

BELOIT FIRE DEPARTMENT

A 2 1/2" Akron Brass 8800 series swing-out valve with a stainless steel ball.

Y__N__

The discharge shall be controlled from the top operator's panel.

Y__N__

The plumbing shall consist of 2 1/2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.

Y__N__

The discharge termination shall include the following components:

One (1) 2.5" Male NST adapter

One (1) 2.5" NST female by male swivel w/45 degree elbow

One (1) 2.5" female self-venting cap, secured by a chain

Y__N__

A Thuemling 2.5" (63mm) gauge shall be supplied for the discharge pressure reading of 0-400 psi. The gauge shall be a model FA-LFP-210 with a white face and black lettering.

Y__N__

PUMP COMPARTMENT SPEEDLAYS

Y__N__

Two (2) speedlay(s) shall be provided for up to 250 feet (60m) of 1.75 inch (44.4mm) hose in each.

Chicksan swivels shall be installed above each speedlay hose bed accessible enough for hose couplings to be tightened on to chicksans and allow the speedlay hose beds to be removable. The crosslay hose bed assembly shall be removeable from the walkway to allow access to the pumphouse. The hosebed shall be secured to the pumphouse with quick release latches. The hose bed Chicksan swivels shall swing from left to right to allow attached hose to be deployed from either side.

Y__N__

A 2" Akron Brass 8800 series swing-out valve with a stainless steel ball.

Y__N__

The discharge shall be controlled from the top operator's panel.

Y__N__

The plumbing shall consist of 2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.

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Y__N__

The discharge termination shall include the following components:

One (1) 2" NPT x 1.5" NST brass chickensan swivel

Y__N__

A Thuemling 2.5" (63mm) gauge shall be supplied for the discharge pressure reading of 0-400 psi. The gauge shall be a model FA-LFP-210 with a white face and black lettering.

Y__N__

SPEEDLAY TRIM

Brushed stainless steel trim shall be installed at the openings on each side of the speedlay hose bed area. The trim shall extend 8" into the speedlay bay opening from the outer edge. The trim shall reduce the chaffing of the hose jacket on the edges of the bay area.

Y__N__

SPEEDLAY COVER

The speedlay hose bed area shall have a vinyl cover installed on the sides of the speedlay bay openings. Each cover shall be held in place by Velcro on all four sides. A nylon strap with handle shall be attached to the bottom for fast access with a gloved hand.

Y__N__

The speedlay hose bed covers shall be red in color.

Y__N__

RIGHT SIDE DISCHARGE

There shall be a gated discharge installed on the right side of the apparatus. A total quantity of two (2) shall be provided with the following specified components:

Y__N__

A 2 1/2" Akron Brass 8800 series swing-out valve with a stainless steel ball.

Y__N__

The discharge shall be controlled from the top operator's panel.

Y__N__

The plumbing shall consist of 2 1/2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.

Y__N__

The discharge termination shall include the following components:

One (1) 2.5" Male NST adapter

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One (1) 2.5" NST female by male swivel w/45 degree elbow

One (1) 2.5" female self-venting cap, secured by a chain

Y__N__

A Thuemling 2.5" (63mm) gauge shall be supplied for the discharge pressure reading of 0-400 psi. The gauge shall be a model FA-LFP-210 with a white face and black lettering.

Y__N__

LEFT SIDE DISCHARGE

There shall be a gated discharge installed on the left side of the apparatus. A total quantity of two (2) shall be provided with the following specified components:

Y__N__

A 2 1/2" Akron Brass 8800 series swing-out valve with a stainless steel ball.

Y__N__

The discharge shall be controlled from the top operator's panel.

Y__N__

The plumbing shall consist of 2 1/2" piping, and shall incorporate a manual drain control installed below the pump area for ease of access.

Y__N__

The discharge termination shall include the following components:

One (1) 2.5" Male NST adapter

One (1) 2.5" NST female by male swivel w/45 degree elbow

One (1) 2.5" female self-venting cap, secured by a chain

Y__N__

A Thuemling 2.5" (63mm) gauge shall be supplied for the discharge pressure reading of 0-400 psi. The gauge shall be a model FA-LFP-210 with a white face and black lettering.

Y__N__

DECK GUN MONITOR WATERWAY

There shall be one (1) deck gun monitor waterway(s) installed on the apparatus.

Y__N__

A 3" Akron Brass 8800 series slo-cloz swing-out valve with a stainless steel ball.

Y__N__

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The discharge shall be controlled from the top operator's panel.

Y__N__

The waterway shall be plumbed with 3" piping that terminates 3" above the top of the pump compartment unless otherwise specified or required by a specific deck gun selection as noted.

Y__N__

The plumbing shall be drained with an auto-drain located at the lowest point of the waterway plumbing if required.

Y__N__

The waterway plumbing will be capped with a stainless steel cap to allow for future installation of deck gun monitor.

Y__N__

A Thuemling 2.5" (63mm) gauge shall be supplied for the discharge pressure reading of 0-400 psi. The gauge shall be a model FA-LFP-210 with a white face and black lettering.

Y__N__

The deluge pipe shall be located up through the pump compartment, centered from left to right.

Y__N__

BOOSTER HOSE REEL

There shall be one (1) Hannay Model EF series electric rewind booster reel(s) with automatic brake installed on the apparatus. The reel(s) shall have a capacity of 200' of 800 psi booster hose. The reel(s) shall be plumbed to the pump with a 1" quarter turn Akron 8810 ball valve(s) and 1" high pressure hose and couplings. The valve(s) shall be controlled from the operator's panel.

Y__N__

There shall be a manual rewind device provided. A manual crank shall be mounted adjacent to booster reel(s).

Y__N__

Each hose reel specified shall be steel and painted the standard silver utilized by Hannay.

Y__N__

The hose reel shall be mounted on the floor of the upper rear center compartment, adjacent to the tailboard.

Y__N__

There will be two (2) stainless steel hose roller guides installed one (1) on either side of the compartment door opening to allow hose deployment without rubbing the apparatus.

Y__N__

An electric rewind switch shall be located adjacent to the booster reel. The switch shall have a

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weather resistant rubber cover and label denoting its function.

Y__N__

HOSE REEL BLOW OUT

There shall be an air "blowout" system furnished for reel drainage. The air blow out system shall be connected to the chassis air brake system. There shall be a check valve furnished between the chassis system and the reel blow out system. There shall be a ¼ turn manual control valve furnished on the pump operators panel for the air blow out system.

The valve shall be labeled "REEL BLOW OUT".

Y__N__

BOOSTER HOSE

The reel shall come equipped with 200 feet of 1" diameter booster hose, 800 psi. The hose shall be provided in 100 foot lengths with hardcoat aluminum couplings.

Y__N__

FOAMPRO 2001

There shall be a fully automatic electronic direct injection foam proportioning system furnished and installed on the apparatus. The proportioning operation shall be based on an accurate direct measurement of water flows by a paddle wheel flow meter with no water flow restriction. The foam system shall have a 12 volt, 1/2 horsepower "TENV" electric motor, designed for high humidity environments, coupled to a positive displacement piston type foam concentrate pump. It shall have a rated capacity of .01 to 2.6 GPM with operating pressures up to 400 psi. The system shall be model FoamPro 2001, manufactured by the Hypro Corporation installed in accordance with the manufacturers recommendations.

The system shall be equipped with a digital electronic control display. It shall be installed on the pump operators panel and enable the pump operator to perform the following functions:

- Activate the foam system
- Change foam concentrate proportioning rates from .1% to 3% in .1% increments.
- Display current flow in GPM
- Display total flow in GPM
- Display total amounts of foam concentrates used
- Provide simulated flow for manual operation
- Perform setup and diagnostic functions

Y__N__

FOAM SYSTEM TESTING

The apparatus foam system shall be tested and certified.

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Y__N__

The foam system shall supply a total quantity of four (4) discharge(s) as specified:

Both speedlays, left rear 2 1/2", booster reel

Y__N__

The system shall be supplied by a single foam tank that shall be monitored by the control display. The display shall flash a "low concentrate" warning for two minutes when the foam tank runs low. In the event that no additional concentrate is added to the tank, the foam concentrate pump shall be deactivated.

Y__N__

FOAM TANK

A 20 gallon foam tank with square hinged lid, equipped with a hold down device shall be installed and plumbed with non-corrosive piping to the foam system. The fill tower shall be approximately 10" x 10".

A label shall be affixed to the foam tank fill indicating: "WARNING" Class A (or B) foam tank fill, do not mix brands or types of foam.

Y__N__

The foam tank(s) shall be integral with the booster water tank provided.

Y__N__

There shall be a 1" quarter turn drain valve installed to drain the foam tank. The valve shall be installed in the pump house with a drain line extended to the side running board.

The drain line shall be labeled "FOAM DRAIN".

Y__N__

FOAM TANK LEVEL GAUGE

There shall be one (1) Fire Research TankVision LED electronic foam level gauge located on the operator's control panel. This level gauge utilizes ultra bright LEDs for sunlight readability, and two wide-viewing lenses for 180 degrees of clear viewing.

Y__N__

TANK TO PUMP LINE

The connection between the tank and the pump shall be capable of the flow recommendations as set forth in NFPA Pamphlet 1901, latest revision and shall be tested to those standards when the pump is being certified. One (1) non-collapsible flexible hose(s) and valve(s) shall be incorporated into the tank to pump plumbing to allow movement in the line as the chassis flexes

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to avoid damage during normal road operation. Four (4) inch stainless steel schedule 10 piping to be used to complete the connection from the tank to pump valve to the water tank.

Y__N__

A 3" Akron Brass 8000 series swing-out valve with a stainless steel ball.

Y__N__

The valve shall be controlled from the top operator's panel.

Y__N__

TANK TO PUMP FLAPPER VALVE

There shall be a tank to pump flapper valve, conforming to NFPA standard requirements, which shall be of bronze construction. The flapper valve shall be mounted as an integral part of the pump suction extension.

Y__N__

TANK FILL LINE

One (1) 2" tank fill/recirculating line shall be installed from the pump directly to the booster tank.

Y__N__

A 2" Akron Brass 8000 series swing-out valve with a stainless steel ball.

Y__N__

The valve shall be controlled from the top operator's panel.

Y__N__

The apparatus body shall be a Tri-Max™ **Space Frame** design, which serves as an incredibly durable, structural body framework. This framework acts as a series of beams and columns that support and protect the body and its contents. The space frame design provides maximum torsional resistance and load capabilities. The entire space frame structure shall be welded together utilizing an A.W.S. Certified welding procedure.

The space frame design shall also be required because it provides energy absorbing impact zones in the structure, thus providing increased safety to the rest of the apparatus and personnel on board. Documented proof of this extra safety shall be required upon request.

The Tri-Max™ body structure shall consist entirely of closed section members, except where the body is mounted to the chassis. Closed section members (such as square, rectangular, triangular, or round tubes) are required because they provide maximum strength and torsion rigidity. This solid tubular structural style of design ultimately adds longevity to the body structure by eliminating flex and twists in material, creating less stress and fatigue. Body designs that use independent sub-frames will not be acceptable.

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Body Structure Members: The space frame body shall have triangular shaped structural members in certain areas of the body. This shape is required to prevent loss of useable compartment space. Other body structure members shall be square or rectangular. Each structural member will have a nominal outside dimension of 2.5" in at least one direction. The body shall be designed for maximum strength to weight ratio, therefore the gauge of sheet metal and structural members varies from .125 to .250 throughout, dependent on the design requirement.

Body Material Type: All body structural members shall be Aluminum 6061-T6 alloy material. All .125 sheet material shall be Aluminum Alloy 5052-H32 and .250 sheet materials shall be Aluminum Alloy 3003. These alloys are required because it provides optimum all around performance for strength, manufacturing properties, and corrosion resistance.

Absolutely no dissimilar metals shall be used in the body and its supporting substructure without being separated by a sufficient corrosion and electrolysis inhibitor.

Front Body Compartment Walls: The front compartment walls of both forward most compartments shall be sheet finished. No overlay material shall be visible from the interior of the compartments.

Rear Body Compartment Walls: The rear compartment walls of both rearward most compartments shall be sheet finished. No overlay material shall be visible from the interior of the compartments. Access panels from the rear walls shall be strategically placed to ensure access to the rear taillight clusters for any servicing that may be completed.

Compartment Top: The top of the compartments shall be an integral portion of the body. No overlay material shall be visible from the interior of the compartments.

Compartment Floors: The body compartments shall be enclosed with aluminum sheet metal as specified above. The compartment floors shall have a 1" lip downward at the door opening side of the compartment. This lip shall integrate with a structural member on the bottom edge and form a "sweep-out" compartment. This design shall also allow for a structural flush fitting door frame and a complete door/weather seal.

Compartment Load Capacity: Each compartment shall have a minimum of one additional structural compartment floor support centered on the underside of the compartment floor. This additional member shall be integral with the rest of the body structure. Each compartment must be designed, and 3rd party analyzed to carry a working load of:

Full depth side compartment: 1,000 lbs per compartment
Half depth side compartment: 750 lbs per compartment
Rear center compartment: 1,500 lbs per compartment

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NOTE: These values are for design purposes only for individual compartment construction and are not meant to be used as an actual overall weight rating for the specified apparatus.

Exterior Hose Bed Walls: The exterior hose bed walls shall be an integral portion of the body. The wall shall give a smooth exterior look and finish with no vertical supports tubing visible from the exterior of the truck.

Finite Element Analysis: The proposed body design must have completed a review and analysis by a legitimate 3rd party engineering firm. At a minimum, the 3rd party must have conducted a computer model finite element analysis of the proposed design. The analysis is to include real world working load scenarios. Analysis to cover both static and dynamic situations must be completed. The purpose of the finite element analysis is to ensure proper design of the apparatus body, and that it is capable of carrying the typical fire apparatus loads and those specified by NFPA for equipment. The analysis process must conclude that the body structure is properly designed and manufactured to provide longevity under normal conditions. The 3rd party must also validate the manufacturing processes are consistent with the design and analysis performed. Proof of having completed this testing must be submitted with the bid.

Y__N__

PAINT SPECIFICATIONS

All bright metal fittings, if unavailable in stainless steel, shall be heavily chrome plated.

Critical body and sub-frame area which cannot be primed after assembly shall be pre-painted.

All welded metal surfaces shall be ground to a smooth surface prior to a degreasing and high pressure, high temperature phosphatizing process. The entire surface shall be sprayed with a non-chromate sealing compound to prevent formulation of stains or flash rust on previously phosphatized parts.

The paint applied to the apparatus shall be PPG Industries Delta® brand, applied throughout a multi-step process including at least two coats of each color and clear coat finish.

The coating shall be an infra-red, baked air dried. The coatings shall provide full gloss finished suitable for application by high-pressure airless or conventional low pressure air atomizing spray.

The coatings shall not contain lead, cadmium or arsenic. The polyisocyanate component shall consist of only aliphatic isocyanates, with no portion being aromatic isocyanates in character. The solvents used in all components and products shall not contain ethylene glycol mono-ethyl ethers or their acetates (commercially recognized as cello solves), nor shall they contain any chlorinated hydrocarbons. The products shall have no adverse effects on the health or nor present

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any unusual hazard to personnel when used according to manufacturer's recommendations for handling and proper protective safety equipment, and for its intended use.

The coating system, as supplied and recommended for application, shall meet all applicable federal, state and local laws and regulations now in force or at any time during the courses of the bid.

The manufacturer shall supply (upon request) for each product and component of the system, a properly complete OSHA "Safety Data Sheet".

The following documents of the issue in effect on the date of the invitation to quote form a part of this document to the extent specified herein:

Federal Standards: Number 141A and 141B paint, varnish, lacquer and related material: methods of inspection, sampling, and testing.

Military Standard: MIL-C 83486B Coating, Urethane, Aliphatic Isocyanates, for Aerospace applications.

Industry Methods and Standards: ASTM Method of Analysis (American Society for testing and Materials). BMS 10-72A (Boeing Material Specifications).

The entire exterior body structure (excluding roll-up doors) shall receive the primer coats and the finish coats. The apparatus body, will be painted in a down draft type paint booth to reduce dust, dirt or impurities in the finish paint. The painted surfaces shall have a finish with no runs, sags, craters, pinholes or other defects. The coating will meet the following test performance properties as a minimum standard. (SEE PDF).

Y__N__

BODY PAINT COLOR

The apparatus body shall be painted Red {" MUST SPECIFY " }.

Y__N__

Y__N__

SPEEDLINER COMPARTMENT FINISH

The compartment interiors shall be coated with Speedliner. The color shall be medium gray.

Speedliner is an Industrial polymer coating with a low VOC content offering good resistance to U. V. and common chemical solvents including fuels and corrosive materials. Speedliner provides a tough 4600 psi tensile strength protective coating that is tear and abrasion resistant. Speedliner is approved in accordance with the Federal Motor Vehicle Safety Standard FMVSS 302 to provide an acceptable flammability and flame propagation rate for coatings applied to

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motor vehicles. It requires no special maintenance and is washable.

Y__N__

REAR TAILBOARD

The rear tailboard shall be fabricated of the same tubular materials as used in the apparatus body. The tailboard shall be an independent assembly welded to the rear body structural framing to provide body protection and a solid rear stepping platform. The rear step shall be designed to incorporate "crush zone" technology. This idea incorporates lighter materials in the tailboard than the body structure so the step will "crush" in a collision before the body structure.

The rear of the apparatus body shall be vertical in design - otherwise known as a 'flat-back'. On the rear body surface, a sign shall be attached that states: "DO NOT RIDE ON REAR STEP, DEATH OR SERIOUS INJURY MAY RESULT."

The rear tailboard and body shall be constructed such that the angle of departure shall be no less than 8 degrees at the rear of the apparatus when fully loaded (Per NFPA 1901).

Y__N__

The rear tailboard shall be approximately thirteen and one-half (13.5) inches deep and shall incorporate a ventilated "Diamondback" material stepping surface bolted in place which spans the full width of the apparatus on non-recess designs, and as wide as possible on inset recess designs. The extruded stepping surface shall be completely enclosed by the supporting structural framework to minimize damage.

The ventilated "Diamondback" material shall be capable of being easily replaced if necessary, using only hand tools. The framework shall be covered with an adhesive tape providing an aggressive traction surface. Use of any aluminum diamond plate material on these areas shall not be acceptable.

Y__N__

GENERAL BODY DETAILS

All compartmentation shall be constructed in a sweep out design to be water and dust resistant, and manufactured to the maximum possible storage capacity.

FASTENERS

All bolts and nuts used in the finish construction of the apparatus shall be coated stainless steel which helps prevent dissimilar metal electrolytic reaction and corrosion. The Manufacturer may be requested to supply evidence of fastener coating and results of salt spray testing when dissimilar metals are used. Any bolt extending into a compartment or into the hose bed area shall have an acorn nut attached or be protected in such manner where sharp edges are avoided.

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WHEEL WELLS

Wheel wells shall have semicircular black polymer composite inner liners that are bolted to the wheel well panel and supported inboard by brackets that are connected to the body framework. Each wheel well shall be a continuous piece with no breaks or ledges where road grime or debris may accumulate. This liner shall be removable for access to suspension assembly for repairs. There shall be no exception to the bolted wheel well inner liner requirement.

Y__N__

WHEEL WELL MODULES

The body wheel well area shall be fabricated of smooth aluminum and finish painted. There shall be "smart storage" compartmentation features incorporated on each side of the apparatus body wheel well modules to utilize and maximize storage space availability.

Y__N__

WHEEL CHOCK COMPARTMENT

There shall be a compartment located in the wheel well to hold a set of Zico folding wheel chocks.

Y__N__

The compartment module shall be located in front of the axle on the left side.

Y__N__

SCBA COMPARTMENT

There shall be a compartment located in the wheel well to hold three (3) 6.75" Diameter x 24" long SCBA bottles with 1" nylon safety loops installed.

Y__N__

The compartment module shall be located in front of the axle on the right side.

Y__N__

SCBA COMPARTMENT

There shall be a compartment located in the wheel well to hold three (3) 6.75" Diameter x 24" long SCBA bottles with 1" nylon safety loops installed.

Y__N__

The compartment module shall be located behind the axle on the right side.

Y__N__

SCBA COMPARTMENT

There shall be a compartment located in the wheel well to hold three (3) 6.75" Diameter x 24"

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long SCBA bottles with 1" nylon safety loops installed.

Y__N__

The compartment module shall be located behind the axle on the left side.

Y__N__

The smart storage compartment doors shall be "Aluminum Diamond Plate".

Y__N__

DOOR OPEN INDICATOR

Each smart storage compartment door shall have a "plunger" style switch.

If the door is not properly closed and the transmission is placed into drive or reverse mode with the parking brake released, it shall activate the "Door Open" indicator light in the cab to warn the crew.

Y__N__

VIBRA-TORQUE™ BODY MOUNTING SYSTEM

The entire body module assembly shall be mounted so that it "floats" above the chassis frame rails exclusively with Vibra-Torq™ torsion isolator assemblies to reduce the vibration and stress providing an extremely durable body mounting system.

The body substructure shall be mounted above the frame to allow independent flexing to occur between the body and the chassis. Each assembly shall be mounted to the chassis frame rails with steel, gusseted mounting brackets. Each bracket shall be powder coated for corrosion resistance. Each body mount bracket shall be mounted to the side chassis frame flange with two 5/8"-UNC Grade 5 HHCS.

Each assembly shall have a two-part rubber vibration isolator. The isolator shall be of a specific durometer to carry the necessary loads of the apparatus body, equipment, tank, water, and hose. The quantity of mounts utilized shall correspond directly to the anticipated weight being supported. Certain assemblies shall also incorporate a torsion spring. Helical coil springs shall be incorporated into specific mounts in tandem with the rubber isolators to minimize the stress absorbed by the body caused from chassis frame rail flexing.

There shall be no welding to the chassis frame rail sides, web or flanges, or drilling of holes in the top or bottom frame flanges between axles. All body to chassis connections shall be bolted so that in the event of an accident, the body shall be easily removable from the truck chassis for repair or replacement.

Because of the constant vibration and twisting action that occurs in chassis frame rails and suspension, the torsion mounting system is required to minimize the possibility of premature

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body structural failures. The Vibra-Torque™ body mounting system shall have a lifetime warranty.

Y__N__

BODY STRUCTURE WIDTH

The width of the apparatus body from the outside of the left compartments to the outside of the right compartments shall be 99" excluding any attached peripherals such as rub rails, fenderettes, grab handles, etc.

Y__N__

COMPARTMENT VENTILATION

To allow for proper air circulation & flow, each compartment shall have a venting route. The venting locations shall be determined by best-fit for each body configuration. The vents will be chrome louvered plate and installed appropriately on the compartment interior walls.

Y__N__

SIDE COMPARTMENT UNISTRUT

Vertically mounted Unistrut shall be installed in all apparatus body "SIDE" compartments, to accommodate the installation of shelves, trays, and or other miscellaneous equipment.

Y__N__

COMPARTMENTATION

The following compartments shall be supplied on the apparatus:

Compartment "L1": There shall be one (1) low height compartment ahead of the rear wheels on the left side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 33.5" wide by 29" high with a lower depth of 25.5".

Compartment "L2": There shall be three (3) compartments above of the rear wheels on the left side of the apparatus. The approximate interior dimensions of these compartments shall be approximately 48" wide by 36" high with a lower depth of 12.5". The doors shall be hinged horizontally.

Compartment "L3": There shall be one (1) low height compartment located behind the rear wheels on the left side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 49" wide by 29" high with a depth of 25.5".

Compartment "R1": There shall be one (1) low height compartment ahead of the rear wheels on the right side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 33.5" wide by 29" high with a lower depth of 25.5".

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Compartment "R2": There shall be two (2) high side compartments above of the rear wheels on the right side of the apparatus. The approximate interior dimensions of these compartments shall be the same width by 36" high with a depth of 12.5". The doors shall be hinged horizontally.

Compartment "R3": There shall be one (1) low height compartment located behind the rear wheels on the right side of the apparatus. The approximate interior dimensions of this compartment shall be a minimum of 49" wide by 29" high with a depth of 25.5".

Y__N__

FULL HEIGHT (WIDE OPENING) REAR CENTER COMPT W/ HINGED DOORS

"B1" Compartment: There shall be two (2) compartments located at the rear of the apparatus, directly below the hose bed access area.

The approximate interior dimensions of this compartment shall be 43" wide and 36" high or as high as possible determined by the hose bed height with a depth of 31" dependent on suspension, with the sides of the compartment being open to the side compartments for maximum storage area.

The compartment shall have a hinged door installed. The framed opening shall be approximately 43" wide and 33" high. The compartment will have approximately 35 cubic feet of usable storage space.

There shall be an upper compartment for mounting the booster reel. The compartment shall have a lift up door.

Y__N__

LEFT OVERWHEEL COMPARTMENT UNISTRUT

Horizontally mounted Unistrut shall be installed on the back wall of the three (3) left overwheel compartment(s) to accommodate mounting of SCBA units and cylinders.

Y__N__

REAR COMPARTMENT UNISTRUT

Horizontally mounted Unistrut shall be installed on the back wall of the rear center compartment to accommodate mounting of shelves, trays, tool boards and or other miscellaneous equipment.

Y__N__

FLUSH FITTING HINGED DOOR CONSTRUCTION

All doors shall be a minimum of 2" thick with a return flange on the interior of the door to provide a mounting surface for the attachment of a brushed door liner. To prevent corrosion, the

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liners shall not be attached with metallic fasteners. Each door will have a weep hole to prevent interior moisture build up.

All door hinges shall be polished 14 gauge 304 stainless steel with a 1/4" diameter stainless steel pin. The hinges shall be mounted to provide easy door adjustment in the future without removing the door liner. The vertically hinged doors shall each have a stainless steel spring loaded door holder. The horizontally top hinged doors shall have a gas charged shock to hold the door in the up position.

Door handles shall be polished stainless steel D-ring style that are spring loaded and bidirectional. They shall be mounted on the doors of compartments with a single door or on the primary door of a compartment with vertical double doors. The latches shall attach to the door assembly without any fasteners penetrating the door skin material, with a rubber gasket provided between the D-ring handle and the door skin. The door latch assembly must be completely enclosed by the door assembly and inner door pan, to prevent damage from shifting equipment carried in the compartment.

The door latches to open the secondary door of a compartment with vertical double doors shall be "lever" style, located on the backside of the door. Once the primary door is opened, the handle shall be easily visible. Full height secondary doors will have the latch at the bottom of the door with all others door heights having the latch at the top of the door.

All hinged doors shall be a "flush" style to provide a flat appearance of the body side. The body shall form a 2" deep frame on all four sides to receive the door, preventing any door overlap. A clip on rubber gasket shall be mounted on the door frame, providing a tight seal to prevent moisture and debris from entering the compartment.

Lap type doors which utilize an outer lip to provide a weather seal, shall not be acceptable.

Y__N__

DOOR OPEN INDICATOR

Each flush door compartment shall have a magnetic style reed indicator switch. Each switch shall be hermetically sealed rated to 10,000,000 cycles. The reed shall be potted in the contact housing with polyurethane and the housings shall be molded fire retardant ABS plastic. The contact and magnetic housing shall snap-lock in the body material, one on the body and one in the door.

If the door is not properly closed and the transmission is placed into drive or reverse mode with the parking brake released, it shall activate the "Door Open" indicator light in the cab to warn the crew.

Y__N__

All horizontal and vertical side compartment doors and door liners shall be fabricated of 5052 aluminum.

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SILL PLATES

Y__N__

Brushed stainless steel sill plates shall be installed at the bottom of each body compartment door opening.

HOSE STORAGE

Y__N__

A hose bed shall be provided and installed with a minimum of thirty (30) cubic feet of storage space available. The hose bed shall have a slotted 1/4" aluminum flooring installed to allow drainage through the tank cavity to the ground below.

The aluminum flooring shall be manufactured in discrete sections to allow for ease of removal and stability. The area shall be free of sharp edges to protect the hose when loading and unloading.

HOSE BED AREA

Y__N__

The hose bed area of the apparatus shall be overlaid with brushed stainless steel material.

The walls of the hose bed shall be 85" tall, measured from the bottom edge of the compartments to the top flange.

Y__N__

VINYL COATED NYLON HOSE BED COVER

Y__N__

There shall be a hose bed cover provided and installed with the apparatus. The cover shall be held in place by extruded aluminum channel on the front and an elastic shock cord sewn into the tarp with brass grommets where the shock cord passes through the hose bed cover on the sides. Hooks shall be provided on the sides to provide a means of attaching the cover to the apparatus. The hooks shall be made of cast aluminum. The cover shall have a flap that extends down over the rear of the hose bed which shall be described below.

Y__N__

The cover shall have a flap that extends down over the rear of the hose bed which shall be fastened by an elastic shock cord sewn into the tarp with brass grommets where the shock cord passes through the hose bed cover. Hooks shall be provided on the lower corners to provide a means of attaching the cover to the apparatus. The hooks shall be made of cast aluminum.

The hose bed cover shall be red in color.

Y__N__

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Y__N__

HOSE BED AREA TRIMMED W/ BRUSHED SST

The vertical corners at the back hose bed shall be trimmed with brushed stainless steel. The trim shall extend from the hose floor level up to the top edge of the body side.

Y__N__

The top rail on the hose bed side walls shall have a trim cap fabricated of 16 gauge brushed 304L stainless steel. The cap shall run the entire length of the hose bed side wall and shall provide a smooth surface with a highly finished appearance. It shall extend down at least 1" on each side of the hose bed side wall.

Y__N__

The hose bed shall accommodate the following hose loads:

<u>Qty</u>	<u>Size</u>
400 ft	5"
800 ft	3"
650 ft	1 3/4"

Y__N__

HOSE BED DIVIDER(S)

There shall be a divider provided and installed in the hose bed area of the apparatus body.

The divider shall be fabricated of 1/4" thick aluminum plate with a double sided reinforcement and attached to the adjustable slide rails. The rear of the divider shall have a radius to provide a smooth corner. Hose payout shall be unobstructed by the divider.

There shall be a total quantity of three (3) dividers installed in the hose bed.

Y__N__

HOSE BED DUNNAGE AREA

A vertical bulkhead shall be provided and installed at the front of the hose bed area, just behind the water tank fill tower, forming a storage area that is separated from the hose bed.

The rear face of the bulkhead shall serve as a mounting surface for the hose bed dividers, resulting in the ability to move any hose bed divider across the entire width of the hose bed.

Y__N__

FENDERETTES

Two (2) polished stainless steel fenderettes shall be provided and installed on body rear wheel

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well openings, one (1) each side. Rubber welting shall be provided between the body and the crown to seal the seam and restrict moisture from entering. A dielectric barrier shall be provided between the fender crown fasteners (screws) and the fender sheet metal to resist deterioration.

Y__N__

TANK CAPACITY

The tank shall be 1000 gallons in capacity.

Y__N__

TANK LEVEL GAUGE

A Fire Research TankVision model WLA200-A00 tank indicator kit shall be installed on the apparatus. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of aluminum, and have a distinctive blue label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall be placed on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

Y__N__

PRO POLY POLYPRENE TANK

The water tank shall be designed to utilize cavities that have commonly been wasted space. The water tank shall extend up and over the rear center compartment to just behind the rear body wall. The water tank shall fill the void between the main hose bed floor and the top of the rear center compartment. This tank design shall provide for a lower overall tank height, resulting in a lower overall main hose bed height. In addition, this design shall create a lower center of gravity of the vehicle, for improved vehicle handling.

Tank Construction

The booster tank shall be constructed of 1/2" thick polypropylene sheet stock which is a non-corrosive stress relieved thermoplastic. It shall be designed to be completely independent of the body and compartments. All joints and seams are extrusion welded and/or contain the "Bent Edge" and tested for maximum strength and integrity. The top of the booster tank is fitted with

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lifting eyes designed with a 3 to 1 safety factor to facilitate tank removal.

Cover

The tank cover shall be constructed of 1/2" thick polyprene and shall be recessed. A minimum of two lifting dowels shall be drilled and tapped 1/2" x 2" to accommodate the lifting eyes.

Baffles

The swash partitions shall be manufactured from 1/2" polyprene. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments to provide maximum water flow. All swash partitions interlock and are welded to one another as well as to the walls of the tank.

Mounting

The tank shall have a reinforced 3/4" floor for added strength and durability. The tank shall be isolated from the body substructure cross members with 1/2" x 2 1/2" rubber strips that are 60 durometer in hardness. The tank shall sit nested inside the center body substructure and shall be completely removable without disturbing the body side panels. Tank stops on all four sides will keep the tank from shifting front to back or side to side.

Y__N__

FILL TOWER

The fill tower opening shall be approximately 13" x 12". The tower will have a 1/4" thick removable polyprene screen and a polyprene hinged type cover that will open if the tank is filled at an excess rate. There shall be a removable 1/4" thick polyprene screen to prevent debris from falling into the tank. The fill tower shall have a 6" overflow that will discharge underneath the tank, behind the rear wheels. The overflow shall terminate above the tank water level when filled to the rated capacity.

Y__N__

The fill tower shall be located in the left front hose bed.

Y__N__

SUMP

The sump will be constructed in an 8.0" wide x 8.0" long x 3.0" deep area. The construction material shall utilize 1/2" polyprene and be located in line with the tank suction valve. There shall be a 4" schedule 40 polyprene tube installed that will run from the suction outlet to the sump location. The tank will have an anti-swirl plate located approximately 2" above the sump.

Y__N__

The sump shall have a 3" plug for use in draining and cleaning out the tank.

Y__N__

OUTLETS

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In addition to the tank suction valve outlet located in the sump, there shall be an outlet provided for the tank fill valve. If there are any additional options selected (such as an extra tank suction or direct tank inlets), there shall be additional outlets provided to accommodate these items.

Y__N__

OVERHEAD LADDER RACK

There shall be a fold down ladder rack assembly provided and installed on the apparatus. The ladder rack shall be a hydraulic actuated pivot assembly to fold the ladder rack down from overtop of the high side compartments to the side of the compartments.

There shall be a fold down hinged door 24" wide provided and installed to open automatically when the ladder rack is lowered. The door will also provide access to the actuator and safety lock when service is required.

There shall be a spring loaded quarter turn latch provided to hold the ladders on the rack when it is in any position. There shall be an automatic safety latch to hold the ladder rack in the stowed position.

Flashing LED warning lights shall be provided at the front and rear of the ladder rack and shall automatically activate when the ladder rack is in the down position. When the ladder rack is in motion, the chassis backup alarm shall sound. When the ladder rack is in the down position the bottom of the rack shall be approximately 48" from the ground when deployed.

The ladder rack shall be rated to lift up to 500 lbs. When the apparatus is equipped with hinged doors, an interlock shall be installed in the ladder rack circuit to prevent ladder rack operation when any doors are not closed.

Y__N__

The ladder rack shall be located on the right side of the apparatus body and shall accommodate mounting of the following:

Y__N__

- One (1) 14 foot aluminum roof ladder.
- One (1) 35 foot three section aluminum Duo-Safety extension ladder.

Y__N__

SHELVING

Each shelf shall be fabricated of 3/16" thick aluminum sheet material with the outside and inside edges flanged up to prevent equipment from sliding off. Each shelf shall be as wide as possible to allow proper attachment to uni-strut channels. Each shelf shall be adjustable up and down.

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The following shall be provided:

A {12.5"} deep shelf shall be supplied and installed in the compartment. Each shelf shall be as wide as possible and there shall be a total quantity of four (4).

Y__N__

Each shelf or tray shall be covered with (black) Versaflex tile for durability and a pleasing appearance.

Y__N__

- One (1) located in the R-1 compartment.

Y__N__

- One (1) located in the R-3 compartment.

Y__N__

A {25.5"} deep shelf shall be supplied and installed in the compartment. Each shelf shall be as wide as possible and there shall be a total quantity of two (2).

Y__N__

Each shelf or tray shall be covered with (black) Versaflex tile for durability and a pleasing appearance.

Y__N__

- One (1) located in the L-1 compartment.

Y__N__

- One (1) located in the R-1 compartment.

Y__N__

- One (1) located in the R-3 compartment.

Y__N__

A shelf shall be installed in the rear center compartment of the apparatus. Each shelf shall be as wide and deep as possible and there shall be a total quantity of one (1).

Y__N__

Each shelf or tray shall be covered with (black) Versaflex tile for durability and a pleasing appearance.

Y__N__

Y__N__

SIDE RUB RAILS (ALUMINUM CHANNEL)

The lowest edge of the apparatus body side compartments shall be trimmed with brightly anodized aluminum channel rub rail material.

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The rub rails shall be approximately 3.00" high with flanges turned outwards for increased rigidity, with each end chamfered to a 45 degree angle. The rub rails shall not be constructed as an integral part of the apparatus body structure, allowing each rub rail to be easily removed in the event of damage.

The rub rails shall be secured with stainless steel fasteners and spaced away from the apparatus body with ½" nylon spacers to help absorb moderate side impacts and prevent the collection of water and debris for easier cleaning.

Y__N__

REAR RUB RAIL (ALUMINUM CHANNEL)

The rearward edge of the rear step shall be trimmed with brightly anodized aluminum channel rub rail.

The rub rail shall be approximately 3.00" high with flanges turned outwards for increased rigidity, with each end chamfered to a 45 degree angle. The rub rail shall not be constructed as an integral part of the apparatus body structure, allowing the rub rail to be easily removed in the event of damage.

The rub rail shall be secured with stainless steel fasteners and spaced away from the edge of the rear step with ½" nylon spacers, to help absorb moderate rear impacts and prevent the collection of water and debris for easier cleaning.

Y__N__

OVERLAYS

The entire front face of the apparatus body shall have aluminum diamond plate overlays installed. The entire rear face of the apparatus body shall have raw aluminum overlays installed for the installation of chevron striping.

All overlay materials shall be coated with 3M adhesive sealant on the back portion to provide an insulating barrier between dissimilar metals.

Y__N__

The front of the apparatus body, vertical wall overlay shall be integrated with a 1/8" aluminum diamond plate corner trim pieces for edge protection. The vertical edge trim piece shall extend from the top to bottom and shall be fastened at a minimum of three locations, top, middle, and bottom.

Y__N__

The rear face of the apparatus body, vertical wall overlays shall be installed with a 1/8" aluminum diamond plate 1.0" x 1.0" corner trim piece, for edge protection. The vertical edge

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trim piece shall extend from the top to bottom and shall be fastened at a minimum of three locations, top, middle, and bottom.

The vertical edge trim piece that is protecting the chevron striping surface or that is utilized for the purpose of striping, shall be secured utilizing fasteners only.

Y__N__

CATWALKS

The catwalks shall be constructed with materials of a non-slip 1/8" embossed aluminum diamond plate, meeting the minimum NFPA standard requirements for slip resistance.

Y__N__

FOLDING STEP

CPI illuminated folding step(s) shall be installed on the body as directed by the department or required per NFPA. The top of the stepping surface shall have a knurled finish and an LED light that illuminates the stepping surface. An additional light shall be provided on the step mounting bracket to illuminate the area under the step.

Y__N__

Three (3) folding steps shall be installed on the left forward wall of the front compartment. These steps shall be utilized to access the water tank fill tower of the apparatus. The steps shall also be utilized to gain access to the top of the pump compartment structure and any equipment located in the immediate vicinity.

Y__N__

One (1) 10" long x 1 1/4" diameter handrail constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip shall be installed in a location above the forward step(s) and in accordance with the current edition of NFPA 1901 standard requirements. There shall be a 2" minimum clearance between the bracket and the body.

Y__N__

Three (3) folding steps shall be installed on the left rear vertical face of the body.

Y__N__

One (1) 10" long x 1 1/4" diameter handrail constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip shall be installed in a location above the rearward step(s) and in accordance with the current edition of NFPA 1901 standard requirements. There shall be a 2" minimum clearance between the bracket and the body.

Y__N__

INTERMEDIATE REAR STEP

The rear step shall be eight (8) inches in depth and shall span the entire width of the rear center

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compartment area between the body sides. The step shall be constructed of a 7" wide piece of "Diamondback" grip material spaced away from the back of the body 1" to provide an 8" deep stepping surface. The step shall be mounted on the flat back of the apparatus with gusset-type mounting to provide sufficient support for loading and deploying hose and for gaining access to the hose bed area.

The stepping surface shall be constructed of aluminum diamond "Grip Strut" materials to meet the minimum NFPA 1901 standard requirements for slip resistance.

One (1) light(s) shall be installed to illuminate the stepping areas as provided. Each light shall be a On Scene Solutions Night Axe 9" LED with an aluminum mounting bezel. Each light shall be directed towards and positioned above the stepping surfaces.

Y__N__

Y__N__

KNURLED ALUMINUM ILLUMINATED HANDRAILS

All handrails shall be 1 1/4" in diameter, constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip.

There shall be a 2" minimum clearance between the handrail and the body. The light shall illuminate an area adjacent to the handrail and in accordance with the current edition of NFPA 1901 standard requirements.

The following handrails shall be installed at the approximate lengths noted:

Y__N__

Three (3) hand rails installed on the rear of the apparatus. Each hand rail shall provide approximately 42 inches of gripping area for personnel.

Each handrail shall be constructed of extruded aluminum with a knurled grip, full length red reflective strip and full length illuminated LED light strip. There shall be a 2" minimum clearance between the handrail and the body. The light shall illuminate an area adjacent to the handrail and in accordance with the current edition of NFPA 1901 standard requirements.

Two (2) vertical hand rails shall be installed, one on each side, just below the hose bed sides. The remaining hand rail shall be installed horizontally, just below the hose bed area.

Y__N__

REAR TOW EYE

There shall be a rear tow eye installed on the left side frame rail. The location of the tow eye shall be below the rear center compartment.

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The tow eye shall be manufactured of 1" plate steel that is bolted to the chassis frame rail with a minimum quantity of (6) grade 8 bolts. The plate shall be braced to the opposite frame rail to offset forces placed at an angle to the chassis frame.

Y__N__

LOW-VOLTAGE ELECTRICAL SYSTEM

The apparatus shall be equipped with a Logic Controlled, Low-Voltage (12v) Electrical System, compliant with the latest revision of the NFPA 1901 standard guidelines.

The system shall be capable of performing total load management, load management sequencing, and load shedding via continuous monitoring of the low-voltage electrical system. In addition, the system shall be capable of switching loads (similar to operating as an emergency warning lamp flasher) eliminating the dependency on many archaic electrical components such as conventional flasher modules. The system shall also incorporate provisions for future expansion or system modification.

The low-voltage electrical system shall be designed to distribute the placement of electrical system hardware throughout the apparatus thereby enabling a smaller, optimized wire harness. The programmable, logic controlled system shall eliminate redundant electrical hardware such as extra harnesses, circuit boards, relays, circuit breakers, and separate electrical or interlock subsystems and associated electronics for controlling various electrical loads and inputs.

As-built electrical system drawings and an apparatus-specific reference of I/O shall be provided in the final delivery manuals. These drawings shall illustrate the electrical system broken down into separate functions, or small groups of related functions. Drawings shall depict circuit numbers, electrical components and connectors from beginning to end. **A single drawing for all electrical circuits installed by the apparatus manufacturer shall not be accepted.**

Y__N__

NODE

An electrical distribution node or relay shall be installed and located as high as possible on the interior of the most rearward compartments on each side of the apparatus body.

Full depth body compartmentation designs shall have the node mounted to the back wall and run parallel front to back of the apparatus.

Half depth compartment ion designs shall have the node mounted to the back wall and run parallel front to back of the apparatus.

A protective cover shall be installed to prevent damage to the node or electrical system during equipment installation and or removal. Node covers shall be approximately 16 to 22" in length

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and shall match the compartments interior finish. Node covers will not include any type of shelf mounting structure and shall limit the height of uni-strut or shelf height within the compartments.

Y__N__

LED DOT LIGHTING

There shall be seven (7) lights located on the rear of the apparatus. Three (3) of the lights shall be mounted on the rear of the apparatus, for use as identification lamps. Two (2) lights shall be located on the rear, one each side and two (2) lights on the sides facing the side, for use as clearance lamps.

If the apparatus is 30' or longer there shall be two (2) amber intermediate turn signals (steady burn when not blinking) and two (2) amber intermediate marker lights on the sides of the apparatus (one (1) each per side) between the front and rear axles.

The lights shall be Weldon brand 9186-1500 series LED red and amber markers.

Y__N__

LED REAR TAIL LIGHT CLUSTER

There shall be a Whelen LED rear tail light cluster provided and installed in a polished bezel on the rear of the apparatus, one each side. The cluster shall consist of the following specified components:

- 1 - Whelen #60 LED series amber turn signal light populated in the shape of an arrow
- 1 - Whelen #60 LED series red brake light
- 1 - Whelen #60 LED series clear backup light

Y__N__

BACKUP LIGHTS

The backup lights shall illuminate when the apparatus is placed in reverse.

Y__N__

PUMP COMPARTMENT WORK LIGHT

One (1) LED Tube light(s) model #RX-15T16-5050-21CM shall be installed in the pump compartment module to illuminate the piping and plumbing components. The light(s) shall be activated by a weather resistant toggle switch.

Y__N__

LED COMPARTMENT LIGHTING & ELECTRICAL

There shall be a 12 Volt power and ground terminals located in compartments R-1 and L-2 for the department to install 12 volt equipment.

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Two (2) LED Tube lights model #RX-15T16-5050 shall be installed in each body compartment. The tube lights shall be centered vertically along each side of the door framing.

Y__N__

The lights in each compartment shall be on a separate circuit, turning on only those lights that have open compartment doors.

Y__N__

PERIMETER LIGHTS

There shall be six (6) LED underbody perimeter lights provided, one (1) under each chassis cab step, one (1) under each side of the front of the body, and two (2) under the rear step to illuminate the ground around the truck.

Lighting designed to provide illumination under the cab steps shall be of a switch-able design although, activate automatically when the cab doors are opened. All other ground area lighting shall be of the standard switch-able design.

They shall be manufactured by Trucklite and be model # 44308C.

Y__N__

UPPER LIGHTING PACKAGE

The following NFPA lighting package, manufactured by Whelen, shall be supplied and installed in the upper areas of the vehicle.

Y__N__

ZONE A: There shall be a Whelen model FN60QLED 60" Edge Ultra Freedom lightbar provided and installed with the apparatus.

The lightbar shall house two (2) corner red linear LEDs, two (2) front red linear LEDs, two (2) front white linear LEDs and two (2) side red linear LEDs. The outer lenses shall be clear.

Y__N__

ZONE C: There shall be two (2) Whelen beacons with halogen rotators and dual reflectors provided and installed at the rear upper outboard corners of the apparatus.

The left beacon shall be model RB6RP with a red lens and the right beacon shall be model RB6AP with an amber lens.

Y__N__

CAST ALUMINUM LIGHT STANCHIONS

Two light stanchions shall be mounted in the upper rear corners of the body sides, one each side.

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Each shall be large enough to accommodate an upper zone C rotating beacon and a hose bed light if specified. The DOT lights specified elsewhere in the quote shall also be located one on the side and the other located on the rear of each stanchion.

Y__N__

LOWER LED WARNING LIGHTING

The following NFPA lighting package, manufactured by Whelen, shall be supplied and installed in the lower areas of the vehicle.

Y__N__

ZONE A: There shall be two (2) Whelen model 60R02FCR 4"x6" flashing red LED lights with clear lenses and chrome bezels, provided and installed on the front of the apparatus chassis as specified.

Y__N__

ZONES B&D: There shall be six (6) Whelen model 60R02FCR 4"x6" flashing red LED lights with clear lenses and chrome bezels, provided and installed with the apparatus.

Three (3) on each side of the apparatus.

Y__N__

ZONE C: There shall be two (2) Whelen model 60R02FCR 4"x6" flashing red LED lights with clear lenses and chrome bezels, provided and installed on the rear of the body.

Y__N__

HOSE BED SPOT AND FLOOD LIGHTS

There shall be two rear deck lights, one spot and one flood, provided and installed at the rear of the apparatus. The Unity brand lights shall be 6" in diameter and be 50 watts each.

Y__N__

HARRISON HYDRAULIC 8,000 WATT GENERATOR

The generator shall be one (1) Harrison MAS Hydraulic Driven Generator rated at 8,000 watts, 33/66 amps, 120/240 VAC, 60Hz, 1-phase.

Y__N__

UL TESTING 110/220-VOLT & GENERATOR

The apparatus electrical and generator system shall be tested and UL certified.

Y__N__

HARRISON HYDRAULICALLY DRIVEN GENERATOR (MAS)

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The generator shall be designed and assembled by a company with no less than 20 years experience in the manufacture of hydraulic driven generators. The generator components shall be housed in a structural steel frame, which affords protection to the components and provides a unitized mounting module.

The generator shall have top access to the oil filter, oil fill tube and electrical interface box. The hydraulic oil reservoir shall include an oil level sight gauge visible from three sides; an oil temperature gauge; an oil fill cap; an oil filter and an internal venturi boost unit to provide positive pressure to the pump suction port.

The hydraulic oil reservoir shall be shipped attached to the structural steel frame. The hydraulic oil reservoir shall have an option to be remote mounted if required. The generator shall have a cover consisting of NFPA approved diamond tread plate. A meter package that provides the frequency, voltage and amperage of each leg shall be provided.

The generator shall not utilize electronic controls or a multiplex system to control the frequency. The generator shall include a bypass solenoid to remotely turn the generator on/off with a 12 VDC signal. The generator shall be a commercial type with a heavy-duty bearing and of brushless design to ensure low maintenance. No brushes or slip rings shall be allowed.

The generator and motor shall be close coupled and aligned using a Morse taper with a through bolt to secure the motor to the generator. No two (2) bearing generators shall be permitted. The system shall be capable of producing the full nameplate power when driven from the vehicle PTO from idle to maximum engine speed. The generator shall be able to be used while vehicle is either stationary or in motion. The generator shall provide an option for a self-sealing air intake to prevent re circulation of exhaust air.

The generator shall provide an option for a vertical exhaust fan in addition to the air intake fan. Single fan systems shall not be allowed.

The generator shall provide a dedicated air intake duct for the alternator and a dedicated air intake duct for the heat exchanger. Both air intake ducts shall be located on the same side of the generator. The hydraulic motor and pump shall be of axial piston design to provide low internal leakage and a high degree of frequency stability. Gear motors shall not be allowed. The hydraulic pump shall match the system with the proper orifice, pressure compensator, and load sense settings to provide stable output regardless of engine rpm or electrical load demands. Use of electronics to control the flow shall not be allowed.

The system shall be capable of normal operations using a commonly available premium hydraulic oil; Mobile DTE series or equivalent. All fluid service points shall be in close proximity to the reservoir for ease of scheduled maintenance.

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When properly installed, the system shall be warranted for a period of not less than two (2) years or 2000 hours, whichever should come first.

The generator shall be tested at the full nameplate rated load prior to shipping and the test report shall be included. The test report will document the generator's performance at various loads from no load to full load to ensure reliable power delivery at those loads.

Y__N__

HOT SHIFT PTO

A 'hot' shift shall be added to the hydraulic generator installation.

The PTO shall remain 'engaged' to keep fluid circulating through the system. A guarded switch shall be located on the cab dash or other operator accessible area in the cab. The switch shall be used to disconnect the PTO from the transmission in the event of hydraulic failure (broken hose, etc) during operation.

The switch shall be labeled "GENERATOR EMERGENCY STOP".

A second switch with an indicator light shall be provided to excite the generator. The switch shall be labeled "GENERATOR EXCITE".

Y__N__

The generator excite application shall be activated by a rocker switch located on the cab dash or other operator accessible area in the cab.

Y__N__

LOCATION

The unit shall be located in the hose bed area near the front of the apparatus above the water tank.

Y__N__

GENERATOR DISPLAY

A FROG (Frequency Regulation of Generator) generator display kit shall be installed to monitor a 50/60 Hz, generator.

The kit shall include:

- (1) Display module.
- (1) Voltage transformer.
- (2) Current transformers and cables.

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The display module shall consolidate five (5) generator monitoring instruments into one device. The display case shall be waterproof and have dimensions not to exceed 4 1/4" high by 4 1/4" wide by 3 1/4" deep.

The following continuous displays shall be provided with super bright LED digits more than 1/2" high:

- Generator frequency in hertz
- Line 1 current in ampere
- Line 2 current in amperes
- Generator voltage in volts

The program shall support the accumulation of elapsed generator hours and the monitoring of hydraulic oil temperature. Generator hours and oil temperature shall be displayed at the push of a button. Audible warning alarm outputs are provided for generator overload, over/under voltage fluctuations, and high oil temperature.

Y__N__

GENERATOR DISPLAY LOCATION

The display shall be installed flush mounted on a custom fabricated angled mounting bracket, installed in the L-1 compartment.

Y__N__

LOAD CENTER

There shall be an electrical load center furnished and installed in a protected environment. The load center shall have provisions for eight (8) 20 amp manual reset type circuit breakers.

Y__N__

The load center shall be surface mounted to the upper -outward facing- back wall of the L1 compartment. The box shall be located as far forward to the bulkhead wall of the L1 compartment as possible.

Y__N__

GENERATOR POWERED OUTLETS

The following specified outlets shall be provided and installed on the apparatus; and be live when the generator is in operation:

Y__N__

Two (2) NEMA L5-20 120V/20A single receptacle with weather resistant cover shall be located as specified below:

Y__N__

- One (1) in the wheel well area on the driver's side of the apparatus.

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- One (1) in the wheel well area on the passenger's side of the apparatus.

Y__N__

TELESCOPING LIGHTS

There shall be two (2) Fire Research Focus side mounted, top raise telescoping scene light(s) installed on the apparatus as specified below. The light pole(s) shall have a friction type lock to hold the pole in the extended position. The light(s) shall be 240 volt 1500 watt. The light(s) shall be model FCA542-M15.

Y__N__

The scene light(s) shall have a switch on the lighthouse.

Y__N__

A brushed stainless steel protector shall be installed behind each light head to protect the surface behind the light(s) from being scratched.

Y__N__

Two (2) light(s) shall be mounted on the rear face of the apparatus body.

Y__N__

Y__N__

ELECTRIC REWIND CORD REEL

Y__N__

One (1) Hannay model #ECR-1616-17-18 series electric rewind cord reel(s) shall be installed on the apparatus as specified.

There shall be a four way roller assembly provided and installed to guide the cord on and off of the spool to prevent chafing on the body or opening. There shall also be a cord stop supplied. The reel shall come equipped with 150 feet of yellow 10-3 electrical cord.

A weather resistant push button switch to activate the rewind shall be located next to the reel. The switch shall be labeled "CORD REEL".

Y__N__

The cord shall be hardwired to a Circle D remote power distribution box with (4) four NEMA L5-15 single receptacles. The distribution box shall be stored in a mounting bracket when not in use. The box shall be equipped with a light to indicate when distribution box is energized.

The distribution box shall be equipped with the following receptacles:

Position 1: NEMA L5-15 R

Position 2: NEMA L5-15 R

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Position 3: NEMA L5-15 R

Position 4: NEMA L5-15 R

Y__N__

One (1)B-1 Rear center compartment.

Y__N__

REFLECTIVE STRIPING

There shall be a 4" inch reflective stripe applied to the chassis and apparatus body as specified:

Y__N__

The reflective striping shall be applied around the perimeter of the apparatus in a straight line pattern.

Y__N__

The reflective striping shall be white in color.

Y__N__

REAR RETRO-REFLECTIVE CHEVRON STRIPING

A minimum of 50 percent of the rear-facing vertical surface, visible from the rear of the apparatus, shall be equipped with Diamond Grade, retro-reflective striping in a chevron pattern, sloping downward and away from the centerline of the vehicle at an angle of 45 degrees. The stripe shall be 6" wide alternating in colors in compliance with the current edition of NFPA 1901.

Y__N__

The retro-reflective chevron striping shall be red and fluorescent yellow-green in color.

DOOR LETTERING

The lettering shall be gold leaf adhesive Scotchcal with black shadowing and edging. Lettering shall be applied as directed by the fire department with a maximum of 60 letters up to 3" in height.

Y__N__

Y__N__

LICENSE PLATE MOUNTING

A Cast Products, model LP0004-1-A, cast aluminum fully enclosed license plate bracket shall be installed. The bracket shall incorporate proper lighting (Incandescent Truck-Lite) provisions to illuminate the license plate to meet DOT requirements.

Y__N__

Y__N__

BELOIT FIRE DEPARTMENT

MISCELLANEOUS EQUIPMENT

The following equipment list shall be provided with the completed apparatus.

- 1 ea. Task Force Tips Crossfire monitor w/ (2) 2 1/2" inlets ground base, truck mount adapter, 1250 GPM Masterstream nozzle and storage bracket.
- 1 ea. Task Force Tips Ball Intake Valve--AB1ST-NX--6 Inch female X 5 inch storz
- 3 ea. Task Force Tips Midmatic nozzle--HM-VPGI 1 3/4" nozzle
- 1 ea. Task Force Tips Handline nozzle--H-2VPGI 2 1/2" nozzle
- 2 ea. Task Force Tips DQS40P 1 inch nozzle
- 1 ea. 1" X 10' Jump Line
- 2 ea. Hydrant/ (2) spanner wrenches with mounting holder
- 4 ea. 5 inch X 100 feet rubber supply hose with Storz couplings
- 16 ea. 3 inch X 50 feet double jacket, rubber lined fire hose
- 23 ea. 1 3/4 inch X 50 feet double jacket, rubber lined attack hose
- 8 ea. SCBA brackets furnished and installed in the left side upper compartments.

Y__N__

ZICO WHEEL CHOCKS

One (1) set(s) of NFPA compliant Ziamatic folding wheel chocks model # SAC-44-E shall be supplied with the apparatus.

Y__N__

FLARES

All NFPA required flares will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

Y__N__

TRAFFIC CONES

All NFPA required traffic cones will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

Y__N__

TRAFFIC VEST

All NFPA required traffic vest will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

Y__N__

GROUND LADDERS

BELOIT FIRE DEPARTMENT

One (1) Duo-Safety 35' three (3) section aluminum extension ladder(s), model 1225A

Y__N__

All NFPA required ladders will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

One (1) Duo-Safety 10' aluminum attic ladder(s), model 585A

Y__N__

PIKE POLES

All NFPA required pike poles will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

Y__N__

SALVAGE COVERS

All NFPA required salvage covers will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

Y__N__

EXTINGUISHERS

All NFPA required fire extinguisher will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

Y__N__

RECHARGEABLE FLASHLIGHTS

A hand held Streamlight LiteBox rechargeable lantern, model #45107 (8WS) with shoulder strap and charge rack shall be installed on the apparatus by the body builder.

Y__N__

There shall be a total quantity of seven (7).

Y__N__

A total of six (6) light(s) shall be mounted on the left front upper compartment rear wall on a treadbrite plate.

Y__N__

A total of one (1) light(s) shall be mounted in the right front upper compartment.

BELOIT FIRE DEPARTMENT

AED (AUTOMATIC EXTERNAL DEFIBRILLATOR)

Y__N__

All NFPA required AED will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

FIRST AID KIT

Y__N__

All NFPA required First Aid Kit will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

AXES

Y__N__

All NFPA required Axes will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

WRENCH SETS

Y__N__

All NFPA required spanner and hydrant wrenches will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

NOZZLES

Y__N__

All NFPA required nozzles will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

CROW BAR

Y__N__

All NFPA required crowbars will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

RUBBER MALLET

Y__N__

All NFPA required rubber mallets will be supplied and installed by the Customer before the truck is placed into service.

BELOIT FIRE DEPARTMENT

STRAINERS

Y__N__

All NFPA required strainers (hard suction) will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

SUPPLY HOSE

Y__N__

All NFPA required fire hose will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

ADAPTORS

Y__N__

All NFPA required Adaptors will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

SCBA & CYLINDERS (air packs)

Y__N__

All NFPA required SCBA and Cylinders will be supplied and installed by the Customer before the truck is placed into service.

Y__N__

ITEMS FOR COUNCIL DISCUSSION

DATE:

June 2, 2015

TITLE:

WORK SESSION DISCUSSION

DISCUSSION:

Items for discussion at your June 2, 2015 Work Session will include the following:

1. Lease Agreement – North Campus Education Building. Enclosed is a first draft of a new agreement with USD 273 for the education building on the North Campus.
2. Comprehensive Plan. The planning commission has recommended on a 4 to 1 vote that the city council adopt the comprehensive plan as presented. Enclosed is a memo from the city attorney that outlines the options for the council moving forward. Staff will give a short presentation on planning at this meeting, our planning consultants should attend, and members of the planning commission will also attend to answer questions about the plan. Also, included in the meeting packet are questions submitted from a member of the three mile group and answers provided by city staff.

Respectfully submitted,

Glenn Rodden
City Administrator

LEASE AGREEMENT – NORTH CAMPUS EDUCATION BUILDING

THIS LEASE AGREEMENT made and entered into as of the ____ day of June, 2015, by The City of Beloit, hereinafter referred to as “Lessor” and Unified School District No. 273 Board of Education, hereinafter referred to as “Lessee”.

WITNESSETH, that Lessor, in consideration of the covenants and agreements of Lessee hereinafter set forth, does let and lease to Lessee, the following described property (hereinafter “Property”), to-wit:

Education Building on the North Campus, formerly known as North Beloit High School, on the grounds of the former Beloit Juvenile Correctional Facility, together with surrounding grounds including but not limited to: parking areas and lawn areas adjacent to the building

Street Address: 1714 N. Hersey Ave., Beloit, Kansas

WHEREAS, the parties agree as follows:

1. TERM

Lessee shall have and hold the Property for a term to begin on the 1st day of July, 2015 and lease term to end on the 30th day of June, 2020. This Lease shall be automatically renewed for additional one (1) year terms unless and until either party desires to terminate the Lease by giving written notice to the other party at least six (6) months prior to any extended term thereof.

2. RENT

There shall be no rent for the Property.

3. USE OF PREMISES AND RENOVATIONS

Lessee, at its expense, shall have the full and unrestricted use, including the ability to add to or improve the facilities of the Property, and to remodel, decorate or paint the interior of the building on the Property for the term of this Lease or any renewal thereof for the following

purposes:

- a. Office space for the Beloit Special Education Cooperative;
- b. Education and classroom space for the Cooperative's Alternative Learning Center; and
- c. Use of the adjacent parking lot and driveway for staff, visitors, and drop-off and pick-up of students.

If Lessee, at its own expense, adds to, expands or improves the facilities of the Property, any structural, mechanical, electrical or plumbing improvements shall become part of the Property and shall remain with the Property following the expiration of the term of the Lease. Such improvements shall not give Lessee an ownership interest in the Property and shall not entitle the Lessee to any rights of ownership. Lessee shall obtain the written consent of the Lessor prior to making any expansion, changes, or improvements to the Property, notwithstanding minor repairs, painting, or decorating that may be done by the Lessee from time to time.

Lessee agrees to maintain the Property in accordance with all Kansas State Department of Education guidelines.

4. BUILDING MAINTENANCE

Lessor shall maintain the heating and air system, plumbing system, electrical system, roof, exterior, exterior walls, windows, guttering, downspouts, and structural portions of the Property. Lessor shall also provide grounds maintenance and snow removal. Lessee shall maintain the interior of the Property in good condition during the term of the Lease, including minor repairs to fixtures, basic custodial services and supplies, and pest control.

5. INSURANCE

Lessor shall maintain property insurance on the Property. Lessee shall maintain insurance on the contents of the Property and public liability insurance.

6. UTILITIES AND PROPERTY TAXES

Lessor shall be responsible for payment of the following utilities: electricity, gas, water, waste water, and trash removal. Lessee shall be responsible for any telephone, cable, and security system expense. In exchange for the payment of utilities, Lessee agrees to pay Lessor the sum of Thirty-Five Thousand and No/Dollars (\$35,000.00) per year. Payments of \$17,500.00 shall be paid on or before July 1st and January 1st during each year of the term of this lease with the first year's payments due July 1, 2015 and January 1, 2016.

7. SUBLETTING AND CHANGING PROVISIONS OF LEASE

Lessee shall not have the right to sublet any or all of the Property without the consent of the Lessor. The parties agree the provisions of this Lease may be changed from time to time by written mutual agreement.

8. HOLD HARMLESS

Lessee covenants and agrees to hold the Lessor harmless through insurance or otherwise for any injury, loss or damage to any person or property on said Property due directly or indirectly to its use or occupancy of the aforesaid Property or any part thereof.

9. MISCELLANEOUS PROVISIONS

- a. It is expressly agreed that if the Property shall be damaged by fire or other unavoidable casualty so that it is rendered unfit for use and occupancy, then at the election of the Lessor or the Lessee the leasehold rights hereby created shall

thereby be terminated.

- b. The Lessee further agrees with the Lessor at the expiration of this Lease to give peaceable possession of the Property to the Lessor in as good condition as they are now except for the usual wear, unavoidable accidents and loss by fire or other casualty.
- c. It is further agreed if default shall be made by the Lessee of any of the covenants herein contained, it shall be lawful for the Lessor to re-enter into and repossess the Property without notice or demand, and the Lessee and each and every other occupant to remove and put out; that the Lessee will yield and deliver up the Property in like condition as in taken, reasonable use and wear thereof and damage by the elements expected.
- d. All plumbing, heating, electrical equipment shall remain therein at the termination of this Lease, this applying to the building proper and not referring to any special connections or fittings installed in connection with or as part of the equipment owned by the Lessee. Lessee agrees to repair any damage done to the Property caused by the removal of any such special connections or fittings.
- e. The Lessee covenants with Lessor that it will consent that the building shall not be overloaded or damaged or that any trade or occupation shall be carried on upon Property or any use made thereof which shall be unlawful or contrary to any state or federal law or any city ordinance or regulation; and that no act or things shall be permitted upon the Property which shall make void or voidable any insurance on the Property of the building against fire or other casualty.

- f. The Lessee further agrees to cooperate with the Lessor in maintaining favorable fire insurance rating conditions during the full term of this Lease.
- g. It is understood and agreed that all property in the building on the Property shall be at the risk of the Lessee only, and that the Lessor shall not be liable for any damage to Lessee's property however occurring.

10. REMOVAL OF PERSONAL PROPERTY

All personal property placed, installed or constructed upon the Property by Lessee during occupancy, which may be removed at any time by Lessee at the end of the term without substantial damage to the Property, shall be and remains the sole property of Lessee and may be removed. If substantial damage would occur, Lessee may elect to remove the property and restore the Property.

11. AGREEMENT WITH KANSAS LAW

This Lease Agreement shall be subject to, governed by, and construed according to the laws of the State of Kansas.

12. BINDING EFFECT

The terms and conditions of this Lease shall be binding upon the parties, their heirs, agents, administrators, executors or legal successors.

13. LIABILITY FOR DAMAGES

Notwithstanding any language to the contrary, neither party shall be responsible for any damages caused by the public nor its employees of their respective area, except as provided in the Kansas Tort Claims Act, K.S.A. 75-6101 *et seq.*, as amended.

IN WITNESS WHEREOF, this Lease Agreement is executed the day and year first above written, and by signing the Lease Agreement, the parties certify that the agreement is being entered

into within the authority of law, with their approval and they are authorized to do so.

LESSOR:

THE CITY OF BELOIT, KANSAS

By _____
Tom Naasz, Mayor

ATTEST:

Amanda Lomax, City Clerk

LESSEE:

UNIFIED SCHOOL DISTRICT NO. 273
BOARD OF EDUCATION

By _____
Jason Johnson, President

ATTEST:

Doris Gasper, Clerk of the Board

Lease

This Lease made and entered into this 1st day of December, 2010 by and between The City of Beloit, hereinafter referred to as Landlord, and USD 273/Beloit Special Education Cooperative, hereinafter referred to as Tenant.

The Landlord, in consideration of the covenants and agreements of the Lease hereinafter set forth, does by these presents grant, lease and let to the Tenant the following described premises situated in Mitchell County, Kansas, to-wit:

The Educational Building, formerly known as North Beloit High School, on the grounds of the former Beloit Juvenile Correctional Facility, as well as the surrounding grounds presently delineated for use of Tenant, to have and to hold the same unto Tenant from and after the 1st day of January, 2011 to June 30, 2012 unless sooner terminated by one hundred eighty (180) days written notice given by either party prior to the expiration of the primary term.

The Tenant in consideration of the use of said premises covenants and agrees with the Landlord to pay \$2,583.33 per month. This annual payment of \$31,000 would be paid in to installments of \$15,500 payable January 1, 2011 for January through June 30; \$15,500 July 1 for July 1, 2011 through December 31, 2011; and \$15,500 for January 1, 2012 through June 30, 2012.

Tenant may add to or improve the facilities of the property and may decorate or paint the premises on the interior. The tenant may use parking lots and the drive for "drop-off" and "pick-up" of students. The tenant will maintain the building as per KSDE guidelines. Other changes of such character may be made during the term of this Lease with the written consent of the Landlord.

It is mutually understood and agreed that the Landlord will make any necessary improvements to plumbing, heating, electrical equipment of the building. All plumbing, heating, electrical equipment shall remain therein at the termination of this Lease, this applying to the

building proper and not referring to any special connections or fittings installed in connection with or as part of the equipment owned by the Tenant. Tenant agrees to repair any damage done to the premises caused by the removal of any such special connections or fittings.

It is further agreed and understood that the Landlord shall maintain the roof, exterior walls, downspouts and structural parts of the building herein described. The Tenant shall maintain the interior of the building, including basic custodial services and supplies, in good condition. The Tenant may redecorate during the full term of this Lease.

The Landlord shall be liable for all heat, light, water and gas used in the premises by Tenant. The Landlord will be responsible for snow removal and grounds upkeep.

The Landlord shall pay all real estate taxes assessed against the property.

The Tenant further covenants with Landlord that it will consent that the building shall not be overloaded or damaged or that any trade or occupation shall be carried on upon the premises or any use made thereof which shall be unlawful or contrary to any state or federal law or any city ordinance or regulation; and that no act or thing shall be permitted upon the premises which shall make void or voidable any insurance on the premises of the building against fire or other casualty.

The Tenant further agrees to cooperate with the Landlord in maintaining favorable fire insurance rating conditions during the full term of this Lease.

It is understood and agreed that all property in the described premises shall be at the risk of the Tenant only, and that the Landlord shall not be liable for any damage to property however occurring.

Tenant covenants and agrees to hold the Landlord harmless through insurance or otherwise for any injury, loss or damage to any person or property on said premises due directly or indirectly to its use or occupancy of the aforesaid premises or any part thereof.

Tenant further covenants with Landlord that it will not assign this Lease or the right to occupy any portion of the leased premises without the prior written consent of the Landlord. In any event, a sub-letting shall in no way affect the Tenant's responsibility for the performance of any other obligation contained in this Lease.

It is expressly agreed that if the buildings on the premises shall be damaged by fire or other unavoidable casualty so that it is rendered unfit for use and occupancy, then at the election of the Landlord or the Tenant the leasehold rights hereby created shall thereby be terminated.

The Tenant further agrees with the Landlord at the expiration of this Lease to give peaceable possession of the premises to the Landlord in as good condition as they are now except for the usual wear, unavoidable accidents and loss by fire or other casualty.

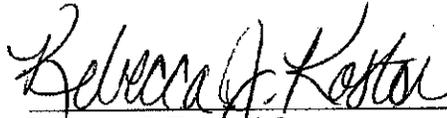
It is further agreed if default shall be made by the Tenant of any of the covenants herein contained, it shall be lawful for the Landlord to re-enter into and repossess the premises without notice or demand, and the Tenant and each and every other occupant to remove and put out; that the Tenant will yield and deliver up the premises in like condition as in taken, reasonable use and wear thereof and damage by the elements expected.

Tenant is hereby given an option to renew this Lease for an additional term of one (1) year at the expiration of this Lease upon the same terms and conditions provided in this Lease. If Tenant exercises this option, it shall do so by giving the Landlord written notice one hundred eighty (180) days prior to the term of this Lease.

The terms and conditions of this Lease shall be binding upon the administrators, executors and assigns of the parties hereto.

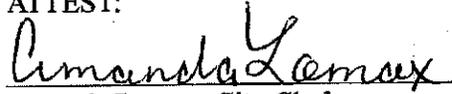
IN WITNESS WHEREOF, the parties hereto have set their hands the day and date first above written.

Executed on: _____

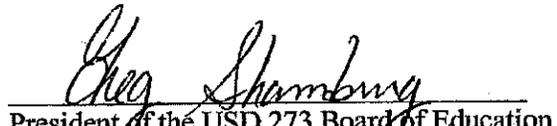


Rebecca J. Kosjer, Mayor

ATTEST:



Amanda Lomax, City Clerk



President of the USD 273 Board of Education



Clerk of the USD 273 Board of Education

QUESTIONS FROM THE THREE (3) MILE GROUP

1. **How many city officials do the citizens of three mile get to vote for?**

Answer: None, unless property owners within the 3-mile ETJ are also residents of the City of Beloit.

2. **Justify to the citizens of the three mile why the City of Beloit needs to zone and control our development rights.**

Answer: State statute (12-715b) authorizes cities to adopt zoning regulations affecting all or any designated portion of the land located outside the city but within three miles. As part of a long range, comprehensive plan for the growth and expansion of the city, zoning within the 3-mile ETJ allows the city to prevent or restrict heavy industrial and commercial activities from being established where land is believed to be best for residential development, thus avoiding some land use conflicts.

3. **What governmental regulations does KSA 12-715b protect farmers from?**

Answer: KSA 12-715b is enabling language permitting adoption of zoning regulations within 3 miles of the city limits of a municipality. Zoning regulations, and other nuisance abatement codes for that matter, were created in response to citizens' demand of local governments to prevent some undesirable uses of land adjacent to theirs. While reluctant, officials finally gave in to the insistence of residents who argued that their property values and lifestyle were being diminished by the undesirable or harmful property uses of their neighbors.

Chapter 2, Agriculture, Article 32: Protection Of Farmland And Agricultural Activities, is designed to protect farmers and farming activities. Zoning would prevent most, if not all, nonagricultural activities from encroaching into traditional agricultural areas.

4. **Can the city's problem with utilities be solved on a case by case action that will not affect 3 mile?**

Answer: The city's issue with the provision of utilities to residents is not relevant to the 3-mile ETJ discussion.

5. Would the citizens of Beloit like their property controlled by an outside entity?

Answer: The citizens of Beloit, like citizens everywhere, are governed by laws and regulations imposed on them by local, state and federal legislative bodies and the many regulatory agencies of those bodies.

6. Is there an urban sprawl problem within the 3 mile area of Beloit?

Answer: No. However, residential homes are currently being planned for and constructed outside of and adjacent to the city limits. To that extent, the city is planning to provide for those residents by attempting to prevent future land use conflicts.

7. Who is going to be the contact person for Beloit?

Answer: Zoning Administrator Chris Jones

8. Will the land owners within 3 mile get to decide best use for their property or will it be government?

Answer: In most cases, the property owner would decide what is best for his/her property. When agricultural land is to be used for purposes other than agricultural, zoning regulations could apply.

9. If three mile area is zoned what development will need a special use permit?

Answer: As answered in question 8 above, non-agricultural land uses could be restricted or denied within the 3 mile planning jurisdiction. Typically, most commercial uses could be permitted in some locations such as along a highway or roadway corridor. Other commercial uses may be restricted in some ways based on certain use conditions approved by the Planning Commission. Factory or industrial uses typically would not be permitted within the 3-mile ETJ except under some circumstances.

10. Will building uses, such as shop work, welding, vehicle repair, etc., need a special use permit?

Answer: Probably not. Any building being used in conjunction with bone fide farming uses would be permitted without restriction.

11. How do the citizens of the three mile area hold the elected officials of the City of Beloit accountable?

Answer: Citizens of the 3-mile ETJ have two residents on the city Planning Commission, appointed by the Mayor and approved by the City Council who represent them on zoning decisions impacting those within the 3 mile ETJ.

12. Can you tell me how the new Comprehensive Land use plan is going to help the City of Beloit grow and prosper?

Answer: 1) As folks buy land and establish homes outside the city limits of Beloit and within the 3-mile ETJ, they can expect that land uses that may not be compatible with residential dwelling neighborhoods, such as heavy commercial, factory or industrial, will have been mitigated before they move out there. 2) Uses normally considered to be incompatible with residential neighborhoods would not be permitted to be established in proximity to the city limits in an effort to avoid land use compatibility conflicts.

13. Will the elected body of Beloit stand behind their oath of office to protect the constitution and the property rights of all of the citizens of Beloit and the three mile area?

Answer: The Governing Body is made up of regular citizens of this community. They are committed to making decisions that are in the best interest of all residents, whether inside the city limits or out. They have and continue to preserve the integrity of the rule of law, the Constitution of the State of Kansas and the US Constitution in the decisions they make at every meeting. Again, zoning regulations were developed to protect property rights and the Governing Body of the City of Beloit will see that they are enforced firmly, fairly and consistently.



Chapter 12: Cities And Municipalities

Article 7: Planning And Zoning

Statute 12-715b: Zoning of land outside city limits; conditions and limitations; notice to county commissioners. Cities are hereby authorized to adopt zoning regulations affecting all or any designated portion of the land located outside the city but within three miles thereof under the following conditions. Except for flood plain regulations in areas designated as a flood plain, nothing in this act shall be construed as authorizing any city to adopt regulations applying to or affecting any land in excess of three acres under one ownership which is used only for agricultural purposes:

(a) The city has established a planning commission under the provisions of K.S.A. 12-702, and amendments thereto, which provides for the appointment of two commission members who reside outside the city but within the area subject to the zoning regulations of the city, or the city has established a joint, metropolitan or regional planning commission in cooperation with the county in which such city is located pursuant to the provisions of K.S.A. 12-718, and amendments thereto.

(b) The land outside the city which is subject to the zoning regulations of the city has been included within a comprehensive plan recommended by either of such planning commissions and has been approved by the city governing body or the board of county commissioners.

(c) The county has specifically excluded the land from county zoning regulations or the county does not have in effect zoning regulations for such area adopted in conformity with the statutes prescribing procedure for the adoption of county zoning regulations.

(d) The city has notified the board of county commissioners in writing 60 days before initiating zoning regulations by ordinance for such area of its intention to adopt such regulations by ordinance.

Chapter 2: Agriculture

Article 32: Protection Of Farmland And Agricultural Activities

Statutes:

- [2-3201: Protection of farmland and agricultural activities; purpose.](#)
- [2-3202: Certain agricultural activities not a nuisance.](#)
- [2-3203: Definitions.](#)
- [2-3204: Action for injunction alleging misuse of chemicals; when attorney fees and expenses assessed.](#)

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- **2-3201: Protection of farmland and agricultural activities; purpose.** It is the declared policy of this state to conserve and protect and encourage the development and improvement of farmland for the production of food and other agricultural products. The legislature finds that agricultural activities conducted on farmland in areas in which nonagricultural uses have moved into agricultural areas are often subjected to nuisance lawsuits, and that such suits encourage and even force the premature removal of the lands from agricultural uses. It is therefore the purpose of this act to provide agricultural activities conducted on farmland protection from nuisance lawsuits.

History: L. 1982, ch. 3, § 1; July 1.

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- **2-3202: Certain agricultural activities not a nuisance.** Agricultural activities conducted on farmland, if consistent with good agricultural practices and established prior to surrounding nonagricultural activities, are presumed to be reasonable and do not constitute a nuisance, public or private, unless the activity has a substantial adverse effect on the public health and safety.

If such agricultural activity is undertaken in conformity with federal, state, and local laws and regulations, it is presumed to be good agricultural practice and not adversely affecting the public health and safety.

History: L. 1982, ch. 3, § 2; July 1.

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- **2-3203: Definitions.** As used in this act:

(a) "Agricultural activity" means the growing or raising of horticultural and agricultural crops, hay, poultry and livestock, and livestock, poultry and dairy products for commercial purposes.

(b) "Farmland" means land devoted primarily to an agricultural activity.

(c) "Person" means any individual, partnership, profit or nonprofit corporation, trust, organization or any other business entity, but does not include any governmental entity.

(d) "Agricultural chemical" means those agricultural chemicals as defined in the agricultural chemical act set forth in [K.S.A. 2-2201](#) et seq., and amendments thereto.

History: L. 1982, ch. 3, § 3; L. 1988, ch. 11, § 2; July 1.

- **2-3204: Action for injunction alleging misuse of chemicals; when attorney fees and expenses assessed.** In any case in which an action for injunction is brought alleging the prior misuse of agricultural chemicals and the court finds that the defendant properly used the agricultural chemicals according to state and federal law and the label instructions and that the plaintiff sustained no damages from the use of such agricultural chemicals, the court may assess against the plaintiff reasonable attorney fees and expenses incurred by the defendant as a result of such action. In addition, the court may assess against the plaintiff additional losses and costs incurred by the defendant upon proof that such losses and costs were the result of an injunction granted as part of such action. Any assessment under this section shall be reduced (but not below zero) by an amount equal to the amount of any bond forfeited to the defendant under article 9 of chapter 60 of the Kansas Statutes Annotated. An assessment under this section shall be collected as costs in the action. This section shall be part of and supplemental to the provisions of article 32 of chapter 2 of the Kansas Statutes Annotated and acts amendatory of the provisions thereof or supplemental thereto.

History: L. 1988, ch. 11, § 1; July 1.

1. How many city officials do the citizens of three mile get to vote for?
2. I testify to the citizens of three mile why the city of BELoit needs to zone and control our development rights?
3. What governmental regulations does K&A 12-715.B PROTECT farmers from?
4. Can the Cities problem with utilities be solved on a case by case basis, that will not effect 3 mile?
5. Would the citizens of Beloit like their property controlled by an outside entity?
6. Is there an urban sprawl problem within the 3 mile area of Beloit?
7. Who is going to be the contact person for Beloit. if we have more questions?
8. Will the land owners within 3 mile get to decide best use for their property, or will it be government?

9. If a three mile area is zoned what DEVELOPMENT will need a special use permit?
10. Will building uses need a special use permit?
SHOP WORK, Welding, VEHICLE REPAIR ECT.?
11. How do the citizens of the three mile area hold the elected officials of the City of BELoit accountable?
12. Can you tell me how the new comprehensive Land use plan is going help the City of BELoit ~~grow~~ grow and prosper?
13. Will the elected body of Beloit stand behind their oath of office to protect the Constitution and the property rights of all of the citizens of BELoit and the three mile area?

Please answer questions in written or typed form.
Thank you for your time with this matter.

Sincerely

Carl Ebert

