



FIRE PROTECTIVE SERVICES

2010

**3000 GALLON TANDEM AXLE WATER TANKER
REQUEST FOR PROPOSAL**

COMPANY

CITY OF YORKTON

1. Purpose and Intent

It is the purpose and intent of these specifications, whether or not specifically covered herein, to describe a 3000 gallon tandem water tanker and to secure an apparatus representing the best modern practice in design and construction throughout.

The apparatus to be purchased under this specification will be used for standard use and transportation for a Fire Department, as determined by the buyer, equal to the severity of the work performed by Fire Departments in the Prairie Provinces of Western Canada.

2. INSTRUCTIONS TO PROPONENTS

2.1 Requests for Information

While the City of Yorkton has used considerable efforts to ensure an accurate representation of information of this Request for Proposal, the information contained in this Request for Proposal is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the City of Yorkton, nor is it necessarily comprehensive or exhaustive. Nothing in this Request for Proposal is intended to relieve Proponents from forming their own opinions and conclusions in respect of the matters in this Request for Proposal.

Before submitting a proposal each Proponent should carefully review in detail the entire contents of this Request for Proposal, as it is each Proponent's responsibility to ensure that it has all the necessary information concerning the intent and requirements of this Request for Proposal. The submission of a proposal will constitute a deemed acceptance, by the Proponent, of the terms and conditions set out herein.

On review, if any errors, omissions or ambiguities are discovered in the Request for Proposal, the same should be submitted to the City of Yorkton in detail, in writing, as soon as possible, to the attention and address as set out below.

All questions regarding this request for proposal should be directed to the attention of the following:

Dean Clark
Fire Chief
City of Yorkton
Box 400, 37 – 3rd Avenue North
Yorkton, Saskatchewan
S3N 2W3
Tel: (306) 786-1795
Fax: (306) 786-56588

2.2 Addenda

The City of Yorkton reserves the right to revise or amend the Request for Proposal prior to the closing date for submissions. Such revisions and amendments, if any, will be announced by addenda.

Only questions answered by formal written addenda will be binding, and any oral explanations or instructions given before any award of contract will not be binding. In the event that in the City of Yorkton's opinion, a change in the specifications is advisable, the City of Yorkton may, in its sole discretion, issue a revision to the specifications to all parties who have received the Request for Proposal document. Save and accept the foregoing, oral interpretation given by the City of Yorkton to any Proponent shall not affect or modify the Request for Proposal documents.

2.3 Alternatives

All Proponents are required to submit a basic proposal which conforms to the requirements as stipulated in the specifications.

In addition to the requirements of submitting a basic proposal, Proponents are at liberty to submit any alterations to the basic proposal which, in the Proponent's opinion are more advantageous to the City of Yorkton, economic or otherwise. Any alternate proposal shall be submitted as an appendix to the basic proposal, and should include sufficient descriptive detail, a clear enumeration of the advantages of the alternative, as well as any associated cost implications.

2.4 Modifications & Withdrawal

Proposals may be modified or withdrawn by the Proponent at any time prior to the closing date for receipt of proposals by a written notice executed in the same manner that the proposal must be executed and delivered to the place where proposals are to be submitted.

2.5 Proposal Submission

Proposals must be received no later than **11:00am, Wednesday, August 11th, 2010** at the address set out below:

City of Yorkton
Fire Protective Services
Box 400, 37 – 3rd Avenue North
Yorkton, Saskatchewan
S3N 2W3
Attention: Dean Clark, Fire Chief
Tel: (306) 786-1795
Fax: (306) 786-6588

Proposals should be clearly marked "Tandem Axle Water Tanker" along with the name and address of the Proponent on the envelope. All proposals should be submitted on the forms provided unless otherwise necessary, be legible and must be duly signed by the Proponent, and in the case where the Proponent is a corporation, the proposal should be signed by a duly authorized representative or officer of the Proponent. Proposals will not be considered unless actually received at the address given above on or before date of close. The Proponent is responsible for

any delays or deficiencies in receipt of the proposal due to acts or failures to act of the post office, courier or other third parties. Facsimile proposals will not be accepted.

Proponents are not permitted to attend the Request for Proposal opening. All Proponents will be notified by the City of Yorkton of the outcome of this Request for Proposal in terms only of who was the successful Proponent, or proponents, if any.

All proposals received after the above date and time will be rejected.

2.6 Evaluation Criteria

In assessing the merits of any proposal, all matters set out in this Request for Proposal will be considered. However, Proponents are particularly advised that the following factors and concerns, though not necessarily exhaustive, and not listed in any particular order of priority or importance, are important to the City of Yorkton in its assessment:

- Technical Compliance
- Competitive Pricing
- Parts and Service Ability
- Delivery Schedule
- Warranty
- Other factors the City of Yorkton deems appropriate

2.7 Proposal Clarifications

In evaluating the merits of any proposal, the City of Yorkton reserves the right on reasonable notice to interview, examine and make inquiries of any Proponent after the closing date, generally and also for purposes of clarifying or verifying any particular portion of any proposal submitted, which may in the opinion of the City of Yorkton be unclear or require verification. All Proponents agree at their own expense to attend such interviews, and to fully co-operate with the City of Yorkton on any such inquiry, and to provide at the proponents own expense, any such clarification and/or verification as the one requested by the City of Yorkton.

2.8 Errors, Omissions & Irregularities

Any proposal submitted which does not strictly comply with the provisions, procedures and requirements of this Request for Proposal is incomplete, ambiguous or which contains errors, alterations, misleading information, omissions, or irregularities of any kind may be rejected and disqualified at the discretion of the City of Yorkton.

2.9 Acceptance of Proposals

All terms of each proposal shall remain firm, irrevocable and binding upon the proponent submitting the same, and open for acceptance by the City of Yorkton for a period of thirty (30) days or until the City of Yorkton cancels this Request for Proposal whichever comes first. The City of Yorkton undertakes to proceed with making an award on this Request for Proposal or cancellation in a reasonable period of time.

2.10 Award of Proposal & Negotiations

The City of Yorkton reserves the right to award all or any portion of the goods. The lowest or any proposal will not necessarily be accepted. We reserve the right to accept any or all proposals on the basis of any consideration. The City of Yorkton reserves the right to accept proposals in whole or in part, award all or a portion of the goods to any one Proponent, or a combination of Proponents and to negotiate a contract containing different or additional items and/or terms from those set forth in the Request for Proposal documents.

2.11 Right to Cancel & Reject

Notwithstanding anything to the contrary or otherwise in this Request for Proposal, the City of Yorkton reserves the right to cancel this Request for Proposal, in whole or in part, at any time prior to making an award, for any reason or no reason, without any liability to any Proponent. The issuance of this Request for Proposal no way commits or implies that the City of Yorkton will proceed with this purchase, or issuance of a contract resulting from this Request for Proposal.

Any and all proposals may, without any liability of any kind whatsoever to any Proponent, be rejected by the City of Yorkton should it be deemed in the best interest of the City of Yorkton to do so without stating reasons.

3. GENERAL CONDITIONS

3.1 Delivery

Delivery of the Fire Truck shall be to the City of Yorkton Fire Station at the address stated below unless otherwise specified:

City of Yorkton
Fire Protective Services
9 Smith Street East
Yorkton, Saskatchewan
S3N 0H2

The Proponent shall deliver the goods on or before the date specified on the proposal form. If the Fire Truck has not been delivered to the above mentioned location by the delivery date, the City of Yorkton, at its option may cancel the order and in doing so would owe no compensation whatsoever to the supplier or, deduct a late penalty of 1% of the apparatus cost before taxes pro-rate daily for every month late or, request a similar unit to use at no charge until the new unit arrives. Unit shall be pre-serviced and full operational upon delivery. All transportation charges are the responsibility of the supplier if a temporary unit is required until the new unit arrives.

A minimum three (3) days notice to the Fire Chief is required prior to shipment.

3.2 Warranty

The unit offered under this specification shall be covered by the manufacturer's standard warranty or guarantee on new equipment, the terms and conditions of which shall be clearly outlined by the bidder. Where warranty is provided by a third party, this shall be clearly outlined and documented.

All required repairs during the warranty period must be completed at the City of Yorkton, Public Works shop and all charges incurred due to travel, lodging, etc. will be the responsibility of the supplier and/or manufacturer.

3.3 Inspection

The City of Yorkton may inspect the goods after delivery and return all or any portion of the goods at the supplier's expense if such goods are defective or not in compliance with the requirements of this agreement. Payment shall not constitute acceptance of such goods by the City of Yorkton.

3.4 Risk

All goods shall remain at the supplier's risk until delivered to the City of Yorkton and inspected for deviations and/or defects from the agreement.

3.5 Training, Safety & Manuals

Successful Proponents shall provide service and technical training by a qualified representative, which must include instruction in safe operation, lubrication and general maintenance procedures. The City of Yorkton will determine the amount of time necessary it feels is required to adequately do so.

All safety training must include any videos or literature applicable and available and must satisfy the requirements of Occupational Health and Safety's, Power Mobile Equipment Operator training which will then become property of the City of Yorkton.

The following manuals must be included in the proposal. All manuals available to the supplier must be supplied to the City of Yorkton:

- Two (2) Technical Specifications
- Two (2) Parts Catalogue
- Two (2) Operators (including operator safety)
- Two (2) Technicians repair manual, including but not limited to operation, troubleshooting, teardown and rebuild of all apparatus components.

If it is found that additional manuals were available at the time the proposal was submitted but not included, the supplier will be required to produce these manuals to the City of Yorkton at no charge.

3.6 Changes

No change in any of the terms of this agreement shall be made unless authorized in writing by the City of Yorkton, Fire Chief and any terms or conditions included in any invoice, packing slip, or confirmation of order issued by the supplier shall be of no force and effect.

The City of Yorkton may, without invalidating the contract, direct the supplier to make changes in the work.

When a change causes an increase or decrease in the work, the contract price shall be increased or decreased by an amount to be agreed upon between the supplier and the City of Yorkton, Fire Chief.

3.7 Payment

Payment shall be made on the following basis: 90% shall be authorized within 30 days of the date the unit has been received and inspected by the City Of Yorkton and 10% will be withheld until all conditions of the agreement and deviations, if any are satisfactorily met as deemed so by the Fire Chief. All prices are F.O.B. Yorkton.

4. PROPOSAL FORMAT

4.1 General minimum specifications will follow and the proposal must include these documents, filled out and returned. All columns to the right hand side of the minimum general specifications must be filled out. Any additional recommended equipment will be written on the forms provided or supplied additionally. If you are unable to supply, mark as such.

Any additional equipment deemed necessary must include a brief explanation as to why it is necessary and the benefits of each.

4.2 Proponents are to attach complete manufactures technical specifications, literature and terms of warranty covering parts and labor for all components.

SPECIFICATIONS

The Following Specifications details an International Cab & Chassis. The City of Yorkton Fire Protective Services will consider ALL other manufactures (i.e. Kenworth, Freightliner, Peterbulit etc...) of Cab & Chassis's so long as they meet or exceed the specifications mentioned herein.

**City of Yorkton - Fire Protective Services
– 3000 Gallon Tanker**

**Bidder
Complies**

Yes No

DELIVERY

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty.

INFORMATION

At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.

SAFETY VIDEO

At the time of delivery a professionally-produced apparatus safety video, in DVD format will be provided. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, and safety during maintenance.

PERFORMANCE TESTS

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus will meet NFPA 1901 acceleration and braking requirements. The apparatus when fully loaded will not have less than 25% of its weight or more than 50% on the front axle and not less than 50% or more than 75% on the rear axle.

COMMERCIAL GENERAL LIABILITY INSURANCE

Certification of insurance coverage will be enclosed.

ISO COMPLIANCE

The manufacturer will operate a Quality Management System under the requirements of ISO 9001. These standards sponsored by the "International Organization for Standardization (ISO)" specify the quality systems that will be established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance will be included with the bid.

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**Bidder
Complies**

Yes No

CURRENT NFPA STANDARDS

This apparatus specification includes a commercial chassis that has not been certified to meet the current requirements of NFPA 1901 by the chassis manufacturer. The body as built by the manufacturer must comply with the current NFPA.

Certification of slip resistance of all stepping, standing and walking surfaces must be supplied with delivery of the apparatus.

A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating.

The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications.

An official of the company will designate, in writing, who is qualified to witness and certify test results.

INSPECTION CERTIFICATION

The complete apparatus will be certified and tested to the ULC, *Automobile Fire Fighting Apparatus Standard*, CAN/ULC-S515-04, by Underwriters Laboratories Inc. / Underwriters Laboratories of Canada, and the vehicle will bear the ULC Mark, indicating compliancy to the standard.

AFTERMARKET SUPPORT WEBSITE

The manufacturer will provide to the dealer comprehensive information pertaining to the maintenance and service of their customer's apparatus. This tool will provide the authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips.

This shall be accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number.

The website will consist of the following screens at the dealer level:

- Provide access to truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, and applicable vehicle software downloads, etc.
- A parts screen that will provide parts look-up capability of sourced items, with the aid of digital photographs, part drawings and assembly drawings. The parts search application will permit the searching of parts by item description or function group (major system category). The parts application will provide the ability to submit electronically a parts order, parts quote, or parts return request directly to the Manufacturer for processing.
- A Warranty screen that will provide dealers the ability to submit electronically warranty claims directly to the Manufacturer for reimbursement.

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**Bidder
Complies**

Yes No

- A Reports screen that will provide access to multiple dealer reports to allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts.
- A Technical Support screen that will provide access to all currently published Operation and Maintenance and Service Publications. Access to the Manufacturer Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided.
- A Training screen that will provide access to upcoming training classes offered by the Manufacturer along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components will be provided. Access to training manuals used in the Manufacturers training classes will be provided.
- Access to Customer Service articles, corporate news, quarterly newsletters, and key contacts within the Customer Service Department will be provided. The current Customer Service Policy and Procedure Manual, detailing the operation of the Customer Service group.

WARRANTY

This apparatus will be free from defects in materials or workmanship under normal use and service. The obligation under this warranty is limited to repairing or replacing, as the company may elect, any parts thereof which are returned to us with transportation costs prepaid, and as to which examination is disclose to the company's satisfaction to have been defective, provided such part, or parts will be returned to us not later than **one (1) year** for delivery of the apparatus. Such defective part or parts will be repaired or replaced free of charge and without charge for installation to the purchaser.

CHASSIS WARRANTY

The basis chassis warranty will be for a total of **one (1) year/unlimited miles**.

PUMP PLUMBING WARRANTY

Except as provided below, and provided the vehicle will have been placed in service within sixty (60) days after delivery to the original purchaser as established by our original invoice, for a period ending on the first to occur of the expiration of ten years or 100,000 miles of vehicle use after delivery to the original purchaser, also warrants to the user that the stainless steel piping that is 3.00" and smaller in diameter will be free of structural failures caused by defective design, workmanship, or perforation caused by corrosion. The obligation under this warranty is to repairing or replacing without charge, the stainless steel piping or components which have failed due to defective design, workmanship, or perforation caused by corrosion.

A copy of the warranty shall be included with this proposal.

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**Bidder
Complies**

Yes No

WARRANTY - PAINT AND CORROSION

Except as provided below, and provided the vehicle has been placed in service within 60 days after delivery to the original purchaser as established by the original invoice, for a period of **ten (10) years** after delivery to the original purchaser, the successful company warrants to the user that its body is free of blistering, peeling, corrosion, or any other adhesion defect caused by defective manufacturing methods or paint material selection for exterior surfaces on the body of the vehicle. This warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:

Topcoat Durability & Appearance:		Integrity of Coating System:		Corrosion:	
Gloss, Color Retention & Cracking		Adhesion, Blistering/Bubbling		Dissimilar Metal and Crevice	
0-72 months	100%	0-36 months	100%	0-36 months	100%
73-96 months	50%	37-84 months	50%	37-48 months	50%
97-120 months	25%	85-120 months	25%	49-72 months	25%
				73-120 months	10%

This warranty applies only to the exterior body paint. Paint on the vehicle's body interior is warranted under a One Year Limited Warranty package.

In addition to the foregoing, and subject to all of the terms and conditions of this Warranty, except cost allocations, the successful company will warrant the body exterior paint for a period of **ten (10) years** against corrosion perforation.

This warranty text is an illustration only. For actual details, refer to the warranty document. A copy of the warranty is included with this proposal.

ENGINE WARRANTY

The engine will come with a **five (5) year** warranty provided by International

TRANSMISSION WARRANTY

The transmission will have a **five (5) year/unlimited mileage** warranty covering 100% parts and labor. The warranty to be provided by Allison Transmission.

BODY WARRANTY

A copy of the fire apparatus manufacturer's warranty will be included with the bid. The warranty will state that the body will be free of structural failures caused by defective design or workmanship for a warranty period of **ten (10) years** from the date the new vehicle is first delivered **or 100,000 miles**, whichever occurs first and that defective parts, under the warranty, will be repaired or replaced without charge to the original purchaser.

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**Bidder
Complies**

Yes No

PUMP WARRANTY

A Darley **five (5) year** warranty on the parts will be provided for the pump.

CHASSIS

The chassis will be an International, Model 7400 SBA, supplied with the following equipment:

- The seating capacity in the cab will be two (2).
- The wheelbase of the vehicle will be 199".
- The gross vehicle weight rating will be 56,000 lbs.
- The frame rails will be formed from 120,000 psi yield, heat treated alloy steel.
- A full length mainframe channel liner will be provided.
- Front axle will be an "I" beam type, made of forged steel. It will be a Meritor MFS-16-143A, with a ground rating capacity of 16,000 pounds.
- Front suspension
 - Spring mounted: Parabolic, Taper Leaf
 - Capacity at ground: 16,000 pounds
 - Shock Absorbers: Double Acting
 - Shock absorbers will be provided on the front axle.
- Tandem rear axle's single reduction will be a Meritor, model RT-40-145, with a ground rating capacity of 40,000 pounds.
- The brake chambers will be forward mounted and brakes will be 16.50" x 7.00", S-Cam type.
- The parking brake will be spring set and located on the rear axle service brake.
- A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 65 MPH.
- The rear suspension will be spring mounted, Hendrickson RT-403 walking beam type, 52.00" spacing, with a capacity at ground level of 40,000 pounds.
- The front and rear brakes will be provided with dust shields.

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**Bidder
Complies**

Yes No

ANTI-LOCK BRAKE SYSTEM

The vehicle will be equipped with an anti-lock braking system. The ABS will provide anti-lock braking control on both the front and rear wheels. It is to be a digitally controlled system that utilizes microprocessor technology to control the anti-lock braking system. Each wheel is to be monitored by the system. This anti-lock brake system will eliminate the lockup of any wheel.

The system will include Automatic Traction Control (ATC).

The system will include Electronic Stability Control (ESC). When instability is detected, the ESC system will automatically apply brakes to individual wheels (with no intervention from the driver) and can also reduce engine torque to help keep the vehicle on track.

FRONT BRAKES

The front brakes will be S-Cam, 16.50" x 6.00".

ENGINE BRAKE

An International Diamond Logic electronically activated compression/exhaust brake will be installed with the control located on the instrument panel within easy reach of the driver.

AIR COMPRESSOR, BRAKE SYSTEM

The air compressor will be a Bendix TU-FLO 550 with 13.2 cubic feet per minute output.

AIR DRYER

A Bendix AD-IP air dryer with a heater will be provided.

AIR INLET

A single air inlet with male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female coupling will also be provided with the loose equipment.

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**Bidder
Complies**

Yes No

ENGINE

- Model: Maxx Force 9
- Number of Cylinders: Six (6)
- Bore and Stroke: 4.59" x 5.75"
- Displacement: 570 cubic inches
- Compression Ratio: 17.5:1
- Rated Brake Horsepower: 330 at 2000 rpm
- Peak Torque: 950 at 1200 rpm
- Governed rpm: 2200
- Turbocharger
- Charge Air Cooled
- Combustion System: Direct injection, electronically controlled

ENGINE ACCESSORIES

- Fan Clutch: Electric with nylon fan
- Air Cleaner: Dry type, with restriction indicator in cab
- Fuel Filters: Dual, with check valve
- Governor: Limiting speed type
- Lube Oil Cooler
- Lube Oil Filter: Full flow
- Starting Motor: 12-volt
- Oil Fill and Level Gauge
- Hand Operated, Reprime Pump

ENGINE INSTALLATION CERTIFICATION

A letter stating International approves of the engine installation will be provided with this proposal.

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**Bidder
Complies**

Yes No

RADIATOR

- Pressurized System, Tube, and Fin
- Deaeration Tank and Sight Glass
- Anti-Freeze Protection to -40 Degrees Celsius.

EXHAUST SYSTEM

The exhaust system will include a diesel particulate filter and a diesel oxidation catalyst to meet current EPA standards. The exhaust will terminate with a horizontal tailpipe and diffuser ahead of the passenger side rear wheels.

A heat deflector shield will be provided where the tail pipe is routed under any side compartmentation.

The exhaust system will be mounted in a manner that will afford the installation of a “Neederman” exhaust extraction system. The mounting components will be provided by the Fire Department for installation while the apparatus is being constructed.

ENGINE HEATER

A 1500 watt, 120 volt, immersion type engine heater will be installed with the AC power inlet and will be wired into the Kussmaul AC auto eject shoreline, located to the rear of the driver's door.

HIGH IDLE

A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation.

The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK To Engage High Idle".

COOLANT LINES

Premium rubber hose will be used for all engine coolant lines.

Hose clamps will be the "constant torque type" to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.

FUEL TANK

A 50-gallon fuel tank will be provided and mounted at the right-hand cab step. The tank will be constructed of welded steel.

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**Bidder
Complies**

Yes No

TRANSMISSION

An Allison, model 3000 EVS, electronic torque converting automatic transmission will be provided.

Two (2) PTO openings will be located at positions of 8 o'clock and 4 o'clock. In some configurations certain other components may block access to an available position.

A transmission temperature gauge or warning light will be installed on cab instrument panel.

TRANSMISSION SHIFT CONTROL

A push button shift module will be mounted to right of driver. Shift position indicator will be indirectly lit for after dark operation.

The transmission will be a 5 speed. The transmission ratio's will be 1st - 3.49 to 1.00, 2nd - 1.86 to 1.00, 3rd - 1.41 to 1.00, 4th - 1.00 to 1.00, 5th - 0.75 to 1.00, R - 5.03 to 1.00.

TRANSMISSION COOLER

A transmission oil cooler will be provided in the lower tank of the radiator.

DRIVELINE

Drivelines will have a heavy duty metal tube that is properly sized for the intended application. The shafts will have a splined slip joint.

STEERING

Steering will consist of a dual hydraulically driven Sheppard, Model M-100/M-80, steering system.

The steering column will have a tilt and telescoping steering wheel.

TIRES, FRONT

Front tires will be Bridgestone 315/80R22.50, 20-ply M843 with a siped tread.

WHEELS, FRONT

Wheels for the front axle will be 22.50" x 9.00" steel disc, ten (10)-hole pattern.

TIRES, REAR

Rear tires will be Bridgestone 12R22.50, VSS radial siped snow tread.

WHEELS, REAR

The rear wheels will be 22.50" x 8.25" steel disc with a ten (10)-hole pattern

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**Bidder
Complies**

Yes No

WHEEL CHOCKS & BRACKETS

NFPA 1901, 2009 edition, section 7.7.3.1 requires two or more wheel chocks mounted in readily accessible locations that together will hold the apparatus, when loaded to its GVWR or GCWR, on a hard surface with a 20 percent grade with the transmission in neutral and the parking brake released.

The wheel chocks and brackets will be installed on the apparatus as manufactured. The fire department will provide the placement of these at the pre construction meeting.

MUD FLAPS

Mud flaps will be provided on the apparatus with the Manufacturers logo, these will be installed behind the rear wheels.

WHEEL COVERS

Real Wheels, American Road Series, stainless steel wheel covers with oval cut-outs, will be furnished on the front wheels.

WHEEL LINERS

Two (2) pair of Real Wheels, stainless steel wheel liners will be provided on the rear wheels including a full hub cover and chromed lug nut covers.

TIRE PRESSURE MANAGEMENT

There will be a VECSAFE LED tire alert pressure management system provided that will monitor each tire's pressure. A chrome plated brass sensor will be provided on the valve stem of each tire for a total of 10 tires.

The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 20 and 120 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 8 psi.

Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start blinking.

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**Bidder
Complies**

Yes No

CAB

Type: Conventional (engine forward)

Construction: Welded Steel and Fiberglass

Accessories:

- Tinted Glass in all Windows
- Black Rubber Floor mats
- Dual Sun-Visors
- Dome Light with Map Light
- Fresh Air Heater and Defroster
- Fiberglass Front End, Three (3) Piece Construction
- Hood Mounted Chrome Grille
- Long Life Halogen, Two Light System Headlights
- Daytime Running Lights
- Gray Vinyl Upholstery

CAB INTEGRITY

The cab has been tested to and passed the following standards:

- ECE Regulation No.29
- SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks.

DAYTIME RUNNING LIGHTS

The chassis will be provided with daytime running lights.

CAB ACCESS STEPS

The cab access steps will be provided by the apparatus manufacturer. The steps will be a two (2) step design fabricated from bright aluminum tread plate. The step assembly will enclose the area under the cab. The fuel tank fill cap will be exposed for refueling. Access will be provided to inspect the chassis batteries when located under the cab.

MIRRORS

Westcoast mirrors, with breakaway type brackets, integral convex, heated, thermostatically controlled, clearance lights, both sides remote controlled and black finish, will be provided.

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**Bidder
Complies**

Yes No

BUMPER

A full-width, aerodynamic, painted steel bumper, will be attached to the front of the chassis frame. The bumper thickness will be .142".

BUMPER GAP

The standard bumper furnished with the chassis will be used.

TOW HOOKS

Two (2) painted, forged steel tow hooks will be provided.

SEATING

Seating inside the cab will consist of an air-suspension driver seat and a non-suspension officer seat.

SEAT BELT WEB LENGTH

The chassis seat belt web length as supplied by the commercial chassis manufacturer will be compliant to NFPA 14.1.3.2 and 14.1.3.3.

SEAT BELTS

All seating positions in the cab and crew cab will have red seat belts.

SEAT BELT MONITORING SYSTEM

A seat belt monitoring system (SBMS) will be provided. The SBMS will be capable of monitoring up to ten (10) seat positions indicating the status of each seat position with a green or red LED indicator as follows:

Driver Seat:

Seat Occupied Buckled Green

No Occupant Unbuckled Not Illuminated

The driver seat will not include an occupant sensor. The display indication for the driver seat will illuminate red any time the parking brake is released and the driver seat belt is not buckled.

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**Bidder
Complies**

Yes No

All Other Seats:

Seat Occupied Buckled Green

Seat Occupied Unbuckled Red

No Occupant Buckled Red

No Occupant Unbuckled Not Illuminated

Alarm: The SBMS will include an audible alarm that will be activated when a red illumination condition exists and the parking brake is released, or a red illumination condition exists and the transmission is not in park.

HELMET HOLDER

There will be two (2) helmet holder bracket(s) provided in the cab cable of holding a Carins 880 fire helmet. The brackets will provide quick access and secure storage of the helmet(s). The bracket location(s) will be determined at time of final inspection.

ENGINE COMPARTMENT LIGHTS

Two (2) engine compartment lights will be installed under the engine hood, of which the switches are an integral part.

STEP LIGHTS

There will be three (3) clear LED step lights provided. There will be one (1) light installed at each cab door, and one (1) light at the driver's side doorstep.

The lights will be activated when the adjacent door is opened.

AIR CONDITIONING

International Blend-Air with integral heater and defroster will be provided.

The system will deliver a 12,000 BTU/hour in the air conditioning mode when tested per SAE J1484 with inlet air conditions of 27 degrees C. dry bulb and 20 degrees C. wet bulb.

The system includes Hydrofluorocarbon HFC-134A refrigerant.

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**Bidder
Complies**

Yes No

CAB INSTRUMENTS

- Engine Temperature Gauge and Warning Buzzer
- Engine Oil Pressure Gauge and Warning Buzzer
- Speedometer with Odometer
- Engine Tachometer
- Engine Hourmeter
- Fuel Level Gauge
- Voltmeter: Low voltage red warning light and audible alarm
- Air Brake Pressure Gauge
- Air Restriction Indicator
- Circuit Breakers: For overload protection of electric circuits
- Ignition Switch: Keyless type

EMERGENCY SWITCH PANEL

An emergency switch panel will be provided in the cab.

WIPER CONTROL

Wiper control will include an intermittent feature and windshield washer controls.

VEHICLE DATA RECORDER

A vehicle data recorder (VDR) will be provided. The VDR will be capable of reading and storing vehicle information. The VDR will be capable of operating in a voltage range from 8VDC to 16VDC. The VDR will not interfere with, suspend, or delay any communications that may exist on the CAN data link during the power up, initialization, runtime, or power down sequence. The VDR will continue operation upon termination of power or at voltages below 8VDC for a minimum of 10ms.

The information stored on the VDR can be downloaded through a USB port mounted in a convent location determined by cab model. A CD provided with the apparatus will include the programming to download the information from the VDR. A USB cable can be used to connect the VDR to a laptop to retrieve required information.

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**Bidder
Complies**

Yes No

The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:

- Vehicle Speed - MPH
- Acceleration - MPH/sec
- Deceleration - MPH/sec
- Engine Speed - RPM
- Engine Throttle Position - % of Full Throttle
- ABS Event- On/Off
- Seat Occupied Status - Yes/No by Position (1-6 Seating Capacity)
- Seat Belt Buckled Status - Yes/No by Position (1-6 Seating Capacity)
- Master Optical Warning Device Switch - On/Off
- Time - 24 Hour Time
- Date - Year/Month/Day

BATTERY SYSTEM

A single starting battery system will be provided consisting of three (3) 12 volt, 650 CCA, maintenance-free, group 31 batteries.

The batteries system will have a total of 1950 CCA with a minimum reserve capacity of 540 minutes.

MASTER BATTERY SWITCH

A master battery switch, to activate the battery system, will be provided inside the cab within easy reach of the driver.

The master battery disconnect switch will be wired between the starter solenoid and the remainder of the electrical loads on the apparatus.

A green “battery on” indicator light, visible from the driver’s position, will be provided.

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**Bidder
Complies**

Yes No

BATTERY CHARGER

A Kussmaul Autocharge 1000, model 091-56-12 battery charger with internal battery saver will be provided. A bar graph display indicating the state of charge will be included.

The battery saver circuit will be capable of supplying up to three (3) amps for external loads such as flashlight or auxiliary radio batteries.

The battery charger will be wired to the AC shoreline inlet through an AC receptacle adjacent to this battery charger.

Battery charger will be located in the cab behind the driver seat

The battery charger indicator will be located on the driver's seat riser.

ALTERNATOR

The alternator will be a 12V, 320 Amp, Leece Neville pad mount alternator.

VHF RADIO INSTALLATION

The Manufacturer will install two (2) VHF radios complete with two (2) antenna supplied by the Fire Department. The location of the radios and antenna will be determined by the Fire Department at the pre-construction meeting.

A breaker rated for 30 amps will be provided for circuit protection of the battery switched lead with a minimum of 10 gauge wire. The ignition lead is for sensing purposes only.

ELECTRONIC LOAD MANAGEMENT

Included with the chassis manufacturer's multiplexed electrical system will be a programmable load management system.

This system will monitor the vehicle's 12-volt electrical system, and automatically reduce the electrical load in the event of a low voltage condition and by doing so, ensures the integrity of the electrical system.

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**Bidder
Complies**

Yes No

AMP DRAW REPORT

The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system.

The manufacturer of the apparatus will provide the following:

- 1) Documentation of the electrical system performance tests.
- 2) A written load analysis, which will include the following:
 - A) The nameplate rating of the alternator.
 - B) The alternator rating under the conditions specified per:

Applicable NFPA 1901 or 1906 (Current Edition).

- C) The minimum continuous load of each component that is specified per:

Applicable NFPA 1901 or 1906 (Current Edition).

- D) Additional loads that, when added to the minimum continuous load, determine the total connected load.

- E) Each individual intermittent load.

All of the above listed items will be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).

EXTERIOR LIGHTING

Exterior lighting will meet or exceed Federal Department of Transportation, Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at this time.

Front headlights will be halogen type and comply to all FMVSS requirements.

Five (5) LED clearance/marker lights will be installed across the leading edge of the cab.

WARNING LIGHTS

A pair of surface mounted LED flashing lights will be provided on the grille.

The color of these lights will be red.

A switch will be provided inside the cab on the switch panel for actuation.

These lights will be installed with a plastic, chrome-plated flange.

BACK-UP ALARM

A solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum five (5) dBA above surrounding environmental noise levels.

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**Bidder
Complies**

Yes No

MANUAL, BODY PARTS ONLY

Two (2) custom parts manuals for the installed parts only will be provided in hard copy with the completed unit.

The manual will contain the following:

- Job number
- Part numbers with full descriptions
- Table of contents
- Parts section sorted in functional groups reflecting a major system, component, or assembly
- Parts section sorted in Alphabetical order
- Instructions on how to locate a part

The manual will be specifically written for the body model being purchased. It will not be a generic manual for a multitude of different bodies.

SERVICE PARTS INTERNET SITE

The service parts information included in this manual are also available on a website. The website shall offer additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

MANUALS, SERVICE

Two (2) service manual supplements containing parts and service information on installed components will be provided with the completed unit.

The manual will be specifically written for the unit being purchased. It will not be a generic manual for a multitude of different units.

MANUAL, CHASSIS OPERATION

One (1) chassis operation manual will be provided with the completed unit.

ELECTRICAL WIRING DIAGRAMS

Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.

YORKTON 2 1/2" TREAD SPECIFICATIONS

All 2 1/2" threads specified in this proposal will be 7 1/2 TPI x 3 1/8" with a 3/8" lip NO EXCEPTIONS. Should a 2 1/2" thread be the wrong size all costs associated with changing it to the proper thread size will be at the expense of the supplier.

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**Bidder
Complies**

Yes No

WATER TANK

The tank will have a minimum capacity of 3000 U.S. (2500 Imperial) gallons complete with a **lifetime** warranty. The tank will be of a specified configuration and designed to be completely independent of the compartment and/or fender modules. When placed on the chassis, the tank will meet or exceed all federal DOT regulations regarding weight distribution, axle loading and horizontal and vertical center of gravity locations. The tank manufacturer will mark the tank with the manufacturers' name, date of manufacture, and serial number. The tank manufacturer will furnish notice that indicates proof of warranty.

The tank will be constructed using a virgin polypropylene sheet with a minimum thickness of 0.50". This material will be a high impact copolymer (HIC), non-corrosive, stress relieved thermoplastic, UV stabilized for maximum protection.

All joints and seams will be nitrogen welded and tested for maximum strength and integrity. All swash partitions will interlock and be welded to each other as well as to the walls of the tank.

The tank will incorporate a manual fill tower with a 10.00" combination vent/overflow pipe. The fill tower will be constructed of polypropylene and will be large enough to provide filling by means of a conventional 2.50" hose nozzle. The tower will be located near the center of the tank to minimize water surge during vehicle operation. The tower will have a removable polypropylene screen and a polypropylene hinged cover. The vent/overflow pipe will run through the tank and exit through the floor of the tank behind the rear axle.

The sides of the tank will be painted to match the remainder of the unit.

PORTABLE TANK COMPARTMENT

A portable tank compartment, integral with the tank construction, will be installed through the center of the water tank. There will be a horizontally hinged door at the rear of the compartment to allow for removal of the portable tank. The compartment will be designed to carry a 3500 gallon Floating-Tank brand portable tank.

TANK OVERFLOW/VENT

A 10.00" tube will be installed through the shell of the tank. This tube will function as an overflow to discharge water to the ground once the tank is filled to capacity. It will also function as a vent to allow air to enter the tank when water is being dumped or pumped from the tank.

The tube will be positioned to drain at the bottom of the truck near the center, behind the rear axle.

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**Bidder
Complies**

Yes No

REAR TANK FILL

A 5.00" gated external tank fill with a Stortz connection and cap will be installed and properly labeled at the rear of the water tank, located driver's side.

Piping, for the fill, will be routed through the rear wall of the tank and include a flow deflector to break up the stream of water entering the water tank.

A 5.00" full flow butterfly valve with 5.00" piping will be located at the inlet.

REAR TANK DUMP VALVE

One (1) 10.00" butterfly style tank dump valve will be installed at the rear of the tank. The valve will be actuated manually at the valve.

A 90 degree dump chute will be provided. The chute will rotate from the driver's side to the passenger side and will be capable of dumping water from both sides and the rear. A manual extension chute will be incorporated into this design which will allow the chute to extend past the side of the body for dumping.

This dump system will be designed so that it will not need to be removed for storage. The design will include a chute support which will allow it to be in the driver's or passenger's side storage position while in transport.

REAR BUMPER

An aluminum channel will be installed at the rear for a bumper.

TOW EYES

Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the chassis frame rails. The inner and outer edges of the tow eyes will have a radius.

COMPARTMENTATION

Compartments will be fabricated of aluminum treadplate. Drip protection will be provided above the doors by means of an aluminum extrusion designed into the door opening.

All screws and bolts which protrude into a compartment will have acorn nuts on the ends to prevent injury.

AGGRESSIVE WALKING SURFACE

All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.

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**Bidder
Complies**

Yes No

COMPARTMENTATION, DRIVER'S SIDE

One (1) compartment constructed of bright aluminum treadplate will be provided in the area ahead of the rear wheels. The interior dimensions of the compartment will be 36.5" wide x 26.5" high x 26" deep. The clear door opening of the compartment will be 34.25" wide x 25" high.

One (1) compartment constructed of bright aluminum treadplate will be provided in the area behind the rear wheels. The interior dimensions of the compartment will be 20.75" wide x 26.5" high x 26" deep. The clear door opening of the compartment will be 18.5" wide x 26" high.

HARD SUCTION HOSE STORAGE

A storage area for one hard suction hose will be provided. This storage area will be integral with the water tank and will be accessible from the rear on the driver's side.

This storage area will be a poly tube with dimensions approximately 8.00" (inside diameter) x 129.00" in length. A square box at the rear of the storage tube with dimensions of approximately 12.00" x 12.00" square x 3.00" deep will be provided for accommodating the handles on the female end of the hose.

An aluminum treadplate door will be provided for retaining the hose.

COMPARTMENTATION, PASSENGER'S SIDE

One (1) compartment constructed of bright aluminum treadplate will be provided in the area ahead of the rear wheels. The interior dimensions of the compartment will be 36.5" wide x 26.5" high x 26" deep. The clear door opening of the compartment will be 34.25" wide x 25" high.

One (1) compartment constructed of bright aluminum treadplate will be provided in the area behind the rear wheels. The interior dimensions of the compartment will be 20.75" wide x 26.5" high x 26" deep. The clear door opening of the compartment will be 18.5" wide x 26" high.

HARD SUCTION HOSE STORAGE

A storage area for one hard suction hose will be provided. This storage area will be integral with the water tank and will be accessible from the rear on the passenger's side.

This storage area will be a poly tube with dimensions approximately 8.00" (inside diameter) x 129.00" in length. A square box at the rear of the storage tube with dimensions of approximately 12.00" x 12.00" square x 3.00" deep will be provided for accommodating the handles on the female end of the hose.

An aluminum treadplate door will be provided for retaining the hose.

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**Bidder
Complies**

Yes No

DOORS, SIDE COMPARTMENT

All hinged compartment doors will be double panel aluminum construction. The exterior surface of the door will be bright finish aluminum treadplate, and the pan will be smooth, unpainted aluminum.

The door opening will have a closed cell rubber gasket to ensure a weather resisting compartment.

All compartment doors will have polished stainless steel continuous hinge with a pin diameter of 0.1875".

Doors will be latched with recessed, polished stainless steel "D" ring handle latch.

BODY FENDERS

A set of fenders constructed from bright aluminum treadplate will be provided over the rear wheels on each side of the truck.

HARD SUCTION HOSE

Two (2) lengths of 4.00" clear corrugated PVC hard suction hose, 10' in length, will be provided. The hose will be equipped with a long handle female coupling on one (1) end and a rocker lug male coupling on the other end. Couplings will be hard coated aluminum.

PIKE POLE 6 FT,

NFPA 1901, 2009 edition, Section 7.7.3.1 requires one (1) 6 ft pike pole or plaster hook mounted in a bracket fastened to the apparatus.

The pike pole is not on the apparatus as manufactured. The dealer will provide and mount the pike pole.

PUMP

A power takeoff driven Darley HM single (1) stage pump with a rating of 500 gallons per minute at 150 psi will be provided.

The completed pump system will achieve the following performance ratings:

500 GPM @ 150 psi

500 GPM @ 165 psi

350 GPM @ 200 psi

250 GPM @ 250 psi

The pump will be placed in gear from the chassis cab. The pump shift position will be clearly labeled.

The pump casing will be a vertically split design constructed of alloy cast iron. The volute will be designed to hydraulically neutralize radial thrust.

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**Bidder
Complies**

Yes No

The impeller will be constructed of high strength bronze alloy and will be accurately balanced and splined to the pump shaft for precision fit and durability.

The pump shaft will be stainless steel with a ceramic hard coating under the shaft.

MECHANICAL SEALS

Mechanical seals will be provided for the pump.

PUMP TRANSMISSION

A two gear transmission with helical gears and a 1.375" diameter splined shaft will be provided.

The water pump will be driven by a hot shift PTO located on the chassis transmission.

An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. Interlock system will be designed to allow the truck to be in motion while pumping.

PUMP SHIFT

A pump shift will be provided within easy reach of the driver for engagement of the PTO driven pump. The shift will include the indicator lights as mandated by NFPA. The pump shift control will be illuminated to meet NFPA requirements.

AUXILIARY COOLING SYSTEM

A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The pump casting will be designed to be used as a heat exchanger.

INTAKE RELIEF VALVE

A relief valve will be installed on the suction side of the pump preset at 125 psig.

Relief valve will have a working range of 50 psig to 250 psig.

Outlet will terminate below the frame rails with a 2.50" Yorkton hose thread adapter and will have a "do not cap" warning tag.

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**Bidder
Complies**

Yes No

PRESSURE CONTROLLER, AUTO CONTROL

An all electric pressure governor will be provided which is capable of automatically maintaining a desired preset discharge pressure, within a range of 0 to 400 psi. This system will not require a mechanical drive, oil, or air supply for a means of control. When operating in the pressure control mode, the system will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow, within the discharge capacities of the water pump and water supply.

A pressure transducer will be installed in the water discharge manifold on the pump. The transducer continuously monitors pump pressure sending a signal to the Electronic Control Module (ECM) which modulates fueling in order to maintain a set pressure, regardless of pump flow rate or engine speed (within engine operating capacities). There are no user serviceable items and no maintenance required on the Pressure Sensor Governor (PSG) system. The PSG system also eliminates the need for a discharge pressure relief valve.

The PSG can be used in two (2) modes of operation, rpm mode and pressure modes.

In the rpm mode, the governor can be activated after vehicle parking brake has been set. The rpm mode is similar in operation to PTO operation. When in this mode, the governor will maintain the set engine speed, regardless of engine load (within engine operation capabilities). When the PSG system is first activated, the governor automatically operates in the rpm mode. When in the rpm mode, each time the increase switch is pushed, the engine speed will increase by 25 rpm's. Each time the decrease switch is pushed, the engine speed will decrease by 25 rpm's. If the increase or decrease switch is pushed more than a 1/2 second the engine speed will ramp at a rate of 50 rpm.

In the pressure mode, the governor system can only operate after the fire pump has been engaged and the vehicle parking brake has been set. When in the pressure mode, the PSG monitors the pump pressure and varies engine speed to maintain a precise pump pressure.

A preset also allows a predetermined pressure or rpm to be set.

A pump cavitation protection feature is also provided which will return the engine to idle should the pump cavitate. Cavitation is sensed by the combination of pump pressure below 30 psi and engine speed above 2000 rpm for more than five (5) seconds.

The Electronic Auto Control (EAC) display panel will be located at the pump operator's panel. The EAC cooperates the PSG and displays engine temperature, oil pressure, engine rpm, pump intake, pump discharge, and voltage.

PRIMING PUMP

Priming pump will be a positive displacement vane type, electrically driven, and conforming to standards outlined in NFPA pamphlet #1901.

One (1) priming control will open the priming valve and start the priming motor.

Primer will be environmentally safe and self lubricating (oil less).

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**Bidder
Complies**

Yes No

PUMP MANUALS

Two (2) pump manuals from the pump manufacturer will be furnished with the apparatus. The manuals will cover pump operation, maintenance, and parts.

PLUMBING

All inlet and outlet plumbing, 3.00" and smaller, will be plumbed with either stainless steel pipe or synthetic rubber hose reinforced with high-tensile polyester braid. Small diameter secondary plumbing such as drain lines will be stainless steel, brass or hose.

Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings.

Plumbing manifold bodies will be ductile cast iron or stainless steel.

All lines to drain through either a master drain valve or will be equipped with individual drain valves. All individual drain lines for discharges will be extended with a hose to drain below the chassis frame.

All water carrying gauge lines will be of flexible polypropylene tubing.

MAIN PUMP INLETS

A 4.00" pump manifold inlet will be provided on the driver's side of the vehicle. The suction inlet will include removable die cast zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.

The main pump inlets will have National Standard Threads with a long handle chrome cap.

The cap will be designed to automatically relieve stored pressure in the line when disconnected.

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**Bidder
Complies**

Yes No

VALVES

All ball valves will be Akron Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve.

Valves will have a ten (10) year warranty.

INLET (Left side)

At the pump operator's position will be one (1) - 2.50" auxiliary suction, terminating in 2.50" Yorkton Hose Thread. The auxiliary suction will be provided with a strainer, chrome swivel and plug.

ADAPTER, INLET

One (1) adapter for the inlet will be furnished with a special thread adapter. These adapters will have 2.50" male NST threads converting to 2.50" female swivel with 2.5" Yorkton spec thread. A 2.50" plug will be provided to match the special threads.

INLET BLEEDER VALVE

A 0.75" bleeder valve will be provided for the side gated inlet. The valves will be a push/pull type knob for the control easily accessible.

TANK TO PUMP

The tank will be connected to the intake side of the pump with heavy-duty piping and a 4.00" butterfly valve with a handwheel control remotely located at the operator's position. The tank to pump line will run from the pump to the tank sump. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing.

A check valve will be provided to prevent the possibility of "back filling" the water tank.

TANK REFILL

A 2.00" combination tank refill and pump bypass line will be provided using a quarter-turn full flow ball valve, controlled from the pump operator's panel.

DISCHARGE OUTLETS (Left Side)

There will be two (2) discharge outlets with a 2.00" valve on the left side of the apparatus, terminating with a male 2.50" Yorkton hose thread adapter. The valve will be located on the plumbing within easy reach.

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**Bidder
Complies**

Yes No

DISCHARGE CAPS

Chrome plated, rocker lug, caps with chains will be furnished for all side discharge outlets.

OUTLET BLEEDER

A 0.75" bleeder valve with "push/pull" control will be provided for each outlet 1.50" or larger. Automatic drain valves may be provided with some outlets if deemed appropriate for the application.

ELBOWS, LEFT SIDE OUTLETS

The two (2) discharge outlets, located on the left side pump panel, will be furnished with a 2.50"(F) National Standard hose thread x 2.5" Yorkton spec thread, chrome plated, 45 degree elbow.

DISCHARGE OUTLET CONTROLS

The discharge outlets will incorporate a quarter-turn ball valve with the control located at the valve. The valve operating mechanism (handle) will indicate the position (open/closed) of the valve.

STORAGE TRAY

A hose storage tray to accommodate 200' of 2.50" hose will be provided.

Construction will consist of aluminum treadplate with a retainer to hold the hose in place.

The hose storage tray will be located at the rear, below the water tank, and extend the full-width of the vehicle.

CROSSLAY HOSE BEDS

Two crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200 feet of 1.75" double jacketed hose and will be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve.

The crosslay controls will be at the pump operator's position.

A removable tray will be provided for each crosslay to allow for easy repacking of hose.

CROSSLAY/SPEEDLAY HOSE RESTRAINT

An elastic netting will be provided across the top and on the ends of two (2) crosslay(s)/speedlay(s) to secure the hose during travel.

PUMP AND GAUGE PANEL

The pump and gauge panels will be constructed stainless steel.

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**Bidder
Complies**

Yes No

PUMP ACCESS

The pump and plumbing will be accessible from the driver's side of the truck. No panels will need to be removed.

Engine monitoring graduated LED indicators will be incorporated with the pressure controller.

PROTECTIVE ALUMINUM ENCLOSURE

An Aluminum enclosure around the plumbing, valves and gauges will be provided. This enclosure is intended to protect the plumbing, valves and gauges from road debris such as stones and pebbles. Access to the pump controls & gauges will be through vertically hinged, double doors. The doors will be fabricated from aluminum treadplate and secured with a D handle latch.

HEATER, PUMP COMPARTMENT

A hot water heater will be installed in the pump compartment area.

Controls for the heater will be located at the pump operator's panel.

Digital readouts for the Master Pump Pressure and Intake are included with the electric pressure governor

PRESSURE GAUGES

The individual "line" pressure gauges for the discharges will be interlube filled and manufactured by Class 1.

They will be a minimum of 2.50" in diameter and the dial will have white faces with black markings.

Gauges will have a pressure rating of 0-400 psi/kpa.

The individual pressure gauge will be installed as close to the outlet control as practical.

LIGHTING, PUMP CONTROLS

Illumination will be provided for controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus and the equipment provided on it. External illumination will be a minimum of five (5) foot-candles on the face of the device. Internal illumination will be a minimum of four (4) foot-lambert's.

Lights will be installed above the controls and gauges in a manner that will properly illuminate them. The lights are to be actuated with the parking brake.

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**Bidder
Complies**

Yes No

WATER LEVEL GAUGE

An electronic water level gauge will be provided on the operator's panel, that registers water level by means of five colored LED lights. The lights will be durable, ultra-bright five LED design viewable through 180 degrees. The water level indicators will be as follows:

- 100% = Green
- 75% = Yellow
- 50% = Yellow
- 25% = Yellow
- Refill = Red

The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty.

The level measurement will be based on the sensing of head pressure of the fluid in the tank.

The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

ELECTRICAL

All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run in loom or conduit where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment will be installed utilizing the following guidelines:

- (1) All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.
- (2) Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area is defined as any location outside of the cab or body.
- (3) Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.

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**Bidder
Complies**

Yes No

(4) Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).

(5) All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.

(6) All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal. All emergency light switches will be mounted on a separate panel installed in the cab. A master warning light switch and individual switches will be provided to allow preselection of emergency lights. The light switches will be "rocker" type with an internal indicator light to show when switch is energized. All switches will be properly identified and mounted in a removable panel for ease in servicing.

Identification of the switches will be done by either printing or etching on the switch panel. The switches and identification will be illuminated.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests will be recorded and provided to the purchaser at time of delivery.

REAR FMVSS LIGHTING

The rear FMVSS lights installed on the chassis by the chassis manufacturer will be relocated to the rear of the apparatus body. These lights will serve as the "stop", "tail" and "directional" lights.

The three (3) identification lights located at the rear will be installed per the following:

- As close as practical to the vertical Centerline.
- Centers spaced not less than six (6) inches or more than twelve (12) inches apart.
- Red in color.
- All at the same height.

The outside clearance lights located at the rear will be installed per the following:

- To indicate the overall width of the vehicle.
- At least one (1) each side of the vertical Centerline.
- All at the same height.
- As near the top as practical.
- To be visible from the rear and the side.

Per FMVSS 108 and CMVSS 108 requirements.

**City of Yorkton - Fire Protective Services
– 3000 Gallon Tanker**

**Bidder
Complies**

Yes No

"DO NOT MOVE APPARATUS" INDICATOR

A flashing red indicator light (located in the driving compartment) will be illuminated automatically per the current edition of NFPA. The light will be labeled "Do Not Move Apparatus If Light Is On".

OPEN DOOR INDICATOR LIGHT

A red "open door" indicator light will be provided inside the cab, in clear view of the driver, to warn of an open compartment door.

COMPARTMENT LIGHTING

6.00" diameter light/s will be provided in each enclosed compartment. Opening the compartment door will automatically turn compartment lighting on.

PERIMETER SCENE LIGHTS, CAB

There will be a grommet mount weatherproof light provided for each cab door. Lighting will be designed to provide illumination on areas under the driver and officer riding area exits, which will be activated automatically when the exit doors are opened and by the same means as the body perimeter lights.

The lighting will be capable of providing illumination at a minimum level of two (2) foot-candles on ground areas within 30.00" of the edge of the apparatus in areas which personnel climb in or out of the apparatus or descend from the apparatus to the ground level.

SCENE LIGHTS

There will be one (1) pair of rectangular halogen scene lights installed at the rear of the truck.

These lights will be mounted on a 13 degree angle.

They will be controlled by a switch in the cab.

PORTABLE HAND LIGHTS

NFPA 1901, 2009 edition, section 7.7.3.1 requires two portable hand lights mounted in brackets fastened to the apparatus. Location of these lights will be provided by the Fire Department at the pre-construction meeting.

ELECTRONIC SIREN

An electronic siren with noise canceling microphone will be provided. The siren head will be located in an accessible under dash position.

Siren will be actuated by a foot switch on the officer's side and by the horn button in the steering wheel. The driver will have the option to control the siren or the chassis horns from the horn button by means of a selector switch.

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**Bidder
Complies**

Yes No

SPEAKER

There will be one (1) 100-watt speaker provided that will be connected to the siren amplifier.
The speaker(s) will be mounted behind an opening in the front bumper on the passenger's side.

LIGHTBAR

One (1) 56" LED lightbar will be mounted on a bracket at the front of the tank.
This lightbar will include the following:
Four (4) red flashing forward facing LED modules.
Two (2) red flashing front corner LED modules.
Two (2) red flashing rear corner LED modules.
One (1) switch located in the cab on the switch panel will control this lightbar.
The lens color will be clear.

LIGHTBAR MOUNTING

A bracket will be supplied for mounting the lightbar. The bracket will be fastened to the top of the water tank and thus prevent the need to remove the chassis headliner.

SIDE ZONE LOWER LIGHTING

Four (4) flashing LED warning lights will be located in the following positions:
Two (2) lights, one (1) each side on the engine hood under 62.00".
The color of these lights will be red.
Two (2) lights, one each side behind the rear axles.
The color of these lights will be red each rear fender.
The above four (4) lights will be required to meet or exceed the lower level optical warning and optical power requirements of NFPA.
These lights will be controlled by a lighted switch on the cab instrument panel.
These lights will be installed in a plastic, chrome-plated flange.

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**Bidder
Complies**

Yes No

REAR ZONE LOWER LIGHTING

Two (2) flashing LED lights will be located at the rear of the apparatus.

The color of the lights will be red.

One (1) switch located in the cab on the switch panel will control these lights.

These lights will be installed in a plastic, chrome-plated flange

WARNING LIGHTS (Rear of Truck)

Two (2) warning lights will be provided at the rear of the truck, located one (1) on each side.

One (1) switch located in the cab on the switch panel will control these lights.

The color of the lights will be both domes red.

The rear warning lights will be mounted on aluminum treadplate brackets which will also support the clearance/marker lights.

KUSSMAUL AUTO EJECT FOR SHORELINE

An auto eject shoreline will be provided to operate the dedicated 120-volt circuits on the truck without the use of a generator.

It will be provided with a NEMA 5-15, 120 volt, 15 amp, straight blade Kussmaul auto eject plug and a red weatherproof cover. The cover is spring loaded to close, preventing water from entering when the shoreline is not connected.

A solenoid wired to the vehicle's starter is energized when the engine is started. This instantaneously drives the plug from the receptacle.

The shoreline will be connected to the Kussmaul battery charger and the engine heater.

A mating connector body will also be supplied with the loose equipment.

The shoreline receptacle will be located in the driver side lower step well of cab.

LOOSE EQUIPMENT

The following equipment will be furnished with the completed unit:

- One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.

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**Bidder
Complies**

Yes No

NFPA REQUIRED LOOSE EQUIPMENT

The following loose equipment as outlined in the current edition of NFPA 1901, sections 7.7.2.1, 7.7.2.2, and 7.7.3.1 will be supplied with the purchase of this apparatus. All loose equipment will be installed on the apparatus before placed in emergency service,

- 200 ft (60 m) of 2½" (65 mm) fire hose **YORKTON THREAD**
- 50 ft (15m) of 5" Hi-Volume hose with stortz couplings
- 400 ft (120 m) of 1¾" (45 mm), fire hose
- Two (2) 4.5" threaded (hydrant steamer port thread) to 5" stortz adaptors
- Two (2) TFT Mid-Force automatic nozzles, 70 to 200 gpm
- Two (2) MSA Firehawk SCBA, with extend aire, complying with NFPA 1981, *Standard on Open-Circuit Self-Contained Breathing Apparatus for Fire and Emergency Services*, mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.
- Two (2) spare MSA H30 SCBA cylinders, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s).
- One (1) first aid kit.
- Two (2) combination spanner wrenches mounted in a bracket(s) fastened to the apparatus.
- Two (2) hydrant wrench mounted in a bracket fastened to the apparatus.
- Two (2) double female adapter, sized to fit 2½" (65 mm) fire hose, mounted in a bracket fastened to the apparatus. **YORKTON THREAD**
- Two (2) double male adapter, sized to fit 2½" (65 mm) fire hose, mounted in a bracket fastened to the apparatus. **YORKTON THREAD**
- One (1) rubber mallet, for use on suction hose connections, mounted in a bracket fastened to the apparatus.
- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two at the shoulders, two at the sides, and one at the front.
- Five (5) fluorescent orange traffic cones not less than 28" (711 mm) in height, each equipped with a 6" (152 mm) retro-reflective white band no more than 4" (152 mm) from the top of the cone, and an additional 4" (102 mm) retro-reflective white band 2" (51 mm) below the 6" (152 mm) band. Traffic cones must have illuminating capabilities.
- One Life Pak 500 automatic external defibrillator (AED).

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**Bidder
Complies**

Yes No

- If the apparatus does not have a 2½” National Hose (NH) intake, an adapter from 2½” NH female to a pump intake will be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake. **YORKTON THREAD**

- If the supply hose carried has other than 2½” National Hose (NH) threads, adapters will be carried to allow feeding the supply hose from a 2½” NH thread male discharge and to allow the hose to connect to a 2½” NH female intake, mounted in brackets fastened to the apparatus if not already mounted directly to the discharge or intake. **YORKTON THREAD**

- One (1)- 4.50" National Standard hose thread barrel strainer, chrome plated

- One (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus.

- One (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus.

- One (1) flathead axe mounted in a bracket fastened to the apparatus.

PAINT

The exterior custom body painting finishing process as follows:

Manual Surface Preparation - All exposed metal surfaces on the custom body will be thoroughly cleaned and prepared for painting. Surfaces that will not be painted include all chrome plated, stainless steel, anodized aluminum and bright aluminum tread plate. Each imperfection on the exterior metal surface will be removed or filled and then sanded smooth for a smooth appearance. All seams will be sealed before painting.

Chemical Cleaning and Treatment - The metal surfaces will be properly cleaned using an acid etching system. Surfaces are chemically cleaned to remove all dirt, oil, grease and metal oxides to ensure the subsequent coatings bond well. An ultra pure water final rinse will be applied to all metal surfaces, excluding undercarriage components, at the conclusion of the metal treatment process.

Sealer Primer Coat - A two (2) component sealer primer coat will be applied.

Topcoat Paint - Urethane base coat will be applied to opacity for correct color matching.

Clearcoat - Two (2) coats of an automotive grade two (2) component urethane will be applied. Lap style doors will be clear coated to match the body. Roll-up doors will not be clear coated and the standard roll-up door warranty will apply.

All removable items such as brackets, compartment doors, door hinges, trim, etc. will be removed and painted separately to insure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly.

The chassis will be painted by the chassis manufacturer, and will remain the commercial grade finish as provided. To ensure a good color match between the body and chassis, the apparatus manufacturer and chassis manufacturer will have a mutually preapproved paint color program. The apparatus will be painted candy apple red, and the top portion of the cab will be painted white by the apparatus manufacturer. Actual colors to be determined by the Department

**City of Yorkton - Fire Protective Services
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**Bidder
Complies**

Yes No

Prior to reassembly and reinstallation of lights, handrails, door hardware and any miscellaneous body items, an isolation tape or gasket material must be used to prevent damage to the finish painted surfaces (no exceptions). A nylon washer will be installed under each acorn nut or metal screw that is fastened directly to a painted body surface.

PAINT - ENVIRONMENTAL IMPACT

Contractor will meet or exceed all the current Provincial or Federal regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions:

- Topcoats and primers must be chrome and lead free.
- Metal treatment chemicals must be chrome free. The wastewater generated in the metal treatment process must be treated to remove any other heavy metals.
- Particulate emissions from painting operations must be collected by a dry filter or water wash process.
 - Solvents used in clean-up operations must be collected, sent off-site for distillation and returned for reuse.

Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that their manufacturing facility meets the above conditions and that it is in compliance with his Provincial or Federal environmental rules and regulations.

PAINT CHASSIS FRAME ASSEMBLY

The chassis frame assembly will remain the color and paint quality as received from the chassis manufacturer. The frame and components will not be repainted.

Components that are considered part of the "frame assembly" are frame rails, cross members, axles, suspension, steering gear and the fuel tank.

PAINT, COMPARTMENT INTERIOR

Interior of compartmentation shall be painted with gray spatter type paint.

REFLECTIVE STRIPES

Five (5) reflective vinyl stripes shall be provided across the front of the vehicle and along the sides of the body. The reflective band shall consist of a 1.50" white stripe at the top, a 1.00" red stripe, then a 5.00" white stripe, a 1.00" red stripe, and a 1.50" white stripe on the bottom.

The reflective vinyl band will be provided across the front bumper.

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**Bidder
Complies**

Yes No

CHEVRON/INVERTED "V" STRIPING ON REAR TANK

There shall be alternating chevron striping located on the rear wall of the apparatus.

The striping shall be reflective and consist of the following colors:

 The first color shall be yellow

 The second color shall be ruby red

The size of the striping shall be 6.00" and will meet the requirements of NFPA 1901, 2009 edition.

REFLECTIVE STRIPE, CAB DOORS

A 6.00" x 16.00" white reflective stripe shall be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel.

This stripe shall meet the NFPA 1901 requirement.

REFLECTIVE STRIPE, CAB DOORS

A white reflective stripe will be provided on the interior of each cab door.

This stripe will be a minimum of 96 in sq and will meet the NFPA 1901 requirement.

LETTERING CAB DOOR

The following shall be provided on each cab door and will be done with 3.00" high reflective white lettering with black reflective outlining:

YORKTON (half moon)

FIRE (centered straight line)

DEPARTMENT (centered straight line)

ADDITIONAL DECALS

The Manufacture will supply the following decals at no extra cost to the City of Yorkton

- The Canadian Flag, to be located on both sides of the upper portion of the cab just behind the cab doors, the Flag will be red reflective vinyl, and the exact location will be determined at the pre-construction meeting
- T11F, to be located just over the fuel tank on both sides, the decals will be white reflective vinyl, and the exact location will be determined at the pre-construction meeting
- 911 with Phone Handle, to be located on the rear of the water tank on both sides, the decals will be white reflective vinyl, and the exact location will be determined at the pre-construction meeting

**City of Yorkton - Fire Protective Services
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**Bidder
Complies**

Yes

No

The Yorkton Fire Department will provide the following decals to the Manufacturer for installation at the plant:

- City of Yorkton decal, to be located on the forward part of the tank, the exact location to be determined at the pre-construction meeting.
- Fire Protective Services decal, to be located on the forward part of the tank incorporated in the 10.00” reflective stripe, the exact location to be determined at the pre-construction meeting.

LETTERING/NUMERALS ON CAB GRILLE

The number and letter “T1” as determined by the fire department shall be provided on the cab grille in red reflective vinyl.

PRE-CONSTRUCTION AND DELIVERY

At the expense of the manufacturer(s), representatives from each of the involved manufactures (Chassis – Body – Tank) shall meet with representatives from the Fire Department at the Yorkton Fire Department prior to production of the apparatus (pre-construction meeting)

Then Prior to delivery, and at the expense of the manufacturer, two representatives of the Fire Department shall meet with factory representatives at the factory of the successful bidder.

CERTIFICATION

The undersigned, having carefully read and understood the "Instructions to Proponents", "Conditions", "Specifications", and having completed the information sheet, herewith agrees to supply one 3000 gallon tandem axle water tanker fire truck and to fulfill all terms of this proposal for the following consideration.

Quotation as per Specifications for Model	\$ _____
Plus Provincial Tax	\$ _____
Plus G.S.T. Tax	\$ _____
Sub Total	\$ _____
Net Cost to the City of Delivered Unit	\$ _____

NOTE: Any item not specifically called for but known to the supplier, as being required for **complete** and **safe** operation of the unit is to be brought to the attention of the Fire Chief when bidding, complete with prices and explanation, otherwise it is assumed that the items will be supplied with the apparatus.

All warranties to commence from date of entry into City of Yorkton service.

Guaranteed delivery to be made within ____ days after receipt of order.

Lowest or any proposal not necessarily accepted.

SIGNED THIS _____ DAY OF _____ A.D., 2010.

COMPANY

TELEPHONE NO.

TITLE

ADDRESS

SIGNATURE (Company Official)

POSTAL CODE

WITNESS

DATE

CORPORATE
SEAL