

CITY OF MORGANTOWN

BID CALL 2013-04

MORGANTOWN FIRE DEPARTMENT

FIRE ENGINE APPARATUS

**BID OPENING:
FRIDAY, DECEMBER 14, 2012
10:00AM**

PREPARED BY:

**THE CITY OF MORGANTOWN
FINANCE DEPARTMENT
389 SPRUCE STREET
MORGANTOWN, WV 26505**

ADVERTISEMENT FOR BIDS

CITY OF MORGANTOWN

BID CALL 2013-04

**MORGANTOWN FIRE DEPARTMENT
FIRE ENGINE APPARATUS**

Separate, sealed bids will be received by the Finance Director of the City of Morgantown, West Virginia, until 10:00 a.m. Monday, December 10, 2012 at which time all sealed bids received will be publicly opened and read aloud. In accordance with the specifications on file with the Finance Department, City Hall, 389 Spruce Street, Morgantown, West Virginia, 26505.

Bid packets may be picked up at the Finance Department at the above address or may be obtained by calling (304) 284-7419.

All bids shall be clearly marked "Sealed Bid 2013-04." Each bidder shall submit a five-percent (5%) bid bond, certified check or postal money order. No bidder may withdraw their bid after the time set for the opening thereof, unless the award of the contract is delayed for a period exceeding forty-five (45) days.

The City reserves the right to reject any or all bids and to waive irregularities or informalities in the bid or in the bidding.

Terrence Moore
City Manager

Publish: Thursday, November 1, 2012 and
Friday November 2, 2012

INSTRUCTIONS TO BIDDERS

Sealed bids will be accepted by the Finance Director, City of Morgantown, 389 Spruce Street, Morgantown, West Virginia, 26505, for the furnishing of:

MORGANTOWN FIRE DEPARTMENT

FIRE ENGINE APPARATUS

As outlined in the bid specifications contained herein. Bids to be quoted FOB Morgantown, West Virginia. All bids should be clearly marked "Sealed Bid 2013-04." Bids must be received by the Finance Director by 10:00 a.m., Friday, December 14, 2012.

The City Council reserves the right to reject any or all bids or accept any presented which they may deem to be in the best interest of the City and not necessarily be bound to accept the low bid.

Bidders must furnish with the proposals a true statement covering length of guarantee on all items.

Each bid shall be submitted on the "Specifications for bid" sheet provided herein and shall provide a price for all items listed. No partial bids will be accepted.

Minor details of construction and materials where not otherwise specified are left to the discretion of the vendor who shall be solely responsible for the design and construction of all features.

All exceptions to the specifications shall be listed on a separate sheet and headed "Exceptions to the Specifications". Any bid submitted without exceptions will be required to meet every detail of the specifications, regardless of cost to the bidder.

Bidders will be notified of award within thirty (30) days after bid opening.

Each bidder shall submit a five percent (5%) bid bond, certified check, or postal money order for each or all section(s) bid.

Bidders must use the forms provided for the bid amounts included in the specifications.

INFORMATION TO BIDDERS

A. WITHDRAWAL OF PROPOSAL

No bidder may withdraw this bid after the hour set for the opening thereof or before the award of contract, unless said award is delayed for a period exceeding forty-five (45) days.

B. BID MODIFICATIONS

Any bidder may modify his bid by facsimile or electronic communication at any time prior to the scheduled closing time for receipt of bids, provided such communications is received by Owner prior to closing time and, provided further, the Owner is satisfied that a written confirmation of the modifications over the signature of the bidder was mailed prior to the closing time. The facsimile or electronic communication should not reveal the bid price, but should provide the addition or subtraction of other modification so that the final prices or terms will not be known by the owner until the sealed bid is opened. If written confirmation is not received within two (2) days from the closing time, no consideration will be given to the modifications.

C. BIDDER QUALIFICATION

Bidders must, upon request, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. The City will make the final determination as to the bidder's ability.

D. METHOD OF AWARD

The award of the contract, if made, will be made to the Bidder in the best interest of the City.

E. POWER OF ATTORNEY

Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney

F. COMPLIANCE REQUIREMENTS AND PROCEDURES

All bidders must complete and submit with their bid the following certification form contained in the proposal. Non-Collusion Affidavit must be signed by the bidder and subscribed and sworn to before a notary public. Failure to complete the aforementioned Non-Collusion Affidavit and to submit said form with the bid shall be due cause for rejection of bid.

BIDDERS CHECKLIST

The bidder's attention is especially called to the following forms which must be executed in full as required:

Please execute the forms that are marked by an X.

X A. BID SHEET

The unit prices must be shown in the space provided. Show unit prices in figures, either typed or in ink.

X B. BID SHEET SIGNATURE

To be filled in and signed by the bidder

X C. NON-COLLUSION AFFIDAVIT

This form is to be completed and signed by the Vendor and notarized.

X D. BOND ACCOMPANY BID

This form is to be executed by the Bidder and the surety company Unless bid is accompanied by a certified check or postal money Order. The amount of this bond shall not be less than five-percent (5%) of the total amount bid and may be shown in dollars or on a percentage basis.

THE FOLLOWING FORMS ARE TO BE EXECUTED AFTER THE CONTRACT IS AWARDED:

X E. CONTRACT

This agreement to be executed by the successful bidder.

F. PERFORMANCE BOND

To be executed by the successful bidder and his surety company.

BID SHEET

The bidder agrees to provide the service(s) described in the Specifications for the following:

**MORGANTOWN FIRE DEPARTMENT
FIRE ENGINE APPARATUS**

FIRE ENGINE APPARATUS AS OUTLINED IN THE ATTACHED BID SPECIFICATIONS:

PRICE EACH \$ _____
TOTAL PRICE \$ _____

I hereby certify that the above described FIRE ENGINE APPARATUS meets or exceeds all specifications of Bid Call 2013-04, City of Morgantown, West Virginia.

SIGNED: _____
(Authorized Representative)

COMPANY:

ADDRESS:

PHONE:

(5) The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives owners, employees, or parties in interest, including this affiant.

Signed

Title

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

Notary Public

My Commission Expires _____

CONTRACT AGREEMENT

MORGANTOWN FIRE DEPARTMENT FIRE ENGINE APPARATUS BID CALL NUMBER 2013-04

This Agreement is made and entered into on the ____ day of _____, 20____, by and between the CITY OF MORGANTOWN, hereinafter referred to as the "City" and _____, hereinafter referred to as "Vendor".

WITNESSETH

1. SCOPE OF WORK

The Vendor agrees to furnish FIRE ENGINE APPARATUS (as outlined in the bid specifications) in the manner and form provided in the Contract Documents made a part hereof, entitled: Bid Call 2013-04.

2. DELIVERY

The Vendor shall arrange with the City to deliver the as soon as is practicable after the execution of this agreement.

3. PAYMENT

The City agrees to pay the Vendor for the FIRE ENGINE APPARATUS in the sum of \$ _____. Payment shall be made by the City of Morgantown within forty-five (45) days for amounts delivered after receipt of invoices, and upon subsequent acceptance of such approval of invoices.

4. GUARANTEE

The Vendor guarantees the same material against all defects in workmanship and materials in design.

IN WITNESS WHEREOF, the parties hereto have executed the Contract under their several seals on the day and year first written, the name and corporate seal of each corporate party being hereto affixed and these presents being duly executed in two counterparts by the proper officers of each thereunto duly authorized, each of which counterparts shall, without proof of accounting for the other counterparts, be deemed an original contract.

CITY OF MORGANTOWN

VENDOR

City Manager

Company Representative.

ATTEST:

Linda Little, City Clerk

Approved as to form:

City Attorney

FIRE APPARATUS BID SPECIFICATIONS

October 2012

The City of Morgantown (City) for the Morgantown Fire Department (M.F.D.) is accepting bids for the following piece of automotive fire apparatus: one fire engine vehicle.

FIRE ENGINE APPARATUS:

Vehicle Description. One 1500 gpm fire engine on a custom fire apparatus, full tilt cab with an eight (8) inch raised roof with chassis. **DEVIATION YES / NO**
The cab is to have seating for four (4) personnel. The cab shall be no longer than one hundred and twenty four (124) inches from the cab face to the rear of the cab and shall not exceed ninety-six (96) inches in width. The compartment body shall be a rescue style with roll up compartment doors. The vehicles paint scheme shall be black cab roof over red. The overall vehicle height shall not exceed 11' - 0". The approach and departure angle shall be at least ten (10) degrees or greater. The vehicle engine shall be located cab forward. The apparatus shall meet all the requirements of current NFPA 1901 in all respects for use as a fire engine pumper truck. The bid price must remain valid for a period of sixty (60) days from the date of bid opening. Two (2) complete sets of the bid documentation shall be supplied, one (1) marked "original" and one (1) marked "copy". An electronic copy shall also be provided on USB drive or CD ROM in Microsoft word format. It is the intent of this specification to describe the essential minimum requirements for construction and performance of the apparatus and associated equipment. Items not described in this specification for construction or performance, or in NFPA 1901 current edition, may be accepted as the standard of the bidder, who shall be solely responsible for the design, construction and performance of the apparatus and equipment. The apparatus shall comply with all federal, state, I.C.C., and D.O.T. regulations, standards and laws relating to commercial vehicles as well as to fire apparatus. The apparatus shall be able to pass a state motor vehicle inspection for commercial vehicles.

Any error, omission, or inconsistency that is identified by the bidder shall be listed as such in the exceptions, and a proposal to meet the intent of the specifications shall be listed.

Apparatus Lettering

DEVIATION YES / NO

The driver's and officer's cab doors shall have gold leaf type lettering "MORGANTOWN FIRE DEPT." in four (4) inch letters. The rear cab doors shall have the MFD logo (12) in gold leaf. Above the grill below the windshield shall have "Morgantown" in gold leaf. "Montani Semper Liberi" shall be in gold leaf above the windshield. The rear compartments (officers side, drivers side and back) shall have "E-3" respectfully in twelve (12) inch red reflective letters. Reflective striping on red painted areas shall be black in color. MFD to approve final lettering layout.

OPTIONAL EQUIPMENT LISTING:

All items listed in the specifications are to be considered mandatory except items that are identified as optional, of which the M.F.D. may choose to include. Any bidder on this apparatus must agree to price and perform all work, and furnish all equipment listed.

Road Performance.

The vehicle when fully equipped and loaded shall be capable of the following while on dry paved roads that are in good condition:

From a standing start, the apparatus shall be able to attain a speed of 35 mph within 25 seconds on a level road. The apparatus shall be able to attain a minimum top speed of 50 mph on a level road. The apparatus shall be able to maintain a speed of at least 25 mph on an uphill twelve (12) percent grade. An engine performance scan shall be included with the completed bid package.

Delivery of Vehicle:

DEVIATION YES / NO

The completed vehicle shall be delivered to the City of Morgantown Fire Department Station 3 at 1000 Van Voorhis Road, Morgantown, West Virginia under the vehicles own power.

The bidder shall be responsible for delivery and full instruction of the vehicle to the M.F.D. personnel and fleet maintenance personnel for one day determined by the M.F.D. The training will cover operation, care and maintenance of the apparatus and on board components. The bidder agrees to allow the M.F.D. to videotape the instructional presentation for future reference and training.

The apparatus shall be delivered within 300 calendar days after the bid has been awarded and the contract signed. The bidder shall submit a firm delivery time (number of calendar days from date of order to date of delivery) of said apparatus with their bid. Quoting the number of days after receipt of all components is not acceptable.

A deduction of \$200.00 per day may be made for each day over and above the quoted delivery date. The liquidated damages for delay will also apply if the unit is delivered and rejected until the unit is returned, meeting the specifications. The M.F.D. may make an allowance for a reasonable delay if the manufacturer requests a delay and provides the reasoning.

The bidder shall set the exact delivery date and training dates schedule with the M.F.D.

Acceptance of Vehicle

DEVIATION YES / NO

The City of Morgantown reserves the right to reject the delivered vehicle if after delivery it is discovered that the vehicle does not meet contract specifications. The M.F.D. shall have ten (10) calendar days to inspect the vehicle for compliance and completeness with the contract. The ten days begin the day immediately following the delivery day.

Acceptance of the delivered apparatus and equipment will be made at completion of all required tests inspections and receipt of all specified equipment. Equipment items not delivered at the time of the tests, or construction not in conformance with the contract will be cause for final payment to be withheld until delivery is complete and acceptable.

The finished apparatus will be inspected upon delivery for compliance with the contract specifications, change orders and previously authorized exceptions. Deviations will not be tolerate d and will be cause for rejection of apparatus unless they were originally listed in the bidder's proposal or previously approved. Liquidated damages ill the amount of \$200.00 per day, beginning the day after the declared delivery date, shall be deducted [r m the final payment until the apparatus is considered acceptable. If it is found that the vehicle does not meet the contract requirements, the City will notify the manufacturer's sales representative in writing that the vehicle does not meet the contract requirements and that the vehicle is being refused. The notification shall list specific contract deviations that have been discovered.

The M.F.D. will make pick up arrangements for the refused vehicle with the sales representative.

Depending on the amount or seriousness of the contract violations, the manufacturer may be given 30 days to correct the violations and allow the M.F.D. to re-inspect the corrected vehicle for possible acceptance. If after 30 days, the apparatus is not brought up to compliance, the bidder may be considered in default of the contract, and the procedures to institute the provisions of the performance bond may begin.

The City will notify the manufacturer in writing that the vehicle has been inspected and that it is being accepted. This notification will be delivered to the manufactures sales representative.

Once the vehicle has been accepted and placed in service by the M.F.D, any vehicle problems that affect the operation or performance including faulty design, quality of materials or workmanship of the vehicle shall be submitted to the manufacturer for correction or repair under the vehicles warranty.

Body Construction

DEVIATION YES / NO

It is the intent of the M.F.D. to accept an apparatus of aluminum cab and body construction. The body shall be extruded aluminum using 3/16" flat sheet metal in thickness. A full description including grade, thickness, and tensile strength of the proposed material for body construction shall be included in the bid. A full description including grade, thickness, and tensile strength of the frame rails shall be included in the bid.

Cab Construction

The cab shall be a new, first line fire apparatus custom, full tilt type, heavy duty aluminum. Seating for four (4) shall be provided. The cab shall be built expressly for the fire service. All standard components that have not been specified shall be provided. The bidder shall identify in their bid package the cab model. No composite or fiberglass plastic fascia components shall be utilized. A full description including grade, thickness, and tensile strength of the proposed material for cab construction shall be included in the bid. The cab shall be designed and so attached to the vehicle as to eliminate, to the greatest possible extent, the risk of injury to the occupants in the event of an accident. The cab shall be tested to specific load and impact tests with regard to the protection of occupants of a commercial vehicle. A test shall be conducted to evaluate the frontal impact strength of the apparatus cab to conform to the test 12420 and the "United Nations Regulation 29, Annex 3, paragraph 4, (Test A)". A second test shall be conducted to evaluate the roof strength of the apparatus cab to conform to the Society of Automotive Engineers (SAE) SAE 12422/SAE 12420 and the "United Nations Regulation 29, Annex 3, paragraph 5, (Test B)" and SAE 12420. The evaluation shall consist of the requirements imposed by ECE Regulation 29, paragraph 5. The test shall be conducted by a certified independent third party testing institution. A letter stating successful completion of the above test on the brand of cab being supplied shall be included in the bid package. There shall be no exception to this requirement.

Single Manufacturer

DEVIATION YES / NO

The apparatus cab, body and chassis are to be manufactured by one builder, or separate divisions of one manufacturer, to ensure compatibility, serviceability, and to eliminate divided responsibilities. The use of subcontractors for the manufacturing of the cab body or chassis other than component parts may be considered, however, the manufacturer shall assume all responsibility for subcontractors used in regards to maintenance, warranties etc.

Brand Names

Whenever a brand name or manufacturer's name is utilized in these specifications, it is included for descriptive purposes and to establish a level of quality. Products that are equivalent to those names may be, providing that full supporting documentation is furnished establishing such equivalency. Simply providing manufacturer's literature will not be considered justification for the substitution. All substitutions must be listed as deviations for evaluation. The M.F.D. shall be the sole judge if the substitution is acceptable as an equivalent.

Deviations.

Any exception or variation in construction, performance, test or items of equipment between the purchaser's specifications and the bidder's proposal shall be detailed on sheets provided along with the bidder's proposal, in bid sequence, and citing page and paragraph number. A copy of this bid package is to be returned along with all other bid documentation. Pages are to be marked on this document to indicate YES or NO, if a deviation has been taken on each page, to these specifications.

Bidder must explain in detail, and with full supporting data, how the proposed deviation meets or exceeds specifications and why it's necessary. The purchaser reserves the right to determine which (if any) deviations are acceptable.

The purchaser's specifications shall, in all cases, govern the construction of the apparatus, unless a properly documented exception or deviation was approved. **ANY BID INDICATING THAT THE MANUFACTURER'S PROPOSAL SHALL SUPERSEDE THE PURCHASER'S SPECIFICATION SHALL BE CONSIDERED A COMPLETE SUBSTITUTE SPECIFICATION AND IMMEDIATELY DISQUALIFIED.**

Prototype Apparatus

No prototype or experimental apparatus will be accepted. The manufacturer must demonstrate that it has successfully produced and sold apparatus, of the same design and of the same material in the past two years.

Total exception to bid specifications will be cause for immediate rejection.

Manufacturer's Reliability

DEVIATION YES / NO

The manufacturer must be satisfactory to the M.F.D. from the standpoint of experience, reliability, and demonstrated ability to manufacture apparatus, comparable as to the size and type as specified for the past five (5) five years. A list of fire departments located in the same region (West Virginia, Pennsylvania, Ohio, etc.) that have purchased the same type of apparatus from the bidder over the past five years must be supplied with the bid for physical evaluation.

Rejection of Bids

The City of Morgantown and the M.F.D. reserves the right to reject any and all bids received and accept any bid which, in its judgment, best serves the interest of the community.

Manufacturer's Solvency

DEVIATION YES / NO

The solvency of the manufacturer is a prime concern to the City and the M.F.D. Each bid submitted shall include a financial statement from Dun & Bradstreet or other nationally recognized accounting firm.

Factory Authorized Service Facility

In order to maintain this complex piece of fire apparatus the experience and reliability of the factory authorized service center is of major concern to the M.F.D. The service facility must comply with the following criteria in order to be considered. The facility shall have a minimum of five (5) years experience repairing and maintaining fire apparatus of the make and type of apparatus being bid. The facility must be within 250 miles of the fire station located at 1000 Van Voorhis Road in Morgantown. An adequate indoor heated facility and a minimum of one (1) factory trained technicians to perform repairs, including power train, chassis, pumps, generator and controls shall be provided. At least one (1) fully equipped mobile shop van must be available at the service center location for warranty work at the M.F.D. All bids shall include the location of the service center.

Replacement Parts

DEVIATION YES / NO

The bidder must ensure that a stock of routine repair parts is maintained at the service center location. The M.F.D. reserves the right to reject any bid that cannot produce satisfactory evidence that this inventory is available and that parts can be furnished promptly if needed for service or repair of all equipment herein specified. The M.F.D. reserves the right to visit the facility for the purpose of evaluation and reject any bid that, in its sole opinion, does not comply with these provisions.

An assortment of nuts, bolts and other fasteners used in the manufacturing of the apparatus shall be provided.

Pre-Delivery Service

DEVIATION YES / NO

After transportation from the factory and immediately prior to delivery, the apparatus shall receive a pre-delivery service consisting of engine oil and filter change, chassis lubrication, fuel filter(s) changed, adjustment of engine to manufacturer's specifications, complete inspection including all electrical and mechanical devices for proper operation and correction of leaks or obvious problems. If the location of the manufacturer is 350 miles or less, the service shall be performed at six (6) months after the delivery date.

Construction/inspection Trips

DEVIATION YES / NO

1. Preconstruction conference. The conference will be held at the manufacturing facility and will be held over a three (3) day period. The first day is to include transportation to the factory and allow for a brief examination of apparatus under various stages of construction. The entire second day shall be devoted to the pre-construction meeting. The third day will allow for the completing of loose details and return travel.

2. Final Inspection. This will be for the final inspection of the apparatus before delivery of the unit. The final inspection is not to be confused with the inspection of the apparatus for acceptance . This inspection shall be held over a three (3) day period. This inspection shall include a pumping demonstration which shall be held first thing on the second day. Additionally, a foam system test/demonstration shall be given if applicable. A road test shall be conducted in which the vehicle shall be operated by a M.F.D. driver with a current CDL or else by a factory representative.

Inspection trip costs; transportation, lodging and meals shall be included in the bid price. The apparatus manufacturer shall make all arrangements as the manufacturer is familiar with flight details and hotels in the area and will have firsthand knowledge of the necessary scheduling. The manufacturer should plan on four (4) M.F.D. personnel to attend all inspection trips. The apparatus must be in finished condition and ready for shipment (except for the mounting of loose equipment) when the final inspection is scheduled. Placement of equipment will be completed at the final inspection. A road performance test as specified by the NFPA shall be performed during the final inspection. The M.F.D. will be permitted to make as many trips to the manufacturer's facility to view and inspect the apparatus being constructed as the M.F.D. wishes. The scheduling of the trips will be with the sales representative. The costs for all trips in excess of the indicated two shall be the responsibility of the M.F.D.

Equipment Mounting

DEVIATION YES / NO

All equipment supplied with the apparatus shall be mounted by the manufacturer at the factory or at a warranty facility, as per the M.F.D. instructions. Loose equipment shall be supplied with brackets or custom fitted into mountings.

Special Requirements

DEVIATION YES / NO

The overall size and weight of the finished apparatus is critical to the M.F.D. The bidder shall include in the bid package specifications including all compartment sizes, overall length, width, height, wheelbase, curb-to-curb and wall to wall turning radius, cramp angle, angle of approach, angle of departure, individual axle loads and fully loaded weight of the apparatus. Apparatus weight distribution shall not load the vehicle in such a manner as to exceed any individual axle rating, spring or spring hanger rating, or tire and wheel rating. Axles are to carry weight distribution as per S.A.E. axle-loading recommendations. Certified weight ratings are to be furnished with the apparatus as to front, rear, right and left side loaded curb weight.

Contingency

DEVIATION YES / NO

All bidders shall incorporate a \$10,000.00 contingency fund into the price of the apparatus. The fund is to be used "as needed" by the M.F.D. relative to making custom modifications of equipment or components. A full accounting of the fund shall be provided to the M.F.D . with any remaining funds deducted from the final invoice.

Approval Drawings

DEVIATION YES / NO

The successful bidder shall provide drawings and blueprints with all details thereon after the preconstruction conference and before the apparatus construction begins. The engineering drawing must be to scale and representative of the bid unit after the preconstruction conference clarifications are incorporated. Views of both sides as well as the front, rear,

Extended Warranty

DEVIATION YES / NO

The bidder shall price, as an option, an extended vehicle warranty. The extended warranty shall be for a period of two (2) additional years. Consumable items such as tires, batteries, hoses, belts, bulbs, and wiper blades will be the responsibility of the M.F.D. to maintain.

Service Manuals

DEVIATION YES / NO

Two (2) hard copies of all operator, service and parts manuals shall be supplied. Two (2) hard copies of all component equipment such as engine, transmission and generator shall be supplied.

Fire Pump

DEVIATION YES / NO

The apparatus shall have the following:

One (1) Waterous CSU split shaft single stage water pump with replaceable pump packing along with all necessary and related parts and accessories midship mounted. All unused pump discharges are to have replaceable zinc corrosion elements. Any grease fittings for the pump are to be plumbed to the chassis Vogel lube system. The fire pump and transfer case shall be designed and installed in accordance with good modern practice.

The engagement of the pump transmission shall be of such design so as to permit transfer of power from road to pump operation only after the vehicle has completely stopped. The pump shift shall be air actuated from the cab and have a green "Pump Engaged" light and a green "OK- To-Pump" light. A third green light shall be provided on the pump panel for "Throttle Ready".

One (1) Waterous over heat protection manager, water discharge to dump to ground.

One (1) auxiliary engine cooler shall be furnished to provide additional cooling to the engine under extreme pumping conditions. Water from the pump is to be piped to the coils of the heat exchanger allowing the engine fluid to be cooled as required.

One (1) FRC pressure governor #TGA405-AOO, INCONTROL 4, psi, 12volt.

One (1) Waterous oil-less pump primer # 82643 with a vacuum activated priming valve model # 82507.

One (1) air shift road to pump controller in cab.

One (1) Waterous manual pump shift easily accessible at drivers side pump panel

One (1) Waterous main pump drain.

One (1) 750 gallon poly water tank.

Water tank indicator: Water Display Tank Vision; with Full Green, Primary. Fire Research Tank Vision model WLA200-A 12 tank indicator kit shall be installed. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable.

The indicator shall show the volume of water in the tank on nine (9) easy to see super bright LED's. A wide view lens over the LED's shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of aluminum, and have a distinctive blue label. The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-

calibration, and a data link to connect remote indicators. Low water warnings shall include flashing LED's at 1/4 tank, down chasing LED's when the tank is almost empty, and an output for an audio alarm. Fire research Tank Vision Z1 option for an audible alarm low level buzzer shall be installed. The buzzer shall sound when the tank volume indicator drops to 1/4 tank. The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the

bottom. No probe shall be placed on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

Location of water tank indicator shall be: Driver's side pump panel at eye level.

Fire Research Tank Vision M3 option for a tank volume indicator calibration wand shall be provided. The wand shall have an aluminum handle with a magnet at one end and a laminated calibration reference card attached to the other end.

The booster tank shall be connected to the intake side of the pump with a 3 1/2" Akron full flow tank to pump valve with check valve, with the remote control located at the pump operator's panel. The 3 1/2" tank to pump line shall run from a bottom sump into the 3 1/2" valve. To prevent damage due to chassis flexing or vibration, a short 3 1/2" flexible rubber hose coupling shall be used to connect the tank to the intake valve.

One (1) Waterous Monarch intake valve with an electronic actuator on the driver's side with blue indicator light and manual actuator on the passenger side of the fire pump. The intake valve shall have a 6" nipple with a 6" to 4" storz adaptor with a 45 degree angled elbow.

Two (2) auxiliary intakes, one (1) on each side, (driver/passenger) of the pump, Akron 3" swing out type, with locking handles. Adapters to be included from male NST to female Morgantown thread with Morgantown thread caps. Adapters shall be chrome plated brass.

Seven (7) 3" discharges Akron swing out type valves with locking handles: two (2) at drivers side pump panel area, two (2) on passenger side of pump (one of these discharges is to be a 4" LDH discharge with Storz coupler), one (1) for the deluge set, two (2) at rear below the hose bed.

Discharges to be fitted with 45 degree Red Head Brass Style E Hardcoat Anodized Aluminum Elbows with 2 1/2" Morgantown thread and 2 1/2" Morgantown thread female to 1 1/2" national standard thread male chrome plated brass adaptors with caps to be supplied for discharges located on the drivers side pump panel and the passengers side pump panel that is not the LDH discharge. Discharges at the rear to have same 2 1/2" elbows with 2 1/2" caps minus the 1 1/2" adaptors. Each discharge gauge to be FRC insight ultimate flow meter/pressure indicators with back lighting #FRC 402, models shall be specific to individual discharge size. The sensors in the plumbing system shall be installed per manufacturer's instructions for best performance. All gauges are to be located immediately beside or above the control handles.

Two (2) two inch discharges Akron swing out type with locking handles located at the drivers pump panel for cross lays.

NoShok liquid filled master pump pressure and vacuum gauges shall be provided. The gauges shall be 6" in diameter with white faces and black lettering. The gauges shall have a pressure range of 30" -0-400 psi.

Two crosslays shall be located above the pump housing capable of holding 200' of 1 3/4" double jacket fire hose in a side by side stacked flat load. Effort shall be made to make accessibility of crosslays as comfortable to access from the ground as possible, it is preferred the height of the bottom of the crosslay be no higher than 72 inches.

Each auxiliary suction and discharge is to be equipped with 'T' handle 1/4 turn drain valve. M.F.D. to approve type.

All suction and discharge lines (except pump manifold) 1" and larger shall be heavy duty stainless steel pipe. Where vibration or chassis flexing may damage or loosen piping or where a coupling is necessary for servicing, a flexible connection shall be furnished . All lines shall be drained by a master drain valve or a separate drain provided at all connections. All individual drain lines for discharges shall be extended with a rubber hose in order to drain below the chassis frame. All water carrying gauge lines shall utilize nylon tubing.

Heat pans with removable panels to be installed under the pump area for winter operations.

Pump panels on both sides shall be easily removable. The gauge and control panels shall be two separate panels for ease of maintenance. The upper gauge panel shall be hinged with a full length stainless steel hinge held closed with a lift/turn latch. There shall be one (1) hinged access door as large as possible located over the officer's side pump panel. This door shall have a full length stainless steel hinge held closed with a ~ turn latch. The officer's side of the fire pump panel is to have louvers to allow for heat to dissipate in the summer months. The pump panels are to be stainless steel with a brushed finish . Both pump panels shall have sufficient LED lighting for operations independently switched at the drivers pump panel.

COMPARTMENT BODY

DEVIATION YES / NO

Bidder to state total compartment cubic footage of storage space to be provided. All compartments are to have LED type lighting that will provide a very well lit compartment. Each compartment shall be equipped with two (2) LED light strips which shall provide a consistent pattern to illuminate the entire compartment. Lighting shall not interfere with the adjustment of compartment shelving. All compartments shall have poly tile with grip top installed on all shelves, trays and floors. To eliminate dead space and to maximize compartment interior space, there shall be no more than 1/4" between outer and inner walls.

A rain gutter shall be provided above all compartment door openings.

Two (2) light weight hard tubes shall be supplied with the apparatus. Kocheck 10' x 6" PVC NH long handle female and NH rocker lug male end # 2P601. The hard tubes shall be mounted in brackets located above the driver's side compartments.

Driver's Side Compartment #1

DEVIATION YES/NO

This compartment shall contain vertically mounted shelf track for shelving installation. One (1) shelf shall be provided for this compartment. Two (2) 250 lb. rated slide out tray with a 3" lip shall be provided for this compartment.

Driver's Side Compartment #2

DEVIATION YES / NO

This compartment shall have a hand tool storage system capable of holding department specified equipment. There shall be a mounting board to avoid mounting tools directly to the body.

Driver's side compartment #3

This compartment shall have a vertical shelf track system with two adjustable shelves and storage for two fire extinguishers if they are unable to be incorporated into the body.

Officer's Side Compartment #1.

DEVIATION YES / NO

This compartment shall contain vertically mounted shelf track for shelving installation. Two (2) adjustable shelves shall be provided for this compartment

Officer's Side Compartment #2.

DEVIATION YES/NO

This compartment shall contain vertically mounted shelf track for shelving installation. One (1) shelf shall be provided for this compartment.

Officer's Side Compartment #3.

DEVIATION YES/NO

This compartment shall contain vertically mounted shelf track for shelving installation. Two (2) shelves shall be provided and one (1) 500 lb. rated slide out tray with a 3" lip shall be provided for this compartment.

Body Rear Center Compartment.

DEVIATION YES/NO

This compartment shall be closed to both rear side compartments and vented to outside only. This compartment shall contain vertically mounted shelf track for shelving installation. One (1) shelf shall be provided for this compartment and one (1) 500 lb. rated slide out tray with a 3" lip shall be provided for this compartment.

Tailboard is to be constructed out of Grip-Strutt material and is to have 45 degree cut off corners.

The apparatus rear body area is to be covered with 6" scotchlite chevrons as specified in NFPA 1901.

Ladder Storage

DEVIATION YES / NO

Ladders shall be accessed from rear of apparatus, they shall vertically set in a trough favoring the officer's side. This compartment shall provide storage for one (1) twenty-four two section extension ladder, one (1) fourteen foot roof ladder, one ten foot folding attic ladder and (2) pike poles, (one (1) 6' metal New York roof hook from Fire Hooks Unlimited, one (1) 10' New Yorker with metal handle and at least one backboard.

Hose bed

DEVIATION YES/NO

The M.F.D. desires the lowest hose bed possible capable of carrying:

At least 1400 feet of 4" large diameter hose in a flat load.

At least 400 feet of 2 1/2" double jacket fire hose in a flat load.

At least 300 feet of 1 1/2" double jacket fire hose in a flat load.

Three hose bed dividers shall be supplied.

The hose bed shall be covered with a two piece diamond plate cover that is NOT dependent on a hose bed divider for support, designed to be opened for the loading of hose. Panels are to be fitted with lift assist struts. When in the open position the panels shall have a safety latch to hold the panels in the open position. When closed the panels shall be fitted with a latching device to hold the panels in the closed position. There shall be an access panel for the water tank vent.

A hose restraint system shall be installed to prevent fire hose from accidentally unloading while the apparatus is in motion.

The apparatus is to be supplied with Snap-Tite 4" Triple Duty supply hose, yellow in color, 14 - 100' sections 1 - 50' and 1 6" 25ø section, all sections to be fitted with 4" Storz fittings.

Dunnage Area**DEVIATION YES / NO**

This area shall contain:

One (1) Onan 10kw hydraulic generator unit.

Akron model 4270.1 WA deluge gun with portable mount

One (1) Hannay # ECR1616-17-18 cord reel w/200' of 120 volt 10/3 gauge cable with a C type roller assembly and ball stop. The cable is to have a 20 amp. three prong twist lock female receptacle on the end. Cord reel to feed off of the officer's side pump panel area. Rewind switch to be located at the pump panel on the officer's side.

One (1) four outlet receptacle box that is back lit shall be provided with a 10/3 gauge short pig tail that has a 20 amp. three prong twist male plug on the end.

One (1) mount shall be provided for this receptacle box.

M.F.D. to approve the positioning and location of equipment in the dunnage area.

Exterior Compartment Doors**DEVIATION YES / NO**

The exterior compartment doors shall be Robinson Series 3 shutter type. The doors shall be constructed of satin finish anodized aluminum slats. The slats exterior surface is flat, while the interior surface is concave to prevent loose equipment from interfering with the door operation. Aluminum extrusions shall be equipped with nylon end shoes that slide in

extruded aluminum tracks for easy operation. The shutter door shall have a pretension operator in a sealed alloy drum and positioned at the upper front portion of compartment to afford maximum clearances and head room for mounting equipment to the ceiling of the compartment. Each shutter door shall be a completely weather resistant assembly. Neoprene seals shall be provided on the sides, bottom, upper portion of the door and in between each slat. Latching of the exterior compartment shutter door shall be with an aluminum, spring loaded full width lift bar. The lift bar shall latch itself under two (2) cam shaped strike blocks mounted on the outer door frame on the compartment. Under each rolled up compartment door there shall be a drip pan with splashguard. The drip pan shall attach to the pennant plate with spring pins to allow for easy removal and cleaning. The construction of the pan shall be a corrosion resistant extruded and injection molded high impact styrene. The drip pan shall have a clear plastic tube drain line that allows water to drain to the outside of the compartment. A magnetic door ajar indicator switch system shall be provided and built into the striker blocks and the end caps of the lift bars. An extra wide finger pull shall be provided above each lift handle to assist in closing the compartment doors. Each shutter door assembly is permitted to decrease the compartment door frame opening by approximately 2" in width and 4 W' in height. A reflective

stripe shall be applied over the roll-up doors. The stripe shall be precision machine cut for each seam of the roll-up door.

Compartment Interior Finish**DEVIATION YES / NO**

The interior finish on all compartments shall be maintenance free heavy duty, painted surface.

Side Body Rub Rail**DEVIATION YES / NO**

There shall be a side rub rail provided below the compartment door openings on both the driver's and officer's side of the apparatus. The rub rail shall be bolted to the side of the body with rubber mount isolators to prevent damage to the body.

Interior Cab Features

DEVIATION YES / NO

Ceiling mounted cab lighting shall be provided, one red and one white, above each seat. The lights shall be three way switched, one switch position on with door, off and on. These lights shall be Weldon Technologies model # 8080 lights.

A self-canceling and pinging turn signal control shall be provided. The headlight high beam switch shall be included with the turn signal controls.

The steering column shall have a telescoping and tilting feature.

A digital speedometer shall be placed on the dash at the officer's seat.

A spot light with a minimum of one million candle power shall be hard wired in the cab easily accessible to the officer position.

A minimum of two (2) cigarette lighter style power points shall be provided in the cab.

A 7ö monitor for a back-up camera shall be installed in easy view of the driver.

The master parking brake control lever shall be placed so that it is accessible to both the driver and officer seating positions. A brake set indicator light shall be provided.

There shall be a deluxe console mounted on the engine hood between the driver and officer seats. The console shall be covered in black vinyl material to match the engine hood. The console shall come complete with recessed wells for storage of gloves or other miscellaneous items. The outboard sections shall contain duct work to direct air flow from the heater/AC towards the driver and officer seats.

A raised mounting plate shall be provided over top of the engine cover to allow for the mounting of equipment.

A locking mount shall be provided that will hold one (1) set of irons (flat head axe with haligan bar) in the rear cab area. M.F.D. to approve location.

A 120 volt - 20 amp power junction box shall be provided in the cab at the upper rear engine housing area for the charging of equipment. This line is to be fed from a shore line connection at the driver's door step. M.F.D. to approve location.

Three (3) cab seats (officer-rear passenger's) shall be SCBA seats Tanker #450 Secureall ABTS with duraware. The seats shall provide a space for an SCBA holding bracket. The driver's and officer's seats shall have air ride suspensions.

A rope pull shall be provided to activate the vehicle air horns. The rope pull shall be mounted so that it is accessible to both the driver and officer seating positions.

Four (4) NFPA approved indicator lights shall be provided in the cab, visible to both driver and officer that indicate when a cab door is open, compartment door is open, any telescopic light is not fully lowered and one to be determined. An audible horn shall be provided and shall sound when the vehicle parking brake is released and any of the four open/nested indicators are illuminated. This horn shall be furnished with a momentary reset switch. The switch shall automatically reset when engine is shut down and restarted

One (1) Fire Research Tank Vision model WLA205-AOO miniature tank indicator shall be installed in the cab. The indicator shall show the volume of water in the tank on five (5) easy to see super bright LED's A wide view lens over the LED's shall provide for a viewing angle of 180 degrees. The indicator case shall be manufactured of aluminum and have a distinctive blue label. M.F.D. to approve location.

A push button gear selector shall be provided for the driver. The "mode" button on this selector shall be used to engage the hydraulic generator.

A front axle brake shall be provided, the brake switch shall be accessible to the driver's seating position.

The manufacturer shall install the wiring and antennas for two (2) Motorola fire radios, (1) Motorola high band and one (1) Motorola 400 Mhz trunking fire band radio, wiring to include one (1) full time fused power circuit and one (1) switched circuit fused to turn radios on when engine is started along with a direct battery ground circuit. M.F.D. to provide the Motorola fire radios. M.F.D. to approve radio locations.

A headset shall be provided for each seat. The headset shall provide two way communication between each seat and be able to monitor radio traffic. The officer's headset shall provide two way communication with the dispatch radio as well.

A weather band am/fm/cd radio with antenna installed shall be provided.

The interior lower panel of each interior door shall be a smooth stainless steel panel designed to take shoe kicks and rubs.

On the interior of the two (2) rear cab passenger doors, a Chicago style grab bar shall be installed by the door window.

The battery boxes shall be vented and free from road splash. One (1) set of battery jumper studs shall be provided and the mounting location shall be approved by the M.F.D.

An EMS compartment shall be installed in the crew area, location to be determined by MFD.

Mounting for flashlight and radio chargers shall be provided.

Exterior Cab Features

DEVIATION YES / NO

An electric over hydraulic cab tilt system will be provided in order to facilitate the lifting of the cab allowing full access to the engine and accessories mounted under the cab. The hydraulic cylinders shall lift the cab to a tilt angle of at least 45 degrees. Manual locks shall be provided with a cable release to ensure the cab will remain in a fixed position in the event of a failure in the lifting system. A manually operated hydraulic pump for tilting the cab shall be provided in case the main pump should fail.

Any exposed part of the cab rear shall be covered by diamond plate material.

The exterior cab roof shall have a NFPA approved non-slip overlay.

The cab HVAC shall be for severe climate and provide a minimum of 60,000 cool BTU and 80,000 heat BTU single unit heater/air conditioner mounted over the engine cover. Airflow from this unit shall be a minimum of 1200 CFM. To achieve maximum cooling, a TM-31 Compressor (19.1 cu. in.) will be used.

The cab defroster/heater shall be a minimum of 39,000 BTU and shall be a separate unit mounted over the windshield. Airflow from the defroster/heater shall be a minimum of 350 CFM.

The condenser unit shall be roof mounted and have 60,000 BTU rating. The unit shall include two (2) fan motors. Airflow of the condenser shall be a minimum of 2250 CFM. The roof mounted condenser shall work at full rated capacity at an idle and create no engine heat problems.

The cab windows located between the cabs doors on each side of the cab shall be an opening sliding type window.

Four (4) stainless steel fenderettes shall be installed, one (1) on each front wheel well area and one (1) on each rear wheel well area.

One (1) Fire Research brow light OPTIMUM 750w/240v quartz. This light shall be switched in the cab.

Two (2) Fire Research OPTIMUM 750w/240v quarts. These lights shall be deep recessed mounted top of cab roof, one (1) on each side of the cab centered between the front and rear cab doors . These lights to be switched in the cab.

The cab doors shall be jersey barrier type doors to allow the door to fully open when up against an obstacle. The interior of the doors will have a LED yellow flashing light that will flash when the door is in the open position. The door will also have applied red and white reflective scotchlite. Each door shall be equipped with a device to hold it in the open position while parked on a hill.

All four (4) exterior cab door steps shall have grip strut aluminum grating provided.

Lang Mekra model 300 West Coast mirrors with remote controls, heated flat and heated convex mirror shall be provided controlled by a switch.

A Kusmaul super auto eject shall be provided for the on board Kusmaul 30 amp battery charger. The shore line connection shall be placed behind the drivers door above the wheel. This shore line connection shall also supply the interior cab 120 volt - 20 amp outlet above the engine cover. A Kusmaul battery charge indicator shall be provided and mounted behind the window above the driver's side front wheel well. Exact placement shall be approved by the M.F.D.

The headlights shall have a daylight driving feature. The headlights shall turn off when the vehicles parking brake is set.

The windshield wipers shall have an intermittent operation feature.

A heavy duty 12" high double rib polished stainless steel wrap around front bumper with laser cut perforated grills shall be incorporated into the bumper and located at the outboard section of the bumper for the air horns and at the center for the siren speaker. The bumper shall be mounted to a reinforcement plate constructed carbon steel. There shall be a compartment mounted in the bumper extension that will hold one 2ö

discharge, controlled at the pump panel, and 100' of 1 ½" fire attack hose with a nozzle. Swivel to be mounted above the bumper, not in the tray.

The vehicle tow eyes are to be placed on bottom of the front bumper.

Two driving/fog lights to be recessed in the bumper.

Two (2) Grover 2040 stutter tone rectangular, chrome plated, air horns shall be provided. The horns shall be recessed mounted in the front bumper. The horns will be activated by a rope pull accessible to both the driver and officer seating positions. These horns shall be supplied from an isolated air reservoir. An isolation valve shall be installed at this reservoir to isolate the air horns.

One (1) Federal 2QB mechanical siren shall be provided. The siren location shall be in the bumper and be approved by the M.F.D. It shall be activated by a foot switch on the officer's side floor board and the driver's side floor board. This switch shall be heavy duty weather tight design. Both switches shall only be operable when the emergency lighting master switch is activated. A siren brake shall be provided and the switch shall be located on the center cab console. The mounting of the siren shall not interfere with the tilting of the cab roof.

Two (2) Powercall electronic siren speakers 100 watts each shall be installed flush mount in the front bumper. A Powercall siren control head for the speakers shall be mounted in the cab accessible to both the driver and the officer. A heavy duty weather tight foot switch shall be provided on the officer's side floor board, beside the mechanical siren switch, to activate the electronic siren. The driver steering column horn switch shall also activate the electronic siren or vehicle 12 volt horn by use of a horn/siren switch M.F.D. to approve exact location.

A grab bar shall be located on the front of the cab to assist in accessing the windshield for cleaning. Location to be approved by MFD.

Four (4) mud flaps shall be provided, one (1) at the rear of each tire/wheel well area.

Two (2) folding NFPA approved wheel chocks shall be provided with under cab mounting brackets. M.F.D. to approve location.

Vehicle Engine

DEVIATION YES / NO

The bidder shall furnish with the bid packet a computer generated engine/transmission SCAAN. Bidder to use all calculations of the engine, transmission, axles, tires, weight, etc. to predict the performance on flat ground as well as on grades. The engine shall be fitted with a Jacobs Engine Brake three stage control, off/low/high. This engine brake shall be wired into the brake lights to activate the brake lights when the Jacobs engages. The coolant system shall use constant torque clamps with silicone hoses. The cooling system shall also have installed a filter. Engine and related components must be able to operate in a temperature range of -10 degrees Fahrenheit to 110 degrees Fahrenheit. The fuel system shall include a fuel/water separator and isolation valves before and after the filter. Vehicle engine and related fluids should have access to check fluid levels and fill fluids without raising the vehicle cab. Engine air intake shall be provided at cab roof level. The engine will be equipped with a Kim hot start system.

Morgantown Fire Department strongly expresses the need for the vehicles to perform well on significant grades, both accelerating and stopping.

Fuel Tank

DEVIATION YES/NO

The apparatus shall be equipped with a 65 gallon stainless steel rectangular fuel tank. The fuel tank shall be certified to meet FMVSS 393.67 tests. The tank shall be removable by means of six (6) bolted connections and dropped. One (1) tank baffle shall be used. Dual pick up and return ports shall be provided. The fuel tank shall be equipped with a 2 ½" filler neck assembly with a 5" vent located on the left hand side of the tank. A fuel fill cap attached with a lanyard shall be provided. The bottom of the fuel tank shall contain a 1/2 " drain plug. The fuel lines shall be nylon braid reinforced fuel hose with brass fittings. The lines shall be carefully routed along the inside of the vehicle frame rails. All fuel lines are to be covered in high temperature rated split plastic loom. Single suction and return fuel lines shall be provided. The fuel tank shall be mounted in a saddle with a barrier between the tank and the saddle.

Diesel engine emissions additive tank shall be filled in the same location as the fuel tank (if necessary). Location to approved by MFD.

Automatic High Idle Activation

DEVIATION YES/NO

The load management system shall be capable of activating the apparatus high idle system when the system voltage drops below 12.3 volts DC. The system shall raise engine speed for a minimum of five (5) minutes until voltage exceeds 13.0 volts DC. The load management system shall activate the high idle feature before any devices are automatically shut off. The high idle function request from the load management device shall function only if the appropriate interlocks are present; that is, control of the high idle system is monitored and shall be superseded by the state of the interlock control module. The automatic high idle system shall be deactivated whenever the brake pedal is pressed, and shall remain inactive for two minutes thereafter to allow an operator to override the high idle function and return the engine to idle before PTO engagement.

Drive Shaft

DEVIATION YES / NO

The drive shaft shall be dynamically balanced and include containment straps to protect nearby under-body components in the event of a failure.

Vehicle Axles

DEVIATION YES / NO

Axle capacity and suspension shall be commensurate with the estimated in-service weight of the apparatus. Apparatus to be equipped with an automatic traction control feature for the rear drive wheels. A VOGEL chassis lubrication system shall be installed on the vehicle. The specific lubrication points shall be recommended by the manufacturer and approved by the M.F.D. ALCOA polished aluminum wheel rims shall be provided matching tire and axle capacity. Include hub covers, lug-nut covers and braided air hoses . Michelin brand tires shall be furnished appropriate for the weight of the vehicle. Steering tires for the front axles, mud and snow tires for the rear axles. MFD prefers traditional width tires as opposed to super single tires.

Vehicle Air System

DEVIATION YES / NO

All reservoirs shall have petcock drains installed for preventative maintenance.

One (1) air outlet supplied from the vehicle air system shall be provided and installed in the driver's side pump panel of the vehicle. Fitting make to be identified by the M.F.D. M.F.D. to approve outlet location.

Vehicle Brake System

DEVIATION YES / NO

The vehicle shall have disc front brakes and S cam drum rear brakes. Apparatus to have an ABS braking system.

Suspension.

DEVIATION YES / NO

MFD will not accept air ride suspension

Exterior Body Features

DEVIATION YES / NO

All compartment lighting shall turn on when the vehicle parking brake is set.

There shall be 12 volt scene lights mounted on the upper body area of the vehicle, two (2) on the driver's side, two (2) on the officer's side, two (2) on the rear. All the scene lights shall be switched in the cab. M.F.D. to approve light models.

NFPA approved under body lights shall have a switch in the cab accessible to the driver to turn the lights on in addition to their activation when the parking brake is set.

There shall be two 120 volt - 20 amp receptacles provided one (1) on the driver's side lower rear tailboard area and one (1) on the officer's side. These receptacles will be used by portable quartz lighting to be mounted in this area above the receptacles. These receptacles are to be switched in the cab.

Four (4) Fire Research model # OPA656 with FRC - OPA705 750w removable light heads shall be mounted one (1) on the driver's side rear compartment body and one (1) on the passenger side rear compartment body. A tripod truck mount bracket shall be provided for each of these lights. Each set shall include a lower base plate, an upper lock with a quick release spring loaded locking pin. A plate shall be installed where these lamp heads are stored/positioned to protect the compartment body. One (1) each shall be placed on the rear of the cab on each side, on a telescopic pole. A twist lock outlet shall be provided for each light.

An Ecco model # SA917 automatic self-adjusting back up alarm producing 87-112 db shall be installed at the rear between the frame rails. It shall operate whenever the transmission's reverse gear is selected.

There shall be a back-up camera placed on back of the apparatus, MFD to approve location. Camera shall be activated when reverse gear is selected as well as being able to be switched independently from the cab. Shall be wired to 7ö monitor in the cab.

Two (2) tow eyes shall be provided at the rear frame area

Stainless steel wheel well liners shall be provided with adequate support to maintain their rigidity through adverse weather conditions.

All steps provided to meet current NFPA 1901 standards shall be Cast Products Inc. cast aluminum fold down type with a footing area of 42 square inches.

All DOT and ICC vehicle lighting (except headlights) shall be LED type lighting.

Storage for four (4) SCBA cylinders shall be incorporated into the body, as well as storage for two (2) fire extinguishers (if possible).

Four (4) sets of spanner wrenches, one including a hydrant wrench, one mounted at each pump panel, two (one with hydrant wrench) mounted on rear of vehicle.

One (1) set of LDH spanners to be mounted on officer's side pump panel.

Warning Light Package

DEVIATION YES / NO

There shall be an emergency lighting control panel in the cab accessible to the driver's position that shall have switches to control all emergency lighting. A second emergency master control switch shall be located on the officer's side of the cab, location to be approved by M.F.D. All zone lighting shall have separate control switches. M.F.D. to approve all warning light models, styles and sizes.

Zone A - front warning lights. Two (2) Whelen FNMINI LED light bars shall be mounted on 45 degree angles, one (1) above the drivers seating area on the cab roof and one (1) mounted on a 45 degree angle above the officer seating area. One (1) Whelen 55" LED light bar shall be mounted center of cab roof. One (1) 3M traffic control emitter shall be installed into this light bar. Four (4) Whelen LED flashers shall be installed on the front cab wall. Two (2) Whelen LED flashers shall be installed on each front side of the cab, one (1) at bumper level each side and one (1) at the front flasher height on each side of the cab.

Zone B & D warning lights shall be whelen LED type.

Zone C - rear warning lights. Lower area, two (2) whelen 900 series linear super-LED lights, one (1) on each side of the body, with red lens. Upper area, two (2) whelen 900 series linear super-LED lights, one (1) on each side of the body, with red lens, one (1) whelen LED traffic advisor with a whelen control head shall be provided. Mounted top center of apparatus below the walkway to be either recessed or shielded from damage. Middle area, two (2) whelen 900 series linear super-LED lights, one (1) on each side of the body, with yellow lens.

110 Volt System

DEVIATION YES / NO

An Onan CMHG hydraulic generator system with a capacity of 10,000 watts at 120/240 volt, 20811 04 amps. A single phase, 60 cycles shall be provided. A starter switch shall be provided by the main electrical panel and an additional starter switch shall be installed in the cab accessible to both the driver and officer seating positions. The generator shall be installed with hot shift ability. A Fire Research FROG display shall be mounted near the main electrical panel. A PTO splash guard shall be provided to protect against road spray. This generator shall feed an electrical distribution panel that is to be mounted in the driver's side compartment # 1. The generator shall have a switch in the cab accessible to both the driver and officer seats to turn the unit on and off. The generator shall be of a type that will allow the unit to be engaged and operate from an idle to full governed RPM's. The generator shall be mounted in the dunnage area. The installation shall facilitate oil filter change and hydraulic fluid drainage.

Bid Drawings

DEVIATION YES / NO

The bidder shall submit with its bid package a complete set of bid vehicle drawings. The drawings shall be produced on a computer aided design program and use a 1/4" = 10' scale. The drawings shall be printed on 11" x 17" white paper. Two (2) copies of the bid vehicle drawings shall be provided with the complete bid package.

Bid drawings shall be stamped 'BID DRAWING'. All items shown in the drawings will be pre-designed with regards to vehicle layout and functionality prior to the completion of the 'BID DRAWING'. The drawings shall show five (5) views of the vehicle, front, left side, right side, rear and top, with the doors closed. A second set of drawings shall show four (4) views of the vehicle, left side, right side, rear and top with the doors open. An interior view of the cab shall be provided. Compartment door openings and usable compartment space shall be clearly shown in inches. Vehicle overall length, height, width, wheelbase and cab to axle dimensions shall be clearly shown in inches. The angle of approach and departure shall be shown with the vehicle in the maximum loaded condition to the nearest degree. All vehicle lighting packages will be clearly shown on the drawings.

The exterior view drawings shall show all scene lighting, marker lights, speakers, air horns, exhaust, tow points, exterior outlets, windows, tow hitches and any other items important to the function of the vehicle. The open view shall show all trays, shelves, tool boards, cylinder storage, storage modules and any other item important to the function of the vehicle.

The cab interior view shall show all seating positions, windows, tech. equipment, radio locations and any other item important to the function of the vehicle.

The text block on the drawings shall indicate M.F.D. drawings, body size and material type, chassis manufacturer and model, unit description, wheel base, cab to axle distance, overall length, overall height, overall width, scale, date, drawn by, drawing number and sheet number.

EQUIPMENT: In addition to 40 supply line specified in the hose bed section of these specifications.

The following equipment shall be included in the bid price:

Four hundred (400) feet of 1 3/4" double jacket attack line, red in color, 50# sections

Five hundred (500) feet of 1 1/2" double jacket attack line, white in color, 50# sections

Four hundred (400) feet of 2 1/2" double jacket fire hose, yellow in color, 50# sections

Four (4) Akron turbo jet adjustable gallonage fog nozzles for 1 3/4" lines

Two (2) Akron turbo jet adjustable gallonage fog nozzles for 2 1/2" lines

Two (2) Akron turbo jet smooth bore nozzles for 2 1/2" lines

One (1) 95gpm Akron foam inductor

One (1) Akron quick attack foam tube for use on above 1 1/2" nozzles

Two (2) 2 1/2" double female adapters

Two (2) 2 ½" double male adapters

One (1) 2 ½" Morgantown thread to NST adapter

One (1) 2 ½" NST to Morgantown adapter

One (1) 2 ½" to 1 ½" gated wye

One (1) 2 ½" cellar nozzle

One (1) pick head axe with fiberglass handle, to be mounted in drivers side 2

One (1) flat head axe with fiberglass handle, to be mounted in drivers side 2

One (1) halligan tool, to be mounted in drivers side 2

One (1) SET of irons (flat head axe/halligan tool) to be mounted in cab

One (1) 4 foot closet hook, fiberglass handle with D grip, to be mounted in drivers side 2

One (1) 4 foot trash hook, fiberglass handle with D grip, to be mounted in drivers side 2

One (1) 4 foot drywall hook, fiberglass handle with D grip, to be mounted in drivers side 2

One (1) 8lb sledge hammer with 36" fiberglass handle, to be mounted in drivers side 2

One (1) Super Vac 18" variable speed ventilator, electric

Two (2) 12 foot by 12 foot canvas salvage covers

Two (2) 12 foot by 3 foot canvas floor runners

Four (4) Streamlight Survivor LED flashlights with chargers, mounted in crew area of cab

Two (2) Streamlight Fire Vulcan LED lanterns with chargers, one to be mounted in officer area of the cab, one to be mounted in drivers side 1

Two (2) Model 8: FRCSPA700-K20 / Lamphead, portable w/ 3 legged stand, 120VAC

Two (2) Sterling: 1/2" Superstatic Nylon Rescue Rope, NFPA Rated, Blue, 200 foot each

One (1) 100 foot 3/8" kernmantle utility rope

One (1) K-12 Rescue saw

One (1) 16" VentMaster Ventilation Fire Saw W/Depth Gauge 5.4 HP

Two (2) plastic backboards

Two (2) ratchet style hydrant wrenches

OPTIONS

Hatch compartments above officers side compartments

Painted wheels with lug and center covers in place of aluminum wheels

LED scene lighting in place of quartz lighting

Angled front bumper to increase angle of approach

Chevrons on front bumper matching rear of apparatus

END OF FIRE ENGINE APPARATUS SPECIFICATIONS.



FIRE DEPARTMENT
ADMINISTRATIVE OFFICES
BUSINESS PHONE (304) 284-7480

300 SPRUCE STREET
MORGANTOWN, W.V. 26505
FAX: (304) 284-7503

October 31, 2012

Request for Proposal

2013-004 Fire Fighting Apparatus – Fire/Rescue Engine

The City of Morgantown is currently accepting proposals for construction and delivery of 1 (one) fire/rescue engine and associated miscellaneous equipment for use by the Morgantown Fire Department to provide fire protection and rescue services for the City of Morgantown.

Vehicle specifications can be obtained from the Finance Office of the City of Morgantown, 389 Spruce Street, Morgantown, WV 26505, phone: (304) 284-7419 or from the City's web site <http://www.cityofmorgantown.org>. All submissions must be sealed and clearly marked "BID 2013-004". All bids must be submitted by December 14, 2012, 10 a.m. to the Finance Office of the City of Morgantown, 389 Spruce Street, Morgantown, WV 26505, at which time bids will be opened and read publically.

Please address the bid package as follows:

Bid Proposal 2013-004
Attention: Judy Simons
Accounts Payable Clerk
389 Spruce Street
Morgantown, WV 26505

The City reserves the right to reject any or all proposals or any part thereof, to waive any formality, informality, information and/or errors in the proposal, to accept the proposal considered to be in the best interest of the City.

Contact information: Chief Mark Caravasos (304) 284-7480
macaravasos@morgantownfd.org