



# Fire Engine / Pumper Truck

## Invitation for Bids # FI-16-01

General Information		
Project Cost Estimate	Not Applicable	Not Applicable
Evaluation of Proposals	Staff	See Section 1.19
Mandatory Pre-Bid Meeting	Not Applicable	Not Applicable
Question Due Date	January 30, 2017	See Section 1.20
Proposals will be accepted until	2:00 p.m. on February 14, 2017	See Section 1.20
Proposal Security / Bid Bond	Not Applicable	Not Applicable
Payment and Performance Bonds	Not Applicable	Not Applicable

THE CITY OF PEMBROKE PINES  
PURCHASING DIVISION  
8300 SOUTH PALM DRIVE  
PEMBROKE PINES, FLORIDA 33025  
(954) 518-9020



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#### ATTACHMENTS

Attachment A: Contact Information Form

Attachment B: Vendor Information Form and a W-9

Attachment C: Non-Collusive Affidavit

Attachment D: Sworn Statement on Public Entity Crimes Form

Attachment E: Local Vendor Preference Certification

Attachment F: Veteran Owned Small Business Preference Certification

Attachment G: Equal Benefits Certification Form

Attachment H: Proposer’s Qualification Statement

Attachment I: Sample Insurance Certificate

Attachment J: Specimen Contract

Attachment K: Reference Form



## **SECTION 1 – INSTRUCTIONS**

### **1.1 NOTICE**

Notice is hereby given that the City Commission of the City of Pembroke Pines is seeking sealed proposals for:

#### **IFB # FI-16-01 Fire Engine/Pumper Truck**

Solicitations may be obtained from the City of Pembroke Pines website at <http://www.ppines.com/index.aspx?NID=667> and on the [www.BidSync.com](http://www.BidSync.com) website.

If you have any problems downloading the solicitation, please contact the BidSync Support line at 1-800-990-9339.

If additional information help is needed with downloading the solicitation package please contact the Purchasing Office at (954) 518-9020 or by email at [purchasing@ppines.com](mailto:purchasing@ppines.com). The Purchasing Office hours are between 7:00 a.m. - 6:00 p.m. on Monday through Thursday and is located at 8300 South Palm Drive, Pembroke Pines, Florida 33025.

The City requires all questions relating to the solicitation be entered through the “Ask a Question” option tab available on the BidSync website. Responses to the questions will be provided online at [www.bidsync.com](http://www.bidsync.com). Such request must be received by the “Question Due Date” stated in the solicitation. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

**Proposals will be accepted until 2:00 p.m., Tuesday, February 14, 2017.** Proposals must be **submitted electronically at [www.BidSync.com](http://www.BidSync.com)**. The sealed electronic proposals will be publicly opened at 2:30 p.m. by the City Clerk’s Office, in the City Hall Administration Building, 3<sup>rd</sup> Floor Conference Room located at 10100 Pines Boulevard, Pembroke Pines, Florida, 33026.

### **1.2 PURPOSE**

The City of Pembroke Pines is seeking proposals to provide the Fire Department with a Fire Engine / Pumper Truck that will meet their needs.

### **1.3 GENERAL INFORMATION**

- a. The proposal form shall include a Pre-Payment Discount Option
- b. The proposal form shall include a Trade-In Option for a 1997 E-ONE Hush with 61,000 miles and 1,900 hours. (Vehicle # 7757)



- c. The awarded proposer shall allow two trips for four people to the plant; one trip for a pre-build meeting and the other trip for final inspection.

### **1.3.1 DELIVERY**

The completed apparatus shall be driven under it's own power to the fire department. An operational demonstration shall also be provided at the time of delivery.

### **1.3.2 WARRANTIES**

The following warranties shall be supplied:

1. The apparatus shall be warranted to be free from mechanical defects in workmanship for a period of one (1) year. The apparatus shall be covered for parts and labor costs associated with repairs for a period one (1) year.
2. Life-time warranty on the frame.
3. Seven (7) year warranty on paint.
4. Ten (10) body structural warranty
5. Ten (10) year cab structural warranty
6. Manufacturers Warranties for all major components.

Detailed warranty documents shall be included for complete coverage on each of these warranties.

### **1.3.3 MANUFACTURING & LOCATIONS**

The apparatus will be manufactured in facilities wholly owned and operated by the company. A complete stock of service parts, and service shall be provided on a 24 hours around the clock basis. The company shall maintain parts and service for a minimum period of twenty (20) years on each apparatus model manufactured.

## **1.4 SPECIFICATIONS**

### **1.4.1 INTENT OF SPECIFICATIONS**

It is the intent of these specifications to cover the furnishing and delivery to the purchaser a complete apparatus equipped as hereinafter specified. With a view of obtaining the best results and the most acceptable apparatus for service in the fire department, these specifications cover only the general requirements as to the type of construction and tests to which the apparatus must conform, together with certain details as to finish, equipment and appliances with which the successful bidder must conform. Minor details of construction and materials where not otherwise specified are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features. The apparatus shall conform to the requirements of the current (at the time of bid) National Fire Protection Association Pamphlet #1901 for Motor Fire Apparatus unless otherwise specified in these specifications.



Bids shall only be considered from companies which have an established reputation in the field of fire apparatus construction and have been in business for a minimum of ten (10) years.

Each bid shall be accompanied by a set of "Contractor's Specifications" consisting of a detailed description of the apparatus and equipment proposed and to which the apparatus furnished under contract must conform. Computer run-off sheets are not acceptable as descriptive literature.

The specifications shall indicate size, type, model and make of all component parts and equipment.

#### **1.4.2 STATEMENT OF EXCEPTIONS TO NFPA 1901**

If, at the time of delivery, the apparatus manufacturer is not in compliance, a statement of exceptions must be provided as follows:

The specific standard affected. A statement describing why the manufacturer is not in compliance. A description of the remedy, and who the responsible party is.

The document must be signed by an officer of the company, and an authorized agent of the purchaser.

#### **1.4.3 QUALITY AND WORKMANSHIP**

The design of the apparatus must embody the latest approved automotive engineering practices.

The workmanship must be the highest quality in its respective field. Special consideration shall be given to the following points: Accessibility to various areas requiring periodic maintenance, ease of operation (including both pumping and driving) and symmetrical proportions.

Construction must be rugged and ample safety factors must be provided to carry loads as specified and to meet both on and off road requirements and speed as set forth under "Performance Test and Requirements."

#### **1.4.4 PERFORMANCE TESTS AND REQUIREMENTS**

A road test shall be documented with the apparatus fully loaded and a continuous run of ten (10) miles or more shall be made under all driving conditions, during which time the apparatus shall show no loss of power or overheating. The transmission drive shaft or shafts, and rear axles shall run quietly and free from abnormal vibration or noise throughout the operating range of the apparatus. The apparatus, when loaded, shall be approximately 66% on the rear axle. The successful bidder shall furnish a weight



certification showing weight on the front and rear axle, and the total weight of the completed apparatus at the time of delivery.

- a. The apparatus must be capable of accelerating to 30 MPH from a standing start within 25 seconds on a level concrete highway without exceeding the maximum governed engine RPM.
- b. The service brakes shall be capable of stopping the fully loaded vehicle within 35 feet from a speed of 25 MPH on a level concrete highway.
- c. The apparatus, fully loaded, shall be capable of obtaining a speed of 50 MPH on a level highway with the engine not exceeding 95% of its governed RPM (full load).
- d. The apparatus shall be tested and approved by a qualified testing agency in accordance with their standard practices for pumping engines.
- e. The contractor shall furnish copies of the Pump Manufacturer's Certification of Hydrostatic Test (if applicable), the Engine Manufacturer's current Certified Brake Horsepower Curve and the Manufacturer's Record of Construction Details.

#### **1.4.5 FAILURE TO MEET TESTS**

In the event the apparatus fails to meet the test requirements of these specifications on the first trial, a second trial may be made at the option of the bidder within thirty (30) days of the date of the first trials. Such trials shall be final and conclusive and failure to comply with these requirements shall be cause for rejection. Permission to keep and/or store the apparatus in any building owned or occupied by the purchaser shall not constitute acceptance of same.

#### **1.4.6 EXCEPTIONS TO SPECIFICATIONS**

The following specifications shall be strictly adhered to. Exceptions shall be considered if they are deemed equal to or superior to the specifications, provided they are fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS." Exceptions shall be listed by page and paragraph.

Failure to denote exceptions in the above manner may result in immediate rejection of the proposal. In addition a general statement taking "TOTAL EXCEPTION" to the specifications shall result in immediate rejection of bid.

#### **1.4.7 GENERAL CONSTRUCTION**

The apparatus shall be designed and the equipment mounted with due consideration to distribution of load between the front and rear axles so that all specified equipment, including filled water tank, a full complement of personnel and fire hose shall be carried without injury to the apparatus. Weight balance and distribution shall be in accordance with the recommendations of the International Association of Fire Chiefs and National Fire Association (or American Insurance Association). Certified Laboratories certificate





shall be submitted by the manufacturer. Weight of apparatus shall meet all federal axle load laws.

#### **1.4.8 DELIVERY REQUIREMENTS**

The apparatus shall be completely equipped as per these specifications upon arrival and on completion of the required tests shall be ready for immediate service in the fire department of the purchaser. Any and all alterations required at the scene of delivery to comply with these specifications must be done at the contractor's expense.

#### **1.4.9 U.S.A. MANUFACTURER**

The entire apparatus shall be assembled within the borders of the Continental United States to insure more readily available parts (without added costs and delays caused by tariffs and customs) and service, as well as protecting the purchaser should legal action ever be required.

#### **1.4.10 MANUFACTURER'S EXPERIENCE**

- a. Each manufacturer shall have been in business making similar apparatus for a minimum of forty-five (45) years.
- b. Pembroke Pines Fire Rescue will not accept any "prototype" apparatus.
- c. The manufacturer must have built at least thirty (30) of similar units in the last five years.
- d. The manufacturer must provide a list of at least five (5) departments in Florida with similar units.
- e. The manufacturer must have a licensed Full Service Center in Florida, preferably within Broward County and within (2.5) hours from the City of Pembroke Pines.
- f. The service center must have mobile warranty service provided from the main service center.

#### **1.4.11 ELIMINATION OF DIVIDED RESPONSIBILITY**

It is required that each bidder produce both the chassis and complete apparatus. To eliminate divided responsibility and service, the chassis and body must be manufactured by the same Company. Manufacturer shall state the number of years the Company has been producing their own chassis and body. Manufacturer shall state compliance with the paragraph. NO EXCEPTIONS.

#### **1.4.12 FAMA COMPLIANCE**

Manufacturer must be a current member of the Fire Apparatus Manufacturer's Association.



#### **1.4.13 FUTURE PURCHASES AND “TAG ON” ORDERS**

The successful bidder shall accept “tag on” orders to this bid proposal for a period not to exceed three (3) years from the bid opening date. The successful bidder shall honor the priced quoted for a period of 90 days from the date of the bid opening. For the remainder of the year (275 days), the bidder shall agree to an economic price escalation of 1.5%. Future years beyond the initial first year shall have an economic price escalation of 3% as a normal course of business. Items outside the normal course shall include changes legislated by Federal, State or Local Governments that impact the cost to manufacture the truck. In addition, changes to NFPA 1901 that require additional cost shall be borne by the purchaser. These may include, but are not limited to changes that affect the major vendors of the fire apparatus industry such as pump manufacturer, seat manufacturer, electrical power supplies (generators) and power-train (engine & transmission).

The bidder shall honor the “tag on” order from any municipality within the United States or Canada.

#### **1.4.14 CONFIGURATION OF “TAG ON” ORDERS**

In many cases the entity wishing to “tag on” to an existing order may require their apparatus to be configured differently from the original proposed apparatus. The bidder shall allow changes to the configuration within good engineering guidelines. The changes will be subject to current pricing in effect at the time of order. For example, a different engine may be required. This shall be considered a “change order” and the purchase price shall be adjusted up or down depending on the current option price.

### **1.5 WIRING SCHEMATIC**

A CD containing wiring diagrams of the apparatus shall be provided at the time of delivery.

### **1.6 CHASSIS SPECIFICATIONS**

#### **1.6.1 CUSTOM CHASSIS**

A Severe Duty Cab and Chassis system shall be provided. The chassis shall be manufactured in the factory of the bidder. The chassis shall be designed and manufactured for heavy duty service with adequate strength and capacity of all components for the intended load to be sustained and the type of service required. The cab and chassis system, shall be considered the bidders “Top of the Line”.

There shall be no divided responsibility in the production of the apparatus.



### **1.6.2 DOUBLE FRAME RAILS**

The chassis frame shall be of a ladder type design utilizing industry accepted engineering best practices. The frame shall be specifically designed for fire apparatus use.

Each frame rail shall be constructed of two .375" thick-formed channels. The outer channel shall be 10.188" x 3.50" x .375" and the inner channel (liner) shall be 9.31" x 3.13" x .375".

Over the entire length of the frame rail, the section modulus shall be 31.8 in.<sup>3</sup>. The resistance to bending moment (RBM) shall be 1,590,000 in./lbs.

The cross-members shall be constructed of minimum .375" formed channels and have formed gusseted ends at the frame rail attachment. Single axle rear suspensions will utilize 3 piece bolt assembled cross-members at each suspension hanger.

Each rail is media blasted to remove scale, oil, and contaminants. This blasting also ensures paint adhesion. Each rail will be primed with Cathacoat 302HB, a high performance, two component, reinforced inorganic zinc-rich primer with proven cathodic protection of steel structures, prior to assembly.

.625 inch, grade 8 flange, Huck bolt fasteners shall be used on all permanently attached brackets to the frame to eliminate the need for bolt re-tightening.

A lifetime warranty shall be provided, per manufacturer's written statement.

### **1.6.3 FRONT TOW EYES, BELOW BUMPER**

There shall be two front tow eyes with 3" diameter holes attached directly to the chassis frame, accessible below the front bumper.

### **1.6.4 TOW EYES, PAINTED FINISH**

The front tow eyes shall be painted to match the color of the chassis frame.

### **1.6.5 REAR TOW EYES**

There shall be two tow eyes attached directly to the chassis frame rail and shall be chromate acid etched for superior corrosion resistance and painted to match the chassis.

### **1.6.6 STEERING**

The steering system shall be a TRW wheel to wheel steering system that is tested and certified by TRW, consisting of a heavy duty TRW/Ross Model TAS-85 power steering gear, TRW PS36 steering pump, miter box, drag links, and a thermostatic controlled fan cooled system (set point 185 deg. F to 170 deg. F). The steering gear shall be bolted to



the frame at the cross-member for steering linkage rigidity. Four (4) turns from lock to lock with an 18" diameter slip resistant rubber covered steering wheel. Steering column shall have six-position tilt and 2" telescopic adjustment. The cramp angle shall be 45 degrees with 315mm tires or 43 degrees with 425mm tires providing very tight turning ability.

#### **1.6.7 DRIVELINE**

The driveline shall consist of Spicer 1710 series dual grease fitting universal joints with "Half-Round" end yokes. The drive shaft shall be built with a heavy-duty steel tube 4.095" outside diameter x .180 wall thickness. The shafts shall be dynamically balanced prior to installation into the chassis. A splined slip joint shall be provided in each shaft assembly. Universal joints shall be extended life. There shall be two (2) Zerk fittings in each universal joint assembly so the joint can be greased without turning the shaft.

#### **1.6.8 FRONT AXLE**

A Meritor™ MFS-20-133A non-driving, front steer axle with a capacity 19,840 pounds or higher shall be provided. The axle shall have a 3.74" dropped I-beam, be 10 bolt hub piloted, and furnished with oil seals.

#### **1.6.9 SUSPENSION (FRONT)**

The front suspension shall be a variable rate taper-leaf design, 54" long and 4" wide. Long life, maintenance free, urethane bushed spring shackles shall be utilized. All spring and suspension mounting shall be attached directly to frame with high strength Huck bolts and self-locking round collars. Spring shackles and pins that require grease shall not be acceptable. Or Equal.

#### **1.6.10 ENHANCED FRONT SUSPENSION SYSTEM**

The front suspension shall have the handling, stability, and ride quality enhanced by the use of a Ride Tech auxiliary spring system and Koni high performance shock absorbers. This system shall utilize three stage, urethane auxiliary springs, and high performance gas filled shock absorbers to control the deflection of the leaf springs, and dampen vibration normally transmitted to the chassis. This maintenance free system will be custom tuned to the apparatus gross weight rating for maximum performance, while maintaining a soft compliant ride. Or Equal. A (3) three year 36,000 mile warranty will be provided by the manufacturer.

#### **1.6.11 FRONT TIRES**

Front tires shall be Goodyear 385/65R22.5, load range J, G296 highway tread, single tubeless type with a GAWR of 20,000 pounds. Wheels shall be disc type, hub piloted, 22.5 x 12.25 10 stud 11.25 bolt circle.



#### **1.6.12 REAR AXLE**

The rear axle shall be a Meritor™ RS-26-185 Single reduction drive axle with a capacity of 27,000 lbs. The axles shall be hub piloted, 10 studs, furnished with oil seals.

#### **1.6.13 TOP SPEED**

The top speed shall be approximately 68 MPH.

#### **1.6.14 SUSPENSION (REAR)**

##### **27,000 LB AIR RIDE**

A Hendrickson FIREMAAX model FMX272 air ride rear suspension shall be provided. The suspension shall be a dual air spring design equipped with dual height control valves to maintain proper ride height. To reduce axle stress and maintain axle position and pinion angle the suspension design shall incorporate three torque rods. The ground rating of the suspension shall be 27,000 pounds.

#### **1.6.15 REAR TIRES**

Rear tires shall be Goodyear 12R22.5, load range H, G661 highway tread, dual tubeless type with a GAWR up to 27,000 pounds. Wheels shall be disc type, hub piloted, 22.5 x 8.25 10 stud with 11.25" bolt circle.

#### **1.6.16 TIRE PRESSURE MONITOR**

A Real Wheels LED tire pressure sensor shall be provided for each wheel. The pressure sensor shall indicate if a particular tire is not properly inflated. A total of six (6) indicators shall be provided.

#### **1.6.17 WHEELS**

The front and rear wheels shall be ACCURIDE® brand aluminum.

#### **1.6.18 HUB COVERS**

Polished stainless steel hub covers shall be provided for the front and rear axle.

#### **1.6.19 LUG NUT CAPS**

Chrome plated lug nut caps shall be provided for the front and rear wheels.

#### **1.6.20 FRONT MUD FLAPS**

Hard rubber mud flaps shall be provided for front tires.



### **1.6.21 REAR MUD FLAPS**

Hard rubber mud flaps shall be provided for rear tires.

## **1.7 ENGINE SPECIFICATIONS**

### **1.7.1 ENGINE**

- a. Cummins Diesel ISL 9, 450 H.P. @ 2100 R.P.M., 1250 ft. lb. Torque @ 1400 R.P.M.
- b. Displacement: 8.9 liter displacement.
- c. Cylinders: 6
- d. Bore: 4.49" (114mm) Stroke: 5.69" (145mm)
- e. The engine shall have a five year or 100,000 mile warranty and approval by Cummins.
- f. Diesel for installation in the chassis.
- g. The engine shall be equipped with the following: Air cleaner
- h. Air compressor - 18.7 CFM
- i. Exhaust - single with discharge right side, ahead of rear wheels
- j. Primary & secondary fuel filters (remoted mounted) Lube oil cooler
- k. Lube oil filter - full flow
- l. Starting motor - 12 volt

### **1.7.2 EXHAUST SYSTEM**

The engine exhaust system shall include the following components:

- Diesel Particulate Filter (DPF)
- Diesel Oxidation Catalyst (DOC)
- Diesel Exhaust Fluid (DEF)
- Selective Catalytic Reduction Filter (SCR)

The SCR catalyst utilizes the DEF fluid, which consists of urea and purified water, to convert NOx into nitrogen and water. This will meet or exceed 2013 EPA emissions requirements.

The engine exhaust system shall be horizontal design constructed from heavy-duty truck components. The exhaust tubing shall be stainless steel to the DPF through to the SCR aluminized steel from the SCR to the exhaust tip. A heavy duty stainless steel bellows tube shall be used to isolate the exhaust system from the engine. The system shall be equipped with single canister consisting of a Diesel Oxidation Catalyst (DOC) and a Diesel Particulate Filter (DPF), and shall be mounted under the right side frame rail, meeting the specific engine manufacturer's specifications and current emission level



requirements. The outlet shall be directed to the forward side of the rear wheels, exiting the right side with a heavy duty heat diffuser. The heat diffuser shall prevent the exhaust temperature from exceeding 851 deg. F during a regeneration cycle. A heat-absorbing sleeve shall be provided on the exhaust pipe in the engine compartment area to reduce the heat, protect the alternator, and also to protect personnel while servicing the engine compartment.

### **1.7.3 AFTER TREATMENT SYSTEM**

To meet EPA requirements of Particulate output, a DPF (Diesel Particulate Filter) is used. To meet EPA requirements of Nitrous Oxide output an SCR (Selective Catalytic Reduction) system utilizing DEF (Diesel Exhaust Fluid) is used.

### **1.7.4 ON-BOARD DIAGNOSTIC (OBD) SYSTEM**

The engine shall be equipped with an on-board diagnostic (OBD) system which shall monitor emissions- related engine systems and components and alert the operator of any malfunctions. The OBD system is designed to further enhance the engine and operating system by providing early detection of emission- related faults. The engine control unit (ECU) will manage smart sensors located throughout the engine and after-treatment system. The system shall monitor component verification and sensor operation. There shall be warning lights located in the dash instrument panel to alert the operator of a malfunction. A data port shall be provided under the driver's side dash for the purpose of code reading and troubleshooting. All communication shall be provided through the J1939 data link.

### **1.7.5 AIR CLEANER/INTAKE**

The engine air intake and filter shall be designed in accordance with the engine manufacturer's recommendations. It shall be 99.9% effective in removing airborne contaminants when tested per the industry standard SAE J726 procedure and offer a dirt holding capacity of at least 3.0 gm/cfm of fine dust (tested per SAE J726) offering superior engine protection.

The air filter shall be located at the front of the apparatus and shall be at least 66" above the ground, to allow fording deep water in an emergency situation.

An ember separator shall be provided in the engine air intake meeting the requirements of NFPA 1901. An Air Restriction warning light shall be provided and located on the cab dash.

### **1.7.6 FUEL/WATER SEPARATOR**

A Cummins approved FleetGuard FH230 Fuel Pro filter will be remote mounted to the Chassis frame rail.



### **1.7.7 COOLING SYSTEM**

The cooling system shall be designed to keep the engine properly cooled under all conditions of road and pumping operations. The cooling system shall be designed and tested to meet or exceed the engine and transmission manufacturer's requirements, and EPA regulations.

The complete cooling system shall be mounted in a manner to isolate the system from vibration and stress. The individual cores shall be mounted in a manner to allow expansion and contraction at various rates without inducing stress to the adjoining core(s).

The cooling system shall be comprised of a charge air cooler to radiator serial flow package that provides the maximum cooling capacity for the specified engine as well as serviceability. The main components shall include a surge tank, a charge air cooler, bolted to the top of the radiator to maximize cooling, recirculation shields, a shroud, a fan, and required tubing. All components shall consist of an individually sealed system.

### **1.7.8 RADIATOR**

The radiator shall be a cross-flow design constructed completely of aluminum with welded side tanks. The radiator shall be bolted to the bottom of the charge air cooler to allow a single depth core, thus allowing a more efficient and serviceable cooling system.

The radiator shall be equipped with a drain cock to drain the coolant for serviceability. The drain cock shall be located at the lowest point of the aluminum cooling system to maximize draining of the system.

### **1.7.9 CHARGE AIR COOLER**

The charge air cooler shall be of a cross-flow design and constructed completely of aluminum with extruded tanks. The charge air cooler shall be bolted to the top of the radiator to allow a single depth core.

### **1.7.10 COOLANT**

The cooling system shall be filled with a 50/50 mix. The coolant makeup shall contain ethylene glycol and de-ionized water to prevent the coolant from freezing to a temperature of -34 degrees F.

### **1.7.11 HOSES & CLAMPS**

Silicone hoses shall be provided for all engine coolant lines.

All radiator hose clamps shall be spring loaded stainless steel constant torque hose clamps for all main hose connections to prevent leaks. Recirculation shields shall be





installed where required to prevent heated air from reentering the cooling package and affecting performance.

#### **1.7.12 FAN**

The engine cooling system shall incorporate a heavy-duty composite 11- blade Z-series fan. It shall provide the highest cooling efficiently while producing the lowest amount of noise. This robust yet light-weight fan results in less wear and stress on motors and bearings.

A shroud and recirculation shield system shall be used to ensure air that has passed through the radiator is not drawn through again.

The fan tip to radiator core clearance shall be kept at a minimal distance to increase the efficiency of the fan and reduce fan blast noise.

#### **1.7.13 FAN CLUTCH**

A fan clutch shall be provided that shall allow the cooling fan to operate only when needed. The fan shall remain continuously activated when the truck is placed in pump gear.

#### **1.7.14 SURGE TANK**

The cooling system shall be equipped with an aluminum surge tank mounted to the officer's side of the cooling system core. The surge tank shall house a low coolant probe and sight glass to monitor the coolant level. Low coolant shall be alarmed with the check engine light. The surge tank shall be equipped with a dual seal cap that meets the engine manufacturer's pressure requirements, and system design requirements.

The tank shall allow for expansion and to remove entrained air from the system. There shall also be an extended fill neck to prevent system overfill and encroachment of expansion air space. Baffling shall be installed in the tank to prevent agitated coolant from being drawn into the engine cooling system.

#### **1.7.15 FUEL TANK**

The chassis shall be equipped with a 65-gallon rear mounted, behind the rear axle, rectangular fuel tank that shall be constructed of steel with stamped heads. The fuel tank shall be certified to meet FMVSS 393.67 tests. It shall also maintain engine manufacturer's recommended expansion room of 5%.

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 with a single 3/4" tank drawtube shall be provided for diesel generators if required.

The fuel lines shall be nylon braid reinforced fuel hose with brass fittings. The lines shall be carefully routed along the inside of the frame rails. All fuel lines are 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 1/4" rubber, contact cemented to the saddle. The bottom of the fuel tank shall contain a 1/2" drain plug.

#### **17.16 FUEL FILL**

The fuel tank shall be equipped with a 2-1/4" filler neck assembly with a 3/4" vent located on the driver's side of the truck. A fuel fill cap attached with a lanyard shall be provided.

#### **1.7.17 FUEL COOLER**

Installed on the apparatus fuel system shall be an Air-To-Liquid aluminum fuel cooler. The fuel cooler shall be located in the lowest module of the cooling system.

#### **1.7.18 DIESEL EXHAUST FLUID TANK**

The exhaust system shall include a molded cross linked polyethylene tank. The tank shall have a capacity of 5 usable gallons and shall be mounted on the left side of the chassis frame.

The DEF tank fill neck shall accept only a 19mm dispensing nozzle versus the standard 22mm diesel fuel dispensing nozzle to prevent cross contamination. The DEF tank cap shall be blue in color to further prevent cross contamination.

A placard shall accompany fill location noting DEF specifications.

#### **1.7.19 ALTERNATOR**

A 320 ampere Prestolite/Leece Neville alternator with serpentine belt shall be provided the alternator shall generate 260 amperes at idle.

A low voltage alarm, audible and visual, shall be provided.

#### **1.7.20 BATTERIES**

The battery system shall be a single system consisting of four negative ground, 12 volt Interstate Group 31 MHD batteries, cranking performance of 950 CCA each with total of



3800 amps, 185 minute reserve capacity with 25 ampere draw at 80 degrees Fahrenheit. Each battery shall have 114 plates. Warranty shall be accepted nationwide.

The batteries shall be installed in a vented 304 stainless steel battery box with a removable aluminum cover to protect the batteries from road dirt and moisture. The battery cover shall be secured with four "T" handle rubber hold downs to provide easy access for maintenance and inspection. Stainless steel hardware will be used for installation. The batteries are to be placed on dri-deck and secured with a fiberglass hold down.

The batteries shall be wired directly to starter motor and alternator.

The battery cables shall be 3/0 gauge. Battery cable terminals shall be soldering dipped, color-coded and labeled on heat shrink tubing with a color-coded rubber boot protecting the terminals from corrosion. There shall be a 350-ampere fuse protecting the pump primer and a 250-ampere fuse protecting the electric cab tilt pump and other options as required.

#### **1.7.21 BATTERY JUMPER TERMINAL**

There shall be one set (two studs) of battery jumper terminals located by the battery box under the cab. The terminals shall have plastic color-coded covers. Each terminal shall be tagged to indicate positive/negative.

#### **1.7.22 BATTERY CHARGING**

A Kussmaul Auto Charge 1200 battery system charger shall be provided. The Auto Charge 1200 is a fully automatic battery charger with a very high output for vehicles with a single battery system. A single bar graph display is provided to indicate the state of charge of the battery system. The rated output shall be 40 amps for the vehicle battery system.

A 120 volt Auto Pump air compressor shall also be provided to maintain air within the air brake system.

A miniature air filter that mounts in the output pressure line of the air pump to trap moisture shall be provided. The micron filter element removes contaminants from the air line. A transparent bowl permits easy monitoring of water collected and a manual purge valve allows the operator to conveniently drain the bowl. A Bendix DV2 heated automatic drain valve shall be provided.

#### **1.7.23 SHORELINE**

A shoreline connection shall be provided and located on the driver's side of the cab between the front and rear doors.



### **1.7.24 AUTO-EJECT**

A Kussmaul Model 091-55-20-120 super electric auto-eject with weatherproof cover and power interrupt shall be provided.

## **1.8 TRANSMISSION SPECIFICATIONS**

### **1.8.1 TRANSMISSION**

The chassis shall be equipped with a Generation 5 Allison EVS3000 six (6) speed automatic transmission. It shall be programmed five (5) speed, sixth gear locked out, for fire apparatus vocation, in concert with the specified engine.

The transmission is communicated on the J-1939 through the communication port. The fifth gear shall be an overdrive ratio, permitting the vehicle to reach its top speed at the engine's governed speed. The dipstick is dipped in a rubber coating for ease in checking oil level when hot.

The chassis to transmission wiring harness shall utilize Metri-Pack 280 connectors with triple lip silicone seals and clip-type positive seal connections to protect electrical connections from contamination without the use of coatings.

- Ratings: Max Input (HP) 450
- Max Input (Torque) 1255 (lb. ft.) Max Turbine (Torque) 1700 (lb. ft.)
- Mechanical Ratios:
  - 1st - 3.49:1
  - 2nd - 1.86:1
  - 3rd - 1.41:1
  - 4th - 1.00:1
  - 5th - 0.75:1
  - Reverse - -5.03:1

### **1.8.2 ENGINE BRAKE**

The engine shall be equipped with a Jacobs compression engine brake. An "On/Off" switch shall be provided on the instrument panel within easy reach of the driver.

The engine brake shall interface with the Wabco ABS brake controller to prevent engine brake operations during adverse braking conditions.

A pump shift interlock circuit shall be provided to prevent the engine brake from activating during pumping operations.

The brake light shall activate when the engine brake is engaged.



### **1.8.3 TRANSMISSION COOLER**

The apparatus transmission shall be equipped with a Liquid-To-Liquid remote mounted cooler with aluminum internal components. The cooler shall be encased in an aluminum housing and mounted to the outside of the officer's side frame rail for accessibility and ease of service.

### **1.8.4 TRANSMISSION FLUID**

The transmission shall come filled with Castrol TranSynd™ Synthetic Transmission Fluid or approved equal meeting the Allison TES-295 specification. NO EXCEPTION.

### **1.8.5 TRANSMISSION SHIFTER**

An Allison "Touch Pad" shift selector shall be mounted to the right of the driver on the engine cover accessible to the driver. The shift position indicator shall be indirectly lit for nighttime operation.

## **1.9 BRAKES**

### **1.9.1 BRAKES, FRONT**

The front brakes shall be Arvin Meritor DiscPlus EX225 Air Disc Brakes. Each disc brake assembly shall include one (1) 17" vented rotor, one (1) lightweight hub, one (1) twin-piston caliper, and two (2) quick-change pads.

### **1.9.2 BRAKES, REAR**

The rear brakes shall be Meritor S-cam style. They shall be 16.5" x 7" with heavy duty return springs, and a double anchor pin design. They shall also have quick change shoes for fast easy brake relining.

### **1.9.3 AIR BRAKE SYSTEM**

The vehicle shall be equipped with air-operated brakes. The system shall meet or exceed the design and performance requirements of current FMVSS-121 and test requirements of current NFPA 1901 standards.

Each wheel shall have a separate brake chamber. A dual treadle valve shall split the braking power between the front and rear systems.

All main brake lines shall be color-coded nylon type protected in high temperature rated split plastic loom. The brake hoses from frame to axle shall have spring guards on both ends to prevent wear and crimping as they move with the suspension. All fittings for brake system plumbing shall be brass.



A Meritor Wabco System Saver 1200 air dryer shall be provided.

The air system shall be provided with a rapid build-up feature, designed to meet current NFPA 1901 requirements. The system shall be designed so the vehicle can be moved within 60 seconds of startup. The quick build up system shall provide sufficient air pressure so that the apparatus has no brake drag and is able to stop under the intended operating conditions following the 60-second buildup time. The vehicle shall not be required to have a separate on-board electrical air compressor or shoreline hookup to meet this requirement.

Four (4) supply tanks shall be provided. One air reservoir shall serve as a wet tank and a minimum of one tank shall be supplied for each the front and rear axles. A Schrader fill valve shall be mounted in the front of the driver's step well.

A spring actuated air release emergency/parking brake shall be provided on the rear axle. One (1) parking brake control shall be provided and located on the engine hood next to the transmission shifter within easy reach of the driver. The parking brake shall automatically apply at  $35 \pm 10$  PSI reservoir pressure. A Meritor WABCO IR-2 Inversion Relay Valve, supplied by both the Primary and Secondary air systems, shall be used to activate the parking brake and to provide parking brake modulation in the event of a primary air system failure.

Accessories plumbed from the air system shall go through a pressure protection valve and to a manifold so that if accessories fail they shall not interfere with the air brake system.

#### **1.9.4 AIR BRAKING ABS SYSTEM**

A Wabco ABS system shall be provided to improve vehicle stability and control by reducing wheel lock-up during braking. This braking system shall be fitted to axles and all electrical connections shall be environmentally sealed from water and weather and be vibration resistant.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel transmit wheel speed data to an electronic processor, which shall sense approaching wheel lock and instantly modulate brake pressure up to 5 times per second to prevent wheel lock-up. Each wheel shall be individually controlled. To improve field performance, the system shall be equipped with a dual circuit design. The system circuits shall be configured in a diagonal pattern. Should a malfunction occur, that circuit shall revert to normal braking action. A warning light at the driver's instrument panel shall indicate malfunction to the operator.

The system shall consist of a sensor clip, sensor, electronic control unit, and solenoid control valve. The sensor clip shall hold the sensor in close proximity to the tooth wheel. An inductive sensor consisting of a permanent magnet with a round pole pin and coil shall produce an alternating current with a frequency proportional to wheel speed. The



unit shall be sealed, corrosion-resistant and protected from electro- magnetic interference. The electronic control unit shall monitor the speed of each wheel sensor and a microcomputer shall evaluate wheel slip in milliseconds.

### **1.9.5 MISCELLANEOUS CHASSIS EQUIPMENT**

- a. Fluid capacity plate affixed below driver's seat.
- b. Chassis filter part number plate affixed below driver's seat. Maximum rated tire speed plaque near driver.
- c. Tire pressure label near each wheel location.
- d. Cab occupancy capacity label affixed next to transmission shifter. Do not wear helmet while riding plaque for each seating position. NFPA compliant seat belt and standing warning plates provided.

### **1.9.6 BRAKE AIR FITTING**

The fitting for the air brake will be compression style, Push on fittings are not acceptable.

### **1.9.7 FUEL SHUT OFF**

There will be a fuel shut off valve just ahead of the filter.

## **1.10 FIRE ENGINE CAB**

### **1.10.1 ALUMINUM CAB**

The cab shall be a full tilt 6-person cab designed specifically for the fire service and manufactured by the chassis builder. Apparatus cabs that are not manufactured by the apparatus manufacturer shall not be acceptable.

### **1.10.2 CAB DESIGN**

The apparatus chassis shall be of an engine forward, fully enclosed tilt cab design. There shall be four (4) side entry doors.

The cab shall be of a fully open design with no divider wall or window separating the front and rear cab sections. The cab shall be designed in a manner that allows for the optimum forward facing vision for crew. Cab designs that utilize roof mounted air conditioning units, are not desired.

The cab shall be constructed of high strength 5052H32 aluminum plate welded to 6061-T6 extruded aluminum framing or Equal.

The cab roof shall utilize 5" x 5" honeycomb re-enforced 6061 T6 aluminum extrusion or equal, with fully radiused outer corner rails with integral drip channel and 6061 T6 ¾" x



2" x 3/16" aluminum box tubing type cross brace supports. Structures that do not include an integral drip channel will not be accepted. The box tubing type cross brace supports shall be installed in a curved fashion beginning from the midline of the apparatus cab and curving toward the exterior corner rails. This curvature will allow for increased strength in the event of a roll over while not allowing for rainwater buildup on the apparatus cab roof.

The cab sides shall be constructed from 1 1/2" x 3" x 3/16" 6061 T6 extruded door pillars, or equal and posts that provide a finished door opening, extruded and formed wheel well openings supports, formed aluminum wheel well liners and box tubing type support braces.

The cab floor and rear cab wall shall utilize 1 3/4" x 4" x 3/16" 6061 T6 extruded box tubing or equal type framing and support bracing.

The framework shall be of a welded construction that fully unitizes the structural frame of the cab.

The structural extrusion framework shall be overlaid with interlocked aluminum alloy sheet metal panels to form the exterior skin of the cab. The cab sides shall be constructed of 3/16" thick 5052H32 aluminum plate that slides into an integral channel of the extrusion framework. The plate is then skip welded into that channel to allow for tolerable flex while the apparatus travels down the roadway. Cab designs that utilize 1/8" thick aluminum for the cab sides shall not be acceptable.

The structural extrusion framework shall support and distribute the forces and stresses imposed by the chassis and cab loads and shall not rely on the sheet metal skin for any structural integrity.

The cab face extrusion framework shall be overlaid with 1/8" thick 5052H32 aluminum plate to allow for an aesthetically pleasing radiused cab face.

### **1.10.3 CAB SUB-FRAME**

The cab shall be mounted to a 4" x 4" x 3/8" steel box tube or aluminum sub-frame, and shall be isolated from the chassis, through the use of no less than six (6) elastomeric bushings. This substructure shall be completely independent of the apparatus cab. The sub frame shall be painted to match the primary chassis color.

The sub-frame shall be mounted to the chassis through the use of lubricated Kaiser Bushings for the front pivot point, and two (2) hydraulically activated cab latches, to secure the rear.

Cab mounting that does not include a sub-frame shall not be considered. NO EXCEPTIONS.





#### **1.10.4 CAB DIMENSIONS**

The cab shall be designed to satisfy the following minimum width and length dimensions:

- Cab Width (excluding mirrors) 96" or Higher
- Cab Length (from C/L of front axle)
- To front of cab (excluding bumper) 68" To rear of cab 62"
- Total Cab Length (excluding bumper) 130"

#### **1.10.5 ROOF DESIGN**

The cab shall be of a flat roof design with side drip rails and shall satisfy the following minimum height dimensions:

- Cab Dimensions Interior Front 59" Rear 55"
- Cab Dimensions Exterior Front 65" Rear 65"

#### **1.10.6 FENDER CROWNS**

Polished stainless steel front axle fenderettes with full depth radiused wheel well liners shall be provided.

#### **1.10.7 CAB INSULATION**

The exterior walls, doors, and ceiling of the cab shall be insulated from the heat and cold, and to further reduce noise levels inside the cab. The cab interior sound levels shall not exceed 90 decibels at 45 mph in all cab seat positions. NO EXCEPTIONS

#### **1.10.8 EXTERIOR GLASS**

The cab windshield shall be of a two piece curved design utilizing tinted, laminated, automotive approved safety glass. The window shall be held in place by an extruded rubber molding. The cab shall be finished painted prior to the window installation.

#### **1.10.9 SUN VISORS**

The sun visors shall be made of dark smoke colored transparent polycarbonate. There shall be a visor located at both the driver and officer positions, recessed in a molded form for a flush finish.

#### **1.10.10 CAB STEPS**

The lower cab steps shall be no more than 22" from the ground. An intermediate step shall be provided, midway between the lower cab step, and the cab floor.



The intermediate step shall be slightly inset to provide for safer ingress and egress. All steps shall be covered with material that meets or exceeds the NFPA requirements for stepping surfaces.

#### **1.10.11 STEP LIGHTS**

A white LED strip light shall illuminate each interior cab step. These lights shall illuminate whenever the battery switch is on and the cab door is opened.

#### **1.10.12 CAB STRUCTURAL INTEGRITY**

The cab of the apparatus shall be designed and 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 apparatus 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 J2420 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 J2422/SAE J2420 and "United Nations Regulation 29, Annex 3, paragraph 5, (Test B) and SAE J2420. 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. There shall be "no exception" to this requirement.

#### **1.10.13 SEAT BELT TESTING**

The seat belt anchorage system shall be tested to meet FMVSS 207 Section 4.2a and FMVSS 210 section 4.2. Testing shall be conducted by an independent third party product evaluation company.

A copy of the certification letter shall be supplied with the bid documents.

#### **1.10.14 CAB TILT SYSTEM**

An electrically powered hydraulic cab tilt system shall be provided, and shall lift the cab to an angle of 45 degrees, exposing the engine and accessories for fluid checks and service work. The system shall be interlocked to only operate when the parking brake is set.

The lift system shall be comprised of two (2) hydraulic lift cylinders, an electrically driven hydraulic pump, and a control switch. The hydraulic pump shall be located on the



exterior of the frame rail on the driver's side of the chassis that can be easily accessible when the cab is tilted. A mechanical locking system consisting of an air operated actuator and a heavy radiused wall 3" x 3" aluminum extrusion will be provided to ensure the cab remains in the raised position in the event of a hydraulic failure. Additionally, each of the hydraulic lift cylinders shall incorporate a check valve, and velocity fuses that will activate should a sudden drop in pressure be detected. The cab tilt controls shall be interlocked to the parking brake to ensure the cab will not move, unless the parking brake is set. The cab tilt controls will consist of a momentary raise/lower switch and a two position cab safety lock switch.

The hydraulic lift cylinders will be connected to a steel or aluminum cab sub-frame, and not directly to the cab.

#### **1.10.15 MANUAL CAB LIFT**

There shall be a manually operated hydraulic pump for tilting the cab in case the main pump should fail. Access to the pump shall be located under the left corner of the front bumper.

#### **1.10.16 CAB DOORS**

The cab doorframes shall be constructed from 6061 T6 aluminum extrusions fitted with a 5052 H32 aluminum sheet metal skin and shall be equipped with dual weather seals. The outside cab door window opening shall be framed by a black anodized aluminum trim, to provide a clean appearance. The cab doors shall be equipped with heavy-duty door latching hardware, which complies with FMVSS 206. The door latch mechanism shall utilize control cable linkage for positive operation. A rubber coated nylon web doorstop shall be provided.

The doors shall be lap type with a 10 gauge full-length stainless steel flange and 3/8" diameter hinge pin and shall be fully adjustable.

All openings in the cab shall be grommeted or equipped with rubber boots to seal the cab from extraneous noise and moisture.

The cab doors shall be designed to satisfy the following minimum opening and step area dimensions: Door Opening:

- Front 36.5" x 73"
- Rear 36.5" x 73"

#### **1.10.17 POWER WINDOWS**



All four cab entry doors shall have power windows. Each door shall be individually operated and the driver's position shall have master control over all windows. All four windows shall roll down completely.

#### **1.10.18 SIDE WINDOWS**

Fixed position side window shall be provided on each side of the cab between the forward cab area and the crew cab area. The windows shall be approximately 20.5" high x 16.50" wide to provide maximum visibility. The side windows shall be held in place by an extruded rubber molding with a chrome plated decorative locking bead.

#### **1.10.19 WINDOW TINTING**

The crew cab windows and doors, with the exception of the driver's and officer's doors, and the windshield, shall be tinted with deep "limo" tint. The tint shall be incorporated into the window glass with eight percent (8%) light transmittance. Film tinting shall not be acceptable.

#### **1.10.20 WINDSHIELD WIPERS**

Two (2) black anodized finish two speed synchronized electric windshield wiper system. Dual motors with positive parking. System includes large dual arm wipers with built in washer system. One (1) master control works the wiper, washer and intermittent wipe features. Washer bottle is a remote fill with a 4 quart capacity. Washer fill is located just inside of officer cab door.

#### **1.10.21 CAB HANDRAILS**

There shall be a 24" long, handrail provided and installed, at each cab entrance. The handrails shall be constructed of type 304 stainless steel 1.25 inch diameter tubing with bright finish and knurled gripping surface. Mounting flanges shall be constructed from 7 gauge, .180 thick, stainless steel. Each grab rail shall have 90 degree returns to flanges. The ends of grab rail shall pass through the flanges and be welded to form one structural unit. The handrails shall be mounted using 1.25" SS Hex bolts, with a barrier rubber gasket at each flange.

Sufficient space shall allow for a gloved hand to firmly grip the rail.

There shall be two (2) rubber coated grab handles provided and mounted on the interior of the cab, one each side, on the windshield post for ingress assistance. The handrail on the driver's side shall be approximately 11" long and the handrail on the officer's side shall be approximately 18" long.

#### **1.10.22 COAT HOOKS FOR GRAB HANDLES**



There shall be a coat hook installed at the top of each exterior cab handrail, for hanging of coats, turnout gear, etc.

#### **1.10.23 CAB DOOR HANDRAILS**

Two (2) 1.25" diameter knurled stainless steel handrails shall be provided on the inside of the rear crew doors just above the windowsill.

#### **1.10.24 MIRRORS**

The mirrors will be Ramco Cowl mounted remote controlled mirrors or equal. The convex mirror will be above the main mirror.

#### **1.10.25 GRILLE**

The front of the cab shall be equipped with a polished stainless steel grille with sufficient area to allow proper airflow into the cooling system and engine compartment. Plastic chrome plated grilles shall not be acceptable.

#### **1.10.26 BUMPER**

There shall be a 12" high double rib polished stainless steel wrap-around bumper provided at the front of the apparatus. Laser cut perforated grilles shall be incorporated into the bumper and located at the outboard of the frame rails for the air horns and at the center for the siren speaker. The bumper shall be mounted to a reinforcement plate constructed of 1/4" x 10" x 70" carbon steel. A gravel shield shall be provided, constructed of .188" aluminum diamond plate. The bumper extension shall be approximately 24".

#### **1.10.27 STORAGE WELL COMPARTMENT**

There shall be a hose well compartment located in the center of the front bumper. The compartment shall run 3/4 the width of the bumper and measure approximately 60" wide x 16" long x 6" deep at the ends and 12" deep in the center. The compartment shall be constructed of .125" smooth aluminum plate.

#### **1.10.28 DIAMOND PLATE BUMPER LID**

There shall be a 1/8" diamond plate cover with latches provided for the front bumper trough. The cover shall have a 4" rise to accommodate the storage well requirements.

#### **1.10.29 AIR HORNS**

Two (2) Grover 2040 Stuttertone rectangular, chrome plated, air horns shall be recess mounted, one each side behind the perforated grille of the bumper.



#### **1.10.30 HORNS WIRED TO STEERING WHEEL**

The air horns shall be wired through the steering wheel button. A selector switch shall be provided on the instrument panel to switch between functions.

#### **1.10.31 MOMENTARY SWITCH ON DASH, OFFICER SIDE**

A momentary switch for the air horns shall be provided on the officer's side dash.

#### **1.10.32 ELECTRONIC SIREN**

One (1) Whelen 295HFS2 electronic siren shall be installed at the cab instrument panel complete with noise canceling microphone. The remote control head shall be flush mounted in a location specified by the fire department.

#### **1.10.33 SIREN SPEAKER**

Two Cast Products SA4201-6B-A weatherproof siren speakers shall be provided and mounted in the grille.

#### **1.10.34 FEDERAL Q2B SIREN**

There shall be a Federal Q2B-NN siren installed in the center of the cab grille. The siren shall be securely mounted and activated by means of a solenoid and shall include a brake.

#### **1.10.35 FOOT SWITCH, DRIVER'S SIDE**

A foot switch for the mechanical siren shall be provided on the driver's side.

#### **1.10.36 MOMENTARY SWITCH ON DASH**

A momentary switch for the mechanical siren shall be provided on the officer's side dash.

#### **1.10.37 LIGHTING CAB EXTERIOR**

Exterior lighting and reflectors shall meet or exceed Federal Motor Vehicle Safety Standards and National Fire Protection Association requirements in effect at the time the apparatus is manufactured. There shall be dual high/low sealed beam LED rectangular headlights in custom housings one each side of the front of the cab. There shall be two red front facing warning lights on the cab, one each side, mounted below the headlight housings.

#### **1.10.38 FRONT TURN SIGNALS**

There shall be two Whelen 400 Series LED rectangular amber turn signal lights mounted one each side in the front of the headlight housing.



#### **1.10.39 CAB REAR WALL COVERING**

The rear outside wall of the cab shall be covered with 1/8" aluminum diamond plate.

#### **1.10.40 CAB INTERIOR**

The metal surfaces of the cab interior shall be coated and sealed with MultiSpec gray speckle, urethane modified, mar resistant paint. The textured coating shall provide paramount durability and wear resistance against foreign objects and normal wear and tear.

The front and rear headliners, as well as the rear cab wall, shall be finished in Gray-Black Durawear covered padded panels.

#### **1.10.41 INTERIOR DOOR PANELS**

The interior of the cab entry doors shall have a 304 brushed stainless steel scuff plate, contoured to the door, from the door window sill down.

#### **1.10.42 REFLECTIVE MATERIAL, CHEVRON STRIPING, INTERIOR CAB DOOR**

The apparatus shall have reflective Orafol Reflexite Chevron striping affixed to the inside of each cab door. The striping shall be plainly visible to oncoming traffic when the doors are in the open position.

#### **1.10.43 CAB FLOOR COVERING**

The cab interior floor shall be covered with a 5/16" thick, gray rubberized material to provide a rugged but cosmetically pleasing stepping surface throughout the cab. The floor covering shall provide superior durability and resistance against foreign objects as well as normal wear and tear.

#### **1.10.44 ENGINE ENCLOSURE**

An integral, formed aluminum and composite engine enclosure shall be provided. The engine enclosure shall be contoured and blended in an aesthetically pleasing manner with the interior dash and flooring of the cab. The enclosure shall be kept as low as possible, to maximize space and increase crew comfort.

The enclosure shall be constructed from 5052 H2 aluminum plate or equal, and GRP composite materials, providing high strength, low weight, and superior heat and sound deadening qualities.

Additionally, the underside of the engine enclosure shall be coated in with a ceramic spray on insulation and sound control. This coating is an environmentally-friendly



coating that is applied seamlessly and rapidly while providing superior thermal insulation and protection against vibration and noise, and will prevent future corrosion from forming by sealing the substrate. Or Equal

#### **1.10.45 ENGINE ENCLOSURE COVERING**

The top of the engine enclosure shall be covered with heavy duty, black polyurethane blended coating. The textured coating shall provide paramount durability and wear resistance against foreign objects and normal wear and tear as well as sound deadening and insulation. The rubberized cab floor covering shall extend up the lower exterior sides of the engine enclosure to aid in sound deadening and heat resistance.

#### **1.10.46 TOOL MOUNTING PLATE**

There shall be a 3/16" smooth aluminum plate installed on the engine enclosure between the driver and the officer for use in mounting of equipment. The mounting plate shall feature beveled edges on the front and sides for a finished appearance. The plate shall be coated with the same finish as the engine enclosure and shall be secured to the engine cover with screws for easy replacement.

#### **1.10.47 ENGINE HOOD LIGHTS**

An LED work light shall be installed in the engine enclosure with an individual switch located on the base of the light.

#### **1.10.48 WORK SURFACE**

There shall be a flat work surface in front of the officer's seat.

#### **1.10.49 CUSTOM MAP BOX**

There will be an aluminum map holder box mounted on the back wall of the cab. It will hold (4) 3-ring binders.

#### **1.10.50 GUARD FOR PARKING BRAKE**

There will be a guard provided over the parking brake knob in the cab.

#### **1.10.51 AUDIBLE ALARM**

There will be an audible alarm provided in the cab for an open cab door and open compartment door.

#### **1.10.52 INSTRUMENT PANEL**





The main dash shroud, which covers the area directly in front of the driver from the doorpost to the engine hood, shall be custom molded and covered with a non-glare black vinyl. The dash shall be a one-piece hinged panel that tilts outward for easy access to service the internal components. The gauge panel shall be constructed of durable aesthetically pleasing light gray polymer material, placed over a heavy duty steel backing plate, for added strength and durability.

The gauges shall be Beede Instruments, NexSys Link gauges with built-in self-diagnostics and red warning lights to alert the driver of any problems. All gauges and controls shall be backlit for night vision and identified for function. All main gauges and warning lights shall be visible to the driver through the steering wheel.

#### **1.10.53 MASTER BATTERY & IGNITION SWITCH**

The vehicle shall be equipped with a keyless ignition, with a three (3)-position Master Battery rocker switch, "Off/ACC/On" and a two (2)-position Engine Start rocker switch, "Off/Start".

#### **1.10.54 DIESEL PARTICULATE FILTER CONTROLS**

There shall be two (2) controls for the diesel particulate filter. One control shall be for regeneration and one control shall be to inhibit engine regeneration. These shall be located below the steering wheel in the kick panel.

#### **1.10.55 INSTRUMENTATION & CONTROLS**

Instrumentation on dash panel in front of the driver:

- Tachometer/hourmeter with high exhaust system regeneration temperature, and instrument malfunction indicators.
- Speedometer/odometer with built in turn signal, high beam, and re-settable trip odometer.
- Voltmeter
- Diesel fuel gauge
- DEF (Diesel Exhaust Fluid) gauge
- Engine oil pressure
- Transmission temperature
- Engine temperature
- Primary air pressure
- Secondary air pressure

Indicators and warning lights in front of the driver:



- Parking brake engaged
- Low air with buzzer
- Antilock brake warning
- Check transmission
- Transmission temperature
- Upper power indicator
- Seat belt
- Engine temperature
- Low oil indicator
- Low voltage indicator
- Air filter restriction light
- Low coolant indicator
- High idle indicator
- Power on indicator
- Check engine
- Stop engine
- Check engine MIL lamp
- DPF indicator
- High exhaust temperature
- Wait to start

Other indicator and warning lights (if applicable):

- Differential locked
- PTO (s) engaged
- Auto-slip response
- Retarder engaged
- Retarder temperature
- ESC indicator

Controls located on main dash panel in front of the driver:

- Master power disconnect with ignition switch
- Engine start switch
- Headlight switch
- Windshield wiper/washer switch
- Differential lock switch (if applicable)
- Dimmer switch for backlighting



Controls included in steering column:

- Horn button
- Turn signal switch
- Hi-beam low-beam switch
- 4-way flasher switch
- Tilt-telescopic steering wheel controls

#### **1.10.56 CENTER CONTROL CONSOLE**

There shall be an ergonomically designed center control console. The console shall be constructed of 1/8" smooth aluminum and shall be mounted on the engine hood between the driver and officer. The console shall have a durable coating to match the color of the engine hood covering and shall feature surfaces on each side that are contoured to face the driver and the officer for easy viewing and accessibility. The switches and other customer specified electrical items shall be mounted in removable 1/8" smooth aluminum panels with a black wrinkle finish. The console shall have an aluminum lift-up lid with quick release latch. The lid shall be held in the open position with a gas strut to allow for easy access and serviceability.

Controls located in the console conveniently accessible to the driver:

- Transmission shifter
- Pump shift control with OK TO PUMP and PUMP ENGAGED lights
- Remote mirror control
- Illuminated rocker switches to control high idle, Jacob's brake, siren/horn, siren brake, master emergency, and other customer specified components
- 12V power point (if applicable)

Controls located in the console conveniently accessible to the driver and the officer (center):

- Parking brake control with a guard to prevent accidental engagement.

Controls located in the console conveniently accessible to the officer:

- Illuminated rocker switches to control customer specified components that are easily reachable to the officer and do not allow for compromise of the driver's view, and eliminate the need for foot switches.
- Surface to recess siren head, radio head, or other desired items as space permits.
- 12V power point (if applicable)



Driving compartment warning labels shall include:

- Height of vehicle
- Occupants must be seated and belted when apparatus is in motion.
- Do not use auxiliary braking systems on wet or slippery roads.
- Exit warnings

Additional labels included:

- Computer code switch
- Abs code switch
- Fluid data tag
- Chassis data tag

#### **1.10.57 OVERHEAD CONTROL CONSOLE**

An ergonomically designed overhead console shall be provided above the driver and officer, running the full width of the cab. The overhead console shall be constructed from 1/8" aluminum plate and shall be painted with a durable finish to match the inside of the cab. There shall be seven (7) removable 1/8" smooth aluminum plates with a black wrinkle finish to house switches and other electrical items.

Directly above the driver there shall be two (2) panels with no cutouts, unless otherwise specified by the customer.

There shall be a panel located to the right of the driver that shall be designated for defroster, heat, and air conditioning controls (if specified).

The center overhead panel shall be designated for up to seven (7) door ajar indicators. Upon releasing the apparatus parking brake, one or more of these lights shall automatically illuminate (flash) when any of the following conditions occur that may cause damage if the apparatus is moved: cab or compartment door is open; ladder or equipment rack is not stowed; stabilizer system deployed; any other device has not been properly stowed.

There shall be a panel to the left of the officer as well as two (2) directly above the officer. These panels shall have no cutouts, unless otherwise specified by the customer.

#### **1.10.58 ENGINE WARNING SYSTEM**

An engine warning system shall be provided to monitor engine conditions such as low oil pressure, high engine temperature and low coolant level. Warning indication shall include a STOP ENGINE (red) light with audible buzzer activation and a CHECK ENGINE (amber) light



**Note:** (Some engine configurations may also include a fluid warning light.)

There shall be a master information light bar with 24 lights located across the center of the dash panel that covers up to 24 functions. These are defined under Indicators and Warning Lights above.

#### **1.10.59 PUMP SHIFT MODULE**

A pump shift module with indicating lights shall be located within easy reach of the driver. A gear lockup shall be provided to hold the transmission in direct drive for pump operation.

#### **1.10.60 HIGH IDLE**

The engine shall have a "high idle" switch on the dash that shall maintain an engine RPM of 1,000. The switch shall be installed at the cab instrument panel for activation/deactivation. The "high idle" mode shall become operational only when the parking brake is on and the truck transmission is in neutral.

#### **1.10.61 VEHICLE DATA RECORDER**

An Akron / Weldon vehicle data recorder as required by the 2009 edition of NFPA 1901 shall be installed. Vehicle data shall be sampled at the rate of 1 second per 48 hours, and 1 minute per 100 engine hours.

Free software is available to allow the fire department to collect the data as needed.

#### **1.10.62 LIGHTING CAB INTERIOR**

Interior lighting shall be provided inside the front of the cab for passenger safety. Two (2) ceiling mounted combination red/clear LED dome lights with a push button on/off switch in the light lens. One light shall be located over each the officer and driver's position. The lights shall also activate from the open door switch located in each cab doorjamb.

#### **1.10.63 LIGHTING CREW CAB INTERIOR**

Interior lighting shall be provided inside the crew cab for passenger safety. Two (2) ceiling mounted combination red/clear LED dome lights with a push button on/off switch in the light lens shall be provided. The lights shall also activate from the open door switch located in each cab doorjamb.

#### **1.10.64 MAP LIGHT**

A Sunnex 20" "goose neck" LED map light shall be provided on the officer's side of the cab dash.



#### **1.10.65 HAND HELD SPOTLIGHT**

One Optronics Blue Eye Model KB-4003, 400,000-candle power hand-held spotlight shall be provided, installed at officer's side of cab or Equal.

#### **1.10.66 HEAVY DUTY HEATER/DEFROSTER/AIR CONDITIONER**

There shall be a minimum 60,000 cool BTU or higher and 65,000 heat BTU single unit, heater/air conditioner mounted over the engine cover. The unit shall be mounted in center of the cab on the engine hood/enclosure. Unit shall have a shutoff valve at the right side of the frame, next to the engine. Airflow of the heater/air conditioner shall be a minimum 1200 CFM. To achieve maximum cooling, a TM-31 Compressor (19.1 cu. in.) will be used.

The defroster/heater shall be a minimum of 35,000 BTU and shall be a separate unit mounted over the windshield. There shall be eight (8) louvers/diffusers to direct to windshield and door glass. Airflow of the defroster/heater shall be a minimum 350 CFM. The unit shall be painted Zolatone greystone to match the cab ceiling.

The condenser shall be roof mounted and have 80,000 BTU rating. The unit shall include two fan motors. Airflow of the condenser shall be a minimum 2250 CFM. (This roof-mounted condenser shall work at full rated capacity at an idle with no engine heat problems.)

#### **1.10.67 HEATER/DEFROSTER/AIR CONDITIONING CONTROLS**

The heater/defroster/air conditioning shall be located in the overhead console in the center of the apparatus cab within reach of the driver and officer. The controls shall be illuminated for easy locating in dark conditions. The controls shall be located in such a way that the driver will not be forced to turn away from the road to make climate control adjustments. Control of all heater/defroster/air conditioning functions for the entire apparatus cab shall be achieved through these controls.

#### **1.10.68 DEFROSTER DIFFUSER**

A molded diffuser made of durable ABS plastic ductwork system shall be provided. It shall be form fitted and shall attach to the cab's overhead defroster unit to provide temperature controlled air to the windshields.

Air flow of up to 280 cfm is balanced and directed across the entire windshield for optimum defrosting capability in all types of weather.

#### **1.10.69 TOOL MOUNTING PLATE**



There shall be a 3/16" smooth aluminum plate installed on top of the heat/ air conditioning or dog box unit for use in mounting of equipment. The plate shall measure approximately 25" wide x 19.5" long and shall be spaced up 1". The mounting plate shall feature beveled edges on the front and rear for a finished appearance. The plate shall be coated with the same finish as the heat/air conditioning unit and shall be secured with screws for easy replacement.

#### **1.10.70 DRIVER'S SEAT**

A H.O. Bostrom Sierra high back ABTS seat with air suspension shall be provided for the driver. The seat shall be equipped with a red 3-point shoulder harness with lap belt. The seat shall have fore/aft adjustment and shall be upholstered with heavy duty Durawear material.

##### **1.10.70.1 HELMET STORAGE**

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the riding position warning that injury may occur if helmets are worn while seated.

#### **1.10.71 OFFICER'S SEAT**

An H.O. Bostrom Tanker 450 SCBA seat with air suspension shall be provided for the officer. The seat back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt. The seat shall have fore/aft adjustment and shall be upholstered with heavy duty Durawear material.

##### **1.10.71.1 HELMET STORAGE**

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the riding position warning that injury may occur if helmets are worn while seated.

#### **1.10.72 CREW SEAT – DRIVER'S SIDE, REAR FACING**

One (1) H.O. Bostrom Tanker 350 ABTS SCBA fixed base seat shall be installed behind the driver. The seat back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Durawear material on the main contact surfaces. The sides shall be upholstered with heavy duty vinyl.



#### **1.10.72.1 HELMET STORAGE**

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the riding position warning that injury may occur if helmets are worn while seated.

#### **1.10.73 CREW SEAT – OFFICER’S SIDE, REAR FACING**

One (1) H.O. Bostrom Tanker 350 ABTS SCBA fixed base seat shall be installed behind the officer. The seat back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Durawear material on the main contact surfaces. The sides shall be upholstered with heavy duty vinyl.

#### **1.10.73.1 HELMET STORAGE**

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the riding position warning that injury may occur if helmets are worn while seated.

#### **1.10.74 CREW SEAT – DRIVER’S SIDE, FORWARD FACING, INBOARD**

One (1) H.O. Bostrom Tanker 300CT ABTS SCBA flip-up base seat shall be installed in the driver’s side forward-facing inboard position. The seat back shall have a SCBA cavity and auto-pivot-and-return padded headrest. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Durawear material on the main contact surfaces. The sides shall be upholstered with heavy duty vinyl.

#### **1.10.74.1 HELMET STORAGE**

The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the riding position warning that injury may occur if helmets are worn while seated.

#### **1.10.75 CREW SEAT – OFFICER’S SIDE, FORWARD FACING, INBOARD**

One (1) H.O. Bostrom Sierra ABTS high back fixed base seat shall be installed in the officer’s side forward-facing inboard position. The seat shall be equipped with a red 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The seat shall be upholstered with heavy duty Durawear material.

#### **1.10.75.1 HELMET STORAGE**





The helmet for the above seat shall be stored in a compartment. A placard shall be provided visible to the riding position warning that injury may occur if helmets are worn while seated.

#### **1.10.76 SEAT UPHOLSTERY COLOR**

The cab seat upholstery shall be gray in color.

#### **1.10.77 SCBA BRACKETS**

Each SCBA seat in the cab shall feature an H.O. Bostrom SecureAll™ self-contained breathing apparatus (SCBA) locking system. The seat back shall include a bracket which shall be capable of storing most U.S. and international SCBA brands and sizes while in transit or for storage. The bracket shall be easily adjustable for all SCBA brands and cylinder diameters; adjustment points shall utilize similar hardware and adjustments shall be made with one tool.

The bracket shall be adjustable to compensate for different cylinder lengths without the use of tools. The adjustment shall be made by raising a lever and moving the top clamp vertically.

The bracket system shall be free of straps and clamps that may interfere with auxiliary equipment on SCBA units. The center guide fork shall keep the tank in-place for a safe and comfortable fit in seat cavity. Fire fighters shall simply push the SCBA unit against the pivot arm to engage the SecureAll™ patented auto-locking system. Once the lock is engaged, the top clamp shall surround the top of the SCBA tank for a secure fit in all directions.

The locking system shall include a release handle integrated into the seat cushion for quick and easy release and to eliminate the need for straps or pull cords which might interfere with other SCBA equipment.

#### **1.10.78 SEAT BELT WARNING SYSTEM**

An Akron / Weldon seat belt warning system shall be provided, and shall monitor each seating position. Each seat shall be supplied with a sensor that, in conjunction with the display module located on the dash, shall determine when the seat belt was fastened and if the seat is occupied. An icon shall represent that the seat is properly occupied. An audible and visual alarm shall be activated if the seat is occupied and/or the belt is not fastened in the proper sequence.

#### **1.10.79 CREW SEAT COMPARTMENT**

A compartment shall be provided under the forward facing crew seats on the back wall of the cab. Two outward opening doors shall be provided on the front face of the compartment.



### **1.10.80 GO LIGHT**

There will be a remote controlled GO LIGHT provided on the center roof of the cab. It will be installed on a bracket that will be one inch higher than the light bar. The control will be provided on the officer's console.

## **1.11 CHASSIS WIRING**

### **1.11.1 WIRING**

All chassis wiring shall have XL high temperature crosslink insulation. All wiring shall be color-coded, and the function and number stamped at 3" intervals on each wire. All wiring shall be covered with high temperature rated split loom for easy access to wires when trouble shooting. All electrical connectors and main connectors throughout the chassis shall be treated to prevent corrosion.

### **1.11.2 MASTER ELECTRICAL PANEL**

The main chassis breaker panel shall be wired through the master disconnect solenoid and controlled by the three-position ignition rocker switch. The breaker panel shall be located in front of the officer on the interior firewall and shall be protected by a removable aluminum cover. The cover shall have an aluminum notebook holder on the exterior face accessible to the officer. The cover shall be painted with a durable finish to match the interior of the cab and shall be secured with two (2) thumb screws.

The breaker panel shall include up to 22 ground switched relays with circuit breaker protection. An integrated electrical sub-panel shall be provided and interfaced to the body and chassis through an engineered wire harness system.

Twelve (12) 20-ampere relays and one (1) 70-ampere relay shall be provided for cab light bar and other electrical items. If the option for a mechanical siren has been selected two (2) additional relays shall be provided.

Up to two (2) additional relay boards with circuit breaker protection shall be provided for additional loads as required. Each board shall contain four (4) relays. The relay boards shall be configured to trip with input from switch of positive-negative or load manager by moving the connector on the board (no tools required).

All relay boards shall be equipped with a power-on indicator light (red), input indicator light (green) and power output indicator light (red).

Up to twenty-three (23) additional automatic reset circuit breakers for non-switched loads that are remotely switched (i.e.: heater fans, hood lights, etc.) shall be provided.

All relays and circuit breakers on the relay boards shall be pull-out/push-in replaceable.



All circuit breakers on the relay boards shall be 20 ampere automatic reset which can be doubled or tripled for 40 or 60-ampere capacity.

The system shall utilize Deutsch DRC weather resistant connectors at the breaker panel, toe board and main dash connections.

All internal wire end terminals, including locking connectors, shall be mechanically affixed to the wire ends by matching terminal crimping presses to assure the highest quality terminations.

All internal splices shall be ultrasonically welded connections and all internal wiring shall be high temperature GXL type wire that is protected by wiring duct wherever possible. All switches shall be ground controlled; no power going through any rocker switch.

Any switch controlling a relay in the breaker panel shall be capable of being set to function only when the parking brake is set. All relays shall be tagged with the function that the relay is controlling.

### **1.11.3 LOAD MANAGER**

Load manager shall have the ability to sequence loads on and off. It shall also be able to shed 8 loads when the vehicle is stationary, starting at 12.7 volts lowest priority load to be shed, then respectively at 12.6, 12.4, 12.2, 12.0, 11.8, 11.4 and 11.0 volts DC. Any load that has been shed shall be off for a minimum of five minutes, and then if voltage has rebounded above shed voltage, the shed load shall automatically come on. There shall also be an indicator panel alongside the rocker switches, which indicate power is on, battery warning and fast idle. Battery warning indicator shall flash at a rate proportional to the voltage discharge rate.

### **1.11.4 AUTOMATIC HIGH IDLE ACTIVATION**

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 minutes until voltage exceeds 13.0 volt DC. The load management system shall activate the high idle feature before any devices are automatically shed 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.

### **1.11.5 AUXILIARY POWER POINT**



One (1) 12-volt 20-ampere auxiliary lighter socket type plug-ins, shall be provided in the cab.

#### **1.11.6 USB POWER POINTS**

Two (2) 12-volt dual port USB power points shall be provided in the cab.

#### **1.11.7 CAB ACCESSORY FUSE PANEL**

A fuse panel shall be located underneath the rear facing seat on the officer's side. The fuse panel shall consist of six (6) battery hot and six (6) ignition switch circuits. Each circuit shall be capable of 10-ampere 12- volt power and total output of 50-amps. The fuse panel shall be capable of powering accessories such as hand held spotlights, radio chargers, hand lantern chargers and other miscellaneous 12-volt electrical components.

#### **1.11.8 POWER & GROUND STUDS, OVERHEAD COMMAND CONSOLE**

There shall be a set three (3) threaded power studs provided in the cab's overhead Command Console for future installation of two-way radios.  
The studs shall be wired as follows:

- One (1) 12-volt 60-amp, direct to the battery
- One (1) 12-volt 30-amp controlled by the ignition switch
- One (1) 12-volt 125-amp ground

#### **1.11.9 POWER & GROUND STUDS, UNDER OFFICER'S SEAT**

There shall be a minimum of four (4) threaded power studs provided under the officer's seat to accommodate the future installation of two-way radios.  
The studs shall be wired as follows:

- One (1) 12-volt 40-amp controlled by the battery switch
- One (1) 12-volt 60-amp controlled by the ignition switch
- One (1) 12-volt 60-amp, direct to the battery
- One (1) 12-volt 100-amp ground

#### **1.11.10 MASTER ELECTRICAL PANEL**

The main breaker panel shall be wired through the master disconnect solenoid and controlled with a three- position ignition rocker switch. Circuit breakers and flashers shall be located at officer's right side lower interior firewall with removable cover and schematic provided with notebook holder on outside cover.



A deluxe breaker panel with up to 22 ground switched relays with circuit breaker protection shall be provided.

An integrated electrical sub-panel shall be provided and interfaced to the body and chassis through an engineered wire harness system.

Twelve (12) 20-ampere and one (1) 70-ampere relay for cab lightbar and assemblies shall be provided. If the option for a mechanical siren has been selected two (2) additional relays shall be provided.

Additional four relay boards with circuit breaker protection for additional loads. Maximum two boards (8 relays) per breaker panel. All relay boards set up to trip with input from switch of positive-negative or load manager by moving connector on board (no tools needed to do this).

All relay boards shall be equipped with a power-on indicator light (red), input indicator light (green) and power output indicator light (red).

Up to 23 additional automatic reset circuit breakers for non-switched loads that are remotely switched (i.e.: heater fans, hood lights, etc.).

All relays and circuit breakers on the relay boards shall be pull-out/push-in replaceable.

All circuit breakers on the relay boards shall be 20 ampere automatic reset which can be doubled or tripled for 40 or 60-ampere capacity.

The system shall utilize Deutsch DRC weather resistant connectors at the breaker panel, toe board and main dash connections.

All internal wire end terminals, including locking connectors, shall be mechanically affixed to the wire ends by matching terminal crimping presses to assure the highest quality terminations.

All internal splices shall be ultrasonically welded connections and all internal wiring shall be high temperature GXL type wire that is protected by wiring duct wherever possible.

All switches shall be ground controlled; no power going through any rocker switch.

Any switch controlling a relay in the breaker panel shall be capable of being set to function only when the parking brake is set. All relays shall be tagged with the function that the relay is controlling.

#### **1.11.11 BODY ELECTRIC SYSTEM**



All body electrical wiring in the chassis will be XLP cross link-insulated type. Wiring is to be color-coded and include function codes every three (3) inches. Wiring harnesses will be routed in protective, heat resistant loom, securely and neatly installed.

Two power distribution centers will be provided in central locations for greater accessibility. The power distribution centers contain automatic thermal self-resetting breakers, power control relays, flashers, diode modules, daytime driving light module, and engine and transmission data links. All breakers and relays are utilized in circuits which amp loads are substantially lower than the respective component rating thus ensuring long component life.

Power distribution centers will be composed of a system of interlocking plastic modules for ease in custom construction. The power distribution centers are function oriented. The first is to control major truck function and the second controls overhead switching and interior operations. Each module is single function coded and labeled to aid in troubleshooting. The centers also have accessory breakers and relays for future installations. All harnesses and power distribution centers will be electrically tested prior to installation to ensure the highest system reliability.

All external harness interfaces will be of a triple seal type connection to ensure a proper connection. The cab/chassis and the chassis/body connection points will be mounted in accessible locations. Complete chassis wiring schematics will be supplied with the apparatus.

The wiring harness contained on the chassis shall be designed to utilize wires of stranded copper or copper alloy of a gauge rated to carry 125% of maximum current for which the circuit is protected without exceeding 10% voltage drop across the circuit. The wiring shall be uniquely identified by color code or circuit function code, labeled at a minimum of every three (3) inches. The identification of the wiring shall be referenced on a wiring diagram. All wires conform to SAEJ1127 (Battery Cable), SAEJ1128 (Low Tension Primary Cable), SAEJ1560 (Low Tension Thin Wall Primary Cable).

All harnesses shall be covered with moisture resistant loom with a minimum rating of 300 Degrees Fahrenheit and a flammability rating of VW-1 as defined in UL62. The covering of jacketed cable has a minimum rating of 289 degree Fahrenheit. All harnesses are securely installed in areas protected against heat, liquid contaminants and damage. The harness connections and terminations use a method that provides a positive mechanical and electrical connection and are in accordance to the device manufacturer's instructions. No connections within the harness utilize wire nut, insulation displacement, or insulation piercing.

All circuits conform to SAE1292. All circuits are provided with low voltage over current protective devices. These devices are readily accessible and protected against heat in excess of component rating, mechanical damage, and water spray. Star washers are not used for ground connections.



### **1.11.12 ELECTRICAL PROVISION**

Wiring shall be provided in the cab for the future installation of electrical chargers. The location shall be determined during the pre-construction conference.

## **1.12 FIRE PUMP**

### **1.12.1 FIRE PUMP HALE QMAX-2000**

Fire pump shall be midship mounted. The fire pump shall be of the double suction single stage centrifugal type, carefully designed in accordance with good modern practice.

The pump shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI.

The pump body shall be horizontally split, on a single plane, casing type with removable lower casing for easy removal of the entire impeller assembly including wear rings and bearings from beneath the pump without disturbing piping or the mounting of the pump in the chassis.

All moving parts in contact with water shall be of high quality bronze or stainless steel. Easily replaceable bronze labyrinth wear rings shall be provided. Discharge passage shall be designed to accomplish uniform pressure readings as the actual pump pressure. The rated capacity of the fire pump shall be 1750 gallons per minute in accordance with NFPA# 1901.

The pump shaft shall be rigidly supported by three bearings for a minimum deflection. One high lead bronze sleeve bearing shall be located immediately adjacent to the impeller (on side opposite the drive unit). The sleeve bearing shall be lubricated by a force fed, automatic lubrication system, pressure balanced to exclude foreign material. The remaining bearings shall be heavy-duty type, deep groove ball bearings and shall be splash lubricated.

### **1.12.2 PUMP TRANSFER CASE – G SERIES**

The drive unit shall be designed of ample capacity for lubricating reserve and to maintain the proper operating temperature. Pump drive unit shall be of sufficient size to withstand up to 16,000 lbs. ft. torque of the engine in both road and pump operating conditions.

The gearbox drive shafts shall be heat treated chrome nickel steel input and output shafts shall be at least 2-3/4" in diameter, on both the input and output shafts. They shall withstand the full torque of the engine in both road and pump operating conditions.

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 vehicle is completely stopped. The pump shift shall be air actuated from the cab and have both a green "Pump Engaged"





light, and a green "O.K.-To-Pump" light. A third green light shall be provided on the pump operator's panel for "Throttle Ready".

The pump drive unit shall be cast and completely manufactured and tested at the pump manufacturer's factory.

#### **1.12.3 PUMP SEAL**

The pump shaft shall have only one packing gland located on the inlet side of the pump. It shall be of split design for ease of repacking. The packing gland must be a full circle threaded design to exert uniform pressure on the packing to prevent "cocking" and uneven packing load when it is tightened. It shall be easily adjustable by hand with a rod or screwdriver and requiring no special tools or wrenches. The packing rings shall be of a unique combination of braided graphite filament and braided synthetic packing and have sacrificial zinc foil separators to protect the pump shaft from galvanic corrosion.

#### **1.12.4 PUMP ANODE**

A Hale pump anode kit assembly # 529-0050-00-0 shall be provided and installed in the pump body. A minimum of two (2) anodes shall be installed one (1) in the suction side and one (1) in the discharge side of the pump.

#### **1.12.5 PUMP TEST & CERTIFICATION**

The pump shall be tested and certified by Mistras Group, Inc., a third party independent testing agency, in accordance with NFPA 1901. A 3 hour pumping test from draft shall be conducted consisting of 2 hours of continuous pumping at 100% of rated capacity at 150PSI net pump pressure, followed by ½ hour of continuous pumping at 70% of rated capacity at 200PSI net pump pressure, and ½ hour of continuous pumping at 50% of rated capacity at 250PSI net pump pressure. The testing shall also include a pressure control system test, priming system test, vacuum test, a gauge/flowmeter test, and a pumping engine overload test. The apparatus shall be equipped with a water tank, and the water tank-to-pump test shall also be included.

#### **1.12.6 AUXILIARY COOLER**

An auxiliary 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.

#### **1.12.7 PUMP CONNECTIONS**

All suction and discharge lines (except pump manifolds) 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 the





connection. All individual drain lines for discharges shall be extended with a 90 degree fitting in order to drain below the chassis frame. All water carrying gauge lines shall utilize nylon tubing.

#### **1.12.8 TANK TO PUMP**

The booster tank shall be connected to the intake side of the pump with a check valve. The 3" tank to pump line shall run from a bottom sump into the 3" valve. To prevent damage due to chassis flexing or vibration, a short 3" flexible rubber hose coupling shall be used to connect the tank to the intake valve.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

#### **1.12.9 TANK FILL**

A 2" tank fill line shall be provided, using a quarter turn full flow ball valve controlled from the pump operator's panel.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**



The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

#### **1.12.10 PRESSURE GOVERNOR**

Apparatus shall be equipped with a Class1 Pressure Governor that is connected to the Electronic Control Module (ECM) mounted on the engine. The Governor will operate as a pressure sensor (regulating) governor (PSG) utilizing the engine's data for optimal resolution and response.

Programmable presets for RPM and Pressure settings shall be easily configurable using the menu structure. Engine RPM, system voltage, engine oil pressure and engine temperature with audible alarm output for all shall be provided.

#### **1.12.11 INTAKE RELIEF**

There shall be a Hale stainless steel intake relief valve installed on the intake side of the pump. The surplus water shall be discharged away from the pump operator and terminate with Male NST hose thread. System shall be field adjustable.

#### **1.12.12 6" PUMP INLET (LEFT SIDE)**

A 6" diameter suction port with 6" NST male threads shall be provided, on the left side of vehicle. The inlet shall extend through the side pump panels and come complete with removable strainer and long handle chrome-plated cap.

#### **1.12.13 2.5" LEFT SIDE INLET**

One 2.5" gated inlet valve shall be provided on the left side pump panel. The valve shall be supplied with chrome plate female swivel, plug, chain, and removable strainer. The valve shall attach directly to the suction side of the pump with the valve body behind the pump panel.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.



- **VALVE ACTUATOR**

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a full 90 degree movement.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

#### **1.12.14 6" PUMP INLET (RIGHT SIDE)**

A 6" diameter suction port with 6" NST male threads shall be provided, on the right side of vehicle. The inlet shall extend through the side pump panels and come complete with removable strainer and long handle chrome-plated cap.

#### **1.12.15 2.5" RIGHT SIDE INLET**

A 2.5" gated inlet valve shall be provided on the right side pump panel. The valve shall be supplied with chrome plate female swivel, plug, chain, and removable strainer. The valve shall attach directly to the suction side of the pump with the valve body behind the pump panel.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a swing type handle located at the operator's panel. The handle shall have a full 90 degree movement.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

#### **1.12.16 FRONT SUCTION**



A front suction, with chrome long handle cap, shall be provided. The inlet pipe shall be constructed of 5" stainless steel pipe. An air bleeder line shall be provided to eliminate trapped air.

- **INTAKE VALVE**

A Hale Master Intake valve shall be installed on the additional inlet. It shall be electrically actuated from the pump panel and include a manual override hand wheel on the pump panel. The valve shall include a pressure relief valve to guard against incoming pressure surges.

- **SWIVEL**

A 5" NPT x 6" NST swiveling elbow shall be provided on the front suction. The swivel shall be constructed of cast brass with chrome plating.

#### **1.12.17 DISCHARGE #1 - LEFT**

The discharge in position #1 on the left side of the apparatus shall include the following features.

A 2.5" discharge shall be provided on the left side of the apparatus.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus



40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.

To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

#### **1.12.18 DISCHARGE #2 - LEFT**

The discharge in position #2 on the left side of the apparatus shall include the following features. A 2.5" discharge shall be provided on the left side of the apparatus.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.



To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

### **1.12.19 DISCHARGE #3 - RIGHT**

The discharge in position #3 on the right side of the apparatus shall include the following features. A 3" discharge shall be provided on the right side of the apparatus.

- **VALVE, SLOW CLOSE**

The valve shall be an Akron slow close type Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self-locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10-year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.

To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed



from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

- **DISCHARGE ADAPTER**

One (1) Task Force Tips #AA3ST-NL 3" NST female x 5" Storz adapter with #A01ST 5" Storz cap and chain shall be provided for the above discharge.

#### **1.12.20 DISCHARGE #4 - RIGHT**

The discharge in position #4 on the right side of the apparatus shall include the following features. A 2.5" discharge shall be provided on the right side of the apparatus.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.



To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

**1.12.21 2.5" LEFT REAR DISCHARGE (HOSE BED)**

There shall be a 2.5" gated discharge piped to the left rear. The discharge shall be installed with proper clearance for spanner wrenches or adapters.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.

To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright





metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

### **1.12.22 REAR DISCHARGE (HOSE BED)**

There shall be a 2.0" gated discharge piped to the front of the left rear hose bed rear. The discharge shall be installed with proper clearance for spanner wrenches or adapters. Plumbing shall be 2.0" piping and a full flow 2.0 ball valve and terminate with a 1.5 Male NST fitting with the control at the pump operator's panel.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self-locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.

To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and



case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

### **1.12.23 FRONT BUMPER DISCHARGE**

A 1.5" discharge with 2" plumbing shall be provided at the front bumper. The valve shall be remote controlled at the pump panel.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.

To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.



- **THREAD TERMINATION**

The above shall terminate with National Standard Threads.

#### **1.12.24 DELUGE RISER**

A 3" deluge riser shall be installed above the pump in such a manner that a monitor can be mounted and used effectively. Piping shall be rigidly braced. The riser shall be gated and controlled from the pump operator's panel.

- **VALVE, SLOW CLOSE**

The valve shall be an Akron slow close type Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self-locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall have a 10-year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **2.5" PRESSURE GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area.

To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **DECK GUN TERMINATION**



The deck gun piping shall terminate with NPT threads.

- **FLOWMINDER**

There will be a digital flowminder provided on the deck gun discharge

### **1.12.25 SPEEDLAYS**

Two (2) speedlays shall be provided under the top mount console. The piping and valves shall be 2", the swivels shall be 1.5". The valves shall be the "drop-out" style, push/pull controlled from the pump panel. Each compartment shall hold 200 ft. of 1.75" double jacket hose.

- **VALVE**

The valve shall be an Akron Heavy-Duty swing out 8000 series brass body with flow optimizing stainless steel ball, and dual polymer seats. The valve shall be capable of dual directional flow while incorporating a self- locking ball feature using an automatic friction lock design and specially designed flow optimizing stainless steel ball. The valve shall not require the lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance by the removal of six bolts. The valve shall a 10- year warranty covered by Akron Brass.

- **VALVE ACTUATOR**

The valve shall be controlled by a Class 1 T-handle located at the operator's panel. The T-handle position shall be locked and unlocked by turning a knob located at the end of the T-handle shaft.

- **GAUGE**

The discharge shall be equipped with 2.5" Class 1 gauge. The gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The case shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area. To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauge shall be mounted adjacent to the corresponding water outlet.

- **THREAD TERMINATION**



The above shall terminate with National Standard Threads.

- **SPEEDLAY COVER**

A vinyl cover shall be provided to enclose the ends of the speedlays.

**1.12.26 MASTER PUMP DRAIN**

A multiport master drain valve shall be provided and plumbed to multiple locations on the main pump body. The valve assembly shall be clearly marked as the Master Drain.

**1.12.27 DRAIN VALVES LIFT UP STYLE**

Vertical lift up style, quarter turn style drain valves shall be provided for each suction inlet, or discharge outlet as specified. Each drain shall be clearly marked and color coded to match the corresponding suction or discharge.

**1.12.28 FOAM SYSTEM**

There will be an Akron 3096 bypass eductor foam system provided with a flush. It will be plumbed to the left rear 2" hose bed discharge.

**1.12.29 FOAM TANK**

There shall be a 50-gallon foam tank. The tank shall be part of the main booster tank. There shall be a 3" PVC fill tower and cap and a tank vent. There shall be a 1-1/2" flanged outlet and drain valve at the lowest point in the tank.

**1.12.30 PUMP AND GAUGE PANELS –TOP MOUNT**

The panels shall be constructed of brushed stainless steel for maximum protection against abrasion caused during normal use. The right and left side panels shall be flush mounted on the aluminum extruded pump module framework. The pump and gauge panels shall be located above the pump compartment providing maximum view to the pump operator. Pump panels on both sides shall be easily removable. The 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 1/4-turn latch. There shall be a hinged access door as large as possible located over the right side pump panel. This door shall have a stainless steel hinge and latching mechanisms.

The right side pump panel shall be vertically hinged to allow the panel to move away providing complete access to the pump compartment.

**1.12.31 PANEL FINISH**



The panels shall be constructed of brushed stainless steel for maximum protection against abrasion caused during normal use.

#### **1.12.32 COLOR CODING**

Each discharge valve control, outlet, and corresponding line gauge shall be color-coded.

#### **1.12.33 RUNNING BOARD TROUGH (LEFT SIDE)**

A trough shall be provided in the left side running board to hold a 15-foot length of 5" hose. Velcro straps shall be provided to secure the hose.

#### **1.12.34 RUNNING BOARD TROUGH (RIGHT SIDE)**

A trough shall be provided in the right side running board to hold a 15-foot length of 5" hose. Velcro straps shall be provided to secure the hose.

#### **1.12.35 FUEL GAUGE**

There will be a fuel gauge provided on the pump panel.

#### **1.12.36 PUMP PANEL LIGHTS LED**

The pump panel controls and gauges shall be illuminated by a minimum of two (2) LED lights, controlled at the pump panel.

#### **1.12.37 PUMP PANEL GAUGES AND CONTROLS**

The following shall be provided at the pump operator's panel:

- Two (2) certified laboratory test gauge outlets. Push/pull pump primer control.
- Master drain control and additional drains as needed.
- Tank fill and pump cooler valve controls. Tank to pump valve control.
- Pump capacity rating plate. All discharge controls.
- Two (2) master 4-1/2" pump gauges.
- 2-1/2" Gauges for all 1-1/2" and larger discharge lines.

#### **1.12.38 PRIMING SYSTEM**

The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multi- stage, venturi based AirPrime System. All wetted metallic parts of the priming system are to be of brass and stainless steel construction. A single panel mounted control will activate the priming pump and open the priming valve to the pump. The priming system shall have a five year warranty.



#### **1.12.39 (2) PRIMER BUTTON - MAIN SUCTION**

A single panel mounted control will activate the priming pump and open the priming valve to the pump. An additional primer control valve shall be furnished to prime the front suction line plumbing. The Trident Emergency products RPV (remote priming valve) shall activate using the same air that powers the AirPrime™ system when the coinciding panel valve is depressed. Priming the remote suction line evacuates air from that line and minimizes cavitation during remote suction operations. The valve control is to be co-located next to the main priming valve control on the pump operator's panel.

#### **1.12.40 THERMAL RELIEF VALVE**

There shall be a Hale TRV120 Thermal Relief Valve (TRV) supplied. The valve shall automatically dump a controlled amount of water to atmosphere when the pump water exceeds 120 degrees Fahrenheit. The valve shall re-set automatically. A light shall be provided at the pump panel, which will illuminate when the pump reaches 120 degrees Fahrenheit to warn the operator that the pump is automatically dumping.

#### **1.12.41 AIR HORN BUTTON**

A push button switch shall be provided on pump operator's panel to activate the air horns.

#### **1.12.42 AIR OUTLETS**

There shall be (2) air outlets on the pump panel. (1) On the right panel and (1) on the left panel.

#### **1.12.43 4.5" MASTER GAUGES**

Two (2) 4-1/2" Class 1 master gauges shall be provided. Each gauge shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40-degrees Fahrenheit. The cases shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area. To prevent internal freezing, and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage. The gauges shall be mounted next to each other adjacent to crosslay area at the right upper section of the pump operator's panel. The intake gauge shall be to the left of the discharge gauge.

#### **1.12.44 WATER TANK GAUGE**



A Class1 Intelli-Tank water level gauge shall be provided. The gauge shall feature wide-angle viewing and four (4) ultra-bright LED's for high visibility even in direct sunlight. Water level sensing shall be through a pressure transducer, and capable of indicating nine (9) accurate levels.

#### **1.12.45 WATER TANK GAUGE**

Two (2) Whelen PSTANK LED strip lights shall be provided. The lights shall be steady burn green, blue, amber and flashing red to indicate water level in the booster tank.

#### **1.12.46 FOAM TANK GAUGE**

A Class1 Intelli-Tank foam level gauge shall be provided. The gauge shall feature wide-angle viewing and four (4) ultra-bright LED's for high visibility even in direct sunlight. Foam level sensing shall be through a pressure transducer, and capable of indicating nine (9) accurate levels.

### **1.13 WATER TANK SPECIFICATIONS**

#### **1.13.1 WATER TANK**

The tank shall be constructed of PT3™ polypropylene material by United Plastic Fabricating (UPF). This material shall be a non-corrosive stress relieved thermoplastic and UV stabilized for maximum protection. Tank shell thickness may vary depending on the application and may range from ½ to 1” as required. Internal baffles are generally 3/8” in thickness.

The tank shall be of a specific configuration and shall be designed to be completely independent of the body and compartments. Joints and seams shall be fused using nitrogen gas as required and tested for maximum strength and integrity. The tank construction shall include PolyProSeal™ technology wherein a sealant shall be installed between the plastic components prior to being fusion welded. This sealing method will provide a liquid barrier offering leak protection in the event of a weld compromise.

The top of the booster tank shall be fitted with removable lifting assembly designed to facilitate tank removal. The transverse and longitudinal swash partitions shall be manufactured of a minimum of 3/8" PT3™ polypropylene. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. The partitions shall be designed to provide maximum water flow. All swash partitions shall interlock with one another and completely fused to each other as well as to the walls of the tank. All partitions and spacing shall comply with NFPA 1901.

The walls shall be welded to the floor of the tank providing maximum strength as part of the tank's unique Full Floor Design™.





The tank shall have a combination vent and manual fill tower. The fill tower shall be constructed of 1/2" PT3™ polypropylene and shall be a minimum dimension of 8" x 8" outer perimeter. The fill tower shall be blue in color indicating that it is a water-only fill tower. The tower shall have a 1/4" thick removable polypropylene screen and a PT3™ polypropylene hinged cover. The capacity of the tank shall be engraved on the top of the fill tower lid. Inside the fill tower there shall be a combination vent/overflow pipe. The vent overflow shall be a minimum of schedule 40 polypropylene pipe with a minimum I.D. of 4" that is designed to run through the tank, and shall be piped to discharge water behind the rear wheels as required in NFPA 1901 so as to not interfere with rear tire traction.

The tank cover shall be constructed of 1/2" thick PT3™ polypropylene and UV stabilized, to incorporate a multi-piece locking design, which allows for individual removal and inspection if necessary. The tank cover(s) shall be flush or recessed 3/8" from the top of the tank and shall be fused to the tank walls and longitudinal partitions for maximum integrity. Each one of the covers shall have hold downs consisting of 2" minimum polypropylene dowels spaced a maximum of 40" apart. These dowels shall extend through the covers and will assist in keeping the covers rigid under fast filling conditions. A minimum of two lifting dowels shall accommodate the necessary lifting hardware.

There shall be one (1) sump constructed of a minimum of 1/2" PT3™ polypropylene and be located in the left front quarter of the tank, unless specified otherwise. On all tanks that require a front suction, a 3" schedule 40 polypropylene pipe shall be installed that will incorporate a dip tube from the front of the tank to the sump location. The sump shall have a minimum 3" N.P.T. threaded outlet on the bottom for a drain plug per NFPA. This shall be used as a combination clean-out and drain. All tanks shall have an anti-swirl plate located approximately 3" above the inside floor.

There shall be two (2) standard tank outlets: one for the tank-to-pump suction line, which shall be sized to provide adequate water flow to the pump; and, one for tank fill line, which shall be sized according to the NFPA minimum size chart for booster tanks. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank, and be capable of withstanding sustained fill rates of up to 1000 G.P.M. All auxiliary outlets and inlets must meet all NFPA guidelines in effect at the time of manufacture.

The UPF Poly-Tank® III shall rest on the body cross members in conjunction with such additional cross members, spaced at a distance that would not allow for more than 530 square inches of unsupported area under the tank floor. In cases where overall height of the tank exceeds 40 inches, cross member spacing must be decreased to allow for not more than 400 square inches of unsupported area.

The tank shall be isolated from the cross members through the use of hard rubber strips with a minimum thickness and width dimension of 1/4" x 1". The rubber must be installed so it will not become dislodged during normal operation of the vehicle.



Additionally, the tank must be supported around the entire bottom outside perimeter and captured both in the front and rear as well as side to side to prevent tank from shifting during vehicle operation.

The tank shall be completely removable without disturbing or dismantling the apparatus structure.

The tank shall be tested and certified as to capacity on a calibrated and certified tilting scale. Each tank shall be weighed empty and full to provide precise fluid capacity. The tank shall be delivered with a Certificate of Capacity delineating the weight empty and full and the resultant capacity based on weight. Engineering estimates for capacity calculations shall not be permitted for capacity certification. A center of gravity and weight calculation for both empty and full conditions shall be required with each tank.

The tank shall have a limited Lifetime warranty that provides warranty service for the life of the fire apparatus in which the tank is installed. Warranties are transferable if the apparatus ownership changes by requesting the transfer from UPF. In applications where the tank will be subject to severe conditions, the tank may have a warranty unique to the application that is clearly defined for each such application.

### **1.13.2 WATER TANK SIZE**

The water tank shall have a capacity of 750 U.S. gallons.

## **1.14 APPARATUS BODY SPECIFICATIONS**

### **1.14.1 APPARATUS BODY**

The body shall be constructed of 3/16" #5052 aluminum sheet, #3003 bright aluminum diamond plate or Equal and structural aluminum extrusions. The body shall be of the modular design to allow for proper flexing of the truck chassis. The body shall be custom built and engineered for proper load distribution on the chassis. An insulator material shall be used where aluminum and steel are in contact to prevent corrosion.

The ceilings, sidewalls and floors of the body compartments shall be constructed of 3/16" 5052-H32 smooth aluminum plate with a tensile strength range of 32,000 to 44,000 psi. Continuous 5356 fill welding shall seal compartment panels.

The body framework shall be constructed of custom-designed aluminum alloy 6063-T5 extrusions with a tensile strength of 35,000 psi.

- To eliminate "dead space" and to maximize compartment interior space, there shall be no more than 1/4" between outer and inner walls.
- The compartment extrusions shall be slotted full-length on backside for uniform fitting of the aluminum plate work that forms the compartment interiors.



- The aluminum extrusion profiles shall incorporate 1" x 1-3/4" recessed continuous door seal at the bottom of the compartment. The extrusions shall be designed to allow unobstructed, sweep-out floors in all compartments.
- The front, top, and rear surfaces of body shall be covered with .125" bright aluminum diamond treadplate. The forward and rear recessed surfaces shall be flush with the corner extrusions.
- The compartment tops shall extend downward over the extrusions and form a drip molding. The material shall be .125 aluminum treadplate with approved aerated service for walking.
- The compartment assemblies are to be fastened to the sub-frame with mechanical Huck-type bolts.
- The apparatus body shall be a separate module from the pump enclosure and shall not be fastened together in any manner.
- Each compartment shall be properly vented with louvers.

#### **1.14.2 REAR STEP COMPARTMENTATION**

A1 - There shall be a compartment provided at the rear step. The compartment shall be approximately 40" wide x 40" high x 29-1/2" deep inside. The compartment shall be provided with a roll-up door.

#### **1.14.3 COMPARTMENTATION LEFT SIDE**

- L1- There shall be a compartment ahead of the rear wheels approximately 43" wide x 66" high x 27-1/4" deep.
- L2- There shall be a compartment above the rear wheels, approximately 61-1/2" wide x 36-1/2" high x 27-1/4" deep.
- L3- There shall be a compartment behind the rear wheels approximately 53" wide x 66" high x 27-1/4" deep.

#### **1.14.4 COMPARTMENTATION RIGHT SIDE**

- R1- There shall be a compartment ahead of the rear wheels approximately 43" wide x 66" high x 27-1/4" deep. The upper portion of the compartment shall be 10-1/2" deep to accommodate ladder storage.
- R2- There shall be a compartment above the rear wheels approximately 61-1/2" wide x 36-1/2" high x 10-1/2" deep.
- R3- There shall be a compartment behind the rear wheels approximately 53" wide x 66" high x 27-1/4" deep. The upper portion of the compartment shall be 10-1/2" deep to accommodate ladder storage.

#### **1.14.5 BODY SUB-FRAME**

The chassis shall be fitted with a sub-frame system consisting of a series of steel plate gusseted legs, extending down and out from the chassis frame rails on each side. This



system will provide additional structural support to the running boards and side compartments. A heavy-duty rear platform shall be constructed of the same material to support the rear compartments and rear step. The entire assembly will be attached to the chassis frame by a series of heavy-duty U-bolts. Self-supporting bodies will not be acceptable. Or Equal.

#### **1.14.6 COMPARTMENT INTERIOR - L1**

The L1 compartment on the left side of the apparatus shall include the following features:

- **ADJUSTABLE SHELF (2)**
  - o There shall be (2) adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of .188" aluminum plate.

#### **1.14.7 COMPARTMENT INTERIOR - L2**

The L2 compartment on the left side of the apparatus shall include the following features:

- **TILT DOWN DRAWER**
  - o A Slide-Master pull out drawer with 30 degree tilt down feature shall be provided and installed in the compartment. The drawer shall have a distributed load capacity of 250 lbs. and be capable of extending 90% of it's depth. The tray shall be fabricated of .188" aluminum plate and have a formed lip that measures 2".

#### **1.14.8 SPECIAL MOUNTING SHEET**

There will be a 3/16" aluminum sheet provided on the back of the L-2 Slide Out Tilt Down tray. It will be 17" high.

#### **1.14.9 COMPARTMENT INTERIOR - L3**

The L3 compartment on the left side of the apparatus shall include the following features:

- **ADJUSTABLE ROLLOUT DRAWER**
  - o There shall be a 250 lb. capacity rollout drawer supplied and installed in a compartment. The drawer shall be approximately 3" deep and shall be mounted on adjustable tracks.



- **TILT DOWN DRAWER**

- o A Slide-Master pull out drawer with 30 degree tilt down feature shall be provided and installed in the compartment. The drawer shall have a distributed load capacity of 250 lbs. and be capable of extending 90% of it's depth. The tray shall be fabricated of .188" aluminum plate and have a formed lip that measures 2".

- **600# SLIDE-MASTER TRAY**

- o There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" aluminum plate and have a formed lip that measures 2".

#### **1.14.10 COMPARTMENT INTERIOR - R1**

The R1 compartment on the right side of the apparatus shall include the following features:

- **ADJUSTABLE SHELF**

- o There shall be (2) adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of .188" aluminum plate.

- **600# SLIDE-MASTER TRAY**

- o There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" aluminum plate and have a formed lip that measures 2".

#### **1.14.11 COMPARTMENT INTERIOR - R2**

The R2 compartment on the right side of the apparatus shall include the following features:

- **250# ADJUSTABLE SWING-OUT TOOL BOARD**

- o A swing-out tool board with 250# rating shall be provided and mounted in a compartment. The tool board shall be constructed of a 1"



square aluminum tubing framework with a 3/16" aluminum mounting surface on each side. The tool board shall be adjustable within the depth of the compartment. It shall be held in the open position with a pneumatic strut and in the closed position with a positive latching mechanism.

#### **1.14.12 COMPARTMENT INTERIOR - R3**

The R3 compartment on the right side of the apparatus shall include the following features:

- **ADJUSTABLE SHELF (2)**
  - o There shall be (2) adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of .188" aluminum plate.
- **600# SLIDE-MASTER TRAY**
  - o There shall be a Slide-Master pullout drawer provided and installed. The drawer shall have a distributed load capacity of 600 lbs. and be capable of extending 70% of its depth. The tray shall be fabricated of .188" aluminum plate and have a formed lip that measures 2".

#### **1.14.13 COMPARTMENT INTERIOR - A1**

The A1 compartment on the rear of the apparatus shall include the following features:

- **ADJUSTABLE SHELF**
  - o There shall be an adjustable shelf provided and installed in the compartment. The shelf shall be fabricated of .188" aluminum plate.
- **ADJUSTABLE ROLLOUT DRAWER**
  - o There shall be a 250 lb. capacity rollout drawer supplied and installed in a compartment. The drawer shall be approximately 3" deep and shall be mounted on adjustable tracks.

#### **1.14.14 UNISTRUT**

Each compartment shall come equipped with 1.625" x .875" x .125" aluminum Unistrut channel. The Unistrut shall be securely fastened to the interior walls of the compartment.



#### **1.14.15 ROLL-UP COMPARTMENT DOORS**

The apparatus body shall be equipped with R.O.M Robinson Shutter doors. The door slats shall be double wall box frame, manufactured from anodized aluminum. The doors shall have the following features:

- Manufactured wholly in the United States.
- Concave individual slat design to prevent loose equipment from hindering door operation.
- Co-Extruded stretch resistant inner seal between slats to prevent metal-to-metal contact and inhibit moisture and dust penetration.
- Interlocking swaged/dimpled end shoes shall be utilized to provide a tight fitting assembly and allow for easy removal in the event of damage.
- Effective counter balancing for ease of lifting and lowering the doors.
- One-piece side rail and track to provide an unobstructed slide area and reduce the risk of binding.
- Non-abrasive replaceable water and dust barrier to keep compartment equipment clean and dry.
- A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.
- A full width positive latch bar shall be operable with one hand, even with heavy gloves. A door open indicator light shall be provided in the cab.

#### **1.14.16 DOOR LOCKS**

The compartment doors shall be equipped with locks. The locks shall all be keyed alike.

#### **1.14.17 COMPARTMENT LIGHTING**

Each compartment shall be equipped with two (2) LED light strips which shall provide a consistent pattern to illuminate to entire compartment.

#### **1.14.18 HOSE BED**

The hose bed shall be provided with aluminum slatted flooring radiused at the edges to prevent hose damage from sharp edges. Each hose bed floor section shall be removable for easy access to the water tank. The hose shall be capable of holding the following minimum loads and maximum distance from the ground:

- 500-gallon tank - 2000 feet of 5" LDH
- 750-gallon tank - 1500 feet of 5" LDH
- 1000-gallon tank - 1000 feet of 5" LDH



#### **1.14.19 HOSE BED COVER**

An aluminum two-piece, hinged hose bed cover constructed of .125" aluminum diamond plate and square aluminum extrusion shall be provided for the main hose bed.

#### **1.14.20 HOSE BED DIVIDERS**

The hose bed shall be divided by three (3) 3/16" aluminum partitions that are fully adjustable by sliding in tracks located at the front and rear of the hose bed. The dividers shall be located as needed.

One of the hose bed dividers will be installed horizontal across the front the of the hose bed to provide additional storage for large items.

#### **1.14.21 HOSE BED LIGHTS**

There will be LED strip lights provided one each side under the hose bed cover.

#### **1.14.22 HOSE BED BAR**

There will be a horizontal bar provide across the back of the truck just below the hose bed.

#### **1.14.23 BODY HANDRAILS**

Handrails shall be constructed of type 304 stainless steel 1.25 inch diameter tubing with bright finish and knurled gripping surface. Mounting flanges shall be constructed from 7 gauge, .180 thick, stainless sheet. Each grab rail shall have 90 degree returns to flanges. The ends of grab rail shall pass through the flanges and be welded to form one structural unit. The handrails, shall be mounted using 1.25" SS Hex bolts, with a barrier rubber gasket at each flange. Sufficient space shall allow for a gloved hand to firmly grip the rail. The rails shall be located in the following areas:

(Note: These are in addition to those previously mentioned in the cab section):

There shall be one (1) vertical handrail at rear of the body one each side of the rear compartment.

There shall be two (2) handrails mounted horizontally, above the pump panel, one (1) on each side as large as possible.

#### **1.14.24 FRONT BODY STEPS**





There shall five (5) fold-down steps mounted three (3) left and two (2) on the front face of body to provide access to the top of the pump module and dunnage area. The steps shall have a footing area of 42 square inches.

#### **1.14.25 REAR STEPS**

The rear of the body shall be equipped with fixed steps. The steps shall have a surface area sufficient to provide safe footing for a booted firefighter. Thinly fabricated aluminum steps shall not be utilized.

The quantity and location of steps and handrails shall meet the Current NFPA 1901 pamphlet in effect at the time the apparatus is ordered.

#### **1.14.26 RUB RAILS**

The body shall be equipped with anodized aluminum channel style rub rails at the sides. Rub rails shall be spaced away from the body by 1/2" polymer spacers. The rub rails shall be polished to a bright finish.

#### **1.14.27 ALUMINUM TREADPLATE**

All load bearing aluminum treadplate running boards shall be 3/16" thick bright-annealed finish. Running boards and rear step edges shall be flanged down for added strength. Running boards shall also be flanged up to form kick plates. All non-load bearing aluminum shall be 1/8" thick bright annealed finish.

Treadplate locations:

- a. Skirting around front bumper.
- b. The step at the cab entrance.
- c. The jump seat steps.
- d. The body header.
- e. The running boards.
- f. The rear step.
- g. The top of the compartments.
- h. The rear of the apparatus.
- i. The rear fenders.
- j. The hosebed side metal.

#### **1.14.28 AIR BOTTLE COMPARTMENTS**

There shall be four (4) SCBA bottle compartments located in the fender wells of the apparatus body, two (2) each side.



#### **1.14.29 SUCTION HOSE**

Two (2) 10 ft. lengths of 6" lightweight (KOCHEK) fire department hard suction hose with lightweight long handle couplings and pin lug male couplings shall be provided.

#### **1.14.30 SUCTION HOSE MOUNTING**

The suction hose shall be mounted in diamond plate troughs and held in position by a Velcro strap.

Stainless steel scuff plates shall be provided on the body side metal where the long handle couplings would otherwise hit the body sides.

#### **1.14.31 STRAINER**

A 6" Kochek barrel strainer shall be provided.

#### **1.14.32 GROUND LADDERS**

The apparatus shall be equipped with heavy duty, box type "I" beam rail, ground ladders. The ladders shall meet the requirements of NFPA 1931 to ensure proper design and that sufficient strength is available for the service intended. The ground ladders shall be constructed of aluminum with non-welded, field replaceable rung to rail connections to simplify field repairs and removable plated steel butt spurs for added strength. A full 1/2", non-rotting, poly rope shall be provided for easy ladder operation.

- One (1) Alco-Lite PEL-24 24 ft. two-section aluminum extension ladder.
- One (1) Alco-Lite PRL-14 14 ft. aluminum roof ladder.
- One (1) Alco-Lite FL-10' 10 ft. folding ladder.

The ladders shall have lifetime Warranty against manufacturing defects.

#### **1.14.33 LADDER CHUTE**

The ground ladders shall be mounted behind the right upper compartments in an area accessible from the rear of the apparatus. The ladders shall be individually located in holders lined with anti-wear strips. There shall also be storage for a 2" backboard and two (2) pike poles in the ladder chute compartment.

- An aluminum diamond plate door shall enclose the ladders at the rear.

#### **1.14.34 LICENSE PLATE BRACKET**

A Cast Products LP0013 cast aluminum license plate bracket with LED light shall be provided at the rear of the apparatus or equal.



#### **1.14.35 BACK-UP ALARM**

An Ecco model SA917 automatic self-adjusting electronic 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 or equal.

#### **1.14.36 EMS CABINET**

There will be an aluminum locked door provided approx. half way up the inside of the L-1 Compartment or L-1 can be split into locked upper and a lower compartments.

#### **1.14.37 MOUNT EQUIPMENT**

There will be labor provided to mount the department supplied equipment on the apparatus.

#### **1.14.38 COMPARTMENT MATTING- LARGE RESCUE PUMPER**

Turtle Tile interlock matting material shall be provided in each compartment and shelves.

### **1.15 LIGHTING**

#### **1.15.1 TAIL/STOP/TURN LIGHTS**

The taillights are to be Whelen 600 LED style. The brake/tail lights to be red and exceed SAE requirements. The turn signal shall be populated in an arrow pattern, amber in color. The backup lights are to be halogen. One opening shall be open to accept a 600 series warning light.

#### **1.15.2 LED ICC/MARKER LIGHTS**

LED type ICC/marker lights shall be provided to meet D.O.T. requirements.

#### **1.15.3 FLEXIBLE MARKER LIGHTS**

A Britax L427.200.L12V LED flexible marker light shall be mounted on the rear lower corners of the body, one each side.

#### **1.15.4 STEP LIGHTS**

The pump module running board area shall be illuminated by Whelen 2G 4" diameter LED lights mounted one each side on the front of the body in chrome flanges.

LED strip lighting shall be provided at the front and rear of the body to illuminate all stepping surfaces.



### **1.15.5 GROUND LIGHTING**

The apparatus shall be equipped with lighting capable of illumination to meet NFPA requirements. Lighting shall be provided at areas under the driver and crew riding area exits and shall be automatically activated when the exit doors are opened. The ground lights shall be Truck-lite® LED model #44042C. Lighting required in other areas such as work areas, steps and walkways shall be activated when the parking brake is applied, provided the ICC lights are on.

### **1.15.6 REAR WORK LIGHTS**

Two (2) Unity AG 6" halogen flood lights shall be provided. One (1) shall be mounted on each side on the upper rear of the apparatus body. The lights shall be activated by a switch inside the cab near the driver. The lights shall also have individual switches on each light head.

### **1.15.7 OPTICAL WARNING SYSTEM**

The optical warning system shall be capable of two separate signaling modes during emergency operations. One mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is calling for the right-of-way and the other mode shall signal that the apparatus is stopped and is blocking the right-of-way. Switching shall be provided that senses the position of the parking brake.

A master optical warning device switch shall be provided to energize all of the optical warning devices provided. All lights shall operate at not less than the minimum flash rate per minute as specified by NFPA.

### **1.15.8 UPPER LEVEL WARNING DEVICES**

The upper level is divided into zones A, B, C and D and the approved lighting package to be provided shall be as follows:

**Zone A (front)** shall have one (1) Whelen Freedom 4 72" Model F472QLED NFPA 1901 compliant light bar, with twelve (12) LED modules. The light bar shall have ten (10) red LED and two (2) clear LED heads and shall be mounted on the cab roof.

**Zone B (right side)** shall be covered by the module from the light bar and the right rear stanchion beacon.

**Zone C (rear)** shall have two (2) Whelen Model L31HRFN LED beacons, red, mounted on rear stanchions

**Zone D (left side)** shall be covered by the module from the light bar and the left rear stanchion beacons.



### **1.15.9 LOWER LEVEL WARNING DEVICES**

The lower level is divided into zones A, B, C and D and the approved lighting package to be provided shall be as follows:

**Zone A (front)** shall have a total of two (2) Whelen 600 Series LED red lights mounted one each side of the apparatus grille.

**Zone B (right side)** shall have two (2) Whelen 600 Series LED red lights mounted one (1) on the side of the headlight housing and one (1) in the fender well on the apparatus. There shall also be one (1) Whelen 500 Series LED red light located in the rub rail near the rear of the apparatus.

**Zone C (rear)** shall have two (2) Whelen 600 Series LED red lights mounted one each side of the rear of the apparatus as part of the tail light cluster.

**Zone D (left side)** shall have two (2) Whelen 600 Series LED red lights mounted one (1) on the side of the headlight housing and one (1) in the fender well on the apparatus. There shall also be one (1) Whelen 500 Series LED red light located in the rub rail near the rear of the apparatus.

### **1.15.10 LED WARNING LIGHTING**

There shall be four pair of Whelen Model 600 Series Super LED red lights mounted on the apparatus. The placement of the lights is to be determined by the fire department.

### **1.15.11 TRAFFIC ADVISOR**

A Whelen LED TAL65 Traffic Advisor with a TACTRL1 Control Head shall be provided. The low profile Traffic Advisor is approximately 1-1/2" high x 2-1/2" deep x 36" long. The six (6) LED lamp group is in a cap style extruded aluminum housing with black powder painted finish and surface mounted to eliminate large body panel cutouts. The high intensity LED's are rated for over 100,000 hours of operation and have extremely low current consumption. The Control Head has a four function rotary switch for selection of: center to left, center to right, center to left and right, or flash patterns. The dip switch on the rear panel selects the choice of eight (8) different programmable flash patterns. The Control Head features a visual LED status display.

### **1.15.12 WHELEN MINI BARS**

There will be (2) Whelen LED mini light bars installed one each side over the rear cab doors. Whelen FT\*RRRRP

### **1.15.13 WHELEN PIONEER PLUS LED BROW LIGHT**



A Whelen model PFP2 LED brow light shall be provided. The light shall be mounted at the front of the cab. The light shall be controlled from a switch in the cab.

#### **1.15.14 LED LIGHT WHELEN PIONEER**

- Two (2) Whelen Model PFP2 Pioneer Plus Dual Panel LED floodlight shall be provided.
- The light shall be housed in a heavy-duty aluminum housing.
- Lumens: 10,000
- Amps: 13
- Volts: 12.8 DC Bulb Type: LED Width: 14" Height: 4-5/8" Depth: 3"
- The light shall be mounted on a telescoping pole. A switch shall be located at the light head.

#### **1.16 CORROSION REDUCTION POLICY / PAINTING**

It is understood that fire apparatus will operate in harsh environments. The manufacturer must have in place a formal corrosion reduction program and detailed assembly procedures, designed for reducing and eliminating the possibility of corrosion. A formal program following the processes as set forth in ASTM B117, and is described below.

- **FRAME RAILS**

The chassis frame rails shall be coated with a high performance, two component, reinforced inorganic zinc rich primer with a proven cathodic protection makeup preferably Cathacoat 302HB. The surface shall be clean and free of all salts, chalk and oils prior to application. Were the primer has been broken during the frame assembly process the area shall be touch up to reestablish the seal. Prior to finish paint a second primer Devran 201 shall be applied. Once the assembly of the frame is complete and the second primer is applied the entire assembly shall be covered with high quality top coat paint preferably Imron 5000 or equal.

- **ELECTRO PLATING**

Steel and Iron brackets such as the pump module bracket shall be Zinc or cadmium plated to protect against corrosion. Plating shall be in accordance with ASTM B663.

- **FASTENERS**

In any area that a stainless steel screw or bolt head is to come in contact with aluminum or steel, painted or non-painted, the fastener shall have the underside of the head pre-coated with nylon. The nylon coating shall act as a barrier between the fastener head and the metal or painted surface.



Screw or bolt taped into the metal shall be pre-coated with a Threadlocker type material pre-applied on the threads.

When bolting together stainless steel the pan-head bolts with nylon coating under the head, a stainless washer with a rubber backing, and a Stover flange nut to secure the bolt, shall be utilized.

When mounting aluminum components such as a step to the apparatus body, stainless steel washers with rubber backing shall be used. All mounted components shall utilize barrier material between the two surfaces.

All rivet or huck type fasteners shall be of the same material being secured.

Whenever possible, holes shall be pre-drilled and taped when mounting components such as lights, steps, and hand rails prior to the paint process to reduce the corrosion opportunity. If a hole must be drilled into a previously painted surface, the paint barrier around the hole shall be re-established and a flange-type nutsert with a gasket under the flange shall be used.

When possible, the use of stainless trim screws shall be minimized. Structural tape and or adhesive shall be used were possible for mounting trim to the body or cab.

If a pre-treated screw or bolt is not available, hand applied Dynatex Boltlocker or Theadlocker shall be placed on the threads of the screw, bolt or nutsert. This will help seal threads from moisture and help prevent the fasteners from loosening. If lubricant is used when tapping the hole, the hole will be cleaned of lubricant and the shavings before applying.

- **BARRIER TAPE**

Barrier tape shall be used on the backsides of all lights, trim pieces, or other components when bolting them to the apparatus; also when attaching stainless steel over an aluminum surface or when attaching aluminum treadplate to the stainless steel. All instances of dis-similar metals contacting each other require the addition of barrier tape between the metals where contact is made.

Before applying the tape, all metal surfaces shall be clean from oil or dirt with a 50/50 mix of alcohol and water or a similar solvent.

- **GASKETS**



Gaskets shall be used under all snaps, loops and fasteners for such items as for hose bed covers. The paint seal shall be re-established around the mounting hole edges after drilling.

- **ROLLUP DOORS**

1 3/4" X 1/16" barrier tape shall be used on the frame opening to act as barrier between the aluminum door rail and the painted door opening surface.

- **HINGED DOORS**

Barrier tape shall be applied to the painted surface of the body and on the painted hinge side of the door.

- **PAINTING STEEL**

Steel shall be wiped of any oil residue, rust, and weld slag or smoke shall be removed. All surfaces shall be cleaned with solvent, primed, and then sprayed with a topcoat. After bolts are tightened to the proper torque, bolts shall be touched up with primer or cold galvanizing coating.

- **MOUNTING EMERGENCY LIGHTS AND OPTIONS**

All emergency lights, accessory mountings, Kussmaul covers, and 110 outlet boxes mounted to the body should be mounted with pre-coated Threadlocker and nylon under the head screws or bolts to minimize corrosion between dissimilar metals.

- **ELECTRICAL GROUNDING**

Grounding straps shall be installed consisting of a minimum 2-gauge strap bolted to the chassis frame.

A ground cable from the cab to the right side frame rail from the alternator to the right side frame rail. From the pump module frame to the right side truck frame. Aerials: from the hydraulic and pump module framework. From the pump mount to the truck frame rail. From the body module to the right side truck frame.

Proper grounding will help eliminate grounding problems, and will reduce the possibility for electrolysis and corrosion to occur, as a result of impressed current be presented to the chassis. All electrical connection points shall be sprayed with electrical sealer as necessary.

### **1.16.1 PAINT**





All exposed metal surfaces not chrome plated, polished stainless steel or bright aluminum tread plate shall be thoroughly cleaned and prepared for painting. All irregularities in painted surfaces shall be rubbed down and all seams shall be caulked before the application of the finish coat.

All removable items such as brackets, compartment doors, door hinges, trim, etc. shall be removed and painted separately to insure finish paint behind all mounted items. Body assemblies that cannot be finish painted after assembly shall be finish painted before assembly. Both aluminum and steel surfaces to be painted shall be primed with a two (2)-component primer which is compatible with the finish coat. The apparatus shall be finish painted with a polyurethane base/clear system. "No Exception"

A barrier gasket/washer of "High Density Closed Cell Urethane Foam" shall be used behind all lights, handrails, door hardware and any miscellaneous items such as stainless steel snaps, hooks, washers and acorn nuts. The gaskets/washers shall be coated with pressure sensitive acrylic adhesive. All screws used to penetrate painted surfaces shall be pre-treated/coated under the head with nylon and the threads shall have re-coat #80. This procedure shall be strictly adhered to for corrosion prevention and damage to the finish painted surfaces.

The following paint process shall be utilized:

- **SURFACE PREPARATION:**
  - a. Wash surface thoroughly with mild detergent.
  - b. Clean and de-grease with Prep-Sol 3812S.
  - c. Sand and feather edge using 400 grit or finer on a dual action sander.
  - d. Remove sanding dust with a cleaner compatible with polyurethane base coat/clear coat final finish.
- **SUBSTRATE TREATMENT:**
  - a. Use a Metal Conditioner followed with a Conversion Coating product.
- **PRIMING:**
  - a. Use a priming 615S pretreatment.
  - b. Use a self-etching primer applied to achieve a 1.5 mil dft minimum.
  - c. Use Prime N Seal sealer compatible with polyurethane base coat.
- **COLOR COAT:**
  - a. Apply polyurethane base coat 1-2 mil dft minimum.



- **CLEAR COAT:**

- a. Apply polyurethane clear coat 2 mil dft minimum.

#### **1.16.2 PAINT-TWO TONE CAB**

The cab exterior surfaces shall be two (2) colors. The paint break line shall be at the bottom of the windshield.

#### **1.16.3 PAINTED FRAME**

The frame rails and body subframe shall be painted glossy black.

#### **1.16.4 LETTERING**

Forty (40) 3" Scotchlite letters, with left hand shading and right hand outline to equal 3-5/8" letter, shall be provided. Lettering will match Pembroke Fire Rescue Fleet.

#### **1.16.5 EMBLEM**

The fire department emblems shall be provided on the cab doors in 22KT Gold laminate.

#### **1.16.6 STRIPING**

A 6" Scotchlite stripe shall be provided across the front of the cab and along each side of the apparatus.

#### **1.16.7 "Z" STRIPE**

The Scotchlite stripe shall be a one-piece "Z" type on the cab sides and continuing straight along each side of the apparatus.

An additional 1" Scotchlite stripe shall be provided.

#### **1.16.8 STRIPE EDGING**

A 1/8" black edge shall be provided above and below Scotchlite stripe.

#### **1.16.9 CHEVRON STRIPING, REAR BODY OUTBOARD, ORAFOLREFLEXITE**

The apparatus shall have 6" red and yellow reflective Orafol Reflexite Chevron style striping affixed to the outboard rear body panels. The striping will be set in a manner to



have the effect of an inverted “V” shape. The stripe will travel low to high from the outside to the inside.

#### **1.16.10 CHEVRON STRIPING, REAR COMPT. DOOR, ORAFOL REFLEXITE**

In addition to the outboard rear body panels, the rear compartment door shall also be covered with 6” red and yellow reflective Orafol Reflexite Chevron style striping.

#### **1.16.11 CHEVRON STRIPING, ABOVE REAR COMPT.DOOR, ORAFOL REFLEXITE**

In addition to the outboard rear body panels, the panel above the rear compartment door shall also be covered with 6” red and yellow reflective Orafol Reflexite Chevron style striping.

#### **1.16.12 CHEVRON STRIPING, FRONT BUMPER, ORAFOL REFLEXITE**

The apparatus shall have 6” red and yellow reflective Orafol Reflexite Chevron style striping affixed to the front bumper. The striping will be set in a manner to have the effect of an inverted “V” shape.

### **1.17 MISCELLANEOUS**

#### **1.17.1 EQUIPMENT FURNISHED**

- a. 1 pt. touch-up paint.
- b. A bag of stainless steel nuts and bolts, as used in the construction of the apparatus.

#### **1.17.2 WHEEL CHOCKS**

Two (2) Ziamatic #SAC-44 folding wheel chocks with SQCH-44H holders shall be provided. The wheel chocks shall be located in an area close to the rear axles easily accessible from the side of the apparatus.

#### **1.17.3 OPERATION AND SERVICE MANUALS**

Complete "Operation and Service" manuals shall be supplied with the completed apparatus, one (1) printed copy and one (1) CD. Service manual instructions shall include service, maintenance and troubleshooting for major and minor components of the truck. The apparatus manufacturer shall supply part numbers for major components (i.e. Engine, Axles, Transmission, Pump, etc.). A table of contents, hydraulic, air brake and overall apparatus wiring schematics shall be included.



A video demonstration DVD on the operation of the truck shall be supplied with the manuals.

#### **1.17.4 REAR VISION CAMERA**

Provided and mounted on the apparatus shall be a Safety Vision SV-CLCD-70 camera kit. The system shall consist of one (1) cab mounted model SV-LCD70 7" LCD monitor, two (2) model SV-620 (Color) high resolution 1/3" CCD cameras, one for back up, mounted on the rear and one for blind spot vision, indicator activated, mounted rearward facing passenger's side cowl.

#### **1.17.5 ELKHART DECK GUN**

There will be an Elkhart Stinger deck gun provided with a 5" ground base, truck mount, stream shaper, and quad stacked tips.

#### **1.17.6 HONDA GENERATOR**

There will be a Honda EU2000i portable generator will be provided and shipped loose with the truck.

### **1.18 PROPOSAL REQUIREMENTS**

All proposals shall address and be presented as outlined below:

#### **1.18.1 CONTACT INFORMATION FORM**

Attached is contact information form (Attachment A) where the vendor will enter their contact information and complete the proposal checklist. The Contact information form shall be electronically signed by the contact person authorized to represent the contractor. This form must be completed and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

- Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.
- The contact information form should contain an electronic signature of the authorized representative of the Proposer along with the address and telephone number for communications regarding the Proposal.



- Proposals by corporations should be executed in the corporate name by the President or other corporate officer accompanied by evidence of authority to sign. The corporate address and state of incorporation must also be shown.
- Proposals by partnerships should be executed in the partnership name and signed by a partner whose title and the official address of the partnership must be shown.

### **1.18.2 STANDARD QUALIFYING DATA, FORMS, AND CERTIFICATIONS**

The following documents will need to be completed, scanned and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder's submittal:

1. City of Pembroke Pines Vendor Information Form and a W-9. (Attachment B)
  - i. In addition to the Vendor Information Form, please ensure that you provide the completed W-9 (Rev. December 2014), as previously dated versions of this form will delay the processing of any payments to the awarded vendor.
2. Non-Collusive Affidavit (Attachment C)
3. Sworn Statement on Public Entity Crimes Form (Attachment D)
4. Local Vendor Preference Certification, if applicable. (Attachment E)
5. Veteran Owned Small Business Preference Certification (Attachment F)
6. Equal Benefits Certification Form (Attachment G)
7. Proposer's Qualification Statement (Attachment H)
8. Reference Form (Attachment K)

### **1.19 EVALUATION OF PROPOSALS & PROCESS OF SELECTION**

- A. Staff will evaluate all responsive proposals received from proposers who meet or exceed the bid requirements contained in the IFB. Evaluations shall be based upon the information contained in the proposals as submitted.
- B. Staff will make a recommendation to the City Commission for award of contract.

### **1.20 TENTATIVE SCHEDULE OF EVENTS**

<b>Event</b>	<b>Time &amp;/or Date</b>
Issuance of Solicitation (Posting Date)	<b>January 17, 2017</b>
Question Due Date	<b>January 30, 2017</b>
Anticipated Date of Issuance for the Addenda with Questions and Answers	<b>February 02, 2017</b>
Proposals will be accepted until	<b>2:00 p.m. on February 14, 2017</b>
Proposals will be opened at	<b>2:30 p.m. on February 14, 2017</b>
Evaluation of Proposals by Staff	<b>TBD</b>
Recommendation of Contractor to City Commission award	<b>TBD</b>



## **1.21 SUBMISSION REQUIREMENTS**

Bids/proposals **must be submitted electronically** at [www.bidsync.com](http://www.bidsync.com) on or before 2:00 p.m. on February 14, 2017.

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation.

The vendor must provide their pricing through the designated lines items listed on the BidSync website. In addition, the vendor must complete any webforms on the BidSync website and provide any additional information requested throughout this solicitation. Any additional information requested in the solicitation should be scanned and uploaded. **Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package.**

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time.

**PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX.**



## **SECTION 2 - INSURANCE REQUIREMENTS**

The CONTRACTOR shall indemnify and hold harmless the CITY and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the CITY or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the CONTRACTOR or its employees, agents, servants, partners principals or subcontractors. The CONTRACTOR shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the CITY, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may issue thereon. The CONTRACTOR expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by the CONTRACTOR shall in no way limit the responsibility to indemnify, keep and save harmless and defend the CITY or its officers, employees, agents and instrumentalities as herein provided.

CONTRACTOR shall not commence work under this Agreement until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.

**CERTIFICATES OF INSURANCE**, reflecting evidence of the required insurance, shall be filed with the City's Risk Manager prior to the commencement of this Agreement. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. The insurance company shall be rated no less than "A" as to management, and no less than "Class VI" as to financial strength according to the latest edition of Best's Insurance Guide published by A.M. Best Company.

Policies shall be endorsed to provide the CITY thirty (30) days notice of cancellation, material change or non-renewal of policies required under the contract. If the carrier will not agree to this notification, the CONTRACTOR or its insurance broker shall notify the CITY of any cancellation or reduction in coverage within seven days of receipt of insurer's notification of cancellation or reduction in coverage.

Insurance shall be in force until all obligations required to be fulfilled under the terms of the Agreement are satisfactorily completed as evidenced by the formal acceptance by the CITY. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, then in that event, the CONTRACTOR shall furnish, at least fifteen (15) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall not commence nor continue to provide any services pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.

The insurance requirements specified in this Agreement are minimum requirements and in no way reduce any liability the CONTRACTOR has assumed in the indemnification/hold harmless section(s) of this Agreement.



## 2.1 REQUIRED INSURANCE

- A. COMMERCIAL GENERAL LIABILITY INSURANCE** including, but not limited to: coverage for premises & operations, personal & advertising injury, products & completed operations, Liability assumed under an Insured Contract (including tort liability of another assumed in a business contract), and independent contractors. Coverage must be written on an occurrence basis, with limits of liability no less than:

1. Each Occurrence Limit - \$1,000,000
2. Fire Damage Limit (Damage to rented premises) - \$100,000
3. Personal & Advertising Injury Limit - \$1,000,000
4. General Aggregate Limit - \$2,000,000
5. Products & Completed Operations Aggregate Limit - \$2,000,000 (**mostly for construction or equipment sold to the CITY**)

Products & Completed Operations Coverage shall be maintained for two (2) years after the final payment under this contract. (Increase to 10 years for construction projects) (For construction projects also include: Designated Construction Project(s) General Aggregate Limit)

**The City of Pembroke Pines must be shown as an additional insured with respect to this coverage.** City's Additional Insured status shall extend to any coverage beyond the minimum requirements for limits of liability found herein.

- B. WORKERS' COMPENSATION AND EMPLOYERS LIABILITY INSURANCE** covering all employees, and/or volunteers of the CONTRACTOR engaged in the performance of the scope of work associated with this Agreement. In the case any work is sublet, the CONTRACTOR shall require the subcontractors similarly to provide Workers Compensation Insurance for all the latter's employees unless such employees are covered by the protection afforded by the CONTRACTOR. Coverage for the CONTRACTOR and his subcontractors shall be in accordance with applicable state and/or federal laws that may apply to Workers' Compensation Insurance with limits of liability no less than:

1. Workers' Compensation : Coverage A – Statutory
2. Employers Liability: Coverage B \$500,000 Each Accident  
\$500,000 Disease – Policy Limit  
\$500,000 Disease – Each Employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

Coverage shall be included for injuries or claims under the USL&H or Jones Act, when applicable.

## 2.2 REQUIRED ENDORSEMENTS

1. The City of Pembroke Pines shall be named as an Additional Insured on each of the General Liability policies required herein





2. Waiver of all Rights of Subrogation against the CITY
3. 30 Day Notice of Cancellation or Non-Renewal to the CITY
4. CONTRACTORS' policies shall be Primary & Non-Contributory
5. All policies shall contain a "severability of interest" or "cross liability" liability clause without obligation for premium payment of the CITY
6. The City of Pembroke Pines shall be named as a Loss Payee on all Property and/or Inland Marine Policies as their interest may appear.

CONTRACTOR shall name the CITY, as an additional insured on each of the General Liability policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder. Any insurance required of the CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

The CITY reserves the right to require any other additional types of insurance coverage and/or higher limits of liability it deems necessary based on the nature of work being performed under this Contract.



## **SECTION 3 - GENERAL TERMS & CONDITIONS**

### **3.1 EXAMINATION OF CONTRACT DOCUMENTS**

Before submitting a Proposal, each Proposer should (a) consider federal, state and local laws, ordinances, rules and regulations that may in any manner affect cost or performance of the work, (b) study and carefully correlate the Proposer's observations with the Proposal Documents; and (c) notify the Purchasing Manager of all conflicts, errors and discrepancies, if any, in the Proposal Documents.

The Proposer, by and through the submission of a Proposal, agrees that Proposer shall be held responsible for having familiarized themselves with the nature and extent of the work and any local conditions that may affect the work to be done and the services, equipment, materials, parts and labor required.

### **3.2 CONFLICT OF INSTRUCTIONS**

If a conflict exists between the General Conditions and Instructions stated herein and specific conditions and instructions contained in specifications, the specifications shall govern.

### **3.3 ADDENDA or ADDENDUM**

A formal solicitation may require an Addendum to be issued. An addendum in some way may clarify, correct or change the original solicitation (i.e. due date/time, specifications, terms, conditions, line item). Vendors submitting a proposal should check the BidSync website for any addenda issued. Vendors are cautioned not to consider verbal modifications to the solicitation, as the addendum issued through BidSync will be the only official method whereby changes will be made.

### **3.4 INTERPRETATIONS AND QUESTIONS**

If the Proposer is in doubt as to the meaning of any of the Proposal Documents, is of the opinion that the Conditions and Specifications contain errors or contradictions or reflect omissions, or has any question concerning the conditions and specifications, the Proposer shall submit a question for interpretation or clarification. The City requires all questions relating to the solicitation be entered through the "**Ask a Question**" option tab available on the BidSync website. Responses to the questions will be provided online at [www.bidsync.com](http://www.bidsync.com). Such request must be received by the "**Question Due Date**" stated in the solicitation. Questions received after "**Question Due Date**" shall not be answered. Interpretations or clarifications in response to such questions will be issued via BidSync. The issuance of a response via BidSync is considered an Addendum and shall be the only official method whereby such an interpretation or clarification will be made.

BidSync Support is also available to assist proposers with submitting their proposal and to ensure that proposers are submitting their proposals correctly. Proposers should ensure that they contact the BidSync support line at 1-800-990-9339 with ample time before the bid closing date and time.

For all other questions related to this solicitation, please contact the Purchasing Division at [purchasing@ppines.com](mailto:purchasing@ppines.com).

### **3.5 RULES, REGULATIONS, LAWS, ORDINANCES and LICENSES**

The awarded contractor shall observe and obey all laws, ordinances, rules, and regulations of the federal, state, and CITY, which may be applicable to the service being provided. The awarded firm shall have or be responsible for obtaining all necessary permits or licenses required, if necessary, in order to provide this service.



Bidder warrants by submittal that prices quoted here are in conformity with the latest federal price guidelines, if any.

### **3.6 WARRANTIES FOR USAGE**

Whenever a bid is sought, seeking a source of supply for a specified time for materials or service, the quantities or usage shown are estimated only. No guarantee or warranty is given or implied by the City as to the total amount that may or may not be purchased from any resulting contracts. These quantities are for bidders information only and will be used for tabulation and presentation of bid.

### **3.7 BRAND NAMES**

If and wherever in the specifications a brand name, make, name of manufacturer, trade name, or vendor catalog number is mentioned, it is for the purpose of establishing a grade or quality of material only. Since the City does not wish to rule out other competition and equal brands or makes, the phrase "OR EQUAL" is added. However, if a product other than that specified is bid, Bidders shall indicate on their proposal and clearly state the proposed substitution and deviation. It is the vendor's responsibility to provide any necessary documentation and samples within their bid submittal to prove that the product is equal to that specified. Such samples are to be furnished before the date of bid opening, unless otherwise specified. Additional evidence in the form of documentation and samples may be requested if the proposed brand is other than that specified. The City retains the right to determine if the proposed brand shall be considered as an approved equivalent or not.

### **3.8 QUALITY**

All materials used for the manufacture or construction of any supplies, materials, or equipment covered by this bid shall be new, the latest model, of the best quality, and

highest grade workmanship, unless otherwise noted.

### **3.9 SAMPLES**

Samples, when requested, must be furnished before, or at the bid opening, unless otherwise specified, and delivered free of expense to the City and if not used in testing or destroyed, will upon request within thirty (30) days of bid award be returned at the bidders expense.

### **3.10 DEVELOPMENT COSTS**

Neither the City nor its representatives shall be liable for any expenses incurred in connection with the preparation, submission or presentation of a Bid in response to this Invitation for Bid. All information in the Bid shall be provided at no cost to the City.

### **3.11 PRICING**

Prices should be stated in units of quantity specified in the bidding specifications. In case of discrepancy in computing the amount of the bid, the unit prices quoted will govern.

Bidder warrants by virtue of bidding that prices, terms, and conditions quoted in his bid will be firm for acceptance for a period of ninety (90) days from date of bid opening unless otherwise stated by the City or bidder.

### **3.12 DELIVERY POINT**

All items shall be delivered F.O.B. destination, and delivery cost and charges included in the bid price. Failure to do so may be cause for rejection of bid.

### **3.13 TAX EXEMPT STATUS**

The City is exempt from Florida Sales and Federal Excise taxes on direct purchase of tangible property.

### **3.14 CONTRACT TIME**

By virtue of the submission of the Proposal, Proposer agrees and fully understands that



the completion time of the work of the Contract is an essential and material condition of the Contract and that time is of the essence. The Successful Proposer agrees that all work shall be prosecuted regularly, diligently and uninterrupted at such rate of progress as will ensure full completion thereof within the time specified. Failure to complete the work within the time period specified shall be considered a default.

In addition, time will be of the essence for any orders placed as a result of this bid. Purchaser reserves the right to cancel such orders, or part thereof, without obligation if delivery is not made at the time(s) or place(s) specified.

### **3.15 COPYRIGHT OR PATENT RIGHTS**

Bidder warrants that there have been no violations of copyrights or patent rights in manufacturing, producing, or selling other goods shipped or ordered as a result of this bid, and seller agrees to hold the purchaser harmless from any and all liability, loss or expense occasioned by such violation.

### **3.16 PUBLIC ENTITY CRIMES**

"A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list."

The Public Entity Crime Affidavit Form, attached to this solicitation, includes

documentation that shall be executed by an individual authorized to bind the Proposer. The Proposer further understands and accepts that any contract issued as a result of this solicitation shall be either voidable or subject to immediate termination by the City. In the event there is any misrepresentation or lack of compliance with the mandates of Section 287.133 or Section 287.134, respectively, Florida Statutes. The City in the event in such termination, shall not incur any liability to the Bidder for any goods, services or materials furnished.

### **3.17 CONFLICT OF INTEREST**

The award of any contract hereunder is subject to the provisions of Chapter 112, Florida Statutes. Proposers must disclose with their Proposal the name of any officer, director, partner, proprietor, associate or agent who is also an officer or employee of CITY or any of its agencies. Further, all Proposers must disclose the name of any officer or employee of CITY who owns, directly or indirectly, an interest of five percent (5%) or more in the Proposer's firm or any of its branches or affiliate companies.

### **3.18 FACILITIES**

The City reserves the right to inspect the Bidder's facilities at any time with prior notice.

### **3.19 ENVIRONMENTAL REGULATIONS**

CITY reserves the right to consider Proposer's history of citations and/or violations of environmental regulations in determining a Proposer's responsibility, and further reserves the right to declare a Proposer not responsible if the history of violations warrant such determination. Proposer shall submit with the Proposal, a complete history of all citations and/or violations, notices and dispositions thereof. The non-submission of any such documentation shall be deemed to be an affirmation by the Proposer that there are no citations or violations. Proposer shall notify



CITY immediately of notice of any citation or violation that Proposer may receive after the Proposal opening date and during the time of performance of any contract awarded to Proposers.

### **3.20 SIGNATURE REQUIRED**

All proposals must be signed with the firm name and by an officer or employee having authority to bind the company or firm by his signature. FAILURE TO PROPERLY SIGN PROPOSAL SHALL INVALIDATE SAME, AND IT MAY NOT BE CONSIDERED FOR AWARD.

The individual executing this Bid on behalf of the Company warrant to the City that the Company is authorized to do business in the State of Florida, is in good standing and that Company possesses all of the required licenses and certificates of competency required by the State of Florida and Broward County to provide the goods or perform the services herein described.

The signed bid shall be considered an offer on the part of the bidder or contractor, which offer shall be deemed accepted upon approval by the City Commission of the City of Pembroke Pines and in case of default on the part of the bidder or contractor after such acceptance, the City of Pembroke Pines may take such action as it deems appropriate including legal action for damages or specific performance.

### **3.21 MANUFACTURER'S CERTIFICATION**

The City of Pembroke Pines reserves the right to request from bidder separate manufacturer certification of all statements made in the proposal.

### **3.22 MODIFICATION OR WITHDRAWAL OF PROPOSAL**

The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync

website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals.

### **3.23 PUBLIC BID; BID OPENING AND GENERAL EXEMPTIONS**

All submittals received by the deadline will be recorded, and will subsequently be publicly opened on the same business day at 2:30 p.m. at the office of the City Clerk, 10100 Pines Boulevard, Pembroke Pines, FL.

All Proposals received from Proposers in response to the solicitation will become the property of CITY and will not be returned to the Proposers. In the event of Contract award, all documentation produced as part of the Contract shall become the exclusive property of CITY. Proposers are requested to identify specifically any information contained in their Proposals which they consider confidential and/or proprietary and which they believe to be exempt from disclosure, citing specifically the applicable exempting law.

Pursuant to Section 119.071 of the Florida Statutes, sealed bids, proposals, or replies received by a Florida public agency shall remain exempt from disclosure until an intended decision is announced or until 30 days from the opening, whichever is earlier.

Therefore, bidders will not be able to procure a copy of their competitor's bids until an intended decision is reached or 30 days has elapsed since the time of the bid opening.

However, pursuant to Section 255.0518 of the Florida Statutes, when opening sealed bids that are received pursuant to a competitive solicitation for **construction or repairs on a public building or public work**, the entity shall:

- (a) Open the sealed bids at a public meeting.
- (b) Announce at that meeting the name of each bidder and the price submitted in the bid.





- (c) Make available upon request the name of each bidder and the price submitted in the bid.

For solicitations that are **not** for **“construction or repairs on a public building or public work”** the City shall not reveal the prices submitted in the bids until an intended decision is announced or until 30 days from the opening, whichever is earlier.

### **3.24 RESERVATIONS FOR REJECTION AND AWARD**

The City of Pembroke Pines reserves the right to accept or reject any and all bids or parts of bids, to waive irregularities and technicalities, and to request rebids. The City also reserves the right to award a contract on such items(s) or service(s) the City deems will best serve its interests. All bids shall be awarded to the most responsive/responsible bidder, provided the (City) may for good cause reject any bid or part thereof. It further reserves the right to award a contract on a split order basis, or such combinations as shall best serve the interests of the City unless otherwise specified. No premiums, rebates or gratuities permitted, either with, prior to, or after award. This practice shall result in the cancellation of said award and/or return of items (as applicable) and the recommended removal of bidder from bid list(s).

### **3.25 BID PROTEST**

Any protests or challenges to this competitive procurement shall be governed by Section 35.38 of the City's Code of Ordinances.

### **3.26 INDEMNIFICATION**

The Successful Proposer shall pay all claims, losses, liens, settlements or judgments of any nature whatsoever in connection with the subsequent indemnifications including, but not limited to, reasonable attorney's fees (including appellate attorney's fees) and costs.

CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of Successful Proposer under the indemnification agreement. Nothing contained herein is intended nor shall it be construed to waive City's rights and immunities under the common law or Florida Statute 768.28 as amended from time to time.

Additional indemnification requirements may be included under Special Terms and Conditions and/or as part of a specimen contract included in the solicitation package.

**General Indemnification:** To the fullest extent permitted by laws and regulations, Successful Proposer shall indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, harmless from any and all claims, damages, losses, liabilities and expenses, direct, indirect or consequential arising out of or in consequential arising out of or alleged to have arisen out of or in consequence of the products, goods or services furnished by or operations of the Successful Proposer or his subcontractors, agents, officers, employees or independent contractors pursuant to or in the performance of the Contract.

**Patent and Copyright Indemnification:** Successful Proposer agrees to indemnify, defend, save and hold harmless the CITY, its officers, agents and employees, from all claims, damages, losses, liabilities and expenses arising out of any alleged infringement of copyrights, patent rights and/or the unauthorized or unlicensed use of any invention, process, material, property or other work manufactured or used in connection with the performance of the Contract, including its use by CITY.

### **3.27 DEFAULT PROVISION**

In the case of default by the bidder or contractor, the City of Pembroke Pines may procure the articles or services from any



other sources and hold the bidder or contractor responsible for any excess costs occasioned or incurred thereby.

The City shall be the sole judge of nonperformance, which shall include any failure on the part of the successful Bidder to accept the Award, to furnish required documents, and/or to fulfill any portion of the contract within the time stipulated. Upon default by the successful Bidder to meet any terms of this agreement, the City will notify the Bidder five (5) days (weekends and holidays excluded) to remedy the default. Failure on the Contractor's part to correct the default within the required five (5) days shall result in the contract being terminated and upon the City notifying in writing the Contractor of its intentions and the effective date of the termination. The following shall constitute default:

A. Failure to perform the Work required under the contract and/or within the time required or failing to use the subcontractor, entities and personnel as identified and set forth, and to the degree specified in the contract.

B. Failure to begin the Work under this Bid within the time specified.

C. Failure to perform the Work with sufficient Workers and equipment or with sufficient materials to ensure timely completion.

D. Neglecting or refusing to remove materials or perform new Work where prior Work has been rejected as non-conforming with the terms of the contract.

E. Becoming insolvent, being declared bankrupt, or committing act of bankruptcy or insolvency, or making an assignment renders the successful Bidder incapable of performing the Work in accordance with and as required by the contract.

F. Failure to comply with any of the terms of the contract in any material respect.

In the event of default of a contract, the successful Bidder shall pay all attorney's fees and court costs incurred in collecting any damages. The successful Bidder shall pay the City for any and all costs incurred in ensuing the completion of the project.

Additional provisions may be included in the specimen contract.

### **3.28 ACCEPTANCE OF MATERIAL**

The material delivered under this proposal shall remain the property of the seller until a physical inspection and actual usage of this material and/or services is made and thereafter accepted to the satisfaction of the City and must comply with the terms herein, and be fully in accord with specifications and of the highest quality. In the event the material and/or services supplied to the City are found to be defective or do not conform to specifications, the City reserves the right to cancel the order upon written notice to the seller and return product to seller at the sellers expense.

### **3.29 LOCAL GOVERNMENT PROMPT PAYMENT ACT**

The City complies with Florida Statute 218.70, Florida Prompt Payment Act.



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**CONTACT INFORMATION FORM**

IN ACCORDANCE WITH “**IFB # FI-16-01**” dated **January 17, 2017** titled “**Fire Engine / Pumper Truck**” attached hereto as a part hereof, the undersigned submits the following:

**A) Contact Information**

The Contact information form shall be electronically signed by one duly authorized to do so, and in case signed by a deputy or subordinate, the principal's properly written authority to such deputy or subordinate must accompany the proposal. This form must be completed and submitted through [www.bidsync.com](http://www.bidsync.com) as part of the bidder's submittal. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

**COMPANY INFORMATION:**

COMPANY:

STREET ADDRESS:

CITY, STATE &amp; ZIP CODE:

**PRIMARY CONTACT FOR THE PROJECT:**

NAME:

TITLE:

E-MAIL:

TELEPHONE:

FAX:

**AUTHORIZED APPROVER:**

NAME:

TITLE:

E-MAIL:

TELEPHONE:

FAX:

SIGNATURE:



**B) Proposal Checklist**

Are all materials, freight, labor and warranties included?	Yes	No
Does the proposal include two trips for four people to the plant; one trip for a pre-build meeting and the other trip for final inspection?	Yes	No
Is a “Contractor’s Specifications”, as requested in section 1.4.1 of the bid package, included in your submission?	Yes	No
Do you have any exceptions to the specifications? If so, is a “Exceptions to Specifications”, as requested in section 1.4.6 of the bid package, included in your submission?	Yes Yes	No N/A
Pursuant to section 1.4.10, has the manufacturer been in business of making similar apparatus for a minimum of forty-five (45) years?	Yes	No
Pursuant to section 1.4.10, has the manufacturer built at least thirty (30) of similar units in the last five years?	Yes	No
Pursuant to section 1.4.10, is a list of five (5) departments in Florida with similar units, included in your submittal?	Yes	No
Pursuant to section 1.4.10, does the manufacturer have a licensed Full Service Center in Florida, preferably within Broward County and within (2.5) hours from the City of Pembroke Pines?  In addition, does the service center have mobile warranty service?	Yes Yes	No No
Pursuant to section 1.4.11, how many years has the manufacturer been producing their own chasis and body?		years.
Pursuant to section 1.4.12, is the manufacturer a current member of the Fire Apparatus Manufacturer's Association?	Yes	No
Pursuant to section 1.10.12, is a letter stating successful completion of the specified test on the brand of cab being supplied, included in the bid submittal?	Yes	No
Pursuant to section 1.10.13, is a copy of the certification letter of the seat belt testing included in the bid submittal?	Yes	No

C) Sample Proposal Form

The following sample price proposal is for information only. The vendor must provide their pricing through the designated lines items listed on the BidSync website.

Item	Description	Cost
1)	Fire Engine / Pumper Truck Cost (including all parts, materials & labor to furnish and deliver, as specified in the solicitation.)	Price to be Submitted via BidSync
2)	Pre-Payment Discount Option	Price to be Submitted via BidSync
3)	Trade-In Value Option for a: 1997 E-One Hush XLT (VIN # 4ENBAAA81V1007640) with approximately 61,000 miles and 1,900 hours (along with an In-frame Engine rebuild less than 10,000 miles ago) (City Vehicle # 7757)	Price to be Submitted via BidSync
Total Cost Including Pre-Payment Discount and Trade-In Value Options		Price to be Submitted via BidSync

Proposed Equipment and Maintenance Shop	
Fire Engine/Pumper Truck Year, Make and Model	
Maintenance Shop: Name and Location (Must be located in Broward County)	
<p>*If vendor takes exception to having a shop located in Broward County and within 2.5 hours from the City of Pembroke Pines, the vendor must have a dedicated Fire Apparatus repair facility (not an RV repair shop) within a 150 mile radius of the municipal boundaries of Pembroke Pines and must provide mobile/road service. Vendor is required to provide full disclosure on their capabilities for providing road/mobile service, response time to regular calls, response time to emergency service calls, the number of service technicians on staff than are SAE or EVT certified, how many vehicles dedicated to road/mobile service, and approach to handling major repairs such as transmissions, front axels, rear axels, radiators, etc. This information can be provided in a separate document that must be uploaded to <a href="http://www.bidsync.com">www.bidsync.com</a> as part of the proposal package.</p>	

Timeline	
NUMBER OF CALENDAR DAYS TO COMPLETE AND FURNISH THE FIRE ENGINE / PUMPER TRUCK	Days

Please note: If you have any exceptions to the specifications listed in the solicitation, you must attach a detailed

**explanation, of each exception, to this proposal form.**



**(OFFICE USE ONLY)** Vendor number:

Please complete this vendor information form entirely along with the  
IRS Form W-9, scan and upload it to the [www.bidsync.com](http://www.bidsync.com)

## Vendor Information Form

<b>Operating Name (Payee)</b>			
<b>Legal Name (as filed with IRS)</b>			
<b>Remit-to Address (For Payments)</b>			
<b>Remit-to Contact Name:</b>		<b>Title:</b>	
<b>Email Address:</b>			
<b>Phone #:</b>		<b>Fax #</b>	
<b>Order-from Address (For purchase orders)</b>			
<b>Order-from Contact Name:</b>		<b>Title:</b>	
<b>Email Address:</b>			
<b>Phone #:</b>		<b>Fax #</b>	
<b>Return-to Address (For product returns)</b>			
<b>Return-to Contact Name</b>		<b>Title:</b>	
<b>Email Address:</b>			
<b>Phone #:</b>		<b>Fax #</b>	
<b>Payment Terms:</b>			

**Type of Business** (please check one and provide Federal Tax identification or social security Number)

- ☐ Corporation  
☐ Sole Proprietorship/Individual  
☐ Partnership  
☐ Health Care Service Provider  
☐ LLC – C (C corporation) – S (S corporation) – P (partnership)  
☐ Other (Specify):

**Federal ID Number:**   
**Social Security No.:**

**Name of Applicant / Signature** \_\_\_\_\_

**Title of Applicant** \_\_\_\_\_ **Date** \_\_\_\_\_

# Request for Taxpayer Identification Number and Certification

Give Form to the  
requester. Do not  
send to the IRS.

Print or type  
See Specific Instructions on page 2.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.	
2 Business name/disregarded entity name, if different from above	
3 Check appropriate box for federal tax classification; check only <b>one</b> of the following seven boxes: <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=partnership) ▶ _____ <b>Note.</b> For a single-member LLC that is disregarded, do not check LLC; check the appropriate box in the line above for the tax classification of the single-member owner. <input type="checkbox"/> Other (see instructions) ▶ _____	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ <i>(Applies to accounts maintained outside the U.S.)</i>
5 Address (number, street, and apt. or suite no.)	Requester's name and address (optional)
6 City, state, and ZIP code	
7 List account number(s) here (optional)	

## Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

**Note.** If the account is in more than one name, see the instructions for line 1 and the chart on page 4 for guidelines on whose number to enter.

Social security number									
				-				-	
or									
Employer identification number									
				-					

## Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

**Certification instructions.** You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions on page 3.

Sign Here	Signature of U.S. person ▶	Date ▶
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## General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

**Future developments.** Information about developments affecting Form W-9 (such as legislation enacted after we release it) is at [www.irs.gov/fw9](http://www.irs.gov/fw9).

## Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following:

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)

- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding?* on page 2.

By signing the filled-out form, you:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
- Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting?* on page 2 for further information.

**Note.** If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

**Definition of a U.S. person.** For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

**Special rules for partnerships.** Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States:

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

**Foreign person.** If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Publication 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

**Nonresident alien who becomes a resident alien.** Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items:

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

**Example.** Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

## Backup Withholding

**What is backup withholding?** Persons making certain payments to you must under certain conditions withhold and pay to the IRS 28% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

**Payments you receive will be subject to backup withholding if:**

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the Part II instructions on page 3 for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code* on page 3 and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships* above.

## What is FATCA reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code* on page 3 and the Instructions for the Requester of Form W-9 for more information.

## Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

## Penalties

**Failure to furnish TIN.** If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

**Civil penalty for false information with respect to withholding.** If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

**Criminal penalty for falsifying information.** Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

**Misuse of TINs.** If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

## Specific Instructions

### Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account, list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

**Note. ITIN applicant:** Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C Corporation, or S Corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.



**Line 2**

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

**Line 3**

Check the appropriate box in line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box in line 3.

**Limited Liability Company (LLC).** If the name on line 1 is an LLC treated as a partnership for U.S. federal tax purposes, check the "Limited Liability Company" box and enter "P" in the space provided. If the LLC has filed Form 8832 or 2553 to be taxed as a corporation, check the "Limited Liability Company" box and in the space provided enter "C" for C corporation or "S" for S corporation. If it is a single-member LLC that is a disregarded entity, do not check the "Limited Liability Company" box; instead check the first box in line 3 "Individual/sole proprietor or single-member LLC."

**Line 4, Exemptions**

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space in line 4 any code(s) that may apply to you.

**Exempt payee code.**

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 <sup>1</sup>	Generally, exempt payees 1 through 5 <sup>2</sup>
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

<sup>1</sup> See Form 1099-MISC, Miscellaneous Income, and its instructions.

<sup>2</sup> However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

**Exemption from FATCA reporting code.** The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

**Note.** You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

**Line 5**

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns.

**Line 6**

Enter your city, state, and ZIP code.

**Part I. Taxpayer Identification Number (TIN)**

**Enter your TIN in the appropriate box.** If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN. However, the IRS prefers that you use your SSN.

If you are a single-member LLC that is disregarded as an entity separate from its owner (see *Limited Liability Company (LLC)* on this page), enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

**Note.** See the chart on page 4 for further clarification of name and TIN combinations.

**How to get a TIN.** If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at [www.ssa.gov](http://www.ssa.gov). You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at [www.irs.gov/businesses](http://www.irs.gov/businesses) and clicking on Employer Identification Number (EIN) under Starting a Business. You can get Forms W-7 and SS-4 from the IRS by visiting [IRS.gov](http://IRS.gov) or by calling 1-800-TAX-FORM (1-800-829-3676).

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

**Note.** Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

**Caution:** A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

## Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if items 1, 4, or 5 below indicate otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code* earlier.

**Signature requirements.** Complete the certification as indicated in items 1 through 5 below.

**1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.** You must give your correct TIN, but you do not have to sign the certification.

**2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.** You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

**3. Real estate transactions.** You must sign the certification. You may cross out item 2 of the certification.

**4. Other payments.** You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

**5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions.** You must give your correct TIN, but you do not have to sign the certification.

## What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account)	The actual owner of the account or, if combined funds, the first individual on the account <sup>1</sup>
3. Custodian account of a minor (Uniform Gift to Minors Act)	The minor <sup>2</sup>
4. a. The usual revocable savings trust (grantor is also trustee) b. So-called trust account that is not a legal or valid trust under state law	The grantor-trustee <sup>1</sup>  The actual owner <sup>1</sup>
5. Sole proprietorship or disregarded entity owned by an individual	The owner <sup>3</sup>
6. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor <sup>4</sup>
For this type of account:	Give name and EIN of:
7. Disregarded entity not owned by an individual	The owner
8. A valid trust, estate, or pension trust	Legal entity <sup>4</sup>
9. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
10. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
11. Partnership or multi-member LLC	The partnership
12. A broker or registered nominee	The broker or nominee
13. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
14. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

<sup>1</sup> List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

<sup>2</sup> Circle the minor's name and furnish the minor's SSN.

<sup>3</sup> You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

<sup>4</sup> List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships* on page 2.

**\*Note.** Grantor also must provide a Form W-9 to trustee of trust.

**Note.** If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

## Secure Your Tax Records from Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Publication 4535, Identity Theft Prevention and Victim Assistance.

Victims of identity theft who are experiencing economic harm or a system problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

**Protect yourself from suspicious emails or phishing schemes.** Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to [phishing@irs.gov](mailto:phishing@irs.gov). You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at: [spam@uce.gov](mailto:spam@uce.gov) or contact them at [www.ftc.gov/idtheft](http://www.ftc.gov/idtheft) or 1-877-IDTHEFT (1-877-438-4338).

Visit [IRS.gov](http://IRS.gov) to learn more about identity theft and how to reduce your risk.

## Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.





**NON-COLLUSIVE AFFIDAVIT**

BIDDER is the

(Owner, Partner, Officer, Representative or Agent)

BIDDER is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

Such Bid is genuine and is not a collusive or sham Bid;

Neither the said BIDDER nor any of its officers, partners, owners, agents, representative, employees or parties in interest, including this affidavit, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other BIDDER, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted; or to refrain from bidding in connection with such Contract; or have in any manner, directly or indirectly, sought by agreement or collusion, or communications, or conference with any BIDDER, firm, or person to fix the price or prices in the attached Bid or any other BIDDER, or to fix any overhead, profit, or cost element of the Bid Price or the Bid Price of any other BIDDER, or to secure through any collusion conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Contract;

The price of items quoted in the attached Bid are fair and proper and are not tainted by collusion, conspiracy, connivance, or unlawful agreement on the part of the BIDDER or any other of its agents, representatives, owners, employees or parties in interest, including this affidavit.

Printed Name/Signature

Title

Name of Company



**SWORN STATEMENT  
ON PUBLIC ENTITY CRIMES  
UNDER FLORIDA STATUTES CHAPTER 287.133(3)(a).**

1. This sworn statement is submitted \_\_\_\_\_ (name of entity submitting sworn statement) whose business address is \_\_\_\_\_ and (if applicable) its Federal Employer Identification Number (FEIN) is \_\_\_\_\_. (If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement: \_\_\_\_\_.)
2. My name is \_\_\_\_\_ and my \_\_\_\_\_  
(Please print name of individual signing)  
  
relationship to the entity named above is \_\_\_\_\_.
3. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid, proposal, reply, or contract for goods or services, any lease for real property, or any contract for the construction or repair of a public building or public work, involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
4. I understand that a "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.
5. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:
  1. A predecessor or successor of a person convicted of a public entity crime: or
  2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The Cityship by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
6. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or any entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts let by a public entity, or which otherwise transacts or applies to transact business with a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders,

employees, members, and agents who are active in management of an entity.

7. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **(Please indicate which statement applies.)**

A) Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989.

B) The entity submitting this sworn statement, or one or more of the officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND **(Please indicate which additional statement applies.)**

B1) There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. **(Please attach a copy of the final order.)**

B2) The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. **(Please attach a copy of the final order.)**

B3) The person or affiliate has not been placed on the convicted vendor list. **(Please describe any action taken by or pending with the Department of General Services.)**

Bidder's Name/Signature	Company	Date
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## LOCAL VENDOR PREFERENCE CERTIFICATION

### SECTION 1 GENERAL TERM

#### LOCAL PREFERENCE

The evaluation of competitive bids is subject to section 35.36 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to local businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with either of the following objective criteria as of the bid or proposal submission date stated in the solicitation. A local business shall be defined as:

1. "Local Pembroke Pines Vendor" shall mean a business entity which has maintained a permanent place of business with full-time employees within the City limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the City of Pembroke Pines.

OR;

2. "Local Broward County Vendor" shall mean or business entity which has maintained a permanent place of business with full-time employees within the Broward County limits for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation. The permanent place of business may not be a post office box. The business location must actually distribute goods or services from that location. In addition, the business must have a current business tax receipt from the Broward County or the city within Broward County where the business resides.

A preference of five percent (5%) of the total evaluation point, or five percent (5%) of the total price, shall be given to the **Local Pembroke Pines Vendor(s)**; A preference of two and a half percent (2.5%) of the total evaluation point for local, or two and a half percent (2.5%) of the total price, shall be given to the **Local Broward County Vendor(s)**.

#### COMPARISON OF QUALIFICATIONS

The preferences established in no way prohibit the right of the City to compare quality of supplies or services for purchase and to compare qualifications, character, responsibility and fitness of all persons, firms or corporations submitting bids or proposals. Further, the preference established in no way prohibit the right of the city from giving any other preference permitted by law instead of the preferences granted, nor prohibit the city to select the bid or proposal which is the most responsible and in the best interests of the city.

### SECTION 2 AFFIRMATION

#### LOCAL PREFERENCE CERTIFICATION:

Place a check mark here only if affirming bidder meets requirements above as a Local Pembroke Pines Vendor.

In addition, the business must attach a current business tax receipt from the City of Pembroke Pines along with any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

Place a check mark here only if affirming bidder meets requirements above as a Local Broward County Vendor.

In addition, the business must attach a current business tax receipt from the Broward County or the city within Broward County where the business resides along with any previous business tax receipts to indicate that the business entity has maintained a permanent place of business for a minimum of one (1) year.

Place a check mark here only if affirming bidder does not meet the requirements above as a Local Vendor.

**Failure to complete this certification at this time (by checking either of the boxes above) shall render the vendor ineligible for Local Preference. This form must be completed by/for the proposer; the proposer WILL NOT qualify for Local Vendor Preference based on their sub-contractors' qualifications.**

COMPANY NAME:

PRINTED NAME / AUTHORIZED SIGNATURE:



## VETERAN OWNED SMALL BUSINESS (VOSB) PREFERENCE CERTIFICATION

### SECTION 1 GENERAL TERM

#### VETERAN OWNED SMALL BUSINESS (VOSB) PREFERENCE

The evaluation of competitive bids is subject to section 35.37 of the City's Procurement Procedures which, except where contrary to federal and state law, or any other funding source requirements, provides that preference be given to veteran owned small businesses. To satisfy this requirement, the vendor shall affirm in writing its compliance with the following objective criteria as of the bid or proposal submission date stated in the solicitation. A veteran owned small business shall be defined as:

1. "Veteran Owned Small Business" shall mean a business entity which has received a "Determination Letter" from the United States Department of Veteran Affairs Center for Verification and Evaluation notifying the business that they have been approved as a Veteran Owned Small Business (VOSB).

A preference of two and a half percent (2.5%) of the total evaluation point, or two and a half percent (2.5%) of the total price, shall be given to the **Veteran Owned Small Business (VOSB)**. This shall mean that if a **VOSB** submits a bid/quote that is within 2.5% of the lowest price submitted by any vendor, the **VOSB** shall have an option to submit another bid which is at least 1% lower than the lowest responsive bid/quote. If the **VOSB** submits a bid which is at least 1% lower than that lowest responsive bid/quote, then the award will go to the **VOSB**. If not, the award will be made to the vendor that submits the lowest responsive bid/quote. If the lowest responsive and responsible bidder IS a "**Local Pembroke Pines Vendor**" (**LPPV**) or a "**Local Broward County Vendor**" (**LBCV**) as established in Section 35.36 of the City's Code of Ordinances, entitled "Local Vendor Preference", then the award will be made to that vendor and no other bidders will be given an opportunity to submit additional bids as described herein.

If there is a **LPPV**, a **LBCV**, and a **VOSB** participating in the same bid solicitation and all three vendors qualify to submit a second bid, the **LPPV** will be given first option. If the **LPPV** cannot beat the lowest bid received by at least 1%, an opportunity will be given to the **LBCV**. If the **LBCV** cannot beat the lowest bid by at least 1%, an opportunity will be given to the **VOSB**. If the **VOSB** cannot beat the lowest bid by at least 1%, then the bid will be awarded to the lowest bidder.

If multiple **VOSBs** submit bids/quotes which are within 2.5% of the lowest bid/quote and there are no **LPPV** or **LBCV** as described in Section 35.36 of the City's Code of Ordinance, entitled "Local Vendor Preference", then all **VOSBs** will be asked to submit a **Best and Final Offer (BAFO)**. The award will be made to the **VOSB** submitting the lowest **BAFO** providing that that **BAFO** is at least 1% lower than the lowest bid/quote received in the original solicitation. If no **VOSB** can beat the lowest bid/quote by at least 1%, then the award will be made to the lowest responsive bidder.

#### COMPARISON OF QUALIFICATIONS

The preferences established in no way prohibit the right of the City to compare quality of supplies or services for purchase and to compare qualifications, character, responsibility and fitness of all persons, firms or corporations submitting bids or proposals. Further, the preference established in no way prohibit the right of the city from giving any other preference permitted by law instead of the preferences granted, nor prohibit the city to select the bid or proposal which is the most responsible and in the best interests of the city.

### SECTION 2 AFFIRMATION

#### VETERAN OWNED SMALL BUSINESS (VOSB) PREFERENCE CERTIFICATION:

Place a check mark here only if affirming bidder meets requirements above as a Veteran Owned Small Business.

In addition, the bidder must attach the "Determination Letter" from the U.S. Dept. of Veteran Affairs Center.

Place a check mark here only if affirming bidder does not meet the requirements above as a VOSB.

**Failure to complete this certification at this time (by checking either of the boxes above) shall render the vendor ineligible for VOSB Preference. This form must be completed by/for the proposer; the proposer WILL NOT qualify for VOSB Preference based on their sub-contractors' qualifications.**

COMPANY NAME:

PRINTED NAME / AUTHORIZED SIGNATURE:



## EQUAL BENEFITS CERTIFICATION FORM FOR DOMESTIC PARTNERS AND ALL MARRIED COUPLES

Except where federal or state law mandates to the contrary, a Contractor awarded a Contract pursuant to a competitive solicitation shall provide benefits to Domestic Partners and spouses of its employees, irrespective of gender, on the same basis as it provides benefits to employees' spouses in traditional marriages.

The Contractor shall provide the City and/or the City Manager or his/her designee, access to its records for the purpose of audits and/or investigations to ascertain compliance with the provisions of this section, and upon request shall provide evidence that the Contractor is in compliance with the provisions of this section upon each new bid, contract renewal, or when the City Manager has received a complaint or has reason to believe the Contractor may not be in compliance with the provisions of this section. Records shall include but not be limited to providing the City and/or the City Manager or his/her designee with certified copies of the Contractor's records pertaining to its benefits policies and its employment policies and practices.

The Contractor must conspicuously make available to all employees and applicants for employment the following statement:

**“During the performance of a contract with the City of Pembroke Pines, Florida, the Contractor will provide Equal Benefits to its employees with spouses, as defined by Section 35.39 of the City's Code of Ordinances, and its employees with Domestic Partners and all Married Couples”.**

The posted statement must also include a City contact telephone number and email address which will be provided to each contractor when a covered contract is executed.

### SECTION 1 DEFINITIONS

- 1. Benefits** means the following plan, program or policy provided or offered by a contractor to its employees as part of the employer's total compensation package which may include but is not limited to sick leave, bereavement leave, family medical leave, and health benefits.
- 2. Cash Equivalent** mean the amount of money paid to an employee with a domestic partner or spouse in lieu of providing benefits to the employee's domestic partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee for his or her spouse from a traditional marriage.
- 3. Covered Contract** means a contract between the City and a contractor awarded subsequent to the date when this section becomes effective valued at over \$25,000 or the threshold amount required for competitive bids as required in section 35.18(A) of the Procurement Code.
- 4. Domestic Partner** shall mean any two (2) adults of the same or different sex who have registered as domestic partners with a governmental body pursuant to state or local law authorizing such registration, or with an internal registry maintained by the employer of at least one of the domestic partners. A contractor may institute an internal registry to allow for the provision of equal benefits to employees with domestic partners who do not register their partnerships pursuant to a governmental body authorizing such registration, or who are located in a jurisdiction where no such governmental domestic partnership registry exists. A contractor that institutes such registry shall not impose criteria for registration that are more stringent than those required for domestic partnership registration by the City of Pembroke Pines.
- 5. Equal benefits** means the equality of benefits between employees with spouses and/or dependents of spouses and employees with domestic partners and/or dependents of domestic partners, and/or between spouses of employees and/or dependents of spouses and domestic partners of employees and/or dependents of domestic partners.

**6. Spouse** means one member of a married pair legally married under the laws of any state within the United States of America or any other jurisdiction under which such marriage is legally recognized, irrespective of gender.

**7. Traditional marriage** means a marriage between one man and one woman.

## **SECTION 2 CERTIFICATION OF CONTRACTOR**

The firm providing a response, by virtue of the signature below, certifies that it is aware of the requirements of Section 35.39 "City Contractors providing Equal Benefits for Domestic Partners and all Married Couples" of the City's Code of Ordinances, and certifies the following (**Check only one box below**):

- A.** Contractor currently complies with the requirements of this section; or
- B.** Contractor will comply with the conditions of this section at the time of contract award; or
- C.** Contractor will not comply with the conditions of this section at the time of contract award: or
- D.** Contractor does not comply with the conditions of this section because of the following allowable exemption (**Check only one box below**):
  - 1.** The Contractor does not provide benefits to employees' spouses in traditional marriages;
  - 2.** The Contractor provides an employee the cash equivalent of benefits because the Contractor is unable to provide benefits to employees' Domestic Partners or spouses despite making reasonable efforts to provide them. To meet this exception, the Contractor shall provide a notarized affidavit that it has made reasonable efforts to provide such benefits. The affidavit shall state the efforts taken to provide such benefits and the amount of the cash equivalent. Cash equivalent means the amount of money paid to an employee with a Domestic Partner or spouse rather than providing benefits to the employee's Domestic Partner or spouse. The cash equivalent is equal to the employer's direct expense of providing benefits to an employee's spouse;
  - 3.** The Contractor is a religious organization, association, society, or any non-profit charitable or educational institution or organization operated supervised or controlled by or in conjunction with a religious organization, association, or society;
  - 4.** The Contractor is a governmental agency;

**The certification shall be signed by an authorized officer of the Contractor. Failure to provide such certification (by checking the appropriate boxes above along with completing the information below) shall result in a Contractor being deemed non-responsive.**

COMPANY NAME:

AUTHORIZED OFFICER NAME / SIGNATURE:



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**PROPOSER'S QUALIFICATIONS STATEMENT**

PROPOSER shall furnish the following information. Failure to comply with this requirement will render Bid non responsive and shall cause its rejection. Additional sheets shall be attached as required.

PROPOSER'S Name and Principal Address:

Contact Person's Name and Title:

Contact Person's E-mail Address:

PROPOSER'S Telephone and Fax Number:

PROPOSER'S License Number:

**(Please attach certificate of status, competency, and/or state registration.)**

PROPOSER'S Federal Identification Number:

Number of years your organization has been in business

State the number of years your firm has been in business under your present business name

State the number of years your firm has been in business in the work specific to this solicitation:

Names and titles of all officers, partners or individuals doing business under trade name:

The business is a:      Sole Proprietorship      Partnership      Corporation

IF USING A FICTITIOUS NAME, SUBMIT EVIDENCE OF COMPLIANCE WITH FLORIDA FICTITIOUS NAME STATUTE. (ATTACH IN PROPOSER EXHIBIT SECTION)

Under what former name has your business operated? Include a description of the business. Failure to include such information shall be deemed to be intentional misrepresentation by the City and shall render the proposer RFP submittals non-responsive.



At what address was that business located?

Name, address, and telephone number of surety company and agent who will provide the required bonds on this contract:

Have you ever failed to complete work awarded to you. If so, when, where and why?

Have you personally inspected the proposed WORK and do you have a complete plan for its performance?

Will you subcontract any part of this WORK? If so, give details including a list of each sub-contractor(s) that will perform work in excess of ten percent (10%) of the contract amount and the work that will be performed by each subcontractor(s).

The foregoing list of subcontractor(s) may not be amended after award of the contract without the prior written approval of the Contract Administrator, whose approval shall not be reasonably withheld.

List and describe all bankruptcy petitions (voluntary or involuntary) which have been filed by or against the Proposer, its parent or subsidiaries or predecessor organizations during the past five (5) years. Include in the description the disposition of each such petition.

List and describe all successful Bond claims made to your surety (ies) during the last five (5) years. The list and descriptions should include claims against the bond of the Proposer and its predecessor organization(s).

List all claims, arbitrations, administrative hearings and lawsuits brought by or against the Proposer or its predecessor organizations(s) during the last (10) years. The list shall include all case names; case, arbitration or hearing identification numbers; the name of the project over which the dispute arose; and a description of the subject matter of the dispute.

List and describe all criminal proceedings or hearings concerning business related offenses in which the Proposer, its principals or officers or predecessor organization(s) were defendants.

Has the Proposer, its principals, officers or predecessor organization(s) been CONVICTED OF A Public Entity Crime, debarred or suspended from bidding by any government entity? If so, provide details.

Are you an      Original provider      sales representative      distributor,      broker,      manufacturer      other, of the commodities/services proposed upon? If other than the original provider, explain below.

Have you ever been debarred or suspended from doing business with any governmental agency? If yes, please explain:

Describe the firm's local experience/nature of service with contracts of similar size and complexity, it the previous three (3) years:

The PROPOSER acknowledges and understands that the information contained in response to this Qualification Statement shall be relied upon by CITY in awarding the contract and such information is warranted by PROPOSER to be true. The discovery of any omission or misstatement that materially affects the PROPOSER’S qualifications to perform under the contract shall cause the CITY to reject the Bid, and if after the award, to cancel and terminate the award and/or contract.

(Company Name)

(Printed Name/Signature)

**ACORD CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD[YY])

PRODUCER

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

**INSURERS AFFORDING COVERAGE**

INSURED

**YOUR COMPANY NAME HERE**

INSURER A:

INSURER B:

INSURER C:

INSURER D:

INSURER E:

**Companies providing coverage****COVERAGES**

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

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DDYY)	POLICY EXPIRATION DATE (MM/DDYY)	LIMITS								
	<b>GENERAL LIABILITY</b> <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> policy <input type="checkbox"/> project <input type="checkbox"/> loc	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <b>Must Include General Liability</b> </div>			EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$								
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS				<div style="border: 1px solid black; padding: 10px; text-align: center;"> <b>SAMPLE CERTIFICATE</b> </div>								
	<b>GARAGE LIABILITY</b> <input type="checkbox"/> ANY AUTO			AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$									
	<b>EXCESS LIABILITY</b> OCCUR <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/>  <input type="checkbox"/> DEDUCTIBLE <input type="checkbox"/> RETENTION \$				EACH OCCURRENCE \$ AGGREGATE \$ \$ \$ \$								
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>				<table border="1"> <tr> <td>WC STATU-TORY LIMITS</td> <td>OTH-ER</td> </tr> <tr> <td>E.L. EACH ACCIDENT</td> <td>\$</td> </tr> <tr> <td>E.L. DISEASE - EA EMPLOYEE</td> <td>\$</td> </tr> <tr> <td>E.L. DISEASE - POLICY LIMIT</td> <td>\$</td> </tr> </table>	WC STATU-TORY LIMITS	OTH-ER	E.L. EACH ACCIDENT	\$	E.L. DISEASE - EA EMPLOYEE	\$	E.L. DISEASE - POLICY LIMIT	\$
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E.L. EACH ACCIDENT	\$												
E.L. DISEASE - EA EMPLOYEE	\$												
E.L. DISEASE - POLICY LIMIT	\$												
	OTHER												

**Certificate must contain wording similar to what appears below**

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCL

**"THE CERTIFICATE HOLDER IS NAMED AS ADDITIONALLY INSURED WITH REGARD TO GENERAL LIABILITY"**

CERTIFICATE HOLDER

ADDITIONAL INSURED; INSURER LETTER:

CANCELLATION

**City of Pembroke Pines**  
**10100 Pines Boulevard**  
**Pembroke Pines FL 33026**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION

MAIL 30 DAYS WRITTEN  
 LEFT.

**City Must Be Named as Certificate Holder**

AUTHORIZED REPRESENTATIVE



**AGREEMENT FOR PURCHASE OF** \_\_\_\_\_

**THIS AGREEMENT FOR PURCHASE OF** \_\_\_\_\_  
("Agreement") is dated this \_\_\_\_\_ day of \_\_\_\_\_, 2017 by and between:

**CITY OF PEMBROKE PINES**, a municipal corporation organized and operating pursuant to the laws of the State of Florida, with a business address of 10100 Pines Boulevard, Pembroke Pines, Florida 33026 (hereinafter referred to as the "CITY"),

and

\_\_\_\_\_, a \_\_\_\_\_, with a business address of \_\_\_\_\_  
(hereinafter referred to as the "CONTRACTOR"). CITY and CONTRACTOR may hereinafter be referred to collectively as the "Parties."

**RECITALS:**

**WHEREAS**, the CITY advertised its invitation to bid No. \_\_\_\_\_ entitled \_\_\_\_\_  
(hereinafter "ITB") which set forth the CITY's desire to hire a firm to provide \_\_\_\_\_:

**WHEREAS**, on \_\_\_\_\_, the responses to the ITB were opened at the offices of the City Clerk; and,

**WHEREAS**, on \_\_\_\_\_ the CITY awarded the ITB to CONTRACTOR and authorized the proper City officials to enter into this Agreement with CONTRACTOR to render provide the goods as required in the IFB; and,

**WHEREAS**, CITY and CONTRACTOR wish to enter into this Agreement to provide for the delivery of \_\_\_\_\_ to the CITY by CONTRACTOR; and,

**WHEREAS**, CONTRACTOR shall act as the primary provider of \_\_\_\_\_ to the CITY for the term of this Agreement;

**NOW THEREFORE**, in consideration of the mutual promises detailed herein and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties hereby agree as follows:



## ARTICLE 1 PURCHASE OF GOODS

- 1.1 CITY agrees to purchase and CONTRACTOR agrees to provide \_\_\_\_\_ (the "Commodities") subject of this Agreement.
- 1.2 CONTRACTOR shall provide the Commodities as identified herein and the CITY's IFB and CONTRACTOR's response thereto, collectively incorporated herein as **Exhibit "A"** and made a specific part hereof, according to the estimated quantities and schedule contained in **Exhibit "A"**.
- 1.3 The Parties acknowledge that this Agreement is a term contract and that CITY shall purchase and CONTRACTOR shall provide the Commodities on an as-needed basis upon written request of the CITY. Nothing contained herein or in any exhibit or amendment hereto, shall require the CITY to purchase the quantity of Commodities identified in **Exhibit "A"**.
- 1.4 As needed, the CITY shall submit a purchase order to the CONTRACTOR for a specified amount of Commodities. CONTRACTOR shall then provide the specified amount of Commodities in accordance with the purchase order, and submit to the CITY an invoice for those Commodities.
- 1.5 CITY agrees that CONTRACTOR shall be the primary provider of the Commodities, as further described on **Exhibit "A"**, and that CITY shall submit to CONTRACTOR a purchase order for the Commodities. By acceptance of CONTRACTOR's bid, CONTRACTOR agrees that it shall provide such Commodities upon receipt of purchase order from CITY and has the ability to fulfill such orders as CITY requires.
- 1.6 CONTRACTOR acknowledges that it has the capacity, ability and/or inventory to provide the Commodities to the CITY on an as-needed basis and in accordance with the estimated schedule and quantities listed in **Exhibit "A"**.

## ARTICLE 2 TERM AND TERMINATION

- 2.1 CONTRACTOR shall provide the Commodities as identified herein and in **Exhibit "A"** attached hereto and made part hereof, for an initial \_\_\_\_\_ ( ) **year period** commencing on \_\_\_\_\_ and ending on \_\_\_\_\_, and according to the estimated schedule contained in **Exhibit "A"**.
- 2.2 This Agreement may be renewed for \_\_\_\_\_ ( ) **additional** \_\_\_\_\_ ( ) **year terms** upon mutual written consent, evidenced by a written Amendment to this Agreement extending the term thereof.



- 2.3 *Termination for Convenience:* CITY may terminate this Agreement for convenience, upon \_\_\_\_\_ (\_\_\_\_\_) **business days** of written notice by the terminating party to the other party for such termination.
- 2.4 In the event CONTRACTOR abandons or terminates this Agreement or causes it to be terminated by CITY for any reason, CONTRACTOR shall indemnify CITY against any loss pertaining to this termination.

For purposes of this Agreement, termination by CITY for cause includes, but is not limited to, any of the following circumstances:

- 2.4.1 CONTRACTOR's failure to keep, perform and observe each and every provision of this Agreement and such failure continues for a period of more than \_\_\_\_\_ (\_\_\_\_\_) **days** after CITY's delivery of a written notice to CONTRACTOR's of such breach or default;
- 2.4.2 CONTRACTOR becomes insolvent;
- 2.4.3 CONTRACTOR takes the benefit of any present or future insolvency statute;
- 2.4.4 CONTRACTOR makes a general assignment for the benefit of creditors,
- 2.4.5 CONTRACTOR files a voluntary petition in bankruptcy or a petition or answer seeking an arrangement of its reorganization or the readjustment of its indebtedness under the Federal Bankruptcy laws or under any other law or statute of the United States or any state thereof;
- 2.4.6 CONTRACTOR consents to the appointment of a receiver, trustee or liquidator of all or substantially all of its property;
- 2.4.7 A petition under any present or future insolvency laws or statute is filed against CONTRACTOR and such petition is not dismissed within \_\_\_\_\_ (\_\_\_\_\_) **days** after its filing; or
- 2.4.8 Any assignment of this Agreement in whole or in part, or any of CONTRACTOR's rights and obligations hereunder.

### **ARTICLE 3**

#### **COMPENSATION AND METHOD OF PAYMENT**

- 3.1 Unless stated otherwise on attached **Exhibit "A"**, CITY's sole compensation to CONTRACTOR for the provision of Commodities hereunder shall be \_\_\_\_\_ **Dollars (\$\_\_\_\_\_)** per \_\_\_\_\_. Upon delivery, the CITY shall make final inspection of the Commodities. If this inspection shows that the Commodities have been delivered in a satisfactory manner and in accordance with the specifications of this Agreement or purchase order submitted by the CITY, the CITY shall



receive the same. Final payment due the CONTRACTOR shall be withheld until inspection is made by the CITY and merits of performance evaluated. This total acceptance will be done in a reasonable and timely manner. Upon acceptance, CONTRACTOR shall submit to CITY an invoice for the Commodities provided and CITY, upon approval of the invoice, shall pay the same within \_\_\_\_\_ (\_\_\_\_) **days**.

- 3.2 If any of the Commodities has to be rejected for any reason, the CONTRACTOR shall be required to repair or replace the Commodities to the satisfaction of the CITY. Warranty repairs may be accomplished on CITY property if space is available, at the discretion of the CITY. Title to or risk loss or damage to all Commodities shall be the responsibility of the CONTRACTOR until acceptance of the Commodities by the CITY, unless such loss or damages have been proven to be the result of negligence by the CITY.
- 3.3 Should the Parties renew the term of this Agreement pursuant to Section 2.2 herein, in the event that CONTRACTOR shall provide adequate evidence to CITY to substantiate a price increase, the purchase price of the Commodities contained in Section 3.1 above may be adjusted no more than on an amount equal to the increase in the "Consumer Price Index" or "CPI" for the current year as of two (2) months prior to the beginning of any renewal term of this Agreement. However, in no event shall the increase be greater than \_\_\_\_\_ **percent** (\_\_\_\_ **%**) for each year subsequent to the initial term. The purchase price shall be subject to an annual CPI increase for each year of any renewal term. The purchase price due from the CITY shall never decrease.

The term "Consumer Price Index" is defined as the Consumer Price Index for all Urban Consumers, U.S. City Average (1982-84=100) All Items, published by the United States Department of Labor, Bureau of Labor Statistics. The increase in the CPI shall be computed by subtracting the CPI used to calculate the purchase price for the current year from the CPI reported on the U.S. Department of Labor, Bureau of Statistic's website available at <http://data.bls.gov/cgi-bin/surveymost?cu> for the month that is one hundred twenty (120) days prior to the first day of the upcoming year.

#### **ARTICLE 4**

#### **WARRANTY OF COMMODITIES**

- 4.1 The Commodities, and each individual good or item, including all components and all installed accessories and equipment, shall be guaranteed by the CONTRACTOR to be free of defective parts and workmanship. This warranty shall be for a period of \_\_\_\_\_ (\_\_\_\_) **days** or the time designated in the standard factory warranty, whichever is longer. The warranty will be the same as that offered to the commercial trade and shall be honored by any of the manufacturer's authorized dealers. The warranty will cover parts, labor and any necessary shipping for repair or replacement of the Commodities, or each individual good or item, including all components and all installed accessories and equipment. The warranty shall start at the time of acceptance by the CITY.
- 4.2 CONTRACTOR warrants and guarantees that the Commodities, and each individual good or item, including all components and all installed accessories and equipment, shall be fit





for the intended use of the Commodities and CONTRACTOR shall provide a warranty as to fitness of the Commodities for a period of \_\_\_\_\_ (\_\_\_\_) **days** or the time designated in the standard factory warranty, whichever is longer. The warranty will cover parts, labor and any necessary shipping for repair or replacement of the Commodities, or each individual good or item, including all components and all installed accessories and equipment.

## **ARTICLE 5 INDEMNIFICATION**

- 5.1 CONTRACTOR shall indemnify and hold harmless the CITY, its trustees, elected and appointed officers, agents, servants, assigns and employees, from and against any and all claims, demands, or causes of action whatsoever, and the resulting losses, costs, expenses, reasonable attorneys' fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY or any third party arising out of, by reason of, or resulting from the CONTRACTOR's acts, errors, or omissions or consequence of the goods and/or Commodities furnished pursuant to this Agreement or those of any subcontractor, agents, officers, employees, or independent contractor retained by CONTRACTOR.
- 5.2 CONTRACTOR shall indemnify and hold harmless the CITY, its trustees, elected and appointed officers, agents, servants, assigns and employees, from and against any and all claims, demands, or causes of action whatsoever, and the resulting losses, costs, expenses, reasonable attorneys' fees, including paralegal expenses, liabilities, damages, orders, judgments, or decrees, sustained by the CITY or any third party arising out of, by reason of, or resulting from any alleged infringement of copyrights, patent rights and/or the unauthorized or unlicensed use of any invention, process, material, property or other work manufactured or used in connection with the performance of the Agreement, including the use of the Commodities by the City.
- 5.3 CITY reserves the right to select its own legal counsel to conduct any defense in any such proceeding and all costs and fees associated therewith shall be the responsibility of CONTRACTOR.
- 5.4 Upon completion of all Services, obligations and duties provided for in this Agreement, or in the event of termination of this Agreement for any reason, the terms and conditions of this Article shall survive indefinitely.
- 5.5 Nothing contained herein is intended nor shall be construed to waive City's rights and immunities under the common law or §768.28, Florida Statutes, as may be amended from time to time.

## **ARTICLE 6 INSURANCE**



- 6.1 CONTRACTOR shall not commence performance hereunder until it has obtained all insurance required under this paragraph and such insurance has been approved by the Risk Manager of the CITY nor shall the CONTRACTOR allow any subcontractor to commence work on his subcontract until all similar such insurance required of the subcontractor has been obtained and similarly approved.
- 6.2 Certificates of Insurance reflecting evidence of the required insurance shall be filed with the City's Risk Manager prior to the commencement of this Agreement. These Certificates shall contain a provision that coverages afforded under these policies will not be cancelled until at least thirty days (30) prior written notice has been given to the CITY. Policies shall be issued by companies authorized to do business under the laws of the State of Florida. Financial Ratings must be not less than "A-VI" in the latest edition of "Best Key Rating Guide", published by A.M. Best Guide.
- 6.3 Insurance shall be in force until the obligations required to be fulfilled under the terms of the Agreement are satisfied. In the event the insurance certificate provided indicates that the insurance shall terminate and lapse during the period of this Agreement, then in that event, the CONTRACTOR shall furnish, at least forty-five (45) days prior to the expiration of the date of such insurance, a renewed certificate of insurance as proof that equal and like coverage for the balance of the period of the Agreement and extension thereunder is in effect. The CONTRACTOR shall not commence nor continue to provide any service pursuant to this Agreement unless all required insurance remains in full force and effect. CONTRACTOR shall be liable to CITY for any lapses in service resulting from a gap in insurance coverage.
- 6.4 REQUIRED INSURANCE
- 6.4.1 Comprehensive General Liability insurance to cover liability bodily injury and property damage. Exposures to be covered are premises, operations, products/completed operations, and certain contracts. Coverage must be written on an occurrence basis, with the following limits of liability:
- |    |  |             |
|----|--|-------------|
| A. | Bodily Injury  |             |
| 1. | Each Occurrence  | \$1,000,000 |
| 2. | Annual Aggregate   | 1,000,000   |
| B. | Property Damage  |             |
| 1. | Each Occurrence  | 1,000,000   |
| 2. | Annual Aggregate   | 1,000,000   |
| C. | Personal Injury  |             |
|    | Annual Aggregate   | 1,000,000   |
| D. | Completed Operations and Products Liability shall be maintained for two (2) years after the final payment. |             |



- E. Property Damage Liability Insurance shall include Coverage for the following hazards: X - explosion, C - Collapse, U - underground.

6.4.2 Worker's Compensation Insurance shall be maintained during the life of this contract to comply with statutory limits for all employees. The following limits must be maintained:

A.	Worker's Compensation	Statutory
B.	Employer's Liability	\$100,000 each accident
		\$500,000 Disease-policy limit
		\$100,000 Disease-each employee

If CONTRACTOR claims to be exempt from this requirement, CONTRACTOR shall provide CITY proof of such exemption along with a written request for CITY to exempt CONTRACTOR, written on CONTRACTOR letterhead.

6.4.3 Comprehensive Auto Liability – coverage shall include owned, hired and non-owned vehicles.

A.	Bodily Injury	
1.	Each Occurrence	\$1,000,000
2.	Annual Aggregate	\$1,000,000
B.	Property Damage	
1.	Each Occurrence	\$1,000,000
2.	Annual Aggregate	\$1,000,000

6.5 CONTRACTOR shall name the CITY, as an additional insured on each of the policies required herein and shall hold the CITY, its agents, officers and employees harmless on account of claims for damages to persons, property or premises arising out of the services provided hereunder.

6.6 Any insurance required of CONTRACTOR pursuant to this Agreement must also be required by any subcontractor in the same limits and with all requirements as provided herein, including naming the CITY as an additional insured, in any work that is subcontracted unless such subcontractor is covered by the protection afforded by the CONTRACTOR and provided proof of such coverage is provided to CITY. The CONTRACTOR and any subcontractors shall maintain such policies during the term of this Agreement.

## **ARTICLE 7**

### **NON-DISCRIMINATION & EQUAL OPPORTUNITY EMPLOYMENT**

7.1 During the performance of the Agreement, neither CONTRACTOR nor its subcontractors shall discriminate against any employee or applicant for employment because of race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. CONTRACTOR will take affirmative



action to ensure that employees are treated during employment, without regard to their race, religion, color, gender, national origin, sex, age, marital status, political affiliation, familial status, sexual orientation, or disability if qualified. Such actions must include, but not be limited to, the following: employment, promotion; demotion or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. CONTRACTOR shall agree to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause. CONTRACTOR further agrees that he/she/it will ensure that subcontractors, if any, will be made aware of and will comply with this nondiscrimination clause.

## **ARTICLE 8 INDEPENDENT CONTRACTOR**

- 8.1 This Agreement does not create an employee/employer relationship between the parties. It is the intent of the parties that the CONTRACTOR is an independent CONTRACTOR under this Agreement and not the CITY's employee for all purposes, including but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, the State Workers' Compensation Act, and the State unemployment insurance law. The CONTRACTOR shall retain sole and absolute discretion in the judgment of the manner and means of carrying out CONTRACTOR activities and responsibilities hereunder provided, further that administrative procedures applicable to services rendered under this Agreement shall be those of CONTRACTOR which policies of CONTRACTOR shall not conflict with CITY, State, H.U.D., or United States policies, rules or regulations relating to the use of CONTRACTOR Funds provided for herein. The CONTRACTOR agrees that it is a separate and independent enterprise from the CITY, that it has full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This Agreement shall not be construed as creating any joint employment relationship between the CONTRACTOR and the CITY and the CITY will not be liable for any obligation incurred by CONTRACTOR including but not limited to unpaid minimum wages and/or overtime premiums.

## **ARTICLE 9 SIGNATORY AUTHORITY**

- 9.1 CONTRACTOR shall provide CITY with copies of requisite documentation evidencing that the signator for CONTRACTOR has the authority to enter into this Agreement.

## **ARTICLE 10 MERGER; AMENDMENT**

- 10.1 This Agreement constitutes the entire Agreement between CONTRACTOR and CITY, and negotiations and oral understandings between the parties are merged herein. This Agreement



can be supplemented or amended only by a written document executed by both CONTRACTOR and CITY with the same formality and equal dignity herewith.

## **ARTICLE 11 DEFAULT OF CONTRACT & REMEDIES**

- 11.1 CITY reserves the right to recover any ascertainable actual damages incurred as a result of the failure of CONTRACTOR to perform in accordance with the requirements of this Agreement, or for losses sustained by CITY resultant from CONTRACTOR failure to perform in accordance with the requirements of this Agreement.

## **ARTICLE 12 BANKRUPTCY**

- 12.1 It is agreed that if CONTRACTOR is adjudged bankrupt, either voluntarily or involuntarily, then this Agreement shall terminate effective on the date and at the time the bankruptcy petition is filed.

## **ARTICLE 13 DISPUTE RESOLUTION**

- 13.1 In addition to any other remedy provided hereunder, CITY, at its option, may use arbitration to resolve any controversy or claim arising out of or relating to this Agreement if arbitration is elected by CITY. Any controversy or claim arising out of or relating to this Agreement, or breach thereof, may be settled by arbitration in accordance with the rules of the American Arbitration Association and judgment upon the award rendered by the arbitrators may be entered into by any court having jurisdiction thereof. In the event arbitration is elected by CITY, such controversy or claim shall be submitted to one arbitrator selected by the CITY from the National Panel of The American Arbitration Association.
- 13.2 Operations During Dispute.

13.2.1 In the event that a dispute, if any, arises between CITY and CONTRACTOR relating to this Agreement, performance or compensation hereunder, CONTRACTOR shall continue to provide the Commodities in full compliance with all terms and conditions of this Agreement as interpreted by CITY regardless of such dispute.

13.2.2 Notwithstanding the other provisions in this Section, CITY reserves the right to terminate the Agreement at any time, whenever the subject goods and/or commodities provided by CONTRACTOR fail to meet reasonable standards of the trade or any warranty, express or implied contained herein, after CITY gives written notice to the CONTRACTOR of the deficiencies as set forth in Section 2.4.1 of this Agreement.

## **ARTICLE 14 PUBLIC RECORDS**



14.1 The City of Pembroke Pines is public agency subject to Chapter 119, Florida Statutes. The Contractor shall comply with Florida's Public Records Law. Specifically, the Contractor shall:

14.1.1 Keep and maintain public records required by the CITY to perform the service;

14.1.2 Upon request from the CITY's custodian of public records, provide the CITY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in chapter 119, Fla. Stat., or as otherwise provided by law;

14.1.3 Ensure that public records that are exempt or that are confidential and exempt from public record disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and, following completion of the contract, CONTRACTOR shall destroy all copies of such confidential and exempt records remaining in its possession after the CONTRACTOR transfers the records in its possession to the CITY; and

14.1.4 Upon completion of the contract, CONTRACTOR shall transfer to the CITY, at no cost to the CITY, all public records in CONTRACTOR's possession. All records stored electronically by the CONTRACTOR must be provided to the CITY, upon request from the CITY's custodian of public records, in a format that is compatible with the information technology systems of the CITY.

14.2 The failure of Contractor to comply with the provisions set forth in this Article shall constitute a Default and Breach of this Agreement and the CITY shall enforce the Default in accordance with the provisions set forth in **Article 11**.

**IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT**

**CITY CLERK  
10100 PINES BOULEVARD, 5<sup>th</sup> FLOOR  
PEMBROKE PINES, FL 33026  
(954) 450-1050  
[mgraham@ppines.com](mailto:mgraham@ppines.com)**



## ARTICLE 15 MISCELLANEOUS

- 15.1 **Ownership of Documents.** Reports, surveys, studies, and other data provided in connection with this Agreement are and shall remain the property of CITY, whether or not the project for which they are made is completed.
- 15.2 **Legal Representation.** It is acknowledged that each party to this agreement had the opportunity to be represented by counsel in the preparation of this Agreement, and accordingly, the rule that a contract shall be interpreted strictly against the party preparing same shall not apply herein due to the joint contributions of both parties.
- 15.3 **Records.** CONTRACTOR shall keep such records and accounts and require any and all subcontractors to keep records and accounts as may be necessary in order to record complete and correct entries as to the provision of Commodities or purchases hereunder for which CONTRACTOR. Such books and records will be available at all reasonable times for examination and audit by CITY and shall be kept for a period of \_\_\_\_ (\_\_\_\_) years after the completion of all work to be performed pursuant to this Agreement, or as otherwise required by Florida law. Incomplete or incorrect entries in such books and records will be grounds for disallowance by CITY of any fees or expenses based upon such entries.
- 15.4 **Assignments; Amendments.** This Agreement, and any interests herein, shall not be assigned, transferred or otherwise encumbered, under any circumstances, by CONTRACTOR without the prior written consent of CITY. For purposes of this Agreement, any change of ownership of CONTRACTOR shall constitute an assignment which requires CITY approval. However, this Agreement shall run to the benefit of CITY and its successors and assigns.
- It is further agreed that no modification, amendment, or alteration in the terms or conditions contained herein shall be effective unless contained in a written document executed with the same formality and of equal dignity herewith.
- 15.5 **No Contingent Fees.** CONTRACTOR warrants that it has not employed or retained any company or person, other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any person, company, corporation, individual or firm, other than a bona fide employee working solely for CONTRACTOR any fee, commission, percentage, gift, or other consideration contingent upon or resulting from the award or making of this Agreement. For the breach or violation of this provision, CITY shall have the right to terminate the Agreement without liability at its discretion, to deduct from the contract price, or otherwise recover the full amount of such fee, commission, percentage, gift or consideration.
- 15.6 **Notice.** Whenever any party desires to give notice unto any other party, it must be given by written notice, sent by certified United States mail, with return receipt requested, addressed to the party for whom it is intended and the remaining party, at the places last specified, and the places for giving of notice shall remain such until they shall have been changed by written





notice in compliance with the provisions of this section. For the present, CONTRACTOR and CITY designate the following as the respective places for giving of notice:

CITY                      Charles F. Dodge, City Manager  
City of Pembroke Pines  
10100 Pines Boulevard  
Pembroke Pines, Florida 33025  
Telephone No.            (954) 431-4884  
Facsimile No.            (954) 437-1149

Copy To:                Samuel S. Goren, City Attorney  
Goren, Cherof, Doody & Ezrol, P.A.  
3099 East Commercial Boulevard, Suite 200  
Fort Lauderdale, Florida 33308  
Telephone No.            (954) 771-4900  
Facsimile No.            (954) 771-4923

CONTRACTOR:        **[CONTACT, TITLE]**  
**[VENDOR NAME]**  
**[VENDOR ADDRESS]**  
**[VENDOR CITY, STATE, & ZIP CODE]**  
**Telephone No:**        \_\_\_\_\_  
**Facsimile No:**        \_\_\_\_\_  
**E-Mail:**                \_\_\_\_\_

- 15.7 **Binding Authority.** Each person signing this Agreement on behalf of either party individually warrants that he or she has full legal power to execute this Agreement on behalf of the party for whom he or she is signing, and to bind and obligate such party with respect to all provisions contained in this Agreement.
- 15.8 **Headings.** Headings herein are for the convenience of reference only and shall not be considered in any interpretation of this Agreement.
- 15.9 **Exhibits.** Each Exhibit referred to in this Agreement forms an essential part of this Agreement. The exhibits if not physically attached should be treated as part of this Agreement and are incorporated herein by reference.
- 15.10 **Severability.** If any provision of this Agreement or application thereof to any person or situation shall to any extent, be held invalid or unenforceable, the remainder of this Agreement, and the application of such provisions to persons or situations other than those as to which it shall have been held invalid or unenforceable, shall not be affected thereby, and shall continue in full force and effect, and be enforced to the fullest extent permitted by law.





- 15.11 **Extent of Agreement and Conflicts.** This Agreement represents the entire and integrated agreement between CITY and CONTRACTOR and supersedes all prior negotiations, representations or agreements, either written or oral.
- 15.12 **Waiver.** Failure of CITY to insist upon strict performance of any provision or condition of this Agreement, or to execute any right herein contained, shall not be constructed as a waiver or relinquishment for the future of any such provision, condition, or right, but the same shall remain in full force and effect.
- 15.13 **Disputes.** Any claim, objection, or dispute arising out of the terms of this Agreement shall be litigated in Broward County, Florida.
- 15.14 **Attorney's Fees.** In the event that either party brings suit for enforcement of this Agreement, each party shall bear its own attorney's fees and court costs, except as otherwise provided under the indemnification provisions set forth herein above.

**THE REMAINDER OF THIS PAGE  
HAS BEEN INTENTIONALLY LEFT BLANK.**



**IN WITNESS OF THE FOREGOING**, the parties have set their hands and seals the day and year first written above.

**CITY:**

CITY OF PEMBROKE PINES, FLORIDA

ATTEST:

\_\_\_\_\_  
MARLENE D. GRAHAM, CITY CLERK

By: \_\_\_\_\_  
MAYOR FRANK C. ORTIS

APPROVED AS TO FORM:

\_\_\_\_\_  
OFFICE OF THE CITY ATTORNEY

**CONTRACTOR:**

**[NAME OF CONTRACTOR]**

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

STATE OF \_\_\_\_\_)  
COUNTY OF \_\_\_\_\_)

**BEFORE ME**, an officer duly authorized by law to administer oaths and take acknowledgments, personally appeared \_\_\_\_\_ as \_\_\_\_\_ of **[NAME OF CONTRACTOR]**, a company authorized to conduct business in the State of Florida, and acknowledged execution of the foregoing Agreement as the proper official of **[NAME OF CONTRACTOR]** for the use and purposes mentioned in it and affixed the official seal of the corporation, and that the instrument is the act and deed of that corporation.

**IN WITNESS OF THE FOREGOING**, I have set my hand and official seal at in the State and County aforesaid on this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

\_\_\_\_\_  
NOTARY PUBLIC

\_\_\_\_\_  
(Name of Notary Typed, Printed or Stamped)

**REFERENCES FORM**

Provide specific examples of similar contracts. References should be should be capable of explaining and confirming your firm’s capacity to successfully complete the scope of work outlined herein. **This form should be duplicated for each reference and any additional information that would be helpful can be attached.**

**Reference Contact Information:**

Name of Firm, City, County or Agency:

Address:

City/State/Zip:

Contact Name: Title:

E-Mail Address:

Telephone: Fax:

**Project Information:**

Name and location of the project:

Nature of the firm’s responsibility on the project:

Project duration: Completion (Anticipated) Date:

Size of project: Cost of project:

Work for which staff was responsible:

Contract Type:

The results/deliverables of the project:

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E-Mail Address:

Telephone: Fax:

**Project Information:**

Name and location of the project:

Nature of the firm’s responsibility on the project:

Project duration: Completion (Anticipated) Date:

Size of project: Cost of project:

Work for which staff was responsible:

Contract Type:


The results/deliverables of the project:

[Vendor view of bid](#)

[Chat](#) | [Bid Comments](#) | [Documents](#) | [Attachments](#) | [Items](#)

**Bid #FI-16-01 - Fire Engine / Pumper Truck**  

**Time Left** Bid has ended.  
**Bid Started** Jan 17, 2017 8:04:38 AM EST  
**Bid Ended** **This bid closed on Feb 14, 2017 2:00:00 PM EST**  
**Agency Information** City of Pembroke Pines, FL ([view agency's bids](#))  
**Bid Classifications** [Classification Codes](#)  
**Bid Regions** [Regions](#)  
**Bid Contact** [see contact information](#)  
**Copy Bid** Click here to [copy](#) the bid and relist it as a new bid  
**View Rules** Click here to [change](#) the rules for this bid.  
**Best and Final Offer:** [Create](#)

**Notifications** [Report](#) [Bidder Activity](#)  
**# of suppliers that viewed** 37  ([View](#))  
**Q & A** [Questions & Answers](#)  
Q&A Deadline: Jan 30, 2017 8:30:00 PM EST

#### Approval

**View Approval Flow** [View Approval Flow](#)  
**Approval Status** **Approved**

#### Bid Comments









**Contract Duration** 3 years  
**Contract Renewal** See Specifications  
**Prices Good for** 90 days  
**Budgeted Amount** \$0.00 ([change](#))  
**Standard Disclaimer** Bids/proposals must be submitted electronically

Please note vendors should be registered on BidSync under the name of the organization that they are operating as and it should match the organization name on the documents that they are submitting and utilizing when responding to the solicitation. The vendor must provide the necessary information on the BidSync website and upload all of the requested documents listed in the PROPOSAL REQUIREMENTS section of this solicitation. Unless otherwise specified, the City requests for vendors to upload their documents as one (1) PDF document in the order that is outline in the bid package. The City recommends for proposers to submit their proposals as soon as they are ready to do so. Please allow ample time to submit your proposals on the BidSync website. Proposals may be modified or withdrawn prior to the deadline for submitting Proposals. BidSync Support is happy to help you with submitting your proposal and to ensure that you are submitting your proposals correctly, but we ask that you contact their support line at 1-800-990-9339 with ample time before the bid closing date and time. PLEASE DO NOT SUBMIT ANY PROPOSALS VIA MAIL, E-MAIL OR FAX. However, please note that any required Bid Bond or Cashier's Check should be in a sealed envelope, plainly marked "BID SECURITY" (with the Solicitation Number and Title) and sent to the City of Pembroke Pines, City Clerk's Office, 5th Floor, 10100 Pines Boulevard, Pembroke Pines, FL 33026

**Bid Comments** The City of Pembroke Pines is seeking proposals to provide the Fire Department with a Fire Engine / Pumper Truck that will meet their needs.

#### Documents

[Select All](#) | [Select None](#) | [Download Selected](#)

- |   |   |
|---|---|
| <input type="checkbox"/> 1.  <a href="#">FI-16-01 Fire Engine-Pumper Truck.pdf</a> ( <a href="#">download</a> )                  | <input type="checkbox"/> 2.  <a href="#">Attachment A - Contact Information Form.docx</a> ( <a href="#">download</a> )         |
| <input type="checkbox"/> 3.  <a href="#">Attachment B - Vendor Information Form and a W-9.pdf</a> ( <a href="#">download</a> )   | <input type="checkbox"/> 4.  <a href="#">Attachment C - Non-Collusive Affidavit</a> ( <a href="#">download</a> )               |
| <input type="checkbox"/> 5.  <a href="#">Attachment D - Sworn Statement on Public Entity Crimes</a> ( <a href="#">download</a> ) | <input type="checkbox"/> 6.  <a href="#">Attachment E - Local Vendor Preference Certification</a> ( <a href="#">download</a> ) |
| <input type="checkbox"/> 7.  <a href="#">Attachment F - Veteran Owned Small Business (VOSB) Preference</a>                       | <input type="checkbox"/> 8.  <a href="#">Attachment G - Equal Benefits Certification Form</a> ( <a href="#">download</a> )     |

[Product Feedback](#)



[Certification](#) [\[download\]](#)

☐ 9.  [Attachment H - Proposers Qualifications Statement](#) [\[download\]](#)

☐ 11.  [Attachment J - Specimen Contract Continuing Purchase.pdf](#) [\[download\]](#)

☐ 10.  [Attachment I - Sample Insurance Certificate.pdf](#) [\[download\]](#)

☐ 12.  [Attachment K - References Form](#) [\[download\]](#)

 = Included in Bid Packet  = Excluded from Bid Packet

#### Items

Item	Title	Offers	
FI-16-01--01-01	<a href="#">Fire Engine / Pumper Truck Cost</a>	Y	<a href="#">Info</a>
FI-16-01--01-02	<a href="#">Pre-Payment Discount Option</a>	Y	<a href="#">Info</a>
FI-16-01--01-03	<a href="#">Trade-In Value Option for a: 1997 E-One Hush XLT (VIN # 4ENBAAA81V1007640)</a>	Y	<a href="#">Info</a>
FI-16-01--01-04	<a href="#">Proposed Equipment (Fire Engine/Pumper Truck Year, Make and Model)</a>	Y	<a href="#">Info</a>
FI-16-01--01-05	<a href="#">Maintenance Shop Name and Location</a>	Y	<a href="#">Info</a>
FI-16-01--01-06	<a href="#">Number of Calendar Days to Complete and Furnish the Fire Engine / Pumper Truck</a>	Y	<a href="#">Info</a>

#### Contractor Advertisements

[View All Ads](#)

There are no advertisements on this solicitation.

Questions? Contact a BidSync representative: 800-990-9339 or email: [support@bidsync.com](mailto:support@bidsync.com)

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[Product Feedback](#)

## Question and Answers for Bid #FI-16-01 - Fire Engine / Pumper Truck

Create New Question

Question Deadline: Jan 30, 2017 8:30:00 PM EST

### Overall Bid Questions

There are no questions associated with this bid.

Questions? Contact a BidSync representative: 800-990-9339 or email: [support@bidsync.com](mailto:support@bidsync.com)