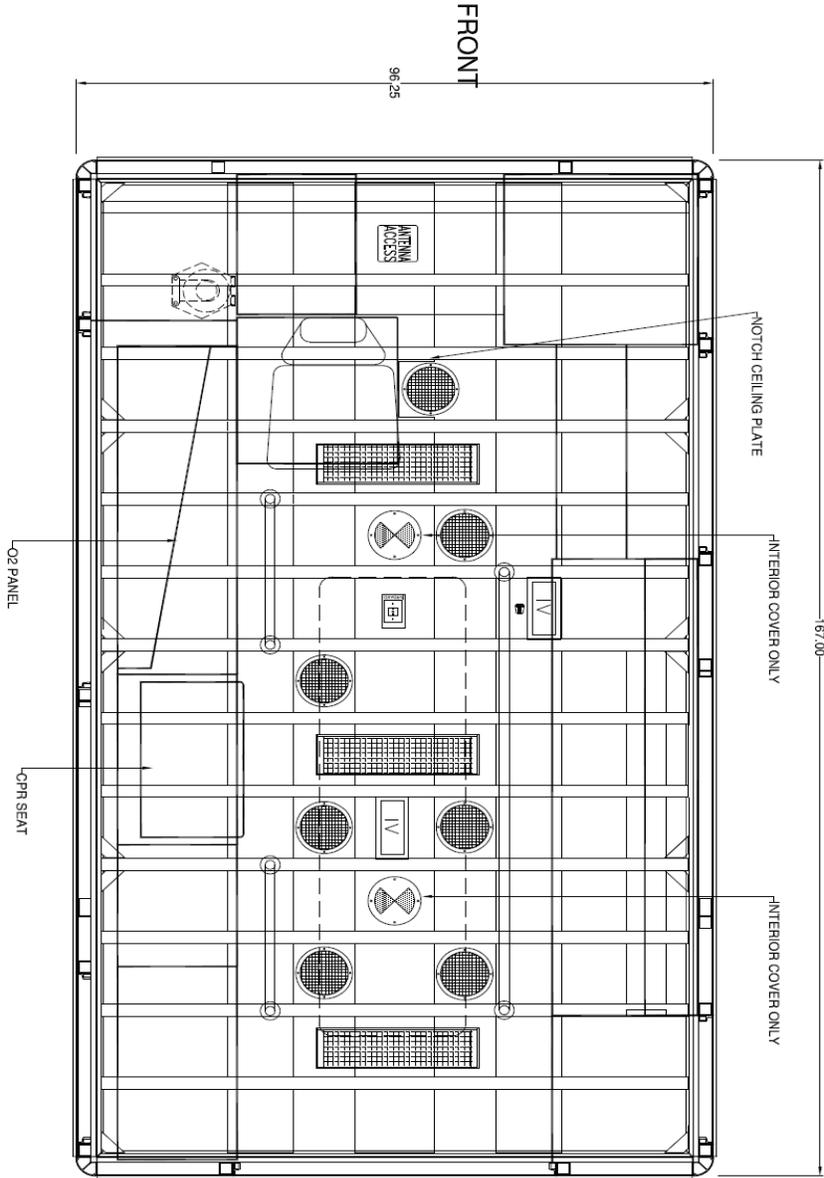
Patient Compartment Rear Wall

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



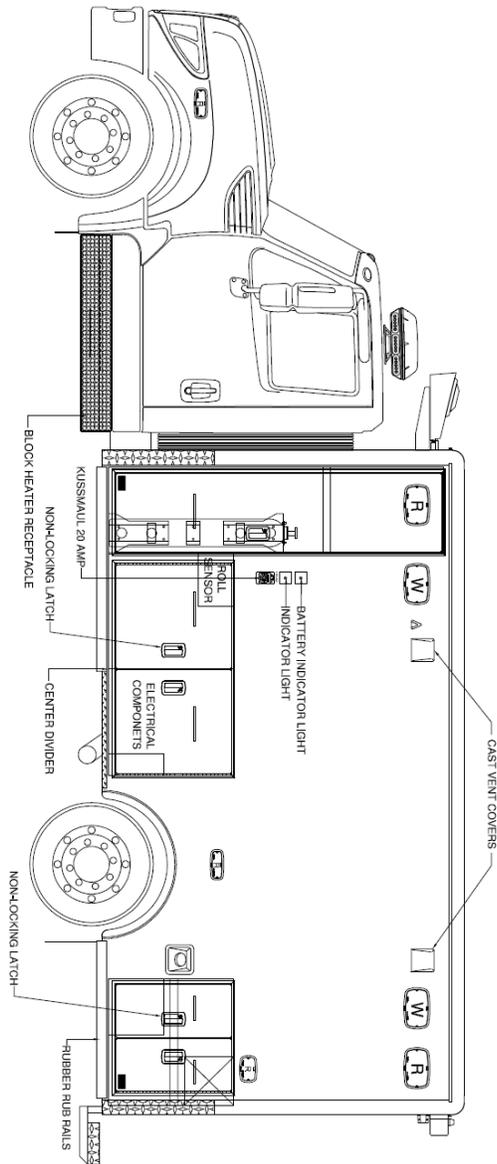
Patient Compartment Ceiling

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



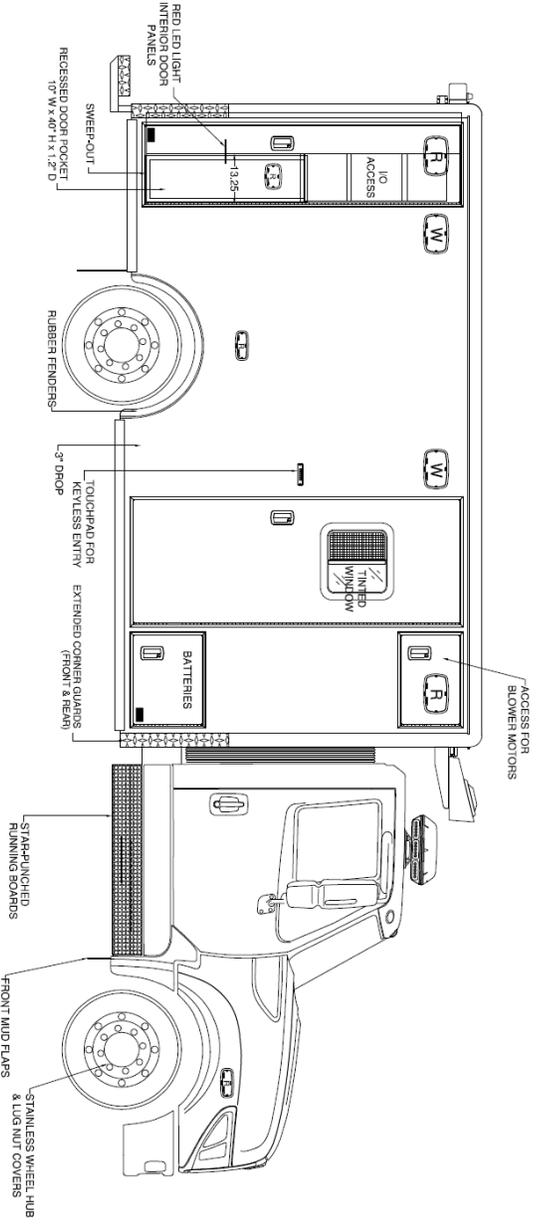
Street Side Exterior View

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



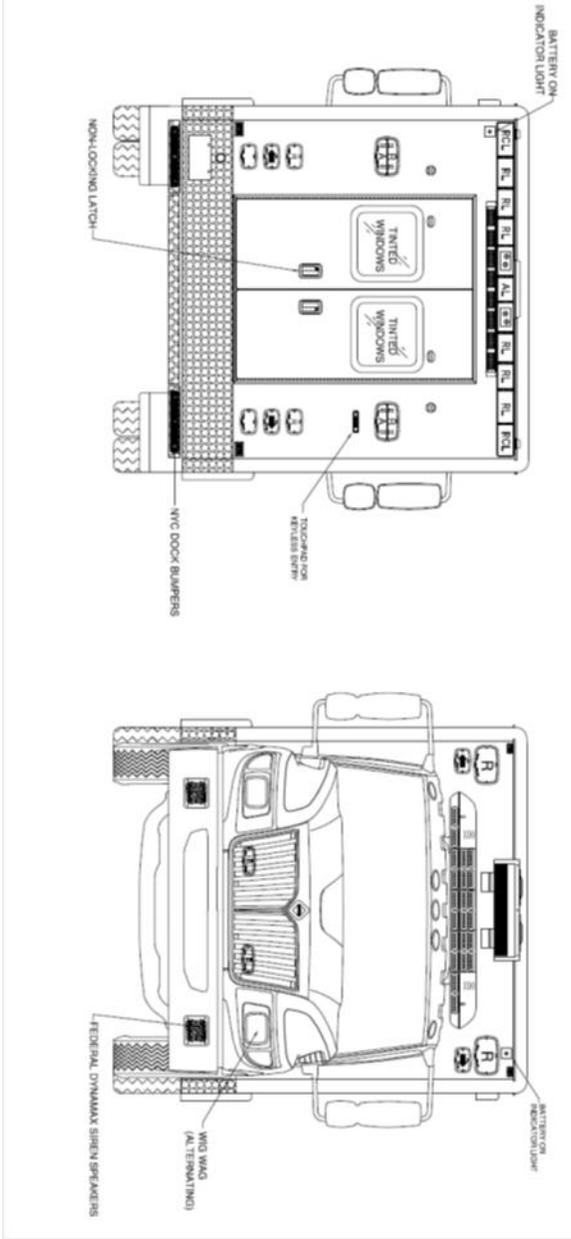
Curbside Exterior View

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13



Front & Rear End Views

MUST BE FILLED IN

FIRM (VENDOR'S) NAME _____

BID NUMBER _____

OFM SPEC CODE 22313e.13

SPECIFICATION

**TRUCKS: AUTOMOTIVE
INTERNAL COMBUSTION ENGINE**



1. **SCOPE & CLASSIFICATION:**

This specification covers the general requirements for Trucks in various body styles and weight classifications. The Trucks shall be powered by internal combustion engines. They shall be constructed, assembled and equipped to perform properly under the operating conditions for which they are intended. Each unit shall be unused in all component parts and shall be the latest model in current production and include all accessories normally furnished as standard as shown in current literature. These specifications shall be construed as minimum and where the manufacturer's fleet standard exceeds these, vehicles shall be so furnished; where optional equipment is specified, the description thereof shall be the governing minimum. They shall be registered with the Pennsylvania Department of Revenue for the License Class and Axle Weights indicated in the purchase description.

This specification shall be used in conjunction with appropriate detailed chassis purchase description for the specific type of truck called for in the Invitation to Bid (See Index - Last Page).

(NOTE): - Reference to GVW in these specifications is a guide only; final GVW rating shall be determined by the D.O.T. Rules and Regulations in regard to axles, springs, suspension, brakes and tires as required in the T-Form Specifications.

2. **APPLICABLE SPECIFICATIONS:**

The following specifications, of the , latest issue in effect on the date of the Invitation to Bid, shall form a part of this specification.

- Department of Transportation - Federal & State Motor Vehicle Safety Standards.
- Society of Automotive Engineers, Inc. - SAE Standards & Recommended Practices.

**TRUCKS, AUTOMOTIVE, INTERNAL COMBUSTION
ENGINE - SPECIFICATION 41-V-20M:86**

TABLE OF CONTENTS

(1) SCOPE AND CLASSIFICATION	PAGE 1 OF 32
(2) APPLICABLE SPECIFICATIONS	PAGE 1 OF 32
(3) CAB & CHASSIS	PAGE 5 OF 32
(4) BODY	PAGE 8 OF 32
(5) CAB 7 BODY EQUIPMENT	PAGE 8 OF 32
(6) FRAME	PAGE 9 OF 32
(7) SUSPENSION AXLES	PAGE 10 OF 32
(8) BRAKES	PAGE 11 OF 32
(9) ENGINE	PAGE 12 OF 32
(10) ENGINE EQUIPMENT	PAGE 13 OF 32
(11) TRANSMISSION	PAGE 13 OF 32
(12) STEERING PAGE	PAGE 14 OF 32
(13) COOLING SYSTEM	PAGE 14 OF 32
(14) ELECTRICAL EQUIPMENT	PAGE 14 OF 32
(15) TIRES	PAGE 15 OF 32
(16) FUEL TANK	PAGE 16 OF 32
(17) SAFETY EQUIPMENT	PAGE 17 OF 32
(18) WARRANTY	PAGE 18 OF 32
(19) PRE-PRODUCTION INSPECTION	PAGE 18 OF 32
(20) QUESTIONNAIRE	PAGE 18 OF 32
(21) QUESTIONS REGARDING BID	PAGE 18 OF 32
(22) ILLUSTRATIONS & DRAWINGS	PAGE 18 OF 32
(23) REPAIR PARTS AND SERVICE	PAGE 18 OF 32

(24) CERTIFICATION OF COMPLIANCE WITH SPECIFICATIONS	PAGE 19 OF 32
(25) REQUIREMENTS	PAGE 19 OF 32
(26) MATERIALS	PAGE 19 OF 32
(27) GROSS VEHICLE WEIGHT & DRY CHASSIS WEIGHT RATINGS	PAGE 20 OF 32
(28) FINISH	PAGE 20 OF 32
(29) WORKMANSHIP	PAGE 20 OF 32
(30) SHIPMENT & DELIVERY	PAGE 20 OF 32
(31) INSPECTION	PAGE 21 OF 32
(32) CERTIFICATES & MANUALS TO BE FURNISHED BY VENDOR	PAGE 22 OF 32
(33) SIGNS	PAGE 23 OF 32
(34) SCHOOLS	PAGE 23 OF 32
"T" - SPECIFICATIONS:	
-T1 - TRUCK, CHASSIS, REFERENCE 7,001 - 9,000 LB. GVW	PAGE 24 OF 32
-T2 - TRUCK, CHASSIS, REFERENCE 9,001 - 11,000 LB. GVW	PAGE 24 OF 32
-T3 - TRUCK, CHASSIS, REFERENCE 14,001 - 17, 000 LB. GVW	PAGE 24 OF 32
-T4 - TRUCK, CHASSIS, REFERENCE 17,001 - 21,000 LB. GVW	PAGE 25 OF 32
-T5 - TRUCK, CHASSIS, REFERENCE 21,001 - 26,000 LB. GVW	PAGE 25 OF 32
-T6 - TRUCK, CHASSIS, REFERENCE 26,001 - 30,000 LB. GVW	PAGE 25 OF 32
-T7 - TRUCK, CHASSIS, REFERENCE 44,001 - 48,000 LB. GVW	PAGE 26 OF 32
TRUCKS, BODIES, GENERAL	PAGE 26 OF 32
DUMP BODIES	PAGE 28 OF 32
VAN BODIES	PAGE 30 OF 32
COMPACT VANS	PAGE 31 OF 32

No. 41-V-20M:86
Supersedes 41-V-20L:85
Effective Date: 1/16/86

- OSHA Rules & Regulations - Shall apply when applicable.
- Federal Department of Health, Education & Welfare - Air Pollution Control for New Motor vehicles.
- Commonwealth of Pennsylvania - Traffic & Motor Vehicle Rules and Regulations.
- Manufacturer Line Set Ticket - Shall be forwarded to the Director of Automotive Services upon delivery of the chassis to the City of Philadelphia, or if Pilot Model Inspection, at the factory.

(NOTE) - Any intent of this specification shall be superseded by the provisions of the above.

3. **CAB & CHASSIS:**

- 3.1 Cab - Shall be conventional, three-man adjustable seat with three seat belts.
- 3.2 Chassis - The chassis shall be sturdily constructed and shall be of strength capable of withstanding all imposed loads when operating at the gross vehicle weight without excessive strain on any members or parts.
- 3.3 Chassis Body & Cab Colors:

3.3.1 City of Philadelphia, Paint Colors & Lettering by Department as follows:

<u>DEPARTMENT</u>	<u>COLOR</u>	<u>DUPONT REF. #</u>	<u>LETTERING COLOR</u>
Fair. Pk.	GREEN	72001	IVORY
Fire Dept.	RED	55141	GOLD LEAF
Police (Body)	BLUE	5351A	-----
Police (Roof)	WHITE	92635	-----
Sheriff (Body)	BLUE	5351A	-----
Sheriff (Roof)	WHITE	92635	-----

Water (Up to 21,000 lbs. GVW)	WHITE	508	BLUE
Water (26,000 Lbs. GVW & Up)	SAFETY YELLOW	75306	BLUE
Recreation (Stadium)	BLUE	78387	WHITE
All Other Depts. Except Library	SAFETY YELLOW	75306	BLUE

3.3.2 - All lettering listed above shall be three inches (3") high on front doors, both sides, as follows.

PHILADELPHIA

(NAME OF DEPARTMENT)

(6-DIGIT VEHICLE NUMBER)

NOTE) Stenciling of Lettering is NOT acceptable.

3.3.3 Optional Lettering - Streets Department: All vehicles shall have 1-1/2" size numbers placed on the left side of the front bumper and three inch (3") size numbers on the rear of the body as follows:

Department # - Vehicle # - Division

This lettering is in addition to the lettering specified in 3.3.2 above and lettering instructions may be obtained from the Automotive Services Division of the Department of Public Property.

3.3.4 Official Colors & Lettering of ALL Free Library Vehicles:

A) The vehicle shall be painted as follows:

1. Top Half = White
2. Bottom Half = Dark Blue
3. Dividing Stripe (3" Wide) between top and bottom halves located approx. 3" above blue bottom half = Bright Green

B) The vehicle shall be lettered as follows:

1. "THE FREE LIBRARY OF PHILADELPHIA" in large bold letters.
2. "READ" in large bold letters with a book-and-bell design (using white, blue and green) in the center of the letter "R".
3. Dark Blue lettering on white areas; white lettering on dark blue areas.

C. Paint Color Reference Numbers

<u>COLOR</u>	<u>LIBRARY PANTONE</u>	<u>TRADE NAME</u>	<u>DUPONT NO.</u>
WHITE	-----	WHITE	92635
DARK BLUE	287	DARK BLUE	24160
BRIGHT GREEN	368	BIG BAD GREEN	5081D

(NOTE): Instructions for the above Library Lettering may be obtained from the Automotive Services Division of the Department of Public Property.

4. **BODY:**
Body provided shall be as required in Bid Specs.

5. **CAB & BODY EQUIPMENT:**

5.1 Equipment & Accessories - The following equipment, and/or accessories shall be provided.

Cab & Body:

5.1.1 Fresh Air Heater and Defroster with separate control for temperature and fan.

5.1.2 All gauges shall be provided for ammeter, oil pressure, water temperature and fuel, 16,000 GVW & up.

5.1.3 Dual windshield wipers, power-operated, two-speed or variable.

5.1.4 Dual sun visors.

5.1.5 Dome Light.

5.1.6 Directional Signals - Class "A" Type, as per Pennsylvania DOT Motor Vehicle Regulations - with traffic hazard switch for flashing all turn signal lights simultaneously.

5.1.7 Combination arm rest/inside grab handle on cab doors adjacent to driver and passenger seats.

5.1.8 Safety Seat Belts - Belts shall comply with DOT Rules and Regulations.

5.1.9 **Mirrors:**

Inside Adjustable, up to 12,000 GVW
Outside, Dual Right/Left W/C to 12,000 GVW
Outside, Dual Right/Left W/C, 6" x 16", for
16,000 lbs. GVW and up.

5.1.10 **Undercoating** - Shall be applied to all exposed sheet metal under chassis and body including fender wells unless constructed of plastic.

(NOTE): Compacting-Type Trucks - are to be undercoated on the cab and chassis but NOT under the compactor Body.

5.1.11 **Cab Outside Grabhandles** - Shall be provided on trucks 16,000 lbs. GVW and up.

6. **FRAME:**

The Chassis Frame shall be constructed of pressed steel or equal; and shall be provided with adequate cross-members, exclusive of engine supports, so designed and constructed as to support adequately the gross weight of the body and load, the power plant, and all other necessary equipment under the operating conditions for which the truck is intended.

6.1 Frame shall be specified in terms of minimum acceptable resisting moment, which is the product of the section modulus of the frame section and the unit stress at the minimum yield point.

$$\text{MOMENT (M)} = \text{SECTION MODULUS (S)} \times \text{UNIT STRESS (F)}$$

In the case of built-up frame sections, the combined section modulus shall be considered as the sum of the individual section moduli.

6.2 Frame Attachments - Front & Rear Towing hooks or Eyes shall be provided, 16,000 lbs. GVW and up. They shall be fastened to the frame in such a manner as to develop maximum tension and minimum bending in the frame members.

6.3 Factory Frame Reinforcement - Shall be provided for 16,000 lbs. and up GVW, GCW and Chassis when specified in bid specifications.

Frame reinforcement is required on all Dump Trucks and Trucks with Cranes, Hydraulic Buckets and other Attachments inducing high twisting and weight stresses.

6.4 Frame Strength - The vehicle frame as supplied by the manufacturer shall meet all requirements as established and set forth by the Federal Government and the Commonwealth of Pennsylvania, Department of Transportation, to meet the GVW of the vehicle bid and shall have the prescribed Certification Sticker affixed to said vehicle. In order to meet the aforementioned standards, the bidder may provide a frame that is either structurally reinforced ("J" type, "L" type, "C" type, etc.) or is constructed of a "high tensile" rating steel or specially heat treated steel (minimum rating of 110, 000 PSI).

7. **SUSPENSION AXLES** - Rear Axles shall be capable of operating under all conditions with multi-purpose gear lubricants.

7.1 Springs - Springs shall match rating of front and rear axles capacity in pounds.

7.2 Shock Absorbers - Shock Absorbers shall be provided front and rear for all 7,500 lb. and 12,000 lb. capacity chassis.

7.3 Tire Chain Clearance - On Drive Wheels, single and dual, wheel chain clearance shall be provided.

7.4 Tandem Axle Suspension - Shall be walking beam type, with at least 50" axle spacing, rubber bushings and a cast steel saddle with steel springs to match axle capacity.

7.5 Axle Capacity shall be provided at least as follows:

<u>GVW REF.</u>	<u>FRONT AXLE</u>	<u>REAR AXLE</u>
7,500 LBS.	3,300 LBS	5,000 LBS.
11,000 LBS	4,000 LBS.	8,000 LBS.
16,000 LBS.	5,000 LBS.	15,000 LBS.
21,000 LBS.	6,000 LBS.	17,000 LBS.
26,000 LBS.	9,000 LBS	19,000 LBS.
30,000 LBS.	12,000 LBS.	23,000 LBS.
48,000 LBS.	16,000 LBS.	38,000 LBS.

(NOTE) - The above listed front axle capacities generally are not applicable to tractor specifications and they will be specified in the bid documents.

7.6 All single driving axles shall be equipped with limited slip differential, positive drive. Tandem axles shall be provided with inter-axle differential lock, air operated; dash switch with a red warning light.

8. **BRAKES:**

Service Brakes shall be provided on all wheels as follows:

8.1 7,500 lbs. to 11,000 lbs. GVW - Power Assisted Brakes

8.2 16,000 lbs. to 25,000 lbs. GVW - Vacuum-Boosted Hydraulic Brakes with a reserve tank, or power steering pump assist, and dash gauge.

- 8.3 26,000 lbs. GVW and UP - Full Air Brakes with dual reserve tanks, air pressure gauge on dash, buzzer, 12 cu. ft. (min.) water cooled air compressor, fail-safe rear brakes (Berg or Maxi type) released by air pressure, automatic reservoir drain valves and dash mounted controls.

(NOTE) - "S" Type Cam Brakes with automatic slack adjuster shall be provided in lieu of "wedge"-type brakes.

9. **ENGINE:**

Engine as specified and provided shall be in accordance with all the applicable provisions of Section #2, and it shall be of at least the listed minimum displacement, in accordance with the truck GVW, as follows:

9.1 Gasoline Powered Engines, if specified -

7,500 lbs. GVW = 345 cu. in.
11,000 lbs. GVW = 345 cu. in.
16,000 lbs. GVW = 360 cu. in.
21,000 lbs. GVW = 360 cu. in.
26,000 lbs. GVW = 390 cu. in.
30,000 lbs. GVW = 425 cu. in.
48,000 lbs. GVW = 425 cu. in.

(NOTE) - Trucks with GVW under 7,500 lbs. will use the 7,500 lbs. GVW rating as a guide.

9.2 Diesel Powered Engines, if specified.

16,000 lbs. GVW = 500 cu. in./4 cycle
21,000 lbs. GVW = 500 cu. in./4 cycle
26,000 lbs. GVW = 500 cu. in./4 cycle
30,000 lbs. GVW = 550 cu. in./2 cycle
30,000 lbs. GVW = 670 cu. in./4 cycle
48,000 lbs. GVW = 550 cu. in./2 cycle
48,000 lbs. GVW = 670 cu. in./4 cycle

(NOTE) - A key-type electrical solenoid or a manual type shut-down

system shall be provided on all diesel engines.

10. **ENGINE EQUIPMENT:**

All engines shall be provided with the following equipment:

- 10.1 Replaceable-type lube oil filter, engine-mounted.
- 10.2 Electronic-type ignition system, if gasoline engine.
- 10.3 Non-leaded Fuel System, if gasoline engine; all engines to have in-line replaceable fuel filters.
- 10.4 Engine Governor shall be provided on all trucks with a GVW of 16,000 lbs. or over; top governed speed limit allowable through transmission and rear axle ratios is 55 MPH.
- 10.5 Manufacturer's rated heavy-duty dry-type intake air cleaner.
- 10.6 All engines shall be provided with an automatic shutdown system for high water temperature and low oil pressure when specified in the Invitation to Bid.
- 10.7 Diesel engines are to be provided with cold weather starting provisions.

11. **TRANSMISSION:**

- 11.1 All trucks will be provided with fully automatic transmissions having the minimum number of forward speeds, in accordance with the truck GVW, as follows:

Up to 7,500 lbs.	3 speeds
11,000 lbs.	3 speeds
16,000 lbs.	4 speeds
21,000 lbs.	4 speeds
26,000 lbs.	4 speeds
30,000 lbs.	5 speeds
48,000 lbs.	5 speeds

(NOTE) - Transmissions provided on Trucks with GVW's of 26,000 lbs. or over shall have factory installed external type oil filters and an oil temperature gauge mounted on the dash.

12. **STEERING:**

All trucks shall be provided with Power Steering

13. **ENGINE COOLING SYSTEM:**

13.1 All engines shall be provided with increased cooling including a sealed radiator coolant recovery system with a surge tank.

13.2 All coolant systems shall be protected by permanent-type anti-freeze down to temperature of at least minus 30oF.

14. **ELECTRICAL EQUIPMENT:**

The chassis shall be provided with 12-volt electric starting, lighting and ignition system with two (2) keys. Alternator shall be heavy-duty type, at least 60 amp output, with 30 amp output at idle. All electrical systems in the vehicle shall be protected by circuit breakers or fuses. Battery shall be a 12-volt "Maintenance Free" type.

15. **TIRES:**

15.1 Tires of the same size and manufacturer shall be provided on the front and rear unless specified otherwise in the Invitation to Bid.

15.2 Front tires shall be "regular" tread type.

15.3 Rear driving axles shall be provided with "All Traction" type tires.

15.4 All-Wheel Drive Type Trucks, (including "Jeeps"), shall be provided with "all traction" type tires on all front and rear driving axles.

(NOTE) - "Military" Grade tires or Wide-Open Tread type tires are not acceptable for "All Traction" Type tires.

Police 4WD type vehicles shall be provided with blackwall "all traction" type steel belted radial tires.

15.5 A mounted "regular" tread type tire ("all traction" type for 4WD type vehicles) and rim shall be provided as a spare unit.

15.6 Trucks shall be provided with the number of tires sized and rated, in accordance with the trucks GVW, as follows:

<u>LBS GVW</u>	<u>NO OF TIRES</u>	<u>RIM SIZE</u>	<u>TIRE SIZE</u>	<u>TIRE PLY</u>
7,000	4	--	8.75 X 16.5	8
11,000	6	--	8.00 X 19.5	8
16,000	6	7.00	9.00 X 20	10
21,000	6	7.00	9.00 X 20	10
26,000	6	7.50V	10.00 X 20	12
30,000	6	7.50V	10.00 X 20	14
48,000	10	8.00V	10.00 X 20	14

(NOTE) The above ratings are to be considered as the minimum acceptable.

15.7 Cast spoke wheels are to be provided on all trucks with GVW ratings of 16,000 lbs. and above.

16. **FUEL TANK:**

All Trucks will be provided with the listed minimum size fuel tank, in accordance with their rated GVW, as follows:

<u>RATED GVW</u>	<u>TANK SIZE & TYPE</u>
7,500 LBS.	20 GALLON - REGULAR TANK
11,000 LBS.	20 GALLON - REGULAR TANK
16,000 LBS.	30 GALLON - REGULAR TANK
21,000 LBS.	50 GALLON - SAFETY STEP TANK
26,000 LBS.	50 GALLON - SAFETY STEP TANK
30,000 LBS.	50 GALLON - SAFETY STEP TANK
48,000 LBS.	DUAL 60 GALLON - SAFETY STEP TANK

17. **SAFETY EQUIPMENT:**

17.1 All trucks shall be provided with all safety equipment as required by DOT/ICC for vehicles in interstate operations. This equipment shall include, but not be limited to:

Fire Extinguisher - Dry Charge Type, Flags, Flares, Reflectors, etc.

Each Kit shall be mounted in a convenient location inside the cab.

17.2 Backup warning buzzer/alarm shall be provided on trucks with a GVW of 16,000 lbs. or above.

17.3 A Manual Engine Shut-Down System shall be provided on all diesel engines.

18. **WARRANTY:**

Warranty - In addition to any policy guarantees usually extended to the general public, the contractor shall guarantee the vehicle and body, and parts thereof against defective material, workmanship, and/or faulty design for a period of one (1) year from date of acceptance delivery to the Department of Public Property. The vendor shall replace all defective assemblies or parts without cost to the City (including labor), f.o.b. manufacturer's nearest dealer or branch, or to original destination whichever is designated by the using agency. The contractor shall make immediate replacement from his plant or through his dealer or branch.

Warranty Rate - Rate shall be \$25.00 per hour, plus 15% parts handling charge, when repairs are performed at City garages.

19. **PRE-PRODUCTION INSPECTION:**
Provide transportation and costs for two (2) persons to inspect pilot model unit at factory. All preparations; travel, lodging, meals and other arrangements will be made by the bidder at his own expense.
20. **QUESTIONNAIRE:**
The questionnaire included with the Invitation to Bid shall be completely filled out and submitted by bidder with his bid.
21. **QUESTIONS REGARDING BID:**
All questions regarding Bid Specifications should be directed to the Director of Automotive Services Division, Room 1140, M.S.B. or call extension (215) 686-4481.
22. **ILLUSTRATIONS & DRAWINGS:**
The bidder shall furnish with his bid, two (2) sets of illustrations and complete data sheets to assist the purchasing and using agencies in determining whether the vehicle offered is adequate to perform the work specified and if it meets the Bid requirements/description.
23. **REPAIR PARTS & SERVICE:**
As the continuous operation of the vehicle contemplated by this specification is of utmost importance, contractor shall be able to furnish, upon request, sources of maintenance and repair, parts and supplies for a period of ten years.

24. **CERTIFICATION OF COMPLIANCE WITH SPECIFICATIONS:**

The bidder shall certify on the form furnished with the Invitation and Bid that the Truck, component units, and parts shall be suitable for the work to be performed and will be constructed to definite standard dimensions, with proper clearance and fits; that previously published or set ratings shall not arbitrarily be raised without prior approval of the manufacturer of the actual unit and further, that the truck offered shall comply in every respect with the terms of this specification. In the event that the truck offered does not comply with this specification, the bidder shall state definitely, referring to the proper paragraph of this specification, where the Truck he proposes to furnish does not comply. Where no statement is received, the successful bidder shall be required to meet every requirement of the specification.

25. **REQUIREMENTS:**

General - Though they shall not be specifically enumerated herein, all parts necessary to provide a complete and efficient truck shall be furnished. All parts shall conform to current engineering practices of the industry relative to design, strength, quality of material and workmanship. The City reserves the right, at its option alone, to accept trucks with minor deviations from this specification.

26. **MATERIALS:**

The Truck and all parts thereof shall be made of materials which are suitable for the intended service and shall be produced by current standard manufacturing processes. The materials shall be free from characteristics or defects which affect the appearance or which shall affect the proper functioning of the finished product.

27. **GROSS VEHICLE WEIGHT AND DRY CHASSIS WEIGHT RATINGS:**
These shall be as specified in the Invitation to Bid. The gross vehicle weight rating shall include the weight of the complete chassis and cab with all attachments, accessories, and equipment required by this specification, and the body with its rated load, full complement of fuel, lubricants, coolant and the operator.
28. **FINISH:**
All surfaces and parts not having a chrome-plated or polished metal surface shall be department color-coated as per paragraph 3.3.1 over a rust-inhibiting primer coat. All concealed metal surfaces are to be protected with a rust-inhibiting primer coat.
29. **WORKMANSHIP:**
Workmanship shall conform to current best manufacturing practices followed from Trucks of similar type and capacity. Component parts and units shall be manufactured to definite standards dimensions, with proper fits and clearance.
- 30 **SHIPMENT & DELIVERY:**
- 30.1 Delivery Information - Final delivery shall be made between the hours of 8:00 AM and 4:00 PM, Monday through Friday, except City Holidays. Each vehicle shall be accompanied by a Delivery Slip which will contain the City's Bid Number, Purchase Order Number, Item Number on the Purchase Order, and Serial Number of the Vehicle. Delivery shall be made to:
- Department of Public Property
Automotive Services Division
6000 N. Broad St.
Philadelphia, PA
- Phone (215) 548-0481
- (NOTE) - Unless a different location is specified in the Invitation to Bid.

Notification of any changes in the delivery location will be made to

the successful bidder at least one week prior to the scheduled delivery date.

- 30.2 Where mounted equipment, such as bodies and accessories are to be furnished under separate contracts, the chassis vendor shall deliver the vehicle to the mounted equipment vendor location designated by the City. He shall secure a dated receipt for delivery with a copy for the City.

Upon completion of the work for which he is responsible, the mounted equipment vendor shall deliver the complete unit to the City of Philadelphia. It is the responsibility, however, of the chassis vendor to obtain the State Inspection Stickers on each vehicle, and therefore, he shall make such arrangements with the mounted equipment vendor as may be mutually agreeable which shall enable the body vendor to get the necessary State Inspection before final delivery.

The Prime Bidder retains the ultimate responsibility of providing a completely assembled and acceptable vehicle in all respects as per this specification and the Invitation to Bid.

30.3 **DELIVERY CONDITIONS:**

- 30.3.1 Vehicles, regardless of delivery point, shall be ready for use including all lubricants, coolant and operating fluids as required. Minimum ten (10) gallons of fuel shall be provided. Battery fully charged, tires properly inflated.
- 30.3.2 Unloading and any labor, equipment or material required for it, shall be the responsibility of the bidder. The City will designate the unloading area of the delivery site to be used.

31. **INSPECTION:**

- 31.1 Pennsylvania State Inspection - Each vehicle shall pass the Vehicle Code Examination of the Department of Transportation, Commonwealth of Pennsylvania; when delivered, chassis vendor shall have attached current State Inspection Stickers in the proper location.
- 31.2 Exhaust Emissions Inspection - All vehicles with GVW's subject to the provisions of the Pennsylvania Department of Transportation exhaust emission regulations must meet said requirements and have the appropriate sticker affixed to the windshield, along with the State Vehicle Inspection Sticker, when the vehicle is delivered to the City.
- 31.3 City Inspection - City Inspection of delivered vehicles will be conducted at the specified delivery point. It will be conditioned upon the satisfaction of all of the requirements of this specification and the Invitation to Bid.
- 31.4 Director of Automotive Services, Department of Public Property, shall be notified when Pilot or First Production Model is available for inspection at Manufacturer's Plant.

32. **CERTIFICATES & MANUALS TO BE FURNISHED BY VENDOR:**

- 32.1 Operator's Handbook with each vehicle.
- 32.2 Provide the necessary forms (completed) and documents for the City to take Title to the vehicle in accordance with the Pennsylvania Motor Vehicle Code.

32.3 Vendor shall supply the Director of Automotive Services, Public Property, not less than five (5) copies each (for chassis, body and accessories furnished) of Shop Manuals, Parts Catalogues, Flat Rate Manuals, and Price Lists, including updated supplements for a period of one year for each type of vehicle. The City shall pay the bidder his costs from the manufacturer for any additional copies required by the operating department.

32.4 Financial Responsibility Statement - Successful bidder is to provide with each delivered vehicle, a Pennsylvania "Financial Responsibility Statement" card (MV-45) completely filled out as per instructions thereon for that vehicle.

33. **SIGNS:**

Signs - Decals or other devices showing Dealer's Name and/or Address shall not be permitted on the outside of the vehicle.

34. **SCHOOLS:**

Each bidder shall arrange with the Director of Automotive Services Division, Department of Public Property, a formal school training program for the current year vehicles and equipment bid upon. These schools shall be available for all City Department's automotive maintenance employees, such as Foremen, Inspectors and Maintenance Mechanics. The Department of Public Property shall make available classroom facilities at Automotive Shop II, Front Street & Hunting Park Avenue, for the required training.

PURCHASE DESCRIPTIONS/PENNA. REGISTRATION CLASSES FOR TRUCKS AND CHASSIS ACCORDING TO THEIR G.V.W.

It is the intention of this Purchase Description Section to indicate the Pennsylvania Registration Class for the various size trucks generally specified for City services.

Reference: Pa. Manual on Automotive Titles and License,
13th Edition

T-1 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF: 7,001-9,000 LBS.**

GVW

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class #3.

T-2 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF: 9,001-11,000 **
LBS. GVW

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class #4.

T-3 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF: 14,001-17,000**
LBS. GVW

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class 6.

T-4 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF. 17,001-21,000
LBS. GVW**

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class 7.

T-5 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF. 21,000-26,000
LBS. GVW**

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class 8.

T-6 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF. 26,001-30,000
LBS. GVW**

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class 9.

T-7 **PURCHASE DESCRIPTION: TRUCK, CHASSIS, REF. 44,001-48,000**

LBS. GVW

1. **Classification:**

- 1.1 It is the intention of this Purchase Description to describe a Truck Chassis including all the standard options and as required in 41-V-20 (latest issue). The equipment bid shall qualify for Truck License Plates of the Commonwealth of Pennsylvania as Minimum Class 14.

BODIES

The Bodies as required in Bid items shall fit the chassis and be properly and securely mounted thereon. The bodies shall harmonize perfectly with the chassis, to be correctly proportioned, properly balanced (load distribution), compact and satisfactory in appearance. The materials used in the construction of the bodies shall be of the highest quality. All vehicles with Bodies shall be equipped with mud flaps/stone deflectors as required by DOT and Commonwealth of Pennsylvania. Approximately three (3") inches shall be provided from back of cab to front of body for best load distribution factor.

The following Body Classifications shall be provided as specified in the Invitation to Bid:

BODY:

The truck body, including equipment and body operating devices, shall be completely installed as specified in the Invitation to Bid.

BODY STYLE:

In addition to the cab normally provided with the truck chassis, a body described as follows will be provided according to the body class specified in the Invitation to Bid.

BUMPERS:

Bumpers/Liftgates - Manufacturer's standard type front and rear bumpers shall be provided on all vehicles as per D.O.T. regulations except as specified in the bid specifications. If a lift gate is specified on a vehicle that normally has a rear bumper, the rear bumper is still a requirement as an extension of the chassis or incorporated into the liftgate if either is compatible with the lift gate provided.

Class A-1; Crew Cab:

All steel construction of integral design with four doors; 6-man seating, adjustable front seat, 6 seat belts.

Class A-2; Pickup:

All steel construction at least 96" long x 50" wide beyond wheelhousing; full width rear tailgate, safety chain, stake pockets and rear bumper.

Class A-3; Suburban:

All steel construction, full width rear doors, windows all around, at least 9-passenger seating with removable intermediate and rear axle seats, one seat belt per passenger and a rear bumper.

Class A-4; Stake/Platform:

Body shall be wood or steel construction with removable slatted stake sections on sides and ends. Front-end shall permit adequate rear vision from cab windows. All sections shall interlock. Body shall be securely mounted to frame with full length oak stringers under body.

Class A-4-1(A) Stake & Platform as per A-4, above, at least 12 feet long, 82" wide with 40" high sections.

Class A-4-2(B) Stake & Platform as per A-4, above, at least 14 feet long, 82" wide with 40" high sections.

Class A-5; Step Van:

Shall consist of all-metal construction integral with chassis manufacturer's flat-back" type step van mounted on forward control type chassis, with double full-width rear doors, driver adjustable stand-up seat, passenger seat, and a rear safety step bumper.

Class A-5-1(A) Step Van - As per A-5, above, at least 10 feet long, 78" wide, 68" high.

Class A-5-2(B) Step Van - As per A-5, above, at least 12 feet long, 78" wide, 68" high.

DUMP BODIES AND HOISTS

CLASSIFICATION:

Dump Bodies shall be constructed of high strength corrosion resistant steel. Hoists for Dump Trucks shall be underbody hydraulic power type hoists with controls in cab. They shall provide a dumping angle of not less than 50 degrees and shall be of such a type that will positively control the position of body throughout the entire dumping angle. The hoisting shall be stopped automatically when the body reaches the maximum dumping angle (at least 50 degrees) and retain its position until released. The hoist cylinder shall be so designed as to allow for disassembly and servicing with ordinary hand tools. The pump shall be of the manifold type and oil tracts shall be cored or of seamless steel tubing or high pressure composition hose that shall withstand a minimum burst pressure of 6,000 lbs. per sq. inch. The pump shall be so designed as to compensate for end thrust and the shafts shall rotate on anti-friction bearings. The pump shaft shall be of the automatic self-adjusting seal type, eliminating the necessity for packing nuts and glands.

- Provide red warning light(s) on dash to alert operator that the PTO is engaged.

- Provide rear window protector screen.
- Provide rear spring-loaded pintle hook, "V" reinforced to main frame rails, (clear dump body at full dumping position).
- Approximately three (3") inches shall be provided between cab and dump body for good load distribution.
- A sliding universal joint assembly shall be provided at the pump end of the drive shaft. The body hinges shall operate on hinge pins under double shear or if single shear, a through hinge shaft shall be provided with a center support to prevent deflection. The power take-off shall be anti-friction bearing type. Hoist, power take-off and control parts shall be of sufficient capacity to amply take care of power required to operate hoist with 100% overload in body with relief valve.
- Full length longitudinal hardwood sills shall be provided with hoist frame mechanism to clear dump body for chain clearance at full load (full spring deflection shall be allowed). Hoist mechanism shall be securely mounted. The tailgate shall be double-acting with offset top hinges, tailgate and spreader chains.

TYPE DU-1 8 Ft. length medium duty Dump Body, 3 cubic yard capacity, with at least 16" sides, 84" width, constructed of not less than #10 USS Gauge Steel. Sides shall be reinforced with vertical "V" braces, not less than (2) two on each side. Ends shall be at least 6" higher than sides. Cab shield shall be provided, full width of body, projected at least 18" forward - #10 USS Gauge Steel. Class - #30 Hoist shall be provided with cab PTO controls to include detailed specifications as listed in Classification #1. Flooring shall be ten (10) USS Gauge Steel, minimum.

TYPE DU-2

10 Ft. length heavy-duty Dump Body, 5 cubic yard capacity, with at least 24" sides, 84" width, constructed of not less than #10 USS Gauge Steel. Sides shall be reinforced with vertical "V" braces, not less than (3) three on each side. Ends shall be at least 6" higher than sides. Cab shield shall be provided, full width of body, projected at least 18" forward - #10 USS Gauge Steel. Class - #50 Hoist shall be provided, power-up and down, with cab PTO controls to include detailed specifications as listed in Classification #1. Flooring shall be ten #8 USS Gauge Steel, minimum

TYPE DU-3

12 Ft. length heavy-duty Dump Body, 10 cubic yard capacity, with at least 39" sides, 84" width, constructed of not less than #8 USS Gauge Steel. Sides shall be reinforced box section design with at least four (4) vertical bars on each side. Ends at least 6" higher than sides. Cab shield shall be provided, full width of body, full cover shield, #10 USS Gauge Steel. Class - #80 Hoist shall be provided, power-up and down, with cab PTO controls to include detailed specifications as listed in Classification #1.

VAN BODIES

1. **CLASSIFICATION:**

Van Bodies shall be reinforced aluminum construction. Exterior panels shall be .40" thickness minimum and sides shall be beaded on 4" centers, for extra strength and rigidity, with 5-post, smooth front. Side uprights, top rail roof bows, and radius shall be extruded aluminum section of minimum .125 thickness. Corner post shall be extruded aluminum minimum of .125 thickness. Side sills shall be extruded aluminum minimum of .156 thickness. Exterior panels shall be riveted to uprights and roof on not less than 2" centers.

Rivets shall be of the side lock" moisture proof type. Uprights and roof bows shall be installed at 12" centers to provide adequate strength. All roof joints, side panels, and front panels shall be leak-proof. Body shall have a minimum of 7, three (3") inch cross members, #12 gauge aluminum or of a heavy-duty steel gauge 4" type, securely mounted to the truck chassis by means of "U" bolts. Interior of body shall be protected on sides and front with 1/4" grade AC waterproof plywood lining approximately 36" high, installed 8" above floor, with lengthwise slats above extending to roof. Front of body shall be provided with shatterproof glass windows of not less than 220 square inches in area and aligned with cab rear windows. Floor shall be kiln dried 4 x 4 (finished dimension) oak construction or as specified in the Invitation to Bid. Rear of body shall be equipped with full width roll-up door with safety catch and key lock.

TYPE VB-1 Van Body, complete as per above specifications and at least 12 ft. long, 78" high and 88" wide.

TYPE VB-2 Van Body, complete as per above specifications and at least 14 ft. long, 78" high and 88" wide.

COMPACT VANS

1. **CLASSIFICATION:**

Bodies shall be reinforced steel construction. They shall have full width rear doors with safety glass and locks. Maintenance accessibility shall be convenient and not require major removal of components to change oil, oil filter or air filters. It should also offer ease of service to windshield washer reservoir, master brake cylinder, oil crankcase check, automatic transmission fluid level check, battery and radiator service. Driver's seat should be adjustable and a passenger seat shall be included.

TYPE CV-1 Shall have wheelbase of at least 123" with curbside full width opening doors and as in Classification #1, Compact Vans.

TYPE CV-2 Shall have wheelbase of at least 123" with seating capacity of at least 12 adult passengers; seat belts shall be provided for all passengers. Van shall be provided with safety glass all sides and with a curbside double door safety step and as in Classification #1, Compact Vans.

Attention Bidder:

This bid document may not contain all of the documents that you will need to complete the bid submission. On occasion, it is not possible to include the following:

Exhibits

Drawings

Attached specifications

Attached documents

If you have not received a corresponding attachment, drawing or exhibit that is referenced in the bid document you may obtain it by contacting the Public Information Unit at 215-686-4720.



CITY OF PHILADELPHIA

INSTRUCTIONS FOR GETTING PAID **BY THE CITY OF PHILADELPHIA**

The City attempts to process invoices in a timely manner. Delays can occur because of incomplete or inaccurate invoicing information. Please make sure that all your invoices contain the following information to help the City in paying you as quickly as possible.

- 1. AFTER THE DELIVERY OR SERVICES HAS BEEN COMPLETED YOU MUST SUBMIT THREE (3) COPIES OF AN INVOICE FOR PAYMENT TO THE RECEIVING DEPARTMENT LISTED ON THE PURCHASE ORDER.**
- 2. THE INVOICE MUST CORRECTLY REFERENCE THE PURCHASE ORDER NUMBER, THE VENDOR NAME, ADDRESS AND FEDERAL EMPLOYER IDENTIFICATION NUMBER.**
- 3. CHECKS WILL ONLY BE MADE PAYABLE TO THE COMPANY NAME AS SHOWN ON THE PURCHASE ORDER, THE INVOICE MUST REFLECT THIS SAME COMPANY NAME AS THE "PAY TO".**
- 4. THE INVOICE MUST SHOW THE QUANTITY AND TYPE OF ITEM OR SERVICE AND THE PRICE.**
- 5. THE UNIT OF PURCHASE ON THE INVOICE MUST AGREE WITH THE UNIT CITED ON THE PURCHASE ORDER. REFERENCE TO THE SPECIFIC LINE ITEM IS HELPFUL.**

Paying vendors is the responsibility of the *receiving* City Department(s), not the Procurement Department. Vendors should bring any problems concerning payments to the attention of the appropriate City receiving department. The name and number of the contact person can generally be found on the purchase order. If all necessary paperwork has been submitted to the department and questions still remain, vendors should contact:

**City of Philadelphia
Accounting Verification
Room 1340 Municipal Services Building
1401 J.F.K. Blvd.
Philadelphia, PA 19102
Te. 215 686 6365**

IN YOU ARE INTERESTED IN RECEIVING YOUR PAYMENTS ELECTRONICALLY RATHER THAN BY CHECK PLEASE SEE ATTACHED LETTER & ACH VENDOR ENROLLMENT AND CHANGE FORM.

GENERAL BIDDERS GUIDELINES*

The following checklist will assist you in the preparation of your bid. Failure to adhere to these instructions may result in your bid being disqualified.

- Read the entire bid so that you fully understand all of the requirements. Bidder must meet all qualifications and requirements.
- Bids and pricing must be written in ink or typed. Faxed bids will not be accepted.
- Make sure that you have signed the Contract Page and affixed your Corporate Seal as required.
- If applicable, sign and return all addenda.
- All bids must be submitted to the City of Philadelphia **no later than 10:30 AM** on the date that the bid opens. **Bids MUST be placed in the Bid Box** (slot located outside of Room 170A) prior to the bid opening. Bids that are not in the bid box prior to the bid opening may be disqualified.
- It is the bidder’s responsibility to ensure that the bids are submitted in a timely manner and placed in the bid box prior to the bid opening. If the bid is being sent by courier or mail, it is recommended that the bid be sent early. The bid should arrive at least one business day before the bid opens to ensure timely receipt.
- All bids **must** be placed in a **sealed** envelope. **The Bid Number, Opening Date and Company Name MUST be clearly labeled on the envelope.** If the bid is being delivered by courier or express mail, the bid **must** be in a **separate** sealed envelope inside the courier’s envelope or express mail. This is to ensure that all bids conform to the sealed bid process of the City of Philadelphia.
- Make sure you submit the appropriate Bid Security and Bid Submission Fee with your bid. Refer to Section 1 of the bid and Sections 2 and 3 of the Terms and Conditions. See below.

If the bidder is not enrolled and does not intend to enroll; or if the total value of the bid submitted exceeds \$500,000.00, the Master Bid Security Program is not applicable. Bidders instead **MUST** submit with their bid a refundable Certified, Treasurer’s or Cashier’s Check, Bank Money Order or United States Postal Money Order in the amount as specified in Paragraph 2 entitled “Bid Security”, of the “Terms and Conditions of Bidding and Contract”.

- 2. **BID SECURITY.** Unless the bidder is enrolled under the City’s Annual Master Bid Security Program or an individual bid bond is required in the Invitation and Bid, all bids must be accompanied by a Certified Check, Treasurer’s Check, Cashier’s Check, Bank Money Order, or United States Postal Money Order made payable to the order of “The City of Philadelphia” in the proper amount as shown below:

AMOUNT OF BID OR ESTIMATED CONTRACT	AMOUNT OF CERTIFIED CHECK
\$32,000.00 or less	No Check Required
\$32,000.01 - \$99,999.99	\$500.00
\$100,000.00 - \$249,999.99	\$2,000.00
\$250,000.00 - \$499,999.99	\$4,000.00
\$500,000.00 or more	\$6,000.00

When computing amount of Bid for Certified Check purposes, do NOT deduct for trade-ins.

3. **BID PROCESSING FEE.** In addition to bid security and any other fee or monies required to be submitted with the bid, the bid shall be accompanied by a non-refundable processing fee in the form of a separate standard check, bank money order or United States postal money order made payable to the order of “City of Philadelphia” in an amount based on the gross amount of the bid in accordance with the formula below. Cash is not acceptable.

AMOUNT OF BID OR ESTIMATED CONTRACT	AMOUNT OF PROCESSING FEE
\$ 32,000.00 or less	No Check Required
\$ 32,000.01 - \$ 100,000.00	\$ 10.00
\$ 100,000.01 - \$ 300,000.00	\$ 30.00
\$ 300,000.01 - \$ 500,000.00	\$ 50.00
\$ 500,000.01 - \$1,000,000.00	\$100.00
\$1,000,000.01 - \$2,000,000.00	\$200.00
\$2,000,000.01 - \$3,000,000.00	\$300.00
\$3,000,000.01 - \$4,000,000.00	\$400.00
\$4,000,000.01 - \$5,000,000.00	\$500.00
\$5,000,000.01 or more	\$600.00

- Do not combine any payment amounts. All payments should be individual and specific.
- If an alternate to any item is being offered, you must follow the instructions in Section 4 of the Terms and Conditions.

4. **SPECIFICATIONS.** When a formal, numbered, specification is referred to in the Invitation and Bid, no deviation therefrom will be permitted, except if/as indicated in the Invitation and Bid and the bidder will be required to furnish articles and/or services in conformity with that specification. When catalogues, model numbers, trade names, or cuts are listed in the Invitation and Bid, they are, unless otherwise specified, included for the purposes of furnishing bidders with information concerning the style, type or kind of article and /or service desired. A bidder may offer an article and/or service which he/she certifies to be equal or better in quality, performance and other essential characteristics. If submitting an alternate, the bidder must specify the alternate (e.g., make and model #) in the bid and submit with the bid a complete description of the article (including any technical literature) and/or service proposed to be furnished. Failure to do so will require the bidder to furnish the article and/or service specified in the Invitation and Bid. The Procurement Commissioner reserves the sole right to determine whether alternates offered are equal or better. Unless otherwise provided in the bid specifications, all items offered by the bidder must be new. A “new” item is one which will be used first by the City. This clause shall not be construed to prohibit bidders from offering goods, supplies, equipment, or materials containing recycled materials or printing with recycled content; bidders intending to provide goods made with recycled materials should notify the Procurement Department.

- If the bid is going to be awarded as a whole, you must bid on all items. See Section 3 of the bid: Bid Evaluation and Award.
- If the bid requires a site inspection, attendance at a Pre-Bid Meeting, samples, financial information or other data you must adhere to these requirements.
- Do not submit any counter terms or conditions. **Your bid may be rejected.**
- Please double check all mathematical calculations for errors.

If you have questions, please contact Public Information Unit at bid.info@phila.gov or call 215-686-4720.

*This information is provided for guidance only and does not preclude your responsibility to read fully and respond to all portions of the bid.



**CITY OF PHILADELPHIA
PROCUREMENT DEPARTMENT
Public Information Unit**

This Is Not A Right To Know Request. This form cannot be used to submit a Right To Know Request. See City of Philadelphia Open Records Policy: <http://www.phila.gov/privacy/pdfs/finalcityopenrecords.pdf>

ATTENTION VENDORS

If your company would like to receive the results of a particular bid, the Public Information Unit of the Procurement Department will forward this information to you at a **\$10.00 fee, company check or money order only, no personal checks or cash, for each bid number requested.** Please be advised that bid tabulations **are not available** by telephone. If you have any questions, Please call 215-686-4755 or 215-686-4756.

BID RESULTS REQUEST FORM

Please complete form below. Only one (1) request per form.

Date of Request: _____

Bid Number Requested: _____ Opening Date: _____

Company Name: _____

Company Representative: _____

Address: _____

Email Address _____

Telephone No.: _____ Fax No.: _____

Mail this Request to the address below and enclose the following items:

- Company check or Money Order payable to “City of Philadelphia”
- A self-addressed stamped envelope which is at least 9 ½” x 12 ½” or larger for each Bid requested.

**YOUR REQUEST CANNOT BE PROCESSED IF YOU
DO NOT PROVIDE THE ABOVE ITEMS**

Mail Request To:

The Procurement Department Public Information Unit
Attention: Bid Results
1401 JFK Blvd.
Room 170B
Philadelphia, PA 19102

COMPANY CHECK OR MONEY ORDER ONLY



CITY OF PHILADELPHIA

Procurement Department
120 Municipal Services Building
Philadelphia, PA 19102-1685
(215) 686-4720
(215) 686-4716 Fax

Hugh Ortman
Procurement Commissioner

Master Bid Security Program for Service, Supplies and Equipment Bids Period of Coverage: July 1, 2013 – June 30, 2014

(Bids for Professional Consulting Services, Public Works, Construction and Demolition [wrecking and building removal] are not covered under the Master Bid Security Program)

Dear Vendor:

The Philadelphia City Charter requires that each bid submission over \$32,000 be accompanied by a certified check in the amount specified in the bid invitation. This requirement can be met for most bids if the Bidder is covered under the City's Master Bid Security Program. This program provides bid security coverage for Service, Supply and Equipment bids that have a total dollar value of over \$32,000 up to \$500,000.

To file for coverage under the Bid Security Program, for the period **July 1, 2013 to June 30, 2014**, complete the enclosed application and return it with a check for **\$140.00**. Make the check payable to "**City of Philadelphia**". It is **non-refundable**. To clarify the precise use of the check, enter the words "**Bid Security Program**" **2013 – 2014** on the face of the check.

If you do not become a participant in the program at this time, you may still submit bids. However, they must be accompanied by a certified check in the amount specified in the Terms and Conditions of Bidding.

For additional information or inquiries regarding this program, please contact: The Public Information Unit at (215) 686-4719, (215) 686-4720 or (215) 686-4721.

IF A RECEIPT IS REQUESTED, PLEASE ENCLOSE A SELF-ADDRESSED STAMPED ENVELOPE.

Forward Check with Application to
CITY OF PHILADELPHIA
MASTER BID SECURITY PROGRAM
170A Municipal Services Building
Philadelphia, PA 19102-1685

Company Name: _____

Fed EIN/SSN: _____

Street Address: _____

City, State, Zip: _____

Contact Person: _____

E Mail Address: _____

Telephone No: (____) _____ **Fax No:** (____) _____

A. Check payable to the City of Philadelphia in the amount of \$140.00 for 7/1/13 to 6/30/14
DO NOT SEND CASH. NO PERSONAL CHECKS.

Internal Use Only

Rcvd. ___/___/___ Pymt. Type _____ Ck. Amt. \$ _____ Ck.# _____



CITY OF PHILADELPHIA

PROCUREMENT DEPARTMENT
120 Municipal Services Building
Philadelphia, Pa 19102-1685

Hugh Ortman
Procurement Commissioner

Dear Valued Vendor,

The City of Philadelphia is pleased to announce a new online **Vendor Invoice Information (VII) Website** which will allow businesses such as yours to inquire about the status of invoices billed against purchase orders and professional services contracts. The only requirement is that your invoices utilize a unique number – alpha, numeric or a combination of the two.

This system will be operational twenty four hours a day, seven days a week. All you have to do is log on to the City of Philadelphia website: www.phila.gov, click on “Vendor Invoice Information” under the “Help Me” section of the home page, enter your Federal Employer Identification Number (FEIN) and a valid active purchase order. Then, agree to a waiver statement and follow the prompts to get an up-to-date status on your payments.

You are urged to give it a try and see for yourself how easy it is to use. If you should happen to experience any problems, or if you would like to comment on this new system, please e-mail us using the question and comment field provided on the site.

We believe that you will find this new way of obtaining payment information convenient and easy to use.

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

BID SUBMISSION

1. PREPARATION AND SUBMISSION OF BID.

All bids must be written in ink or typewritten and made on the forms issued and signed in ink by a person with legal authority to bind the bidder. The contract awarded hereunder shall consist of the Invitation and Bid, all addenda thereto issued by the City, all exhibits and attachments issued and/or accepted by the City and these Terms and Conditions of Bidding and Contract (the "Contract"). It is the sole responsibility of the bidder to ensure that it has received any and all addenda and the Procurement Commissioner may in his/her sole discretion reject any bid for which all addenda have not been executed and returned in accordance with the instructions provided therein. No bid may be considered if received after the date and time for the opening of bids established by the Invitation and Bid, nor may any bid be modified after that date and time. The time of bid opening shall be the time displayed on the City's official bid clock located at the bid room. In the event of any discrepancy between actual time and the City's official bid clock, the latter shall determine the time of bid opening.

2. BID SECURITY. Unless the bidder is enrolled under the City's Annual Master Bid Security Program or an individual bid bond is required in the Invitation and Bid, all bids must be accompanied by a Certified Check, Treasurer's Check, Cashier's Check, Bank Money Order, or United States Postal Money Order made payable to the order of "The City of Philadelphia" in the proper amount as shown below:

AMOUNT OF BID OR ESTIMATED CONTRACT	AMOUNT OF CERTIFIED CHECK
\$ 32,000.00 or less	No Check Required
\$ 32,000.01 – \$ 99,999.99	\$ 500.00
\$100,000.00 – \$249,999.99	\$2,000.00
\$250,000.00 – \$499,999.99	\$4,000.00
\$500,000.00 or more	\$6,000.00

When computing amount of Bid for Certified Check purposes, do NOT deduct for trade-ins.

Any bid in excess of \$500,000 is not covered by the Annual Master Bid Security Program, and bidder must submit a certified check, treasurer's check, cashier's check, bank money order, or United States postal money order made payable to the order of "The City of Philadelphia" in the required amount.

Once the lowest responsive and responsible bidder has been determined all other bidders will receive a refund in the amount of the bid security submitted. Bid security submitted by the lowest responsive and responsible bidder will be refunded after receipt of all duly executed Contract documents, required fees, bonds or other performance security. Funds submitted for the Master Bid Security Program are not refundable.

3. BID PROCESSING FEE. In addition to bid security and any other fee or monies required to be submitted with the bid, the bid shall be accompanied by a non-refundable processing fee in the form of a separate standard check, bank money order or United States postal money order made payable to the order of "City of Philadelphia" in an amount based on the gross amount of the bid in accordance with the formula below. Cash is not acceptable.

AMOUNT OF BID OR ESTIMATED CONTRACT	AMOUNT OF PROCESSING FEE
\$ 32,000.00 or less	No Check Required
\$ 32,000.01 – \$ 100,000.00	\$ 10.00
\$ 100,000.01 – \$ 300,000.00	\$ 30.00
\$ 300,000.01 – \$ 500,000.00	\$ 50.00
\$ 500,000.01 – \$1,000,000.00	\$100.00
\$1,000,000.01 – \$2,000,000.00	\$200.00
\$2,000,000.01 – \$3,000,000.00	\$300.00
\$3,000,000.01 – \$4,000,000.00	\$400.00
\$4,000,000.01 – \$5,000,000.00	\$500.00
\$5,000,000.01 or more	\$600.00

4. SPECIFICATIONS. When a formal, numbered, specification is referred to in the Invitation and Bid, no deviation therefrom will be permitted, except if/as indicated in the Invitation and Bid and the bidder will be required to furnish articles and/or services in conformity with that specification. When catalogues, model numbers, trade names, or cuts are listed in the Invitation and Bid, they are, unless otherwise specified, included for the purposes of furnishing bidders with information concerning the style, type or kind of article and /or service desired. A bidder may offer an article and/or service which he/she certifies to be equal or better in quality, performance and other essential characteristics. If submitting an alternate, the bidder must specify the alternate (e.g., make and model #) in the bid and submit with the bid a complete description of the article (including any technical literature) and/or service proposed to be furnished. Failure to do so will require the bidder to furnish the article and/or service specified in the Invitation and Bid. The Procurement Commissioner reserves the sole right to determine whether alternates offered are equal or better. Unless otherwise provided in the bid specifications, all items offered by the bidder must be new. A "new" item is one which will be used first by the City. This clause shall not be construed to prohibit bidders from offering goods, supplies, equipment, or materials containing recycled materials or printing with recycled content; bidders intending to provide goods made with recycled materials should notify the Procurement Department.

5. PATENTS. The successful bidder shall be solely responsible for all royalties and charges that may be due to any patent holder for or on account of the use of any patented appliance, product or processes. Evidence of such payment shall be submitted upon request of the Procurement Commissioner and failure to submit such evidence may, in the sole discretion of the Procurement Commissioner, result in rejection of the bid or constitute an event of default, entitling the City to all rights and remedies as provided herein in

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

Section 16 and/or 18.

6. LOCAL BIDDING PREFERENCE

In accordance with Chapter 17-109 of the Philadelphia Code relating to Local Bidding Preferences for Procurement Contracts, this bid may be subject to a 5% local bid preference. In order to determine eligibility to receive the 5% preference, if applicable, bidder must be certified at the time of the bid opening and must submit with the bid, the Local Business Entity Certification Number* as issued by the Procurement Department for the prime contractor.

*Note: If you wish to apply for Local Business Entity (LBE) certification, go to www.phila.gov/bids. Please allow sufficient time prior to bidding for processing of the LBE application.

EVALUATION AND AWARD

7. TYPES OF BIDDER RESTRICTED. Bidders must not be a party to more than one bid for the same article or service. A violation of this condition may, in the sole discretion of the Procurement Commissioner, result in rejection of any or all such bids in which the bidder has an interest.

8. RESPONSIVENESS. Subject to the right of the Procurement Commissioner to waive non-responsiveness as set forth below in this Section, these Terms and Conditions of Bidding and Contract and the specifications and requirements included in the Invitation and Bid are mandatory and must be strictly followed by all bidders in the preparation and submission of their bids. After bids are opened, the Procurement Department, and other City departments or agencies where appropriate or specified, shall review all bids for responsiveness to these Terms and Conditions of Bidding and Contract and the specifications and requirements included in the Invitation and Bid.

Any bid which is incomplete, obscure, conditional, or unbalanced, which contains additions not called for, or irregularities of any kind, including alterations or erasures, or which fails to conform in any respect to these Terms and Conditions of Bidding and Contract and the specifications and requirements included in the Invitation and Bid is non-responsive and shall be rejected, except where the Procurement Commissioner, in his/her sole discretion, determines that the non-responsiveness is not material to the Invitation and Bid or that a waiver of the non-responsiveness is otherwise permitted by the Invitation and Bid, by these Terms and Conditions of Bidding and Contract or by law. The Procurement Department's determination of non-responsiveness shall be final and any bid rejected as non-responsive shall not be eligible for contract award.

9. RESPONSIBILITY. Unless otherwise specified, after bids are opened, the Procurement Department, and other City departments or agencies where appropriate or specified, shall review and may investigate the responsibility, including, but not limited to, the qualifications, references, capacity and ability to perform the Contract resulting from the Invitation and Bid in accordance with its terms, and integrity, of the lowest responsive bidder. All determinations of bidder

responsibility shall be vested in the sole discretion of the Procurement Commissioner and other City officials. Any bidder who is deemed not responsible shall be ineligible for award of the Contract.

Bidders deemed not responsible will be notified of such determination and the reasons therefore in writing by the Procurement Department, and shall have the right to contest the determination by submitting to the Procurement Department, within forty-eight (48) hours after receipt of its written determination, a written request for reconsideration that includes information relating to the bidder's qualifications and responsibility and demonstrating the insufficiency of the reasons stated in the written determination finding the bidder not responsible. Any further determination of a contesting bidder's responsibility shall be vested in the sound discretion of the Procurement Commissioner and other City officials.

10. CANCELLATION AND AWARD. The Procurement Commissioner, in his/her sole discretion, may cancel any Invitation and Bid prior to bid opening. After bid opening, the Procurement Commissioner, in his/her sole discretion, may reject all bids, if deemed in the best interest of the City. In all cases where a Contract award is made by the Procurement Department, the bidder is bound by the terms and conditions of the Invitation and Bid upon the submission of its bid. All bids are valid for a period of not less than 60 days, or as otherwise specified in the Invitation and Bid. If the bid has not been awarded within the specified period of time, the bid shall be valid for subsequent award only upon the express consent of the bidder, with no change to the submitted bid. Any price increases/decreases expressly provided for in the Invitation and Bid will be allowed. All Contract awards shall be made by the Procurement Department upon written notice to the bidder that is determined by the Procurement Department to be the lowest responsive and responsible bidder.

11. QUANTITIES AWARDED. For requirements contracts only, the articles and quantities of such articles as set forth in the Invitation and Bid are estimates and the Procurement Commissioner, in his/her sole discretion, may make an award for all or some of the articles bid and in such quantities as the Procurement Commissioner shall deem appropriate. For firm limit contracts, it is the City's intent to award based upon the quantities set forth in the Invitation and Bid, but the City reserves the right to award more or less.

12. DELIVERY, PRICE INCREASES AND TIE BIDS. All articles must be delivered at the price(s) bid, FOB Destination. Bids containing reservations of the right to increase the price(s) bid, including, but not limited to, late payment charges, will not be considered, except where the Procurement Commissioner, in his/her sole discretion, finds it in the City's best interest to do so. In the event of an absolute tie, the award decision will be made in the best interests of the City as determined by the Procurement Commissioner.

CONTRACT EXECUTION AND CONFORMANCE

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

13. CONTRACTS. Awards of contracts in amounts less than or equal to \$32,000 shall become contracts binding upon the City upon written notice of award by the Procurement Commissioner. Awards of contracts in amounts greater than \$32,000 shall not become contracts binding upon the City until after written notice of award is made and until after all of the following conditions have been satisfied:

- a. Successful bidder posts sufficient performance security, as required in the Invitation and Bid, within the time specified in the written notice of award;
- b. Successful bidder posts a payment bond or other payment security, if and as required by the Invitation and Bid, within the time specified in the written notice of award;
- c. Approval of the Contract as to form by the City's Law Department;
- d. Certification by the Director of Finance and City Controller as to the availability of funds; and
- e. Execution of the Contract by the Procurement Commissioner.

The Procurement Commissioner may, in his/her sole discretion, cancel any Contract award if any of the above conditions (a-e) are not satisfied, or if the Procurement Commissioner, in his/her sole discretion, determines cancellation to be in the best interests of the City. The bidder agrees that in the event of such cancellation, it shall not have any claim against the City, including any claim for breach of contract or of any other legal duty, or for lost profits, costs, damages, or expenses of any kind.

14. PERFORMANCE SECURITY. The City of Philadelphia requires performance security for contracts greater than \$32,000. If the amount of the contract to be awarded is greater than \$32,000 but less than or equal to \$500,000, the successful bidder is required to participate in the City's Master Performance Security Program by paying to the City a non-refundable fee of \$5.00 per thousand dollars of the contract amount for firm limit contracts and \$4.00 per thousand dollars of the contract amount for requirements contracts, or as otherwise specified. If the amount of the contract to be awarded is in excess of \$500,000 the successful bidder is required to furnish an individual performance bond, issued by a surety approved by the City on a form prepared by the City's Law Department and in the amount specified in the notice of contract award. The successful bidder is also required to pay a bond preparation fee to the City's Law Department in an amount prescribed by Chapter 17-700 of The Philadelphia Code; a schedule of such fees may be obtained from the Procurement Department's Public Information Office.

15. INSURANCE. Unless otherwise specified, the successful bidder (referred to in this Section as "Contractor") shall, at its sole cost and expense, procure and maintain in full force and effect, during the entire period of the Contract (including any applicable

warranty and/or renewal periods), the minimum types of insurance specified below. All insurance shall be procured from reputable insurers authorized to do business in the Commonwealth of Pennsylvania and shall be acceptable to the City. All insurance required herein shall be written on an "occurrence" basis and not a "claims-made" basis. The City of Philadelphia, its officers, employees, and agents are to be named as additional insured on all policies required hereunder, except the Workers' Compensation and Employers' Liability. Also, an endorsement is required stating that the coverage afforded these parties as additional insured will be primary to any other coverage available to them. The City's coverage as an additional insured shall be primary coverage. The insurance shall provide for at least thirty (30) days prior written notice to be given to the City in the event coverage is materially changed, canceled or non-renewed. Certificates of insurance evidencing the required coverages shall be submitted to the City within fifteen (15) days of notice of contract award. The City reserves the right to require the Contractor to furnish certified copies of the original policies of all insurance required hereunder at any time upon fifteen (15) days prior written notice. The insurance requirements set forth herein are not intended and shall not be construed to modify, limit, or reduce the indemnifications made in this Contract by the Contractor to the City of to limit the Contractor's liability under this Contract to the limits of the policies of insurance required to be maintained by the Contractor hereunder.

(a) WORKERS COMPENSATION AND EMPLOYERS LIABILITY

- (1) Workers' Compensation - Statutory limits
- (2) Employers Liability - \$100,000 Each Accident - Bodily Injury by Accident; \$100,000 Each Employee - Bodily Injury by Disease; \$500,000 Policy Limit - Bodily Injury by Disease
- (3) Other states insurance including Pennsylvania

(b) GENERAL LIABILITY INSURANCE

- (1) Limit of Liability: \$1,000,000 per occurrence combined single limit for bodily injury (including death) and property damage liability.
- (2) Coverage: Premises operation: Blanket Contractual liability; Personal Injury liability; Products and completed operations; Independent Contractors; Employees as additional insured; Cross liability; Broad form property damage (including loss of use) liability; Asbestos abatement liability coverage (Note: Required for asbestos abatement projects only).

(c) AUTOMOBILE LIABILITY

- (1) Limit of Liability: \$1,000,000 per occurrence combined single limit for bodily injury (including death) and property damage liability.
- (2) Coverage: owned, non-owned and hired vehicles.

16. INDEMNIFICATION. All bidders shall indemnify, defend and hold harmless the City, its officers, employees and agents from and against any and all losses, costs (including, but not limited to, litigation and settlement costs and counsel fees), claims, suits, actions, damages, liabilities and expenses, occasioned wholly or in part by the bidder's act or omission or fault or negligence or the act or omission or fault or negligence of bidder's agents, subcontractors (including suppliers), employees or servants in connection with the Contract, including, but not limited to, those acts or

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

omissions or faults or negligence in connection with loss of life, bodily injury, personal injury, damage to property, contamination or adverse effects on the environment, the bidder's default under the Contract, losses incurred by the City's Master Performance Security Program, failure to pay subcontractors and suppliers and any infringement or violation of any proprietary right (including, but not limited to, patent, copyright, trademark, service mark and trade secret). This obligation to indemnify, defend and hold harmless the City, its officers, employees and agents shall survive the termination of the Contract resulting from the Invitation and Bid.

17. FAILURE TO EXECUTE CONTRACT. Any bidder not lawfully released from its bid, who refuses to execute a contract in accordance with its bid or who fails, refuses or is unable to furnish any required payment security, performance security or insurance, as may be required by the Invitation and Bid and/or these Terms and Conditions of Bidding and Contract, shall be liable for the entire amount of its bid security, as liquidated damages to the City; or if bid security is furnished under the Annual Master Bid Security Program, for 10% of the amount of its bid, as liquidated damages to the City; or where the damages are readily ascertainable by the City, for the actual loss, cost or damage incurred by the City as a result of its failure to execute the contract or to furnish such bonds, performance security or insurance.

18. ASSIGNMENT. The successful bidder shall not assign the Contract resulting from the Invitation and Bid, or any part of the Contract, or any right to any monies to be paid under the Contract, or delegate performance of the Contract, without obtaining the prior written consent of the Procurement Commissioner. The decision whether to consent to an assignment is within the Procurement Commissioner's sole discretion. In no case shall the Procurement Commissioner's consent to the assignment of any monies to be paid under the Contract relieve the bidder from faithful performance of any of its obligations under the Contract or change any of the terms and conditions of the Contract. Any purported assignment in violation of this provision shall be of no effect.

19. DEFAULT. All work performed and goods and services rendered by a successful bidder (referred to in this Section as "Contractor") under any Contract resulting from the Invitation and Bid shall strictly conform to these Terms and Conditions of Bidding and Contract and the specifications and requirements contained in the Invitation and Bid. The successful bidder shall comply with all applicable federal, state and local laws, statutes and ordinances and the regulations of all governmental departments, boards, agencies, and commissions. The following shall constitute events of default under any Contract resulting from the Invitation and Bid:

a. Failure by Contractor to comply with any provision or Section of the Contract, including the bid specifications contained in the Invitation and Bid and these Terms and Conditions of Bidding and Contract and/or failure by Contractor to comply with any federal, state and local law, statute, ordinance or regulation of

any governmental department, board, agency and commission.

b. Falseness of any representation or warranty made in the Contract or other document(s) submitted to the City by Contractor in connection with the Invitation and Bid.

c. Failure by Contractor to pay its suppliers or subContractors, misappropriation of any funds provided under the Contract or failure to notify City upon discovery of any misappropriation.

d. A violation of law by Contractor which results in its making a guilty plea, a plea of nolo contendere, or conviction of a criminal offense by Contractor, its directors, employees, or agent or indictment or charges, in the sole judgment of the Procurement Commissioner, adversely affect the performance of the Contract.

e. Failure by Contractor to comply with the Mayoral Executive Order establishing the City's antidiscrimination policy relating to the participation of minority, woman and disabled owned disadvantaged business enterprises.

f. The Procurement Department's determination that the Contractor is not a responsible bidder on the Invitation and Bid, where such determination is made, and is based upon, information received after award of the Contract and/or after execution of the Contract by the Procurement Commissioner and/or after satisfaction of any or all other conditions of a binding Contract set forth in Section 2 above.

g. Any other act or omission identified in these Terms and Conditions of Bidding and Contract or elsewhere in the Invitation and Bid as an event or condition constituting default.

Upon the occurrence of an event of default, the Procurement Commissioner, in his/her sole discretion, may require Contractor to cure the default within a period of time to be determined by the Procurement Commissioner, or terminate the Contract in whole or in part and exercise any one or more of the following remedies (which remedies may be concurrent and shall be in addition to and not in lieu of the remedies available to the City at law, in equity, under any bond(s) filed in connection with the contract or under other sections of these Terms and Conditions of Bidding and Contract and Contract):

a. Purchase goods and/or services from others in substitution of goods or services that were not furnished or performed by Contractor or that were defective or otherwise in violation of any provision of the Contract; the cost of such substituted goods and services shall be the sole responsibility of Contractor and Contractor agrees to pay immediately, upon receipt of the City's invoice, the difference between the Contract price and the substituted product or service cost, plus any other loss, cost or damages incurred by the City.

b. Appropriate to the payment of the difference between the Contract price and the cost of such substitute goods or services, and the amount of any other loss, cost or damage incurred by the City as a

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

result of the default, any monies which may then be due and payable to Contractor under this Contract or any other Contract that Contractor then has with the City.

The City shall notify Contractor in writing of such termination, which shall be effective as of the date specified in the notice of termination (the "Termination Date"). The Procurement Commissioner may, in his/her sole discretion, require Contractor to continue to furnish all goods and perform all services required under the Contract until the Termination Date, in which case, subject to the remedies enumerated above, the successful bidder shall be paid in accordance with the Contract therefore. If the City requires Contractor to cure the event(s) of default, or to continue to furnish goods or services until the Termination Date, and Contractor refuses or fails to do so, then such failure shall itself be deemed an event of default under this Section, for which the City may exercise any of its rights hereunder.

20. PAYMENT FOR EQUIPMENT. Unless otherwise provided in the bid specifications, when equipment involves installation, (which shall also be interpreted to mean erection and/or setting up or placing in position for service or use) and/or testing, and where such installation or testing is delayed though no fault of the contractor, contractor shall be entitled to a payment equal to 50% of the price bid when such equipment is delivered on site and to a further payment equal to an additional 25% of the price bid when the equipment is installed and ready for test. The balance shall be paid only after the equipment is tested and found to be satisfactory by the City. If the equipment must be tested, but installation is not required to be made by the supplier or if the equipment must be installed but testing is not required, and the installation or testing is delayed through no fault of the contractor, contractor shall be entitled to a payment equal to 75% of the price bid at the time of delivery and the balance shall be paid after satisfactory testing and/or installation, as required.

TAX MATTERS

21. TAX EXEMPTION. The City of Philadelphia is exempt from the payment of any federal excise or transportation taxes and any Pennsylvania sales tax. The price bid must be net, exclusive of taxes. However, when under established trade practice any federal excise tax is included in list prices, bidder may quote the list price and shall show separately the amount of the federal tax, either as a flat sum or as a percentage of the list price, which shall be deducted by the City. In the event bidder pays any sales or use tax, bidder hereby assigns to City, or City's agent, all of its rights, title and interest in any sales or use tax which may be refunded as a result of the purchase of any articles furnished in connection with the Contract and bidder, unless directed by the City, shall not file a claim for any sales or use tax refund subject to this assignment. Bidder authorizes the City, in City's name or the name of bidder, to file a claim for refund of any sales or use tax subject to this assignment.

22. TAX INDEBTEDNESS. The City of Philadelphia does not wish to do business with tax delinquents or other businesses indebted to the City. In furtherance of this policy, the following certifications have been

developed and shall form a part of any Contract resulting from the Invitation and Bid. The successful bidder or other entity Contracting with the City is referred to below as the "Contractor".

a. Contractor's Certification of Non-Indebtedness -- Contractor hereby certifies and represents that Contractor and Contractor's parent company(ies) and subsidiary(ies) are not currently indebted to the City of Philadelphia (the "City") and will not at any time during the term of this Contract (including any extensions or renewals thereof) be indebted to the City, for or on account of any delinquent taxes (including, but not limited to, taxes collected by the City on behalf of the School District), liens, judgments, fees or other debts for which no written agreement or payment plan satisfactory to the City has been established. In addition to any other rights or remedies available to the City at law or in equity, Contractor acknowledges that any breach or failure to conform to this certification may, at the option of the City, result in the withholding of payments otherwise due to Contractor and, if such breach or failure is not resolved to the City's satisfaction within a reasonable time frame specified by the City in writing, may result in the offset of any such indebtedness against said payments and/or the termination of this Contract for default (in which case Contractor shall be liable for all costs, losses and other damages resulting from the termination).

b. Subcontractor's Certification of Non-Indebtedness -- Contractor shall require all subcontractors performing work in connection with this Contract ("subcontractor" shall also include suppliers providing goods or materials) to be bound by the following provision, and Contractor shall cooperate fully with the City in exercising the rights and remedies described below or otherwise available at law or in equity:

"Subcontractor hereby certifies and represents that subcontractor and subcontractor's parent company(ies) and subsidiary(ies) are not currently indebted to the City of Philadelphia ("City"). and will not at any time during the term of Contractor's Contract with the City (the "Contract"), including any extensions or renewals thereof, be indebted to the City, for or on account of any delinquent taxes (including, but not limited to, taxes collected by the City on behalf of the School District of Philadelphia), liens, judgments, fees or other debts for which no written agreement or payment plan satisfactory to the City has been established. In addition to any other rights or remedies available at law or in equity, subcontractor acknowledges that any breach or failure to conform to this certification may, at the option of the City, result in the withholding of payments otherwise due to subcontractor for services rendered in connection with the Contract and, if such breach or failure is not resolved to the City's satisfaction within a reasonable time frame specified by the City in writing, may result in the offset of any such indebtedness against said payments otherwise due to subcontractor and/or the termination of subcontractor for default (in which case subcontractor shall be liable for all costs, losses and other damages resulting from the termination)."

23. TAX REQUIREMENTS. Any person or entity who

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

bids on and/or is awarded a contract by the City and/or School District of Philadelphia, is subject to Philadelphia's business tax ordinances and regulations. The City Solicitor has determined that anyone who is awarded a contract by the City and/or School District pursuant to a bid has entered into a contract within the City, and the subsequent delivery of goods into the City or performance of services within the City constitutes doing business in the City and subjects the successful bidder, including but not limited to, one or more of the following taxes:

- a. Business Income and Receipts Tax
- b. Net Profits Tax
- c. City Wage Tax

The successful bidder, if not already paying the aforesaid taxes, is required to apply to the Department of Revenue, 1401 John F. Kennedy Blvd., Public Service Concourse, Municipal Services Building, Philadelphia, PA 19102 for a tax identification number and to file appropriate business tax returns as provided by law. Questions should be directed to the Business and Earnings Tax Unit at (215) 686-6600.

GENERAL INFORMATION

24. COMPLIANCE WITH LAWS. All goods and services and all documents and other materials furnished under the Contract shall conform with all applicable federal, state and local laws, statutes and ordinances and the applicable rules, regulations, methods and procedures of all governmental boards, bureaus, offices, commissions and other agencies. Contractor shall maintain during the term of the Contract all licenses, and authorizations required by any applicable federal, state or local law or regulation. **Applicable law shall include, without limitation, the laws stated in paragraphs 25 through 31 herein.**

25. NONDISCRIMINATION.

a. Any Contract awarded pursuant to the Invitation and Bid is entered into under the terms of the Philadelphia Home Rule Charter and in its performance, Contractor shall not discriminate nor permit discrimination against any person because of race, color, religion, national origin, or sex. Such discrimination shall constitute an event of default under this Contract entitling City to terminate this Contract forthwith. This right of termination shall be in addition to any other rights or remedies as provided herein in Section 19 or otherwise available to the City at law or in equity.

b. In accordance with Chapter 17-400 of The Philadelphia Code, Contractor agrees that its payment or reimbursement of membership fees or other expenses associated with participation by its employees in an exclusionary private organization, insofar as such participation confers an employment advantage or constitutes or results in discrimination with regard to hiring, tenure of employment, promotions, terms, privileges or conditions of employment, on the basis of race, color, sex, sexual orientation, gender identity, religion, national origin or ancestry, shall constitute an event of default under this Contract and shall entitle the City to all rights and remedies as provided herein in Section 19 or otherwise

available to the City at law or in equity. Contractor agrees to include the immediately preceding sentence, with appropriate adjustments for the identity of the parties, in all subcontracts which are entered into pursuant to this Contract. Contractor further agrees to cooperate with the Commission on Human Relations of the City of Philadelphia in any manner which the said Commission deems reasonable and necessary for the Commission to carry out its responsibilities under Chapter 17-400 of The Philadelphia Code. Failure to so cooperate shall constitute an event of default under this Contract entitling the City to all rights and remedies as provided herein in Section 19 or otherwise available to the City at law or in equity.

26. ETHICS REQUIREMENTS. To preserve the integrity of City employees and maintain public confidence in the competitive bidding system, the City intends to vigorously enforce the various ethics laws as they relate to City employees in the bidding and execution of City contracts. Such laws are in three categories:

a. Gifts. Executive Order No. 02-04 prohibits City employees from soliciting or accepting anything of value from any person or entity seeking to initiate or maintain a business relationship with the City of Philadelphia, its departments, boards, commissions, and agencies. Bidder understands and agrees that if it offers anything of value to a City official or employee under circumstances where the receipt of such item would violate the provisions of this Executive Order shall be subject to sanctions with respect to future City Contracts. Such sanctions may range from disqualification from participation in a particular Contract to debarment, depending on the nature of the violation. All bidders, agents or intermediaries who are solicited for gifts or gratuities by City employees are urged to report these incidents to the Inspector General, Aramark Tower, Third Floor, 1101 Market Street, Philadelphia, PA 19107.

b. City Employee Interest in City Contracts. In accordance with Section 10-1112 of The Philadelphia Home Rule Charter, no bid shall be accepted from, or Contract awarded to, any City employee or official, or any firm in which a City employee or official has a direct or indirect financial interest. All bidders are required to disclose any current City employees or officials who are employees or officials of the bidder's firm, or who otherwise would have a financial interest in the Contract.

c. Conflict of Interest. Both the State Ethics Act and the City Ethics Code prohibit a public employee from using his/her public office or any confidential information gained thereby to obtain financial gain for himself/herself a member of his/her immediate family, or a business with which he/she or a member of his/her immediate family is associated. "Use of public office" is avoided by the employee or official publicly disclosing the conflict and disqualifying himself/herself from official action in the matter, as provided in The Philadelphia Code Section 20-608.

27. NORTHERN IRELAND. Section 17-104(2)(b) of The Philadelphia Code prohibits the City from accepting bids from companies that do business in Northern

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

Ireland, unless that business has implemented the fair employment principles embodied in the MacBride Principles. In furtherance of this ordinance, bidder makes the following certification and representations:

a. In accordance with Section 17-104 of the Philadelphia Code, bidder by execution of its bid certifies and represents that (i) bidder (including any parent company, subsidiary, exclusive distributor, or company affiliated with Bidder) does not have, and will not have at any time during the term of any Contract resulting from this bid (including any extensions thereof), any investments, licenses, franchises, management agreements or operations in Northern Ireland, and (ii) no product to be provided to the City under any resulting Contract will originate in Northern Ireland, unless Bidder has implemented the fair employment principles embodied in the MacBride Principles.

b. In the performance of any Contract resulting from this bid, Bidder agrees that it will not utilize any suppliers or subcontractors at any tier (i) who have (or whose parent subsidiary, exclusive distributor or company affiliate have) any investments, licenses, franchises, management agreements or operations in Northern Ireland or (ii) who will provide products originating in Northern Ireland unless said supplier or subcontractor has implemented the fair employment principles embodied in the MacBride Principles. Bidder further agrees to include provisions with this subparagraph (b), with appropriate adjustments for the identity of the parties, in all subcontracts and supply agreements which are entered into in connection with the performance of any resulting Contract.

c. Bidder agrees to cooperate with the City's Director of Finance in any manner which the said Director deems reasonable and necessary to carry out the Director's responsibilities under Section 17-104 of The Philadelphia Code. Bidder expressly understands and agrees that any false certification or representation in connection with this subparagraph (c) and/or any failure to comply with the provisions of this subparagraph (c) shall constitute a substantial breach of any Contract resulting from the Invitation and Bid entitling the City to all rights and remedies provided in this bid or otherwise available in law (including, but not limited to, Section 17-104 of the Philadelphia Code) or at equity. In addition, it is understood that false certification or representation is subject to prosecution under IS Pa.C.S. Section 4904.

28. BUSINESS, CORPORATE AND SLAVERY ERA INSURANCE DISCLOSURE. In accordance with Section 17-104 of The Philadelphia Code, the successful bidder, after award of the Contract, will complete an affidavit certifying and representing that the bidder (including any parent company, subsidiary, exclusive distributor or company affiliated with bidder) has searched any and all records of the bidder or any predecessor business entity regarding records of investments or profits from slavery or slaveholder insurance policies during the slavery era. The names of any slaves or slaveholders described in those records must be disclosed in the affidavit.

The bidder expressly understands and agrees that any false certification or representation in connection with

this Paragraph and/or any failure to comply with the provisions of this Paragraph shall constitute a substantial breach of this Contract entitling the City to all rights and remedies provided in this Contract or otherwise available in law (including, but not limited to, Section 17-104 of The Philadelphia Code) or equity and the Contract will be deemed voidable. In addition, it is understood that false certification or representation is subject to prosecution under Title 18 Pa.C.S.A. Section 4904.

29. PHILADELPHIA 21ST CENTURY MINIMUM WAGE STANDARD. If Contractor is an Employer, as defined in Philadelphia Code Section 17-1302(5) and 17-1303, Contractor shall comply with the minimum compensation standards by providing to those employees an hourly wage, excluding benefits, at least 150 percent of the federal minimum wage, and health benefits to each full-time, non-temporary, non-seasonal covered Employee, as more fully set forth at Philadelphia Code Chapter 17-1300. By submission of its Bid, Contractor so acknowledges and certifies its compliance with Chapter 17-1300 and shall promptly provide to the City, at its request, all documents and information further verifying its compliance with the requirements of this Chapter. Furthermore, Contractor shall notify each affected employee what wages are required to be paid.

The Managing Director's Office (MDO) may grant a partial or total waiver of Chapter 17-1300 based on specific stipulated reasons elaborated in Section 17-1304.

30. PROTECTION OF DISPLACED CONTRACT WORKERS. If this bid is for the furnishing of the following services, Security, Janitorial, Building Maintenance, Food and Beverage, Hotel or Non-Professional Health Care Services, then this bid is subject to the "Protection of Displaced Contract Workers" Law, Chapter 9-2300 of the Philadelphia Code. The successful Bidder, if it is a Successor Contractor is required, among other things, to retain certain service employees of the Predecessor Contractor for a ninety day period.

31. EQUAL BENEFITS. If this is a Service Contract, as defined in Philadelphia Code Section 17-1901(4), for an amount in excess of \$250,000, Contractor shall, for employees providing services under the Service Contract who reside in the City or employees who are non-residents subject to City wage tax under Philadelphia Code Section 19-502(b), extend the same employment benefits the Contractor extends to spouses of its employees to life partners of such employees. By submission of its Bid, Contractor so acknowledges and certifies its compliance with Chapter 17-1900 of the Philadelphia Code and shall notify its employees of the employment benefits available to life partners pursuant to Chapter 17-1900. Following the award of a contract subject to Chapter 17-1900 and prior to execution of the contract by the City, Contractor shall certify that its employees have received the required notification of the employment benefits available to life partners and that such employment benefits will actually be available, or that the Contractor does not provide

TERMS AND CONDITIONS OF BIDDING AND CONTRACT

employment benefits to the spouses of married employees.

Contractor's failure to comply with the provisions of Chapter 17-1900 or any discrimination or retaliation by the Contractor against any employee on account of having claimed a violation of Chapter 17-1900 shall be a material breach the Service Contract.

TERMS AND CONDITIONS OF BIDDING AND CONTRACT
SIGNING OF BIDS

This contract consists of the Invitation and Bid (including exhibits and attachments), any addenda thereto issued by the City and the foregoing Terms and Conditions of Bidding and Contract (collectively, the "contract") and contains all the terms, conditions and requirements agreed upon by the parties. The terms "contract" and "agreement," whether capitalized or uncapitalized, shall have the foregoing meaning wherever they are used in the invitation and Bid, addenda thereto, the Terms and Conditions of Bidding and Contract, and this page. No other contract or agreement, oral or otherwise, regarding the subject matter of the contract shall be deemed to exist or to bind any party hereto or to vary any of the terms contained in the contract.

This contract may not be changed, amended or renewed, in whole or in part, except by a written amendment signed by the parties. No waiver by the City of any breach or noncompliance by the undersigned with any provision of this contract shall relieve the undersigned of any of its obligations or representations made under this contract.

This contract and all disputes arising under this contract shall be governed, construed and decided in accordance with the laws of the Commonwealth of Pennsylvania. The parties agree that any lawsuit, action, claim or legal proceeding involving, directly or indirectly, any matter arising out of or related to this contract or the relationship created or evidenced thereby, shall be brought exclusively in the United States District Court for the Eastern District of Pennsylvania or the Court of Common Pleas of Philadelphia County. It is the express intent of the parties that jurisdiction over any lawsuit, action, claim, or legal proceeding shall lie exclusively in either of these two forums. The parties further agree not to raise any objection to any lawsuit, action, claim or legal proceeding which is brought in either of these two forums and the parties expressly consent to the jurisdiction and venue of these two forums. The parties further agree that service of original process in any such lawsuit, action, claim or legal proceeding may be duly affected by mailing a copy thereof, by certified mail, postage prepaid to the addresses specified in the Invitation and Bid and/or this page.

NOTE: ANY BID THAT IS NOT EXECUTED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BELOW OR THAT DOES NOT INCLUDE STREET ADDRESS, CITY, STATE AND PHONE NUMBER, MAY, IN THE SOLE DISCRETION OF THE PROCUREMENT COMMISSIONER, BE REJECTED.

SIGNING OF BIDS:

If bid is by an INDIVIDUAL or a PARTNERSHIP, or if the bid does not exceed \$32,000, date and sign the bid here, with the original signatures, in ink.

This _____ day of _____ 20

(Signature of Owner, Partner)

(Type or Print Name and Title)

(Business Name of Bidder)

(Address, including Zip Code)

(Telephone Number, including Area Code)

If the bid is a CORPORATION, date and sign the bid here with original signatures, in ink, by (a) President or Vice President of the Corporation AND (b) Secretary, Assistant Secretary, Treasurer or Assistant Treasurer of the Corporation; and (c) affix the seal of the Corporation. If the form is not signed by the President or a Vice President and Secretary, Assistant Secretary, Treasurer or Assistant Treasurer, attach a duly certified corporate resolution authorizing the person signing in place of such officers to execute this bid for the corporation.

This _____ day of _____ 20

CORPORATE SEAL

(Corporate or Business Name of Bidder)

(Address, including Zip Code)

(Telephone Number, including Area Code)

(Signature of President or Vice President)

(Signature of Secy., Asst. Secy., Treas. or Asst. Treas.)

(Type or Print Name and Title)

(Type or Print Name and Title)

APPROVED AS TO FORM

CONTRACT EXECUTION

(Assistant City Solicitor)

(Procurement Commissioner)