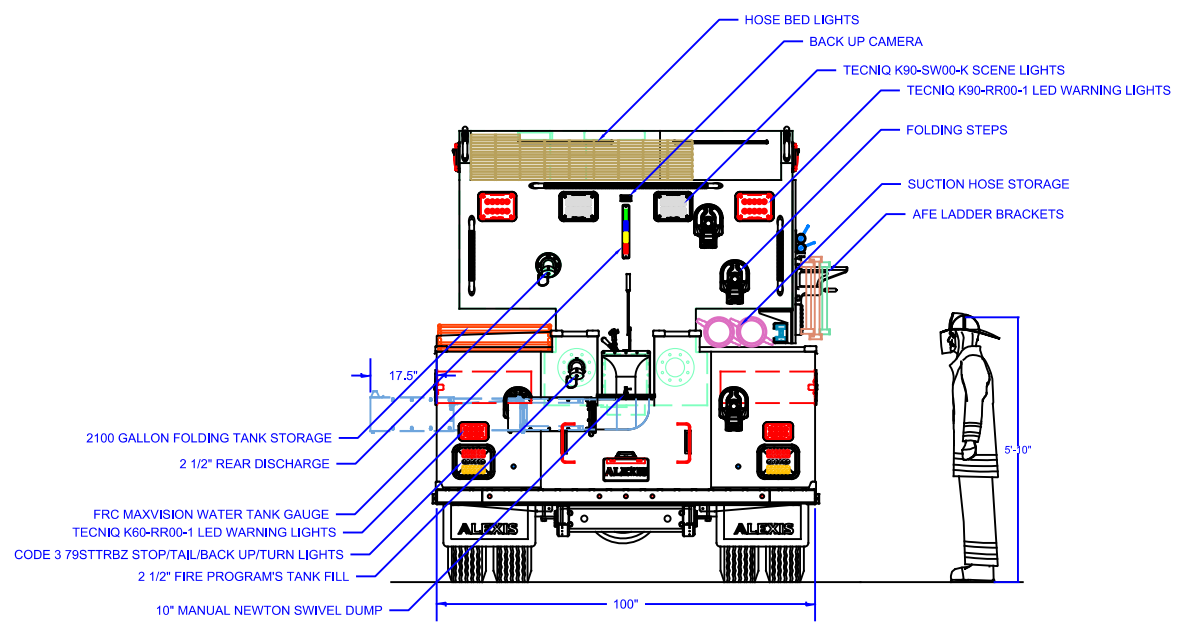
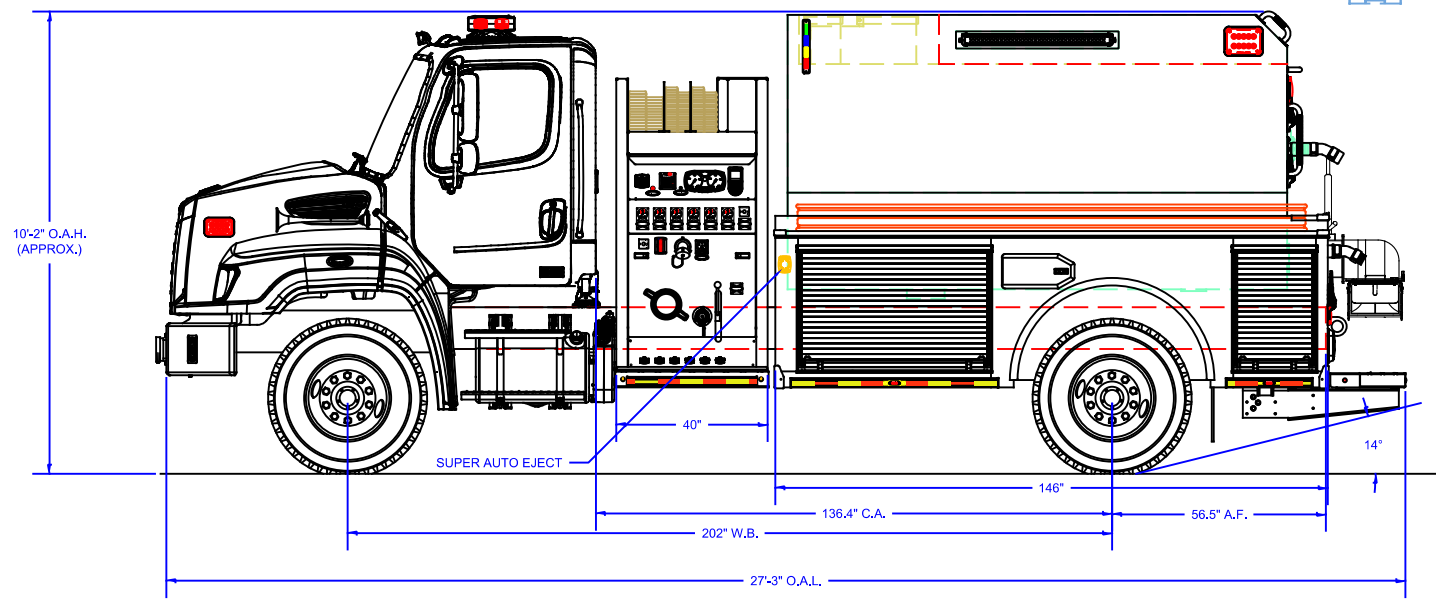
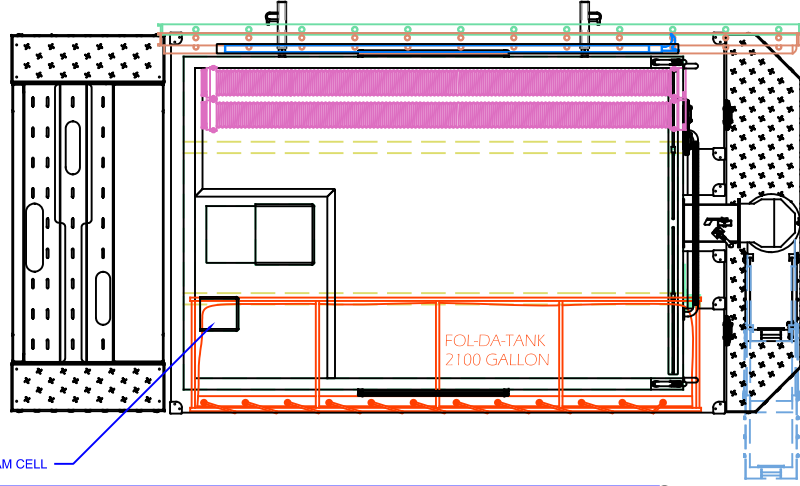
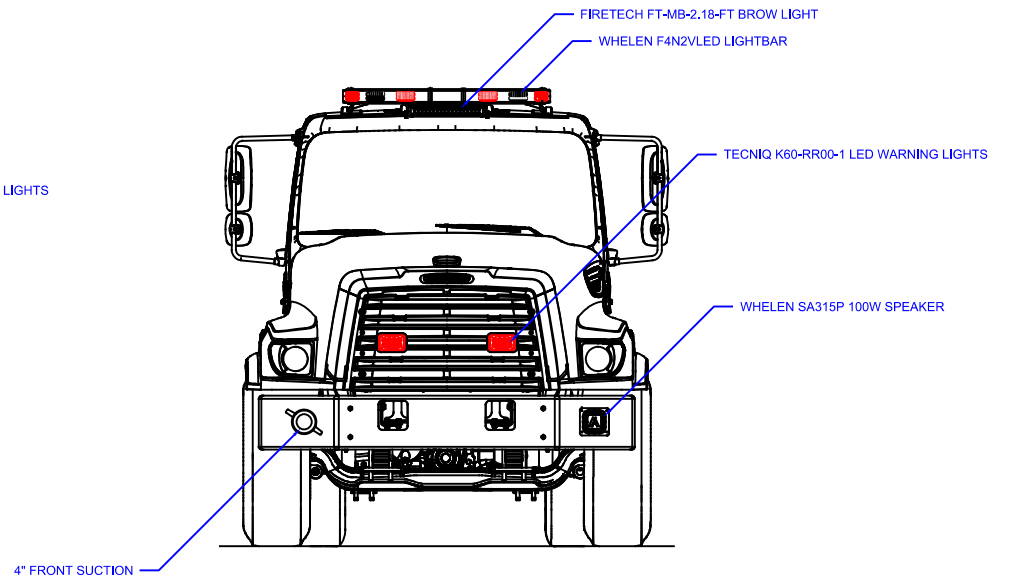
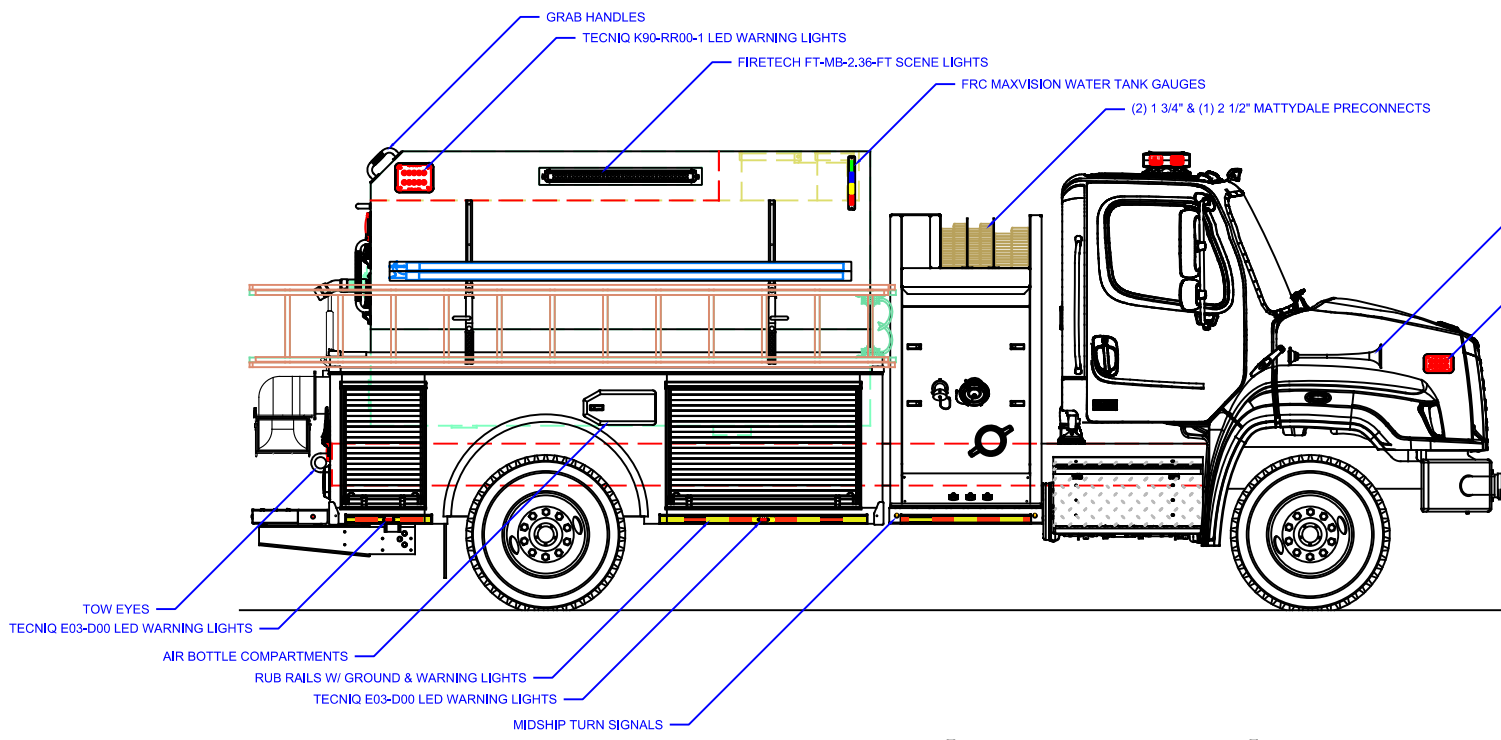


CUSTOMER APPROVAL SIGNATURE:

DATE:

AFE-2632

IN THE EVENT THERE ARE DISCREPANCIES BETWEEN THE DRAWING AND THE SPECIFICATIONS, THE SPECIFICATIONS SHALL PREVAIL.



REVISION HISTORY			
REV	DESCRIPTION	DATE	DWN

Pump Info:	Apparatus Type: Tanker
Control Location: Side	Chassis: FREIGHTLINER 114SD 2-DR
Pump Drive: Split Shaft	Tank Capacity: 2000
Pump Make: Waterous	Material: Stainless Steel
Pump Model: CXVC20	
Pump GPM: 1500	

COMPARTMENT DIMENSIONS	
COMP #	DOOR OPENING SIZES
L1 & R1	49" WIDE X 27" HIGH X 25" DEEP
L2 & R2	19" WIDE X 27" HIGH X 25" DEEP

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE NOT CUMULATIVE
 DECIMAL ±0.062 ANGULAR ±0.5° FRACTIONAL ±1/16 METRIC ±1.6 mm

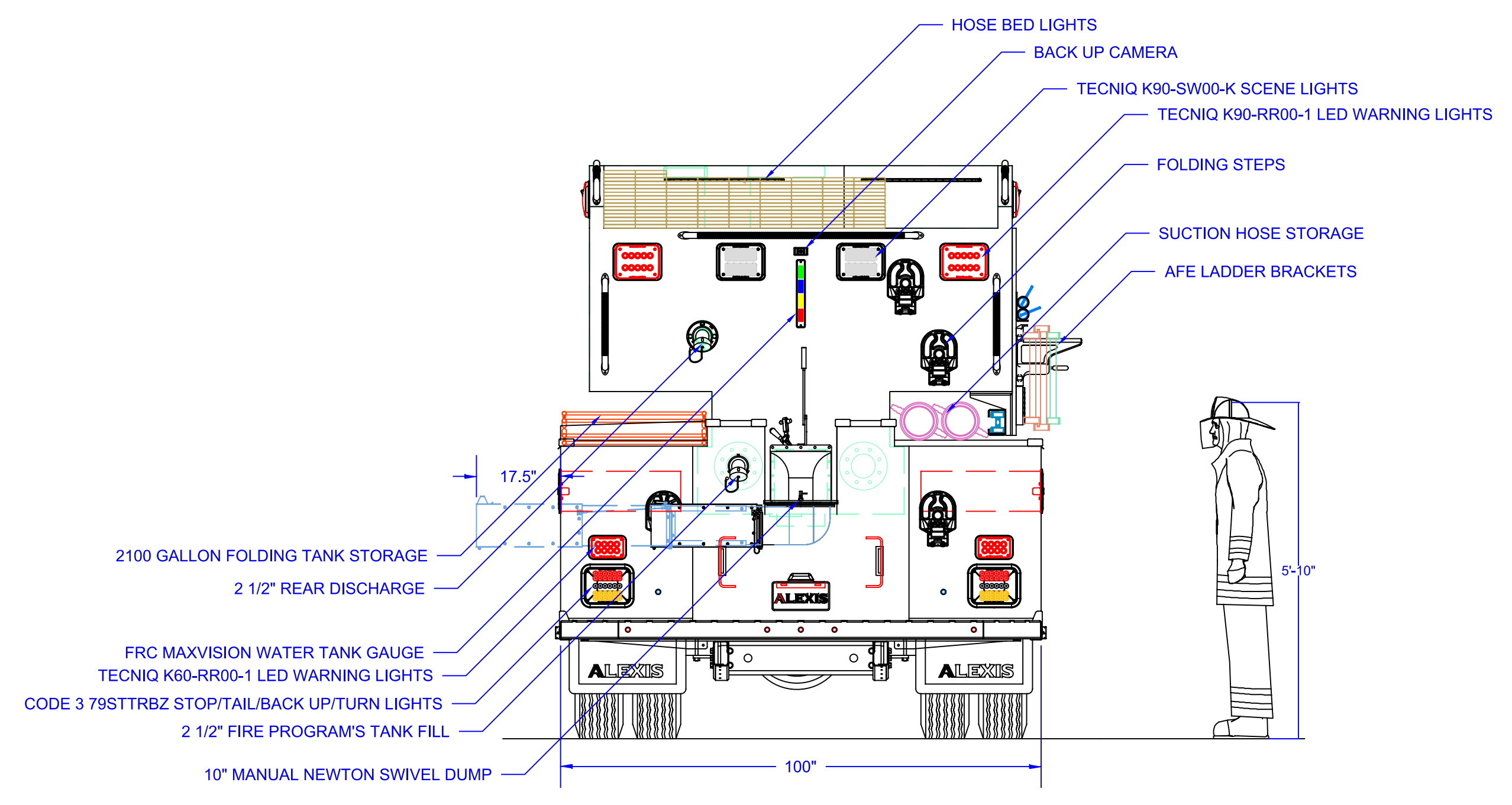
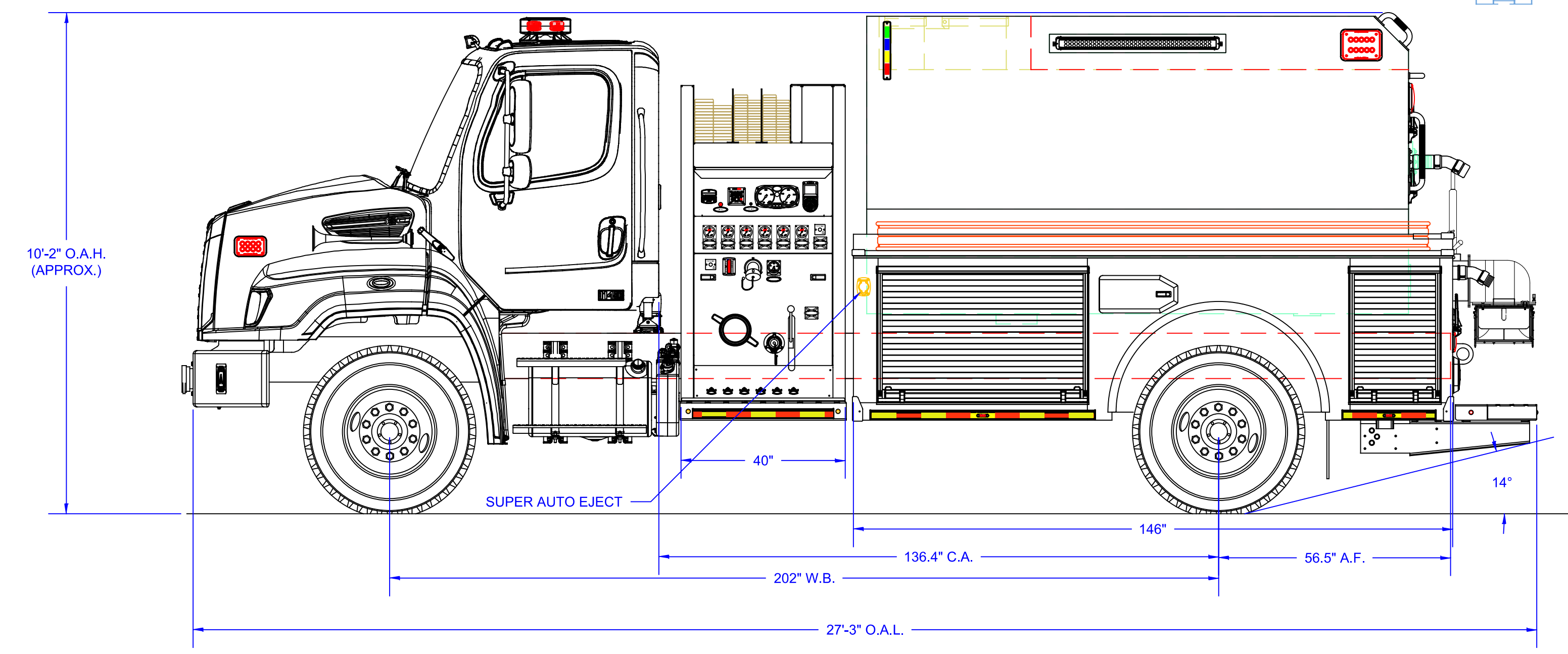
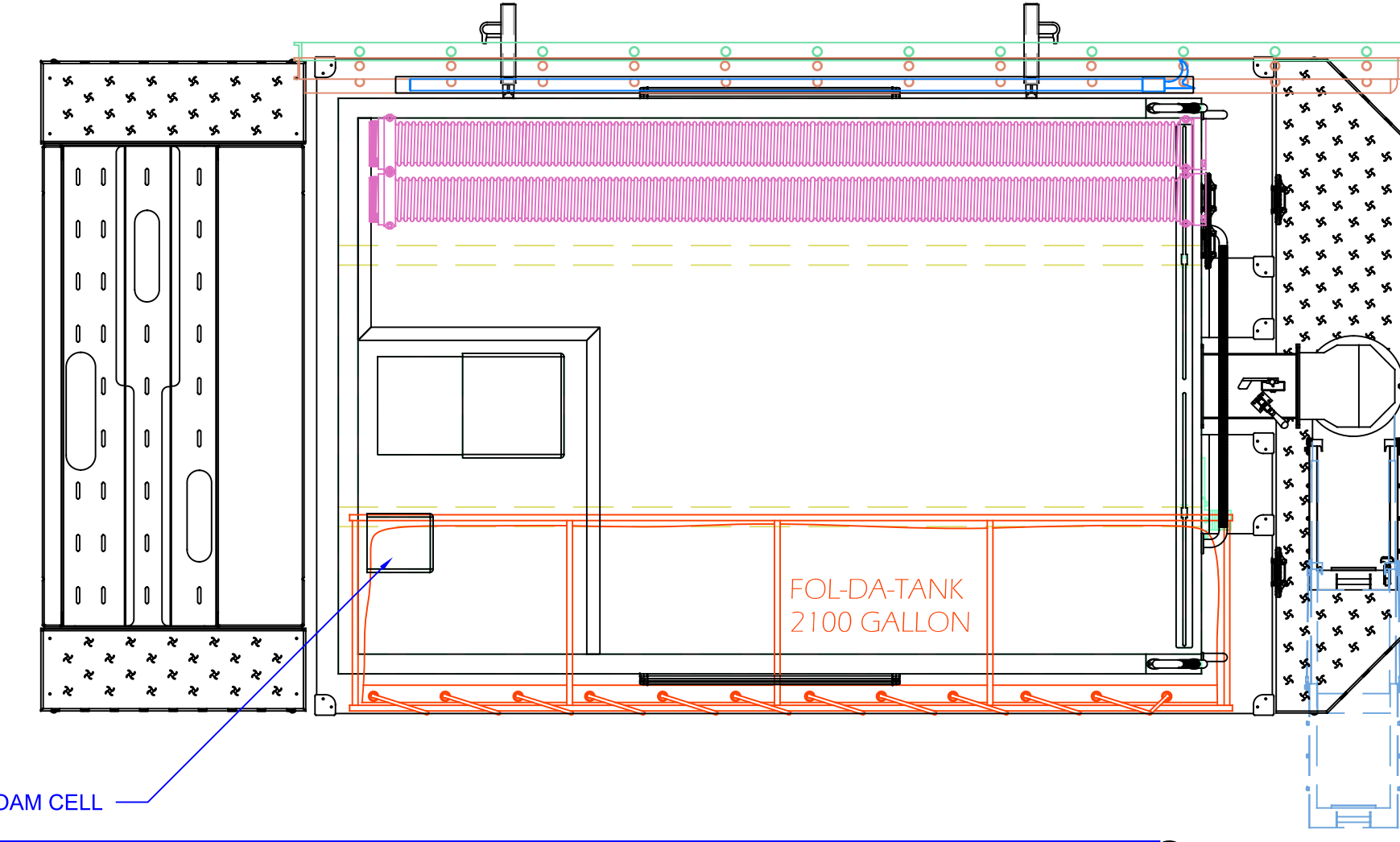
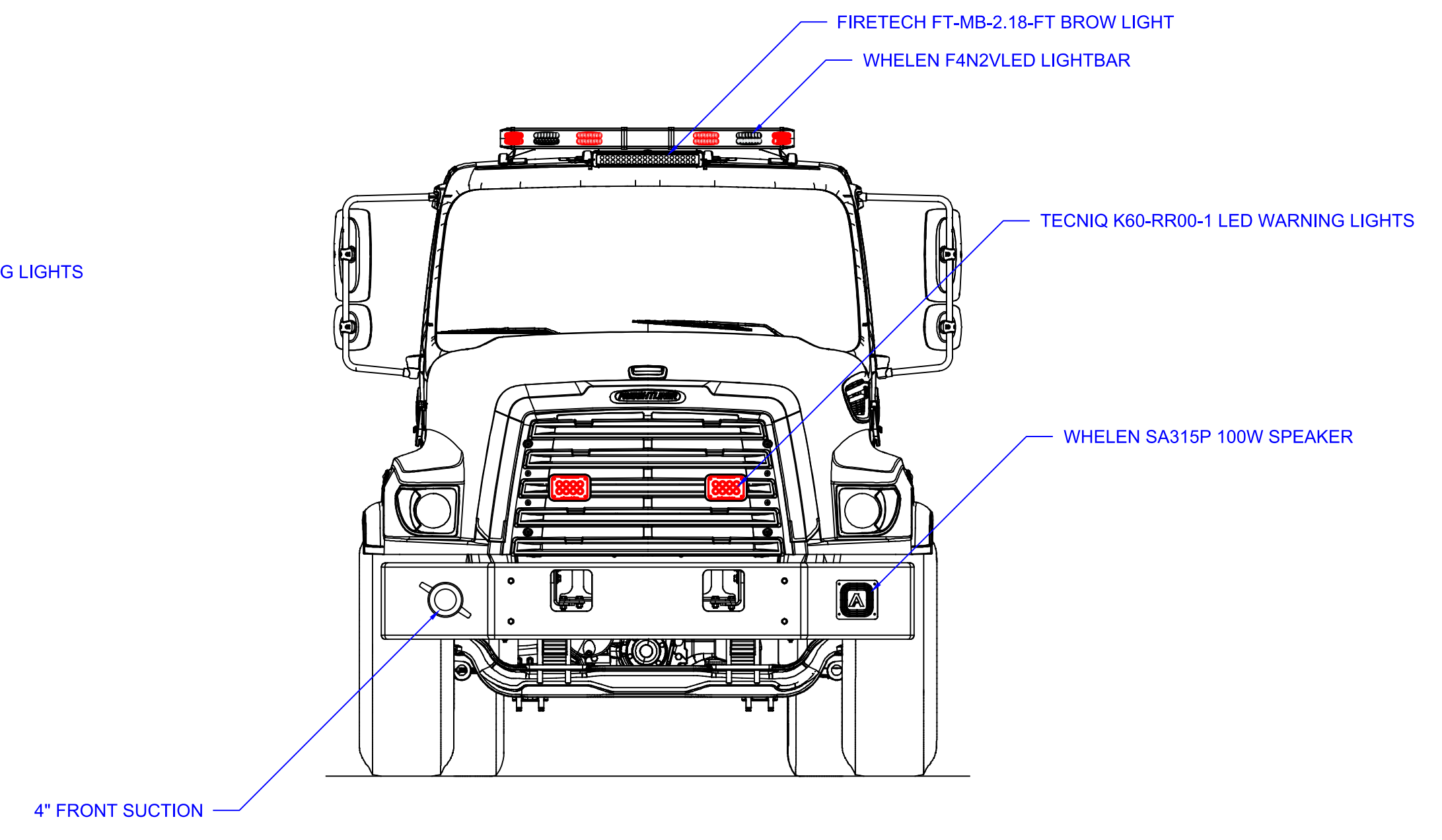
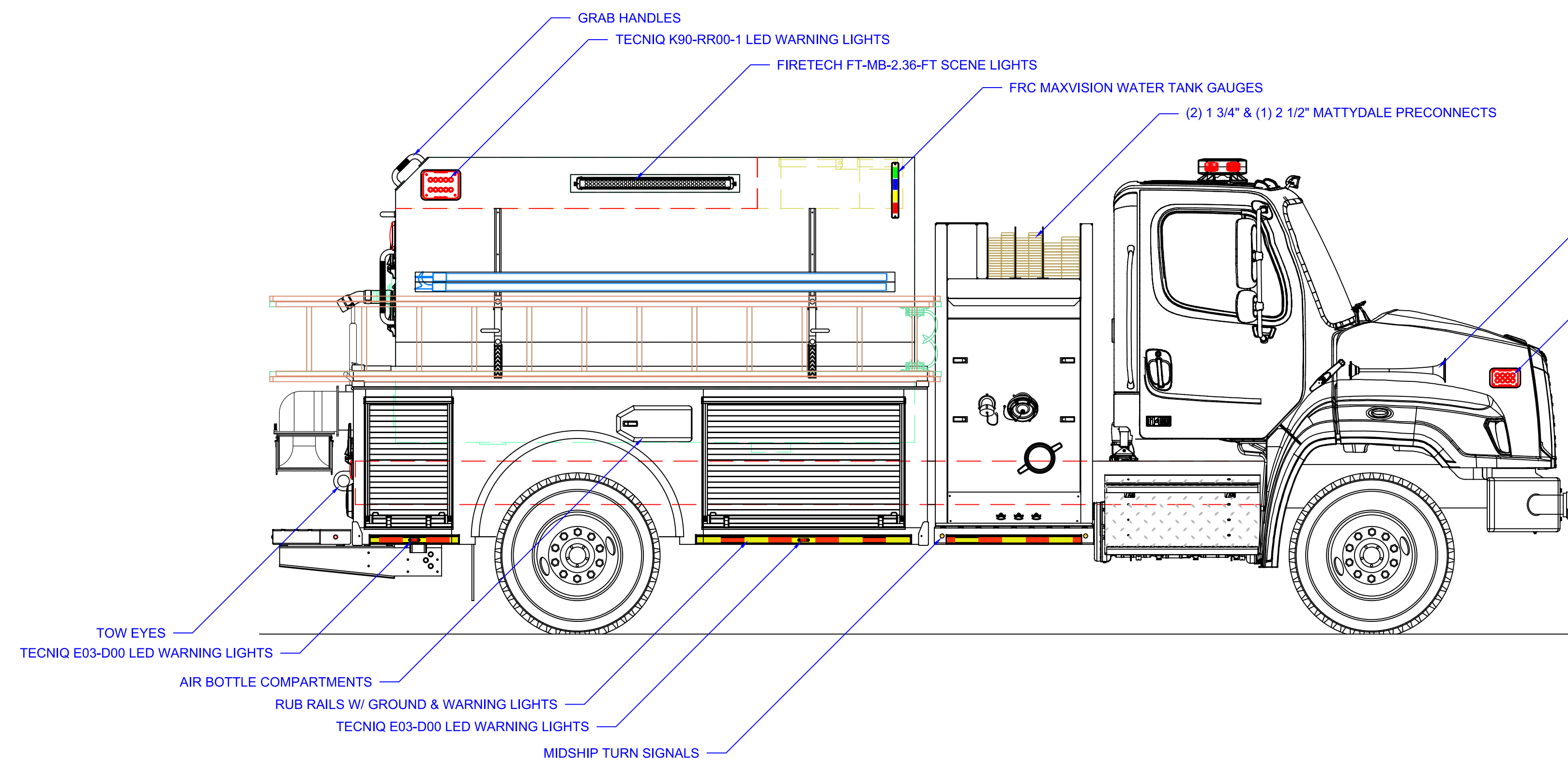
ALEXIS FIRE EQUIPMENT CO.
 P.O. BOX 549, ALEXIS, ILLINOIS 61412

TANKER
 ALEXIS FIRE EQUIPMENT
 ALEXIS, IL

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DRAWN: M. TINKHAM
 DATE: 3/13/24
 MATERIAL: 2

SIZE: D
 SCALE: 1/2" = 1'
 DWG NO: T-N13
 CONTRACT #: 2632
 SHEET 1 OF 2



REVISION HISTORY			
REV	DESCRIPTION	DATE	DWN

Pump Info:	Control Location: Side	Apparatus Type: Tanker
Pump Drive: Split Shaft	Chassis: FREIGHTLINER 114SD 2-DR	
Pump Make: Waterous	Tank Capacity: 2000	
Pump Model: CXVC20		
Pump GPM: 1500	Material: Stainless Steel	

COMPARTMENT DIMENSIONS	
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DECIMAL ± 0.062 ANGULAR ± 0.5° FRACTIONAL ± 1/16 METRIC ± 1.6 mm

ALEXIS FIRE EQUIPMENT CO.
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TANKER
ALEXIS FIRE EQUIPMENT
ALEXIS, IL

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DRAWN M. TINKHAM	DATE 3/13/24	SIZE D	SCALE 1/2" = 1'	DWG NO T-N13
MATERIAL	CONTRACT # 2632	SHEET 1 OF 2		



 Alexis Fire Equipment
 109 East Broadway / Alexis, IL 61412
 800-322-2284  sales@alexisfire.com
 AlexisFire.com

Alexis Fire Equipment Company
Alexis, IL

We hereby propose to furnish, after your acceptance, approval, and proper execution of the accompanying contract, the fire apparatus as follows:

One (1) Alexis Demo #2632 2000 Gallon Tanker

As per specifications attached herewith.

TOTAL APPARATUS.....\$ *

* Does not include any applicable taxes. Any local or state tax, if applicable, must be added to the above price.

Shipment of completed apparatus shall be made within 550 calendar days after our approval of properly signed contract, subject to causes beyond our control. This proposal is made subject to your acceptance within thirty (30) days from date of same. If acceptance is delayed beyond that period, we will, upon request, advise you of any increase in said amount which may be occasioned by causes beyond our control.

Respectfully submitted,
ALEXIS FIRE EQUIPMENT COMPANY

By: _____

"QUALITY HAS NO SUBSTITUTE"



 Alexis Fire Equipment
109 East Broadway / Alexis, IL 61412
 800-322-2284  sales@alexisfire.com
 AlexisFire.com

PAYMENT TERMS

The chassis payment shall be made within ten (10) days of invoicing.

A progress payment of \$ shall be made within ten (10) days of invoicing, upon the initial construction of the apparatus body. The front page price reflects a discount of \$ for this payment.

The balance of the contract plus any contract alterations shall be payable upon the delivery of the finished unit.

Upon payment, the Alexis Fire Equipment Company shall furnish the purchaser a "Statement of Origin" or the necessary validated documents required for title application.

Additional payment terms available upon request.



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 AlexisFire.com

ISO 9001:

Alexis Fire Equipment Company operates a Quality Management System under the requirements of ISO 9001. These standards, sponsored by the "International Organization for Standardization (ISO)," specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service.



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SERVICE CENTER:

The Alexis Priority-One service team is staffed with factory trained mechanics ready to meet your service requirements. Our staff is continually working on maintaining updated EVT and ASE certification.

The Alexis Service Team is available 24 hours a day, 7 days a week for your service emergencies. We use the latest paging system for fast, efficient and reliable service.

Our service facility covers an area of approximately 14,000 square feet.

The Alexis Service Team can assist you in fire apparatus service, ambulance service, aerial device maintenance, generator and rescue tool maintenance and service, and air pack inspections. Our staff can provide our customers with a complete apparatus training program, meeting the latest training requirements.

Alexis is a single source warranty center for the following manufacturers: Spartan Motors, Darley, Hale, and Waterous.

Our service team has over 50 years of cumulative experience in the fire service industry. In addition, they are backed by our fabrication, electrical, and paint and finish departments. This combination of training and hands-on experience offers true reliability and dependability.

Alexis keeps detailed documentation of all repair, maintenance, and inspection performed by our personnel. With time and manpower at such a premium among many fire departments, why not allow the Alexis Service Team to set up and maintain records for your fleet?

The Alexis Service Team is committed to providing prompt and courteous service, quality products and fair pricing.

Business: Alexis Fire Equipment Company
Location: 109 East Broadway Alexis, IL 61412
Phone: 800-322-2284



 Alexis Fire Equipment
109 East Broadway / Alexis, IL 61412
 800-322-2284  sales@alexisfire.com
 AlexisFire.com

DELIVERY:

The finished apparatus shall be picked up by the dealer organization at the plant site of the Alexis Fire Equipment Company in Alexis, Illinois.

To ensure proper break-in of all drive train components while under warranty, the finished apparatus shall be delivered to the purchaser under its own power.

The apparatus shall be covered by comprehensive and liability insurance during the delivery period. The purchaser shall assume the insurance obligation on acceptance, and at that time shall present to the manufacturer's agent a certificate of verification, showing liability, comprehensive and collision insurance coverage.



GENERAL INFORMATION:

LOCATION

The Alexis Fire Equipment facilities are located at 109 East Broadway, Alexis, Illinois 61412. We maintain a complete stock of parts and services available around-the-clock. We also propose to maintain parts and service for a minimum period of twenty (20) years on all apparatus which is manufactured.

NOTATION

To further assure the customer of our ability to manufacture quality fire apparatus, we are proud of the fact that Alexis Fire Equipment Company is family-owned and has been in the fire apparatus business since 1947. All apparatus manufactured by Alexis Fire Equipment are designed and built to meet the requirements of the latest edition of NFPA 1901.

PERSONNEL CAPACITIES

To meet the spirit of N.F.P.A. 1500 paragraph 6.3.1, this apparatus has been designed to transport not more than two (2) people.

6.3 Riding in Fire Apparatus

6.3.1 All persons riding in fire apparatus shall be seated and belted securely to the vehicle by seat belts in approved riding positions and at any time the vehicle is in motion. Standing or riding on tailsteps, sidesteps, running boards or in any other exposed position shall be specifically prohibited.

MAXIMUM TOP SPEED:

To meet the intent of NFPA 1901 4.15.3, the top speed of the vehicle shall not exceed 60 MPH or the manufacturer's maximum fire service speed rating for the tires installed on the apparatus, whichever is lower.

INFORMATION TO BE PROVIDED:

Alexis Fire Equipment Company shall supply, at the time of delivery, the following documents:

- A) The manufacturer's record of apparatus construction details, including the following information:
1. Owner's name and address
 2. Apparatus manufacturer, model, and serial number.
 3. Chassis make, model, and serial number.
 4. GAWR of front and rear axles.
 5. Front tire size and total rated capacity in pounds.
 6. Rear tire size and total rated capacity in pounds.
 7. Chassis weight distribution in pounds with water and manufacturer mounted equipment.
 8. Engine make, model, serial number, number of cylinders, bore, stroke, displacement and compression ratio, rated horsepower and related speed, and no-load governed speed.
 9. Type of fuel and fuel tank capacity.
 10. Electrical system voltage and alternator output in amps.
 11. Battery make and model, capacity in CCA.
 12. Transmission make, model, and type.
 13. Pump to drive through the transmission (yes or no)
 14. Engine to pump gear ratio used
 15. Pump make, model, rated capacity in g.p.m., serial number, number of stages, and impeller diameter in inches.
 16. Pump transmission make, model, and serial number.
 17. Priming device type.
 18. Type of pump pressure control system.
 19. Auxiliary pump make, model, rated capacity in g.p.m., serial number, number of stages, and impeller diameter in inches.
 20. Water tank certified capacity in gallons.
 21. Aerial device type, rated vertical height in feet, rated horizontal reach in feet, and rated capacity in pounds.
 22. Paint numbers
 23. Company name and signature of responsible company executive.
- B) If the apparatus has a fire pump, the pump manufacturer's certification of suction capability.
- C) If the apparatus has a fire pump, a copy of the apparatus manufacturer's approval for stationary pumping applications.
- D) If the apparatus has a fire pump, the engine manufacturer's certified brake horsepower curve for the engine furnished, showing the maximum no-load governed speed.
- E) If the apparatus has a fire pump, the pump manufacturer's certification of hydrostatic test.
- F) If the apparatus has a fire pump, the certification of inspection and test for the fire pump.
- G) If the apparatus has an aerial device, the certification of inspection and test for the aerial device.
- H) If the apparatus has an aerial device, all the technical information required for inspections to comply with NFPA.
- I) Weight documents from a certified scale - showing actual loading on the front axle, rear axle(s), and

overall vehicle (with the water tank full but without personnel, equipment, and hose) - shall be supplied with the completed vehicle.

- J) Written load analysis and results of the electrical system performance tests.
- K) If the apparatus is equipped with a water tank, the certification of water tank capacity.
- L) If the apparatus has a fire pump, two (2) copies of the pump operation and maintenance manual.
- M) Two (2) destination effective wiring diagrams.
- N) Copies of electrical and mechanical component manuals for equipment purchased on or with the apparatus.
- O) A sketch of the booster tank indicating all dimensions and baffle locations.
- P) If the apparatus has a pump, one (1) certification of third party test

WARRANTY:

Alexis Fire Equipment Co., Inc. warrants each new piece of Alexis fire and rescue apparatus to be free from defects in material and workmanship under normal use and service. Our obligation under this warranty is limited to repairing or replacing, as the company may elect, any part or parts thereof which shall be returned to us with transportation charges prepaid, and as to which examination shall disclose to the company's satisfaction to have been defective, provided that such part, or parts shall be returned to us not later than two years after delivery of such vehicle. Such defective part or parts will be repaired or replaced free of charge and without charge for installation to the original purchaser. All water tanks will be warranted as stated herein and may have extended warranty as explained elsewhere in the Alexis Fire Equipment Co. Proposal.

This warranty will not apply:

1. To normal maintenance service or adjustments.
2. To any vehicle which shall have been repaired or altered outside of our factory, in any way so as, in our judgement, to affect its stability, nor which has been subject to misuse, negligence, or accident, nor to any vehicle made by us which shall have been operated at a speed exceeding the factory rated speed, or loaded beyond the factory rated load capacity.
3. To the chassis and associated equipment furnished with chassis, signaling device, generators, batteries or other trade accessories. These are usually warranted separately by their respective manufacturers.
4. To work performed by an outside service without prior authorization obtained from Alexis Fire Equipment.
5. To costs incurred from an outside service for non-warranty related items.



This warranty is in lieu of all other warranties, expressed or implied, and all other representations to the original purchaser and all other obligations or liabilities, including liability for incidental or consequential damages on the part of the company. We neither assume or authorize any other person to give or assume any other warranty or liability o the company’s behalf unless made or assumed in writing by the company.

Surety Bond, if required, will cover standard two-year warranty period only and will not cover any extended warranties allowed by Alexis Fire Equipment co. or other component manufacturers.

LENGTH AND/OR HEIGHT LIMITATIONS:

OVERALL HEIGHT:

There shall be no overall height restrictions.

OVERALL LENGTH:

There shall be no overall length restrictions.

CHASSIS MODIFICATIONS:

STEP ASSEMBLIES:

The step assemblies on the left and right side of the chassis shall remain as specified in the chassis specifications.

MUD FLAPS:

Each rear fender shall be extended with a black rubber mud flap, thus preventing splash and road debris from damaging the apparatus body.

CHASSIS SUPPLIED WHEELS:

The wheel finish on the apparatus shall remain as specified in the chassis specifications.

LABELS:

A permanent plate in the driving compartment shall specify the quantity and type of the following fluids

used in the vehicle:

- Engine Oil
- Engine Coolant
- Chassis Transmission Fluid
- Pump Transmission Lubrication Fluid
- Pump Primer Fluid (if applicable)
- Drive Axle(s) Lubrication Fluid
- Air-Conditioning Refrigerant
- Air-Conditioning Lubrication Oil
- Power Steering Fluid
- Cab Tilt Mechanism Fluid
- Transfer Case Fluid
- Equipment Rack Fluid
- CAFS Air Compressor System Lubricant
- Generator System Lubricant
- Front Tire Cold Pressure
- Rear Tire Cold Pressure
- Maximum Tire Speed Ratings

A final manufacturer's certification of the GVWR or GCWR along with a certification of each GAWR, shall be supplied on a label affixed to the vehicle.

A sign that reads "Occupants Must Be Seated and Belted When Apparatus Is in Motion" shall be provided. The sign shall be visible from each seated position.

A label that states the number of personnel the vehicle is designed to carry shall be located in an area visible to the driver.

A sign stating the overall height of the vehicle in feet and inches, the overall length of the vehicle in feet and inches, and the GVWR in tons shall be provided and mounted. The sign shall be visible to the driver of the vehicle while seated.

A label stating "Do Not Wear Helmet While Seated" shall be visible from each seating position.

A label stating "All Equipment Stored in the cab shall be properly secured" shall be visible from each seating position.

A "Do Not Ride" label shall be visible near all stepping and standing surfaces

AIR LIMITER:

A limiter valve shall be installed on the chassis air reserve tank, eliminating the use of all air accessories when the chassis air pressure is under 100 psi, thus reserving all available air for braking effort.

HELMET STORAGE:

To meet the intent of NFPA 14.1.8.4.1, the helmet for each occupant shall be stored in an exterior compartment.

PUMP AND PIPING:

WATEROUS CX-1500 SPLIT SHAFT PUMPING SYSTEM:

MANUFACTURER: Waterous
MODEL: CXVC20
CAPACITY: 1500 gpm at 150 psi

The CX 1250 shall be designed and have the capacity of 1500 GPM rated performance.

DESCRIPTION:

The efficient performance and modern design make the CX series pumps outstanding in their class. The combination of single-stage design and vertically-split volute and pump transmission provide a simple to operate, easy to maintain pump. The use of heavy-duty gears, bearings and shafts provides longer, more trouble-free service and a high reserve capacity. The pump shall utilize a Waterous C20 series chain drive transmission and shall be driven off the split shaft driveline.

The CX is equipped with Victaulic® intake and discharge fittings for rear mount applications.

PUMP SPECIFICATIONS:

CASING:

Two-Piece, vertically-split, high-tensile, close-grained gray iron

IMPELLER:

Flame Plated bronze impeller specifically designed for the fire service, double hubbed to eliminate axial thrust, and accurately balanced for vibration-free running.



WEAR RINGS:

Replaceable bronze wear rings to increase pump life and keep maintenance costs at a minimum.

IMPELLER SHAFT:

Stainless steel, heat treated, precisely ground to size, and polished under shaft seal. Supported by oil lubricated ball bearings.

BEARINGS:

All bearings are oil or grease lubricated, ball-type, located outside the pump casting to accurately align and support the impeller shaft assembly. Ball bearings are deep groove type designed to carry both radial and axial thrust.

GEARS:

Crown shaved, carburized and hardened gears are constant mesh, helical design, for quiet operation and long life.

PRIMING PUMP:

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

ADDITIONAL PRIMER CONTROL:

One (1) additional primer control valve shall be furnished to prime the specified auxiliary inlet individually. The Trident Emergency products RPV (remote priming valve) shall activate using the same air that powers the AirPrime™ system when the coinciding panel valve is depressed. Priming the remote suction line evacuates air from that line and minimizes cavitation during remote suction operations. The valve control is to be co-located next to the main priming valve control on the pump operator's panel.

AUXILARY INLET: Front Intake

DRIVELINES:

The chassis drivelines shall be modified to accept the pump drivelines. The pumping system drivelines shall be manufactured by the apparatus manufacturer. The drivelines shall be professionally balanced by the apparatus manufacturer to ensure complete system balance.

6" SUCTION:

One (1) 6" NST suction shall be located on each side of the apparatus body. The suctions shall be open and not gated. An inlet screen and a 6" handle cap shall be included.

PIPING:

The piping will be stainless steel material throughout the waterway system. The suction waterway shall be 6" 304 stainless steel material. The suction waterways shall be designed to flow a minimum of 17% in excess of the rated capacity from draft. The suction piping shall incorporate a 4" suction inlet to allow for full flow from the tank valve assembly. The suction piping shall be adapted from 6" TIPT to NST with a chrome adapter. The suction system shall be designed with 6" victaulic couplings to allow ease of access for maintenance or removal of the pumping system.

The discharge system shall incorporate a 4" stainless steel distribution system. The manifold shall be fed from the 4" piping system. The discharge system shall incorporate a 4" victaulic system to allow ease of access for maintenance or removal of the pumping system. Each discharge shall be fed from above the manifold system.

PUMP DRAINS:

The entire pump and its controls shall be drainable with a master drain piped to the lowest points of the pump and its control piping. The master drain shall be of a threaded design that will seal all drain points without allowing recycle.

WATEROUS MECHANICAL SEAL:

The mechanical seal must be 2" in diameter and shall be spring loaded, maintenance free and self-adjusting. Mechanical seal construction shall be a carbon sealing ring, stainless steel coil spring, Viton rubber cup, and a tungsten carbide seat with Teflon backup seal.

AIR PUMP SHIFT:

The shifting mechanism shall be a heat-treated, hard anodized aluminum power cylinder, with stainless steel shaft. The assembly shall be plumbed utilizing a 3/8" air line for maximum performance. An

in-cab control for rapid shift shall be provided that locks in road or pump.

For automatic transmissions, three green warning lights shall be provided to indicate to the operator(s) when the pump has completed the shift from Road to Pump position. Two green lights to be located in the truck driving compartment and one green light on pump operators panel adjacent to the throttle control. For manual transmissions, one green warning light will be provided for the driving compartment. All lights shall have appropriate identification/instruction plates.

INTAKE PRESSURE RELIEF VALVE

One (1) Elkhart Model #40-20, relief valve shall be provided. The relief valve is designed to be installed permanently on the suction side of the pump..

The relief valve shall be fully adjustable from 75 to 250 PSI which will be pre-set at 125 PSI. The valve shall be brass construction with a stainless steel mechanism and it shall have a rubber seat to ensure a positive vacuum seal.

The relief valve shall be set at 125 PSI

REQUIRED PUMP TESTING:

If the fire pump has a rated capacity of 750 gpm or greater capacity, the pump shall be tested after the pump and all its associated piping and equipment have been installed on the apparatus. The tests shall be conducted at the Alexis facility and certified by an EVT Certified pump operator. The certification shall include (at least) the following tests: the pumping test, the pumping engine overload test, the pressure control system test, the priming device tests, and the vacuum test. If the apparatus is equipped with a water tank, the water tank to pump flow test shall be included.

A test plate shall be provided at the pump operator's position that gives the following information: the rated discharges and pressures, the speed of the engine determined by the certification test for each unit, the position of the parallel/series pump as used, and the no-load governed speed of the engine stated by the engine manufacturer on a certified brake horsepower curve. The plate shall be completely stamped with all information at the factory and attached to the vehicle prior to shipping.

PUMP CERTIFICATION:

Upon final apparatus delivery, the original copy of the certificate of inspection by an independent third party shall be furnished.

The pumping system shall be capable of delivering:

100 % of rated capacity at 150 psi. net pump pressure
70 % of rated capacity at 200 psi. net pump pressure
50 % of rated capacity at 250 psi. net pump pressure

PUMP MODULE - SIDE CONTROL:

A free standing pump module shall be located between the chassis cab and the body.

The pump module shall be a self-supported structure mounted to the frame separate from the cab and body. Pump module design begins with a formed framework assemblies that are precision manufactured from corrosion free heavy 7 gauge stainless steel forms. This framework mounts to the truck frame through a mounting design complimented with four (4) VIBRA mount elastomer cushions. The result shall be a mounting system that allows for the twisting movement of the truck frame without undue stress loading of the pump module.

The pump operator's panel shall be located on the left side of the apparatus, and the suction/discharge panels shall be located on the left and right sides of the apparatus.

An automotive rubber seal shall be adhered to the pump panel to reduce vibration that may occur during pump operation or road application. The panel shall be attached to the framing with 3/16" pin, 1" knuckle, continuous stainless steel hinges. The hinges shall be attached with stainless steel fasteners.

Each panel shall be secured with latches at the top and bottom of the door opening.

The top left operator's panel shall be hinged for access to the individual gauges and the electrical components. No exceptions.

Once the module is designed, the valve control placements on a control module shall result in a neat and orderly layout. Open the access door on a side control module and peer inside. The horizontal control rods appear neat and orderly.

PUMP CONTROLS:

The pump panel shall incorporate push pull controls for each discharge, the tank fill recycle, and the tank to pump valve (if applicable.)

PUMP OPERATOR'S PANEL:

The pump operator's panel shall include the following:

PRESSURE GOVERNOR and MONITORING DISPLAY

One (1) Fire Research PumpBoss Max series PBA501-D00 pressure governor and control module kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module housing shall be waterproof and have dimensions not to exceed 7 1/2" high by 3 5/8" wide. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 2" from the front of the control module. The control LCD shall be 3.5" in size with a minimum brightness of 1000 nits and optically bonded to 3mm Borofloat Glass. Inputs for monitored engine information shall be from a J1939 data bus or independent sensors. Outputs for engine control shall be on the J1939 data bus. Inputs from the pump discharge and intake pressure sensors shall be electrical.

The following continuous displays shall be provided:

- Engine RPM; shown on LCD screen
- Check engine and stop engine warning; shown on LCD screen
- Engine oil pressure; shown on LCD screen
- Engine coolant temperature; shown on LCD screen
- Transmission Temperature; shown on LCD screen
- Battery voltage; shown on LCD screen
- Pressure and RPM operating mode LEDs
- Pressure / RPM setting; shown on LCD screen
- Throttle ready / Ok to Pump LEDs.

On screen (LCD) message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. LCD Screen and LED's intensity shall be automatically adjusted for day and nighttime operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only).

The program features shall be accessed via push buttons located on the front of the control module. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

The pressure governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready and Ok to Pump LED shall light when the interlock signal is recognized. The pressure governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the pressure governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The pressure governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor control module shall be programmed at installation for a Cummins engine.

MASTER GAUGES:

One (1) 4½" compound gauge with a range of 30-0-400 PSI.

One (1) 4½" pressure gauge with a range of 0-400 PSI

The compound and pressure gauges shall remain unlit as previously specified.

MAXVISION TANK LEVEL INDICATOR:

Fire Research TankVision model WLA280-A00 tank remote indicator shall be installed. The indicator shall show the volume of water in the tank on Ninety six (96) easy to see super bright Tri-color LEDs. The indicator case shall be waterproof, manufactured of Polycarbonate material with an integrated lens. The package includes a rubber gasket.

The remote indicator shall receive input information over a datalink from a Fire Research TankVision primary indicator model WLA300-A00. The remote indicator shall indicate the level as a single color in Red for 25% or less, Amber color for up to 50% volume, Blue color for up to 75% volume and Green color for up to 100% volume. When the level reaches 25%, the red LEDs will begin flashing. When the level is empty, the red LEDs will scroll in a down-chasing motion and then flash three times. It shall have the program capability to adjust the brightness level for day time and nighttime viewing.

There shall be three (3) MaxVision Tank Level strip lights provided on the apparatus, one (1) each side and one (1) at the rear.

In addition to the LED MaxVision displays, a FRC TankVision WLA300 water level gauge will be located on the pump operator's panel.



Each strip light shall be mounted utilizing a chrome plated flange.

COLOR CODED TAGS:

Color coded tags with chrome plated bezels shall be provided. Unless otherwise specified all tags shall be color coded to NFPA recommendations and shall be located at the control location, intake/discharge location, and at the drain port location.

A FAMA 25 label stating "Trained Personnel Only" shall be provided on the pump operator's panel.

Alexis Standard Tags:

Front Bumper Jump Line	Orange
Preconnect #1	Red
Preconnect #2	Yellow
Preconnect #3	Seafoam
Discharge #1	White
Discharge #2	Blue
Discharge #3	Black
Discharge #4	Green
Discharge #5/Water tower	Purple
Deluge/deck gun	Silver
Large-diameter hose	Yellow with white border
Foam line(s)	Red with white border
Booster reel(s)	Gray
Inlets	Burgundy

TEST PORTS:

Vacuum and pressure test ports shall be provided on the pump operator's panel for connection of the pump test gauges.

PUSH BUTTON ON PUMP PANEL FOR AIR HORNS:

There shall be a push button provided on the pump panel to activate the air horns.

RUNNING BOARDS

The running boards shall be constructed of 12 gauge star punched stainless steel material. The material

meets NFPA standard 13-7.3: all exterior surfaces have a minimum slip resistance of .68.

RUB RAILS - RUNNING BOARDS:

Bolt on aluminum rub rails shall be installed one (1) each side on the running boards. Said rub rails will be fabricated of a polished "C" channel aluminum, mounted to the running board utilizing ¼" plastic spacers.

The rub rails shall incorporate the LED ground lights and LED lower warning lights. Each light strip shall run the full length of each rub rail.

The channel designed rub rail shall incorporate a highly reflective red and fluorescent yellow green reflective stripe to aid in apparatus protection.

STAINLESS STEEL PUMP MODULE:

The area above the side discharge panels on each side shall be manufactured of 14 gauge brushed stainless steel material.

STAINLESS STEEL PUMP PANELS:

The pump operator's panel and discharge panels shall be manufactured of 12-gauge stainless steel and shall include a full width light hood with one (1) E45 Series LED light strip

The side discharge panel on the passenger side of the apparatus shall be manufactured of 12-gauge stainless steel and shall include a full width light hood with one (1) E45 Series LED light strip

The lights shall be activated by a switch located on the pump operator's panel.

PUMP MODULE TOP:

MATTYDALE PRECONNECTS:

Three (3) Mattydale preconnects shall be located across the top of the apparatus body. Two (2) of the preconnects shall measure 1½", and one (1) of the preconnects shall measure 2½".

The 1½" preconnects shall incorporate a 1½" 180° swivel adapted to 1½" fire hose thread. The water ways shall be 2" i.d. and shall include a 2" full flow quarter turn ball valve that is remote controlled from the operator's panel.

The 2½" preconnect shall incorporate a 2½" swivel adapted to 2½" fire hose thread. The water way shall measure 3" i.d. and include a 2½" full flow quarter turn ball valve that is remote controlled from the operator's panel.

The 1½" preconnects shall have the capacity to contain a minimum of 200 ft. of 1¾" hose, and the 2½" preconnect shall have the capacity to contain a minimum of 150 ft. of 2½" hose. The Mattydale preconnects shall be designed to allow the extension of hose to the right or left side of the apparatus body. The preconnect openings shall incorporate aluminum abrasion plates to protect the body finish from the hose and its couplings during extension or relay.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½" diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

PRECONNECT HOSE RETENTION - STRAP:

The preconnect area shall include 2" nylon straps for hose retention. Each strap shall include a seat belt buckle for ease of access. There shall be one (1) strap at each end and one (1) strap on each side across the top, total of four (4) straps.

2 ½" DISCHARGE PIPING:

One (1) 2 ½" discharge(s) shall be located on the left side of the apparatus. Each discharge valve shall be located behind the body panel and controlled from the side control pump operator's panel. Each discharge shall include a self-locking 2½" quarter-turn ball valve, a 2½" chrome cap with chain, and a sweep elbow of at least 30 degrees downward.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½" diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

2 ½" DISCHARGE PIPING:

One (1) 2 ½" discharge(s) shall be located on the right side of the apparatus. Each discharge valve shall be located behind the body panel and shall be controlled from the side control pump operator's panel. Each shall include a self-locking 2½" quarter-turn ball valve, a 2½" chrome cap with chain, and a sweep elbow of at least 30 degrees downward.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½ diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

2 ½" DISCHARGE, APPARATUS REAR:

One (1) 2½" discharge shall be located on the rear of the apparatus. Each discharge shall be controlled from the side control pump operator's panel. Each shall include a self-locking 2½" quarter-turn ball valve, a 2½" chrome cap with chain, and a sweep elbow of at least 30 degrees downward.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½ diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

LOCATION: Left Side

3" DISCHARGE(S), APPARATUS RIGHT SIDE:

One (1) 3" discharge(s) shall be located on the right side of the apparatus with each valve behind the body panel. Each discharge shall be controlled from the side control pump operator's panel. The valve shall be a 3" slow close valve per NFPA.

DISCHARGE ADAPTER:

The 3" discharge shall incorporate one (1) 3" NST LHF x 5" Storz 30 degree elbow with blind cap.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½ diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

TANK TO PUMP LINE:

One (1) 3" tank to pump line shall be installed into the tank to the suction side of the pump. It shall have 4" piping and valved with a 3" full flow valve. Each valve shall be controlled from the pump operator's panel. Each tank line shall incorporate a check valve in the line to meet NFPA 1901.

LINE DRAINS FOR DISCHARGES:

The drain valves shall be Innovative Controls ¾" ball brass drain valves with chrome-plated lift lever handles and ergonomic grips. Each lift handle grip shall feature built-in color-coding labels and a verbiage tag identifying each valve, also supplied by Innovative Controls. The color labels shall also include valve open and close verbiage.

VENTED DISCHARGE CAPS:

Each discharge shall incorporate a vented cap designed to relieve stored pressure in the line when disconnected.

GATED SUCTION, LEFT SIDE:

One (1) 2½" gated suction shall be located on the left side of the apparatus. It shall be piped 2½" i.d. including a 2½" Akron full flow quarter turn valve and a 2½" NST female swivel with plug and chain. It shall be remote controlled from the suction location.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½" diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

FRONT SUCTION:

One (1) 4" suction shall be located at the front of the apparatus. It is to be piped with 4" SS piping. An inlet screen and a long handle cap shall be included. The operator shall have an open-closed indicator device showing the valve position at all times. The butterfly valve shall be made of lightweight aluminum alloy with a bronze valve disc and a one (1) piece rubber seat. It shall be rated at 250 psi. working pressure. The electric actuator shall have a worm gear drive system with emergency manual override. All of the controls shall be within a single mountable panel package that utilizes current limiting for fully open and closed stopping. Switches in the gear actuator housing will not be acceptable.

The front suction shall be plumbed 4" stainless steel piping with a 4" butterfly valve. The front suction shall be extend through the front bumper on the right side.

The front suction shall be adapted from 4" TIPT x 6" NST. The front suction shall include a 6" NST cap.

INTAKE RELIEF VALVE:

One (1) Elkhart Model 40-20 intake relief valve shall be installed on the auxiliary intake of the pump. The minimum range shall permit control from 75 to 250 psi. (per NFPA 4-5.1).

FRONT SUCTION ELBOW - PAINTED:

The front suction shall incorporate a 5" Elkhart 348 swivel elbow terminating as described below. The Elkhart swivel shall be painted job color.

The auxiliary suction shall terminate 6" NSTM.

FOAM PRO 1600 SINGLE TANK:

The apparatus shall be equipped with a FoamPro 1600 Foam System. The system is an electronic, fully automatic, variable speed, direct injection, discharge side foam proportioning system. The system shall be capable of handling Class A foam concentrate. The foam proportioning operation shall be based on direct measurement of water flows, and remain consistent within the specified flows and pressures. System must be capable of delivering accuracy to within 3% of calibrated settings over the advertised operation range when installed according to factory standards. The system shall be equipped with a control module suitable for installation on the pump panel. Incorporated within the motor driver shall be a microprocessor that receives input from the system flowmeter, while also monitoring foam concentrate pump output, comparing values to ensure that the operator preset proportional amount of foam concentrate is injected into the discharge side of the fire pump. A paddlewheel-type flowmeter shall be installed in the discharge system specified to be "foam capable."

The control module shall enable the pump operator to:

Activate the foam proportioning system

Select proportioning rates from 0.1% to 1.0%

See a "low concentrate" warning light flash when the foam tank runs low and in two minutes, if foam concentrate is not added to the tank, shut the foam concentrate pump down

The system capacity shall be as follows:

% of foam	Maximum Water Flow (GPM)
.2%	850 GPM
.5%	340 GPM
1.0%	170 GPM

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity shall be 1.7 gpm (6.4 L/min) at 200 psi (13.8 BAR) with a maximum operating pressure up to

400 psi (27.6 BAR). The system will draw a maximum of 30 amps @ 12 VDC. The motor shall be controlled by the microprocessor (mounted to the base of the pump). It shall receive signals from the control module and power the 1/3 hp (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream. A full flow check valve shall be provided in the discharge piping to prevent foam contamination of fire pump and water tank. A 5 psi (.35 BAR) opening pressure check valve shall be provided in concentrate line.

Components of the complete proportioning system as described above shall include:

- Operator control module
- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low level tank switch
- Foam tank
- Foam injection check valve
- Main waterway check valve

LABELS FOR FOAM SYSTEM:

An instruction plate shall be provided for the foam proportioning system that includes, at a minimum, a piping schematic of the system and basic operating instructions.

A nameplate that is marked clearly with the identification and function shall be provided for each control, gauge, and indicator related to the foam proportioning system.

A label shall be provided on the pump operator's panel that identifies the type(s) of foam concentrate(s) that the foam proportioning system is designed to use. It shall also state the minimum/maximum foam proportioning rate(s) at the minimum/maximum rated system flow and pressure.

Two (2) copies of an operations and maintenance manual shall be provided. They shall include a complete diagram of the system together with operating instructions and details outlining all recommended maintenance procedures.

FOAM PROPORTIONING SYSTEM ACCURACY:

The accuracy of the foam proportioning system shall be tested by the apparatus manufacturer prior to delivery of the apparatus. If the manufacturer's rated proportioning ratio is below 3%, the foam system shall proportion foam concentrate within -0 percent / +40 percent of the manufacturer's rated proportioning ratio across the manufacturer's stated range of water flow and pressure. If the manufacturer's rated proportioning ratio is at or above 3%, the foam system shall proportion foam

concentrate within -0 percent / +40 percent of the manufacturer's rated proportioning ratio or 1 percentage point, whichever is less, across the manufacturer's stated range of water flow and pressure.

FOAM CAPABLE DISCHARGES:

The following discharges shall be foam capable:

FOAM TANK:

A 10 gallon foam tank shall be incorporated within the booster tank of the apparatus. It shall be baffled and constructed of polypropylene. The fill shall be installed and vented to allow filling without a foaming reaction from the foam concentrate. Two valves shall be incorporated with the foam tank, one for the foam induction system and one for a drain hoses to the ground.

TANK FILL RECYCLE:

One (1) 2" waterway shall be incorporated from the pressure side of the pump to the tank. The line shall be controlled from the pump panel and valved with a 2" ball valve to allow a pump cooling recycle or tank fill when pumping from draft. When fully opened, it shall have the capacity to refill the tank at 750 gpm when pumping at 100 psi.

Each above valve shall be manually controlled.

One (1) IC line reading gauge supplied for each above discharge. The gauge shall have a 2½ diameter face with a graduated output scale of 0-400 PSI with black print on a bright white background.

VALVING:

Each and every apparatus valve must be a Stainless Steel Ball Valve, per the following specifications.

The valve shall have an all brass body with flow optimizing stainless steel ball and dual polymer seats. The valve shall be capable of bi-directional flow and incorporate a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway components, and must be capable of swinging out of the waterway for maintenance. The valve shall be manufactured in the United States and shall carry a ten year warranty.

PIPING:

All waterways described herein shall be of schedule 40 threaded stainless steel pipe, schedule 10 welded stainless steel, or "aeroquip" hose. Each shall be installed with the proper couplings to allow apparatus



twisting, flexing, and complete removal for service or replacement.

PLUMBING WARRANTY:

The stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of ten (10) years or 100,000 miles. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten (10) years or 100,000 miles from the date of delivery.

PIPING CERTIFICATION:

Upon final apparatus delivery, a certification sheet shall accompany the unit stating that all piping and the pump have been hydrostatically tested to 250 psi.

BODY:

BODY WARRANTY:

Alexis Fire Equipment Company hereby extends its standard two-year fire and rescue apparatus warranty to include defects in materials and workmanship of the body as well as structural defects which, in the sole opinion of the company, substantially affect the total integrity of the body. This warranty is extended only to the original user-purchaser.

Alexis Fire Equipment warrants the 12 gauge stainless steel bodies, fabricated by Alexis Fire Equipment, under normal use and with reasonable maintenance, shall remain structurally sound for the lifetime of the apparatus per NFPA recommendations or 100,000 miles as long as the design of the apparatus complies with Alexis engineering practices.

The Company reserves the right to require any such repairs to be made either at Alexis Fire Equipment Company, Inc. or another approved service facility, at the option of Alexis Fire Equipment. Transportation cost to and from the servicing location is the responsibility of the user-purchaser.

The warranty shall be null and void if, upon inspection by the Company, the alleged defect is determined to have been caused by abuse, modification, accident, neglect, or lack of proper maintenance.

This warranty does not apply to the following items that are covered by a separate warranty: paint finish, hardware, door assemblies, moldings, and other accessories attached to the body. In addition, this warranty does not apply to any part or accessory manufactured by others and attached to the body.

Alexis Fire Equipment will be given a reasonable opportunity to investigate all claims. The purchaser must commence any action arising out of, based upon or relating to agreement or the breach hereof, within twelve (12) months from the date the cause of the action occurred.

Alexis Fire Equipment makes no other warranty, expressed or implied, with respect to the apparatus body and all implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed.

BODY SUB FRAME – STAINLESS STEEL:

The body sub frame system shall be designed for the emergency service application. The sub frame shall be independent of the chassis frame and is to be constructed of heavy structural material to provide the maximum strength and body support necessary for units utilized in emergency service. The system not only is used for total support designed to carry the total load of the apparatus; the system also allows the unit to be a complete lift off transferable apparatus once completed.

The system is designed to carry the emergency apparatus on the chassis main frame in a European style method. This method allows the apparatus body to float independently from the chassis frame ahead of the rear wheels and shall be rigidly attached behind the rear axle area.

The sub frame system shall be isolated from the chassis frame with a custom full length rubber extrusion that totally locks onto each chassis frame rail. This system isolates the body from the frame while also acting as a cushion between the two units.

The sub frame system shall be manufactured completely of 304 stainless steel material. The stainless steel sub frame shall incorporate 1 x 3 flat 304 stainless steel which shall run the full length of each chassis frame rail from the back of the cab to the end of the frame.

K-Bracing shall be incorporated into the system for strength and compartment support. Each K-Brace shall consist of a 3 x 3 x 7 gauge 304 stainless steel tubing to continue the total sub frame support.

The tank cradle shall be incorporated within the sub frame system to allow for a lower vertical center of gravity and to allow the water load weight to be supported by the sub frame system. The tank cradle shall incorporate the heavy sub frame and 7 gauge 304 stainless steel channel placed in accordance with the poly tank manufacturer's recommendations. Each channel is covered with a custom extruded rubber channel to prevent the water tank from chaffing with the stainless steel sub frame.

It is important to note all welds on the sub frame system shall be welded in methods that are sanctioned by ASME and SAE standards as to allow complete structural integrity as stipulated and shall also follow the guidelines set forth by the Alexis Standards.

ALUMINUM BODY PANELS:

The apparatus body panels shall be full height and independent of the tank's sides. The body panels shall be constructed of .190 thick 5052 aluminum material. The material shall be broke 2" over on all edges for added strength and attached to the wetside tank side mounting blocks with stainless steel fasteners. The panels shall be painted to match the lower body.

APPARATUS REAR PANEL:

The vertical surfaces at the rear, from the tailstep walkway to the top of the body, shall be manufactured of 14 gauge smooth stainless steel, in preparation for Chevron striping.

The rear of the tank shall remain poly material painted to match the body.

WHEEL HOUSING, PAINTED SMOOTH STAINLESS STEEL:

The rear wheel housing shall be constructed of painted 14 gauge stainless steel material. For ease of maintenance and repair, the wheel well area shall be of the bolted design.

WHEEL HOUSING TRIM:

The rear wheel housing shall incorporate a polished stainless steel fenderette.

WHEEL HOUSING INNER LINER:

The circular interliner shall be manufactured of 3/16" Tivar 1000 polymer material. The polymer material is a chemical and corrosion resistant material, thereby preventing excess wear and corrosion from occurring due to wintertime road chemicals. The polymer material shall be held in place by the use of polymer retainers or bolts for ease of repair and access to the wheel well area.

TAIL STEP:

The tail step shall be constructed of 12 gauge star punched stainless steel material. The material meets NFPA standard 13-7.3: all exterior surfaces have a minimum slip resistance of .68.

The tail step shall incorporate 45° tapered corners.

The tail step shall be 20" deep

REAR TOW EYES:

Two (2) ¾" thick steel tow eyes shall be securely fastened to the rear frame rails, one (1) each side. Each tow eye shall extend through the rear body panel

DUAL BOTTLE AIR BOTTLE COMPARTMENT(S):

Two (2) Model 101400-1X air bottle storage compartment(s) shall be located in the apparatus wheel well assemblies. For ease of access, each bottle shall be stored within an individual storage tube manufactured of poly material. Each individual storage tube shall be designed in a tear drop profile with flex-tube configuration for optimal abrasion-less storage.

The compartment shall incorporate a double bottle vertically hinged stainless steel door with a black push button latch. Each compartment shall have the capacity to carry two (2) air bottles.

LOCATION: One (1) Each Side Ahead of the Rear Wheels

COMPARTMENTATION:

COMPARTMENT DESIGN:

The compartmentation shall be fabricated of bolted 14 gauge 304 stainless steel walls and 12 gauge 304 stainless steel floors. The compartmentation is designed to be an intricate part of the body and subframe for maximum compartment support. The compartment tops shall be fabricated of smooth stainless steel material and shall meet the intent of the latest edition of NFPA 15.7 regarding stepping, standing, and walking surfaces. The material shall be formed over each compartment top to act as drip protection over each compartment opening. The compartment flooring will be sweep out design. The front and rear corners of the body shall remain natural finish #4 stainless steel. The material be full height and shall wrap around each corner to the compartment door frame.

The specified lighting in each compartment shall be switched automatically with the doors. The lighting shall meet the requirements of NFPA 13.10.5

NON-PAINTED ROLL-UP DOORS:

The compartments shall have ROM Series IV Roll-up Shutter Doors with a satin finish. The doors shall be made of an anodized aluminum slat incorporating an exclusive seal that prohibits water intrusion,

absorbs shock, eliminates clatter, and provides quiet, vibration-free performance. The lift bar shall be a D-shaped bar for strength and ease of use.

TALL BOTTOM RAIL:

Each ROM door shall incorporate a tall bottom rail for improved accessibility.

LEFT SIDE BODY SHALL BE AS FOLLOWS:

L1

A roll-up door compartment assembly with a door opening of 49" wide x 27" high x 25" deep shall be incorporated on the apparatus left side ahead of the rear wheels.

The compartment shall include the following:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

The shelf shall incorporate two (2) full width slots on the floor for the installation adjustable divider(s)

ROM DuroStrip V5 LED strip lighting to illuminate the entire area. The lights shall run the entire height of the compartment on each side of the door opening.

L2

A roll-up door compartment assembly with a door opening of 19" wide x 27" high x 25" deep shall be incorporated on the apparatus left side behind the rear wheels.

The compartment shall include the following:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

The shelf shall incorporate two (2) full width slots on the floor for the installation adjustable divider(s)

ROM DuroStrip V5 LED strip lighting to illuminate the entire area. The lights shall run the entire height of the compartment on each side of the door opening.



RIGHT SIDE BODY SHALL BE AS FOLLOWS:

R1

A roll-up door compartment assembly with a door opening of 49" wide x 27" high x 25" deep shall be incorporated on the apparatus right side ahead of the rear wheels.

The compartment shall include the following:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

The shelf shall incorporate two (2) full width slots on the floor for the installation adjustable divider(s)

ROM DuroStrip V5 LED strip lighting to illuminate the entire area. The lights shall run the entire height of the compartment on each side of the door opening.

R2

A roll-up door compartment assembly with a door opening of 19" wide x 27" high x 25" deep shall be incorporated on the apparatus right side behind the rear wheels.

The compartment shall include the following:

Unistrut Tracking

One (1) full depth adjustable shelf (ves)

The shelf shall incorporate two (2) full width slots on the floor for the installation adjustable divider(s)

ROM DuroStrip V5 LED strip lighting to illuminate the entire area. The lights shall run the entire height of the compartment on each side of the door opening.

FOL-DA-TANK STORAGE:

One (1) fol-da-tank storage area shall be provided on the top of the compartment on the specified side. The fol-da-tank shall lie between the top of the compartments and the bottom of the "T" cutout of the tank. The storage area will have an open top. Velcro straps shall be provided to retain the Fol-Da-Tank.

The tank storage area shall have a stop at the front and rear and shall be open on the sides.

Each bracket shall have the capacity for a 2100 gallon fol-da-tank.

LOCATION: Left Side

SUCTION HOSE STORAGE:

One (1) suction hose storage area shall be located on the specified side of the apparatus between the top of the compartment and the bottom of the "T" cutout of the tank. The suction hose storage will have an open top. The suction hose storage area shall have the capacity to carry two (2) 10' lengths of hard suction hose. Velcro straps shall be provided to retain the suction hose.

The suction hose storage area shall have a stop at the front and rear and shall be open on the sides.

LOCATION: Right Side

LADDER BRACKETS:

One (1) set of custom Alexis ladder brackets with chrome-plated retainers shall be installed on the right side of the apparatus, outboard of the suction hose storage. A retainer shall be included to hold the extension ladder in place with the roof ladder removed.

The ladders shall be mounted off the compartment top utilizing stainless steel material to provide a lower overall storage height for ease of access to the ladders.

ATTIC LADDER BRACKET:

One (1) attic ladder bracket shall be provided in the ladder storage area.

The ladder storage shall have the capacity to contain the following:

One (1) 24' 2-Section Ladder

One (1) 14' Roof Ladder with Hooks

One (1) 10' Attic Ladder



Two (2) Pike Pole(s)

LOCATION: Right Side

PIKE POLE TUBE:

Two (2) pike pole tube(s) shall be installed in the ladder storage compartment.

RUB RAILS:

Bolt on aluminum rub rails shall be installed, below the compartment doors. Said rub rails will be fabricated of a polished "C" channel aluminum, mounted to the body surface utilizing ¼" plastic spacers.

The rub rails shall incorporate the LED ground lights and LED lower warning lights. Each light strip shall run the full length of each rub rail.

The channel designed rub rail shall incorporate a highly reflective red and fluorescent yellow green reflective stripe to aid in apparatus protection.

DURATILE TILE ON FLOOR:

The floor of each main body compartment shall be covered with black Duratile Tile.

TANK:

WET SIDE WATER TANK:

The tank shall have a minimum capacity of 2000 US gallons complete with a lifetime warranty. The tank shall be of a specified configuration, and so designed to be completely independent of the compartment and/or fender modules. When placed on the chassis, the tank shall meet or exceed all federal DOT regulations regarding weight distribution, axle loading, and horizontal and vertical center of gravity locations.

TANK CONSTRUCTION:

The tank shall be constructed using a virgin polypropylene sheet with a minimum thickness of ¾". This material shall be a high impact co-polymer (HIC), non-corrosive stress relieved thermo-plastic and U.V. stabilized for maximum protection.

This material shall be referred to in the rest of this specification as "HIC polypropylene".

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

Care will be taken not to scratch the outer shell of the tank as the tank sides will be partially exposed in the finished product. All exposed corners shall be finish routed to eliminate sharp corners and to give the tank a neat appearance.

The tank shall incorporate two mounting blocks welded into the floor. These blocks will be designed to restrain the tank in the sub-frame. See the "Tank Sub-frame" section of this specification.

OUTLETS:

There will be a minimum of three (3) tank connections: one for the tank to pump suction line which will be a minimum 3" NPT coupling piped to the sump; one for a tank clean-out/drain which shall be a minimum 3" NPT coupling in the sump floor; and, one for a tank fill line which will be a minimum 2" NPT coupling. All tank fill couplings will be backed with flow deflectors to break up the stream of water entering the tank. All auxiliary outlets and inlets must meet the current NFPA recommended guidelines in effect at the time of manufacture.

SUMP:

There will be one (1) sump included with the tank which shall incorporate an anti-swirl device. The sump shall be constructed of HIC polypropylene and be located in the left front quarter of the tank.

MOUNTING:

A sub-frame weldment shall be provided to adequately support the tank, compartments and fender modules in their fully loaded and equipped condition. This sub-frame shall be constructed of the same material as the main body subframe. The design shall allow for proper interface between all body and fender modules as well as ample clearances for the tank. The design shall also consider cross member spacing as it relates to unsupported area under the tank, which shall not exceed 530 square inches. On tanks over 40" in height, an unsupported area of not more than 400 square inches must be maintained. All tanks shall be isolated from the cross member with a minimum of ¼" thick 60 durometer rubber strips. Although the tank is designed on the free-floating principle, the sub-frame must incorporate provisions for capturing the tank both front and rear as well as side-to-side to prevent shifting during vehicle operation. This shall be accomplished through the use of preformed stainless steel retainer brackets, one on each end of the tank bottom. These brackets shall encapsulate a cross member support as part of the sub-frame. The completed sub-frame shall be attached to the truck frame rails using a hard

non-metallic isolator between the frame rail and the sub-frame. Final clamping shall be accomplished through the use of heat treated U-bolts.

PLUMBING PROVISIONS:

The tank shall include two (2) 4" plates at the rear to accommodate tank fills.

FILL TOWER AND COVER:

The tank will have a manual fill tower with a 6" combination vent/overflow pipe. The fill tower will be constructed of HIC polypropylene and shall be large enough to provide filling by means of a conventional 2½" hose nozzle. The tower will be located at the front of the tank and will incorporate an anti-surge provision to minimize water surge during vehicle operation. A full width bulkhead will be provided to separate the fill tower from the balance of the hose bed. The tower will have a removable polypropylene screen and a polypropylene hinged type cover. The vent/overflow pipe shall run through the tank, and exit through the floor of the tank behind the rear axle to maximize traction.

The tank cover shall be constructed of HIC polypropylene with a minimum thickness of ½". It shall be of a flush bi-directional locking, design which allows for individual removal and inspection if necessary. Each one of the covers will have hold-downs which extend through the covers and will assist in keeping the covers rigid under fast filling conditions. An adequate lifting provision shall be provided which is capable of suspending the empty water tank with a safety factor of at least 2:1. The lifting dowel thread configuration must withstand a torque input of 80 ft/lbs.

HOSEBED:

There shall be a hosebed area constructed of HIC polypropylene on top of the tank consisting of two side walls and one front panel. This hosebed shall be welded to the outside perimeter of the tank cover. Drain holes shall be provided at the forward end of the hosebed in each corner.

The hose bed side walls shall be tapered at the rear to provide a pleasing appearance and provide better clearance for the fire station doors.

HOSEBED FLOOR:

The floor of the hosebed shall incorporate a channel system for improved air flow and to aid in the drainage of accumulated moisture on the floor, NO EXCEPTIONS.

LIGHT BOXES:

The side wall of the hosebed on each side shall incorporate light boxes for mounting of rear upper warning lights and rear/side scene lights. The light boxes shall be built-in, manufactured of the same material as the hosebed and tank, and paint to match the apparatus body, NO EXCEPTIONS.

The light box on each side shall be lowered from the top of the hosebed to provide a lower profile.

HOSE BED CAPACITY:

The hose bed shall have the capacity to carry the following hose from left to right:

Ten (10) 100' sections of 4" LDH Hose

HOSE BED COVER:

One (1) custom tailored hypalon hose bed cover shall be included with the apparatus body. It shall be manufactured of a flame retardant material with a grab tensile of 480 x 500 lbs. and a tongue tear of 160 x 150 lbs. It shall be crack resistant to -40° Fahrenheit and have an adhesion lbs./in of 10.0 lbs. The hose bed cover shall be fitted to the hose bed and retained with a double woven shock cord on the front and both sides. The shock cord shall system shall utilize nylon hooks spaced every 10"-12". The cover shall be sand weighted across the rear flap and shall also include two (2) 2" wide nylon straps with teflon buckle to meet NFPA requirements.

The hose bed cover shall include a 3 year warranty.

The hypalon cover shall be black in color.

The wetside tank shall remain natural finish, black in color.

TANK FILL - 2½":

One (1) 2½" NH tank fill connection shall be located at the rear of the apparatus. The assembly shall include a FirePrograms 4" Stainless Steel Fill Valve, Model 5001751, four-inch inside diameter internal check valve with appropriately sized hose connection. The assembly shall also include a ¾" quarter turn line drain. The tank fill shall incorporate a 4" x 2½" chrome adapter

The FirePrograms 4" Fill Valve is an internally mounted check-type fill valve, capable of flowing at a rate up to 1,000 GPM. The Fill Valve is available in a 4" Victaulic connection or 4" male NPT pipe thread connection for ease of installation. The Fill Valve is self-deflecting, requiring no additional diffusion device. The Fill Valve is constructed of 100% stainless steel avoiding the use of dissimilar metals. The spring actuated piston-type sealing mechanism minimizes seal wear and provides positive

sealing of the valve after shutting off the valve at the feed source. The device is designed to be self-cleaning utilizing a replaceable EPDM rubber gasket. Less than 6psi is required to open the valve.

Utilizing two stainless steel internal tank mounting plates, the 4-bolt Fill Valve mechanism is attached directly through the tank wall. The valve design is suitable for simple retrofit installation into existing water tanks.

LOCATION: Rear Left Side

TANK DUMP:

One (1) 10" x 10" square Newton stainless steel swivel dump Model 6012SW-34 with a flip up gate valve shall be installed. It shall include an over center safety lock. The valve shall be bolted to the tank with stainless steel bolts.

The dump shall incorporate a swivel allowing 180° rotation from left to right.

The dump shall be manually controlled from the dump location.

DUMP EXTENSION:

One (1) Newton 36" manually controlled stainless steel extension, model 4036-34, shall be installed on each dump.

The dump shall be located at the rear of the apparatus.

12 VOLT ELECTRICAL:

ELECTRICAL WARRANTY:

Alexis Fire Equipment Co., Inc. warrants each new piece of Alexis fire and rescue apparatus to be free from defects in material and workmanship under normal use and service. Our obligation under this warranty is limited to repairing or replacing, as the company may elect, any part or parts thereof which shall be returned to us with transportation charges prepaid, and as to which examination shall disclose to the company's satisfaction to have been defective, provided that such part, or parts shall be returned to us within seven (7) years or 50,000 miles after delivery of such vehicle. Such defective part or parts will be repaired or replaced free of charge and without charge for installation to the original purchaser.

Items specifically covered are:

- Electrical harnesses and harness installation

- Printed circuit board
- Switches, circuit breakers and relays

Items excluded are:

- Chassis electrical systems and components installed by chassis manufacturer
- Separately manufactured items installed by Alexis Fire Equipment including, but not limited to; batteries, sirens, battery chargers, inverters, lightbars and similar equipment. (These are covered by warranties supplied by the manufacturer of the components).
- Periodic tightening and cleaning of connection terminals as this is considered routine maintenance
- Normal wear, abuse, accident, negligence or un-approved alteration of original parts.

Should repairs become necessary under the terms of this warranty, the extent of that repair shall be determined solely by Alexis Fire Equipment and shall be performed solely by Alexis Fire Equipment or a repair facility designated by Alexis. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

Alexis Fire Equipment reserves the un-restricted right at any time to make changes in design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

12 VOLT ELECTRICAL SYSTEM:

Our electrical system is engineered to provide many years of dependable, trouble free service.

The 12 volt apparatus wiring shall be completely independent of the chassis electrical system. The system shall incorporate a state-of-the-art electrical distribution center. The center shall include a microprocessor, automatic reset circuit breakers, and switching relays.

The microprocessors are housed in a weather resistant enclosure. All processors are fully tested, and modern production processes guarantee long-term reliability in the most rigorous environments. The microprocessors handle the numerous switching functions without the excessive use of relays and the need for excess wiring.

The system can be expanded by adding additional processors and required components to meet desired specifications.

The weather tight modular service center shall be placed in a water-tight compartment in the apparatus body. The service center housing shall be manufactured of aluminum and shall incorporate an access door. Since the microprocessor is of weather resistant design and enclosed in the service center, the

electrical system has redundant protection against moisture and corrosion. Redundant protection from the elements dramatically improves reliability and durability.

Wiring harnesses shall be custom made for each truck. Each harness shall be encased in a split barrel, nylon type loom which will be moisture resistant and flame resistant to a minimum of 280° F. Loop outs shall be made at the harness factory utilizing sealed sonic weld technology instead of open-ended butt splicing. The harnesses shall feature Deutsch heavy duty all metal connectors.

Unlike terminal strips, binding post and other open-wiring systems, the Deutsch HD series is a completely sealed unit. The elimination of open wiring systems does away with contamination from moisture, dust, lubricating oils, road salt, and other environmental hazards encountered in heavy duty use. The connector shall provide a multiple keying system that positively prevents mis-mating and makes plug/receptacle coupling quick and easy. The modular harness system will allow for quick and efficient complete body transfer if needed.

An independent switching station shall be centrally located in the apparatus cab. The switches shall be of a rocker type illuminating design. Each switch shall be color coded, and include a description indicating its intended use. Each switch shall be removable for service and replacement. Each switch shall be rated at 10 amp at 250 volts AC and shall act as inputs for the microprocessor.

All electrical circuit feeder wiring supplied and installed by the apparatus manufacturer shall be stranded copper alloy conductors of a gauge rated to carry 125% of the maximum current for which the circuit is protected. Insulation shall be in accordance with SAE J1128, low tension primary cable, type SXL or GXL, and wired to SAE J1292, automobile, truck, truck-tractor, trailer and motor coach wiring, for such loading at the potential employed. Voltage drops in all wiring from the power source to the using device shall not exceed 10%. Overall covering of conductors shall be 280° F (143° C) minimum flame retardant, moisture resistant loom or braid. All connections shall be made with lugs or terminals mechanically secured to the conductors. Wiring shall be thoroughly secured in place and suitably protected against heat, oil, and physical damage. Wiring shall be color coded and printed with a circuit function code over each conductor's entire length.

Circuits shall be provided with properly rated low voltage over-current protective devices. Such devices shall be readily accessible and protected against excessive heat, physical damage and water spray, switches relays, terminals, and connectors shall have a direct current rating of 125% of maximum current for which the circuit is protected.

Wiring Diagrams: Two (2) destination effective wiring diagrams shall be furnished with the apparatus. The wiring diagrams shall incorporate notations to assist an individual with limited electrical experience in the service of the apparatus electrical system.

NOTE: All wiring and components shall meet or exceed current N.F.P.A. codes.

LOAD MANAGEMENT:

The 12 volt load management functions shall be incorporated within the microprocessor based 12 Volt electrical system without the need for a separate load manager.

12 VOLT DISTRIBUTION CENTER:

The 12 Volt distribution center shall be located in the L1 compartment on the front wall, behind an access panel. The access panel shall incorporate a laminated wiring diagram for ease of maintenance of the electrical system.

A 12 volt fan shall be provided in the distribution center to enhance the air flow around the electrical equipment. The fan shall be switched with the master switch.

ELECTRICAL SYSTEM PERFORMANCE TESTS:

The apparatus low voltage electrical system shall be tested and certified per the current NFPA standard. The certification shall be delivered to the purchaser with the apparatus.

DOCUMENTATION:

At the time of delivery, the manufacturer shall provide the following:

- (a) Documentation of the electrical system performance tests;
- (b) A written load analysis, including:
 - 1. The nameplate rating of the alternator;
 - 2. The alternator rating;
 - 3. Each component load comprising the minimum continuous load;
 - 4. Additional loads that, when added to the minimum continuous load, determine the total connected load;
 - 5. Each individual intermittent load.

BATTERY CHARGER/AIR COMPRESSOR:

One (1) Progressive Dynamics PD2140 battery charger shall be installed on the vehicle. The unit shall be located in the L1 compartment.

The PD2140 is a 40-amp Electronic Marine Converter/Charger capable of charging up to three separate banks of batteries at the same time. It incorporates a microprocessor that constantly monitors battery voltage, then automatically selects one of four operating modes to ensure safe, rapid recharging cycles. The Storage Mode and the Equalize Mode of operation ensures minimum battery gassing and water loss while preventing battery stratification and sulfation. All Inteli-Power chargers are designed to meet the stringent requirements of the Marine environment and are UL listed for safety. A digital meter displays current, voltage, operation mode, blown fuse indication, and battery type.

One (1) Viair Model 460C air compressor shall be installed on the vehicle. The air compressor is a fully automatic system which is powered from the chassis battery bank through the PD2140 charger system.

REMOTE DISPLAY:

A Blue Sea 1733 Mini digital display shall be supplied and installed adjacent to the shoreline connection. The display monitors DC voltage on a bright, waterproof, daylight readable OLED screen.

KUSSMAUL SUPER AUTO EJECT - 120V:

One (1) Kussmaul super auto eject Model 091-55-20-120 shall be installed on the apparatus. The super auto eject is a completely sealed automatic power line disconnect.

The Kussmaul mating connector supplied with the Auto Eject shall be shipped loose with the apparatus.

The Kussmaul Super Auto Eject shall incorporate a yellow weatherproof cover

The shoreline connection shall be located in the left front body post ahead of the L1 compartment.

MASTER SWITCH:

A 12 Volt Cole-Hersee Rotary switch shall be installed on the side of the floor mounted console. When in the OFF position, the master switch system shall isolate all electrical power from the apparatus. It shall not interrupt any primary battery/starter wiring originally furnished by the chassis manufacturer.

FLOOR MOUNTED CONSOLE FOR EMERGENCY SWITCHES:

One (1) 12 volt floor mounted console shall be installed in the apparatus. The console shall be manufactured of black textured composite material. The console shall incorporate the switch row and two (2) slots, one (1) for the electronic siren and one (1) slot for the radio.

MAP/BINDER STORAGE:

There shall be a stainless steel map/binder storage area incorporated into the console at the rear. The storage area shall incorporate one (1) divider, providing two (2) slots for map/binder storage.

RADIO PROVISIONS:

One (1) customer supplied single head radio provision shall be provided in the chassis cab. The cutout shall accommodate the radio make and model specified and shall include a bezel specific to the radio specified.

RADIO WIRING:

Radio wiring shall be provided for the customer supplied and installed radio. The wiring shall include power and ground leads, battery direct and master switched.

ANTENNA:

One (1) Alexis Fire Equipment supplied antenna base, for use with an NMO type antenna, shall be mounted on the cab roof. The antenna base shall be a Motorola base designed for either thick or thin roof material as appropriate for the application and shall include a custom length of RG58 A/U cable with no connector at the radio end of the cable. The cable shall terminate at the center console area.

The radio make and model shall be: _____

TIRE PRESSURE MONITORING DEVICE:

One (1) set of Real Wheels LED Air Guard tire pressure indicators shall be shipped loose with the completed apparatus. Features and benefits of the LED Air Guards include

- Safety – Improper tire pressure has a detrimental effect on handling, braking and control.
- Longer Tire Life – According to the D.O.T., 95% of all premature tire wear is caused by underinflation.
- Self-calibrating – LED AirGuard Set & Go memorizes pressure when initially installed and can be easily recalibrated by simply removing and reinstalling.
- Improved Fuel Economy – Proper tire inflation can save an estimated 3% to 5% in fuel costs.
- Battery Standby Time is 2 Years from the date stamped on the LED Air Guard

OPTICAL WARNING SYSTEM:

The optical warning system on the fire apparatus shall be capable of two separate signaling modes

during emergency operations. One mode shall signal to drivers and pedestrians that the apparatus is responding to an emergency and is calling for the right-of-way. The other mode shall signal that the apparatus is stopped and is blocking the right-of-way.

EMERGENCY WARNING LIGHTS:

For the purpose of defining and measuring the required optical performance, the apparatus shall be divided into four warning zones. The four zones shall be determined by drawing lines through the geometric center of the apparatus at 45° to a line lengthwise of the apparatus through the geometric center. The four zones shall be designated A, B, C, and D in a clockwise direction with zone A to the front of the apparatus. Each zone shall have an upper and lower warning level.

Effective coverage of all four zones, both upper and lower, as required by the latest NFPA Edition shall be provided.

LED LIGHTBAR:

One (1) Whelen Model F4N2VLED 55" LED lightbar shall be mounted on the cab roof. The lightbar shall be switched from the in cab switch panel. This lightbar fills the requirements of Zone A Upper, Zone B Upper, and Zone D Upper.

The light bar shall feature four (4) corner red LED modules, two (2) forward facing red LED modules, and two (2) forward facing clear LED Modules.

The clear modules shall extinguish when blocking the right of way per NFPA. A stinger switch shall also be provided for control of the white lights in inclement weather.

WARNING LIGHTS (FRONT):

Two (2) Tecniq Model K60-R*00-1 Red LED warning lights shall be mounted on the front cab face, one (1) on each side. These lights shall be switched from the in cab switch panel. These lights fill the requirements of Zone A Lower.

Each light shall be mounted utilizing a chrome plated flange.

Each light shall incorporate a colored lens.

WARNING LIGHTS (SIDE):

One (1) Tecniq Model K60-R*00-1 Red LED warning light shall be mounted on the right (officer's) side



of the cab. The light shall be switched from the in cab switch panel. The light fills the requirements of Zone B Lower.

One (1) Tecniq Model K60-R*00-1 Red LED warning light shall be mounted on the left (driver's) side of the cab. The light shall be switched from the in cab switch panel. The light fills the requirements of Zone D Lower.

The rub rails on each side of the body shall incorporate integral outward facing Red LED strip lights. In addition to the Red LED strip light, the rub rail on each side ahead of the rear wheels shall incorporate one (1) TecNiq E03-D001-1 LED light. These lights shall be switched from the in cab switch panel.

In addition to the Tecniq Red Eon LED light in the rub rail ahead of the rear wheels on each side, one (1) additional Tecniq Red Eon LED light shall be provided in the rub rail behind the rear wheels on each side. These lights shall be switched from the in cab switch panel.

Each cab side light shall be mounted utilizing a chrome plated flange.

Each light shall incorporate a colored lens.

WARNING LIGHTS (SIDE):

One (1) Tecniq Model K90-R*00-1 Red LED warning light shall be mounted on the right (officer's) side of the vehicle in the upper area. The light shall be switched from the in cab switch panel.

One (1) Tecniq Model K90-R*00-1 Red LED warning light shall be mounted on the left (driver's) side of the vehicle in the upper area. The light shall be switched from the in cab switch panel.

These lights fill the requirements of Zones B & D Upper.

Each light shall be mounted utilizing a chrome plated flange.

Each light shall incorporate a colored lens.

WARNING LIGHTS (REAR UPPER):

Two (2) Tecniq Model K90-R*00-1 Red LED lights shall be mounted on the rear of the vehicle, in the upper area. The lights shall be switched from the in cab switch panel. These lights fill the requirements of Zone C Upper.



Each light shall be mounted utilizing a chrome plated flange.

Each light shall incorporate a colored lens.

WARNING LIGHTS (REAR):

Two (2) Tecniq Model K60-R*00-1 Red LED warning lights shall be mounted on the lower rear area of the vehicle. These lights shall be switched from the in cab switch panel. These lights fill the requirements of Zone C Lower.

Each light shall be mounted utilizing a chrome plated flange.

Each light shall incorporate a colored lens.

REAR DRIVING SIGNALS:

The rear driving signals shall consist of two (2) Code 3 7X9STTRBZ LED lights, one (1) each side of the apparatus at the rear. The 7X9 LED lights shall incorporate red brake/tail, amber turn, and white backup in a single light head. The mounting shall include a chrome bezel.

ELECTRONIC SIREN:

One (1) Whelen Model 295SLSA1 siren shall be installed in the apparatus. The siren shall be mounted in the cab and shall include a noise-canceling microphone.

SIREN SPEAKER:

One (1) Whelen Model SA315 100 watt siren speaker shall be installed in the apparatus bumper.

BACKUP ALARM:

One (1) 12 volt electronic backup alarm shall be incorporated on the apparatus. The backup alarm shall be a minimum of 97db and switched with the backup light circuitry.

TURN SIGNALS-MIDSHIP:

One (1) S34 Series amber LED midship turn light shall be mounted on each side of the apparatus ahead of the rear wheels.

ICC LIGHTING:



Tecniq S34 Series LED Clearance lights shall be installed on the apparatus. They shall be hermetically sealed cartridge lights for ease of service and durability.

LED REAR LICENSE PLATE BRACKET:

There shall be a Cast Products LED license plate bracket provided at the rear of the apparatus.

ENGINE COMPARTMENT LIGHT:

The engine compartment shall incorporate one (1) E10 Series LED light. The light shall be switched with the pump panel lights.

PUMP COMPARTMENT LIGHT:

One (1) 5" T44 Series LED light shall be installed in the pump compartment. The light shall be switched with pump panel lights.

HAZARD LIGHT:

A red, LED flashing light located in the driving compartment shall be illuminated automatically whenever the apparatus parking brake is not fully engaged and any passenger or equipment compartment door is open, any ladder or equipment rack is not in the stowed position, a stabilizer system is deployed, a powered light tower is extended, or any other device is opened, extended, or deployed that creates a hazard or is likely to cause damage to the apparatus if the apparatus is moved. The light shall be marked "Do Not Move Apparatus When Light Is On".

LED COURTESY LIGHTS (UNDER CARRIAGE LIGHTING):

One (1) 5" 12-volt T44 Series LED light shall be located under each cab door and one (1) shall be located below the rear tail step in the center. All ground area lighting shall be controlled by the master switch and shall be switched with the parking brake.

In addition to the 5" lights, clear LED strip lights shall be provided integral to the rub rails on each side. The strip lights shall face downward and be activated with the balance of the undercarriage lighting.

LED TAILBOARD COURTESY LIGHTS:

Two (2) S34 Series LED courtesy lights shall be mounted one (1) each side low on the rear panel. The lights shall illuminate the rear tailboard. They shall be switched with the parking brake.



LED RUNNING BOARD COURTESY LIGHTS:

One (1) S34 Series LED courtesy light shall be mounted on each side low on the front of the body. Each light shall illuminate the running board area. The lights shall be switched with the parking brake.

FIRETECH 12-VOLT LED SCENE LIGHT(S):

Two (2) FireTech FT-MB-2.36-FT-* 40" Double Stack 38,016 lumen LED bar scene light(s) shall be mounted in the specified location(s). The lights shall be switched from the in-cab switching station.

Each Firetech Hi Viz scene light bar shall be surface mounted on the top of the body in the specified location.

Each Firetech Hi-Viz scene light shall be white in color.

SIDE SCENE LIGHT LOCATION(S): One (1) Each Side

SCENE LIGHTS:

Two (2) LED scene light(s), Model K90-SW00-1 with 5000 lumen output, shall be mounted at the specified location(s). Each scene light shall be switched from the cab console.

Each light shall be mounted utilizing a chrome plated flange.

SIDE SCENE LIGHT LOCATION(S): One (1) Each Side

HOSEBED STRIP LIGHTING - LED:

Two (2) E45 Series LED Strip lights shall be provided at the front of the apparatus hose bed. The lights shall be switched with the parking brake.

12 VOLT BROW LIGHT - LED:

One (1) 21" FireTech Model FT-MB-2.18-FT-* 19,008 lumen LED light bar shall be mounted above the center of the windshield. The light shall be switched from the in-cab switching console.

Each Firetech Hi-Viz scene light shall be white in color.

BACK-UP CAMERA:

There shall be one (1) RV Cams Voyager Color Observation back-up camera system installed on the apparatus. The system includes one (1) 7" mirror mount color video monitor, color camera, three (3) camera input receiver, and camera cable.

The camera shall feature one-way audio from the rear of the apparatus to the cab.

BRACKETING:

LED LIGHTED FOLDING STEP(S):

Four (4) IC dual LED lighted large folding step(s) shall be furnished on the apparatus. Each step shall feature a light for the stepping surface and a down facing light below the step. The step lights shall be switched with the park brake.

Each step shall be mounted in the specified location.

Each folding step shall have a chrome finish

LOCATION: _____

GRAB HANDLES:

Two (2) 18" knurled bright stainless steel 1¼" O.D. grab rails shall be installed vertically at the rear of the apparatus.

Each grab handle shall have a natural stainless steel finish

GRAB HANDLE:

One (1) 48" knurled bright stainless steel 1¼" O.D. grab rail shall be installed horizontally below the apparatus hose bed.

Each grab handle shall have a natural stainless steel finish

GRAB HANDLES:

Two (2) 1¼" o.d. 12" knurled bright stainless steel grab handle(s) shall be provided.

Each grab handle shall have a natural stainless steel finish

LOCATION: Rear Upper

WHEEL CHOCKS:

One (1) pair of Worden Safety Model WC2556A one-piece rubber wheel chocks shall be provided with the apparatus. Each chock features a molded in grab handle, an elbow fixture for rope or chain attachment, and utilizes a very sticky live rubber to ensure high coefficient of friction.

FINISH:

APPARATUS BODY FINISH:

The final finish of the apparatus shall conform to fire apparatus standards, exhibiting excellent gloss durability and color retention properties.

PREPARATION:

Since the removal of all contaminates and oxidation is essential to the final effect of a finish system, the apparatus shall be pre-cleaned with wax and grease remover and towel dried prior to evaporation.

A 10-step standard body preparation shall be completed.

When the substrate is prepared, the entire body shall be cleaned by washing again with wax and grease remover and towel dried.

PRETREAT AND PRIMERS:

The pretreat and primer applications shall be made in two (2) independent steps. A application of a combined pretreat/primer product will not be allowed as a substitute.

The prepared substrate shall be pretreated with Acid Curing 2 Component Transparent Primer. This pretreat shall be designed to provide corrosion protection and to create an adhesive bond between the substrate and the surface applications.

To enhance adhesion and top coat gloss, a 2 component epoxy primer shall be applied.

All the primed surfaces shall be sanded smooth, thus removing all texture and surface imperfections and creating a finish base that will meet the rigid requirements of the fire and emergency services.



TOP COATS:

Two (2) coats (0.5 - 2.0 mils) urethane base coat shall be applied in a professional manner. After the base coats have cured properly, two (2) coats of a high solids urethane clear coat shall be applied.

All surface imperfections shall be removed by buffing and polishing.

PAINT WARRANTY:

The apparatus shall be covered by a ten -(10) year paint warranty. Following are the covered defects and exclusions.

Covered Defects shall include only the following list of defects:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking or hazing.

Defects resulting from the following conditions are excluded from the Warranty:

- Hazing, chalking or loss of gloss caused by improper care, abrasive polishes, cleaning agents, heavy-duty pressure washing, or aggressive mechanical wash systems
- Rock chips are not covered under this warranty.
- Paint deteriorating caused by abuse, scratches, chips, gloss reduction, accidents, acid rain, chemical fallout or acts of nature
- Claims presented without proper Warranty documentation
- Failure on finishes performed by Non-PPG Commercial Certified Technicians
- Failures on finishes due to inadequate film builds
- Failures due to improper cleaning or surface preparation or failure to follow the product use instructions

COMPARTMENT INTERIOR FINISH:

The interior of the compartments shall be natural finish stainless steel

APPARATUS COLOR:

The color of the apparatus shall be as follows:

COLOR: _____



CAB LETTERING:

Vinyl lettering as described below shall be applied to the chassis cab door, one (1) each side. Each letter shall be 2½" to 3½" high and hand applied.

Vinyl letters/numbers shall be applied to the chassis cab fender area, one (1) each side. Each letter/number shall be 2½" to 3½" high and hand applied.

The lettering vinyl style shall be simulated gold leaf.

The lettering font style shall be Eurostile Bold.

The lettering font highlight type shall be shadow.

LAMINATION WARRANTY:

The apparatus shall be covered by a three (3) year warranty against defects in material and workmanship with the graphics process

REFLECTIVE STRIPING:

The finished apparatus shall be striped with 6" reflective Scotchlite striping.

The reflective striping shall be white in color.

REFLECTIVE STRIPING IN THE CAB:

Two-inch red and white striped retro-reflective material shall be placed on the inside of each opening cab door. The material will be at least 96 square inches, meeting current NFPA standards.

DIAMOND GRADE CHEVRON STRIPING:

The rear of the apparatus shall be striped with Diamond Grade retro-reflective striping. The striping shall be applied in a chevron pattern sloping downward and away from the centerline of the apparatus at a 45° angle. The Chevron striping shall be applied in the following locations: all vertical surfaces at the rear, from the tail step to the top of the body

The striping shall be single color alternating between red #3992 and fluorescent yellow-green #3983.



EQUIPMENT:

One (1) bottle of touch up paint for each color on the apparatus

One (1) bag of hardware - nuts, bolts, drill, and tap.

One (1) Duo-Safety #10-585A aluminum folding 10' attic ladder(s).

One (1) Duo-Safety 14-775A, 14' Roof Ladder(s) with hooks.

One (1) Duo-Safety #24-900A, 24' 2 Section ground ladder(s).

Two (2) 10' Length(s) of 6" diameter hard suction hose, coupled 6" LHF x 6" RLM. (Not rated for hydrants)

NFPA EQUIPMENT CLARIFICATION:

Any equipment specified in the “Minor Equipment” section (e.g. hose, nozzles, adapters, AED, traffic cones, traffic safety vests, etc.) of NFPA 1901 for each apparatus classification (see below) which is not specified in this proposal shall be considered to be customer supplied and installed.

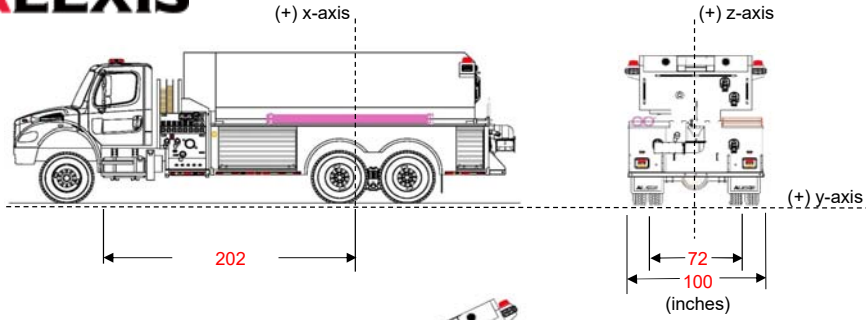
Apparatus Type	NFPA Section
Pumper	5.8
Initial Attack	6.7
Mobile Water Supply	7.7
Aerial	8.8
Quint	9.8
Special Service	10.5
Mobile Foam	11.9

VERTICAL CENTER OF GRAVITY / WEIGHT DISTRIBUTION

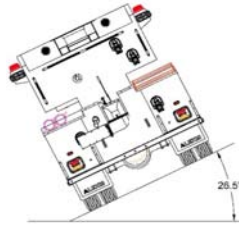
DWG NO. T-N13

4/1/2024

ALEXIS



Contract No: **2632**
 Proposal Name: **Alexis Fire Equip**
 Calculated By: **M. Tinkham**
 Revision:
 Type of Chassis: **Freightliner 114SD+ 2-dr**
 Type of Pump: **Waterous CXVC20 1500gp**
 Cab to Axle: **136.4**
 Tank Capacity: **2000** Water
10 Foam



Item	Weight (lbs)	Coordinates Local C.G. (in)			% Rear	Weight (lbs)		% Left	Right	Left
		z	x	y		Front	Rear			
Chassis	13976	0	129	42	36%	8911	5065	50%	6988	6988
Poly Tank (w/water)	18600	0	19.9	83.9	90%	1832	16768	50%	9300	9300
Officer & Driver	500	0	156.8	69	22%	388	112	50%	250	250
Men & Equip.	0	0	0	0	0%	0	0	0%	0	0
Body Module	1488	0	16	42.8125	92%	118	1370	50%	744	744
Subframe	1657	0	3.63	36.3	98%	30	1627	50%	829	829
Add. Equip. front	1391	0.00	57.5	43	72%	396	995	50%	695	695
Add. Equip. rear	609	0.00	-43	43	121%	-130	739	50%	305	305
Hose bed	1000	0	8	114.75	96%	40	960	50%	500	500
Pump module	1173	0	111	65.74	45%	645	528	50%	587	587
Pump	1356	0	111.35	49.3	45%	747	609	50%	678	678
Folding Tank	165	-34.7	16	67.6	92%	13	152	67%	54	111
Suction Hose	120	30	17	68	92%	10	110	35%	78	42
Ladders	190	50.6	16	75	92%	15	175	25%	143	47
Dump	200	0	-69.5	52.4	134%	-69	269	50%	100	100
					0%			0%		
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					0%			0%		
					0%			0%		
					0%			0%		
					0%			0%		
					0%			0%		
Total	42424.73	Global Center of Gravity				12946	29478		21250	21175
GAWR	47000	z	x	y		16000	31000			
Load as % of Total	100%	0.2	61.6	63.5		31%	69%		50%	50%
						OK	OK		TRUE	
Truck Tipping Angle:	29 degrees (Full Water Tank)	OK								
Maximum vertical center of gravity "z" =	57.60						SC			
	(Maximum "z" is 80% of the rear axle track width)									



HOSE CAPACITIES

DWG NO.

T-N13

4/1/2024

Customer Alexis Fire Equip
 Calculated By M. Tinkham

Contract No. 2632
 Rev. No. 0

HOSE BED				Hose				
Length	92	127		Size	4			
Width	50	32		Amount	1000			
Height	13	13		DF	58	0	0	0
Cu. Ft.	34.61	30.57		Cu. Ft.	33.56	0.00	0.00	0.00
Total			65.18	Total				33.56
				Need				36.92

MATTYDALES				Hose			
Length	73	73	73	Size	2 1/2	1 3/4	1 3/4
Width	9.5	7	7	Amount	150	200	200
Height	14	14	14	DF	41	26	26
Cu. Ft.	5.62	4.14	4.14	Cu. Ft.	3.56	3.01	3.01
Total			13.90	Total			9.58

CARTRIDGE LAYS				Hose			
Length				Size			
Width				Amount			
Height				DF	0	0	0
Cu. Ft.	0.00	0.00	0.00	Cu. Ft.	0.00	0.00	0.00
Total			0.00	Total			0.00

HOSE TRAYS				Hose			
Length				Size			
Width				Amount			
Height				DF	0	0	0
Cu. Ft.	0.00	0.00	0.00	Cu. Ft.	0.00	0.00	0.00
Total			0.00	Total			0.00

HOSE WELLS				Hose			
Length				Size			
Width				Amount			
Height				DF	0	0	0
Cu. Ft.	0.00	0.00	0.00	Cu. Ft.	0.00	0.00	0.00
Total			0.00	Total			0.00

Standard Hose Dimensions per NFPA (2003 Edition)

1 3/4" lays 3 1/4" wide	DF=	26	1" FORESTRY lays 1 3/4" wide	DF=	10
2" (ANGUS) lays 3 3/4" wide	DF=	32	1 1/2" FORESTRY 2 1/2" wide	DF=	14
2 1/2" lays 4 1/2" wide	DF=	41			
3" lays 5 1/4" wide	DF=	50			
4" lays 6 1/2" wide	DF=	58			
5" lays 8" wide - Angus	DF=	96			
5" lays 8-1/2" wide - Cotton	DF=	102			
6" lays 9 1/2" wide	DF=	108			



DWG NO. T-N13
4/1/2024

Customer: Alexis Fire Equip
Calculated By: M. Tinkham

	Width	Height	Depth	Cubic Feet
L1	56.9250	32.0000	26.0000	27.4083
L2	24.9250	32.0000	26.0000	12.0009
R1	56.9250	32.0000	26.0000	27.4083
R2	24.9250	32.0000	26.0000	12.0009

TOTAL in CUBIC FT. 78.82

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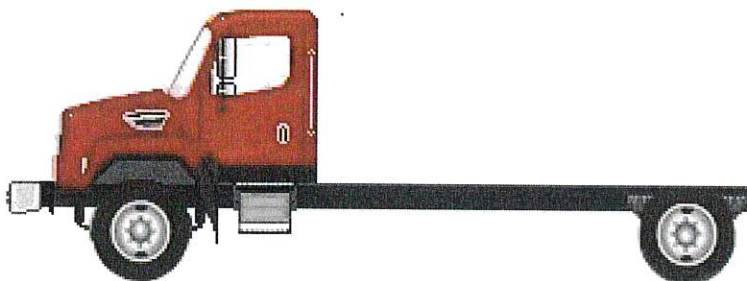
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A proposal for
ALEXIS FIRE EQUIPMENT CO (BB)
For Alexis Stock SA
MY2025
Internal Draft # 1

Prepared by
TRANSHICAGO TRUCK GROUP
Duane Schaefer

Feb 16, 2024

Freightliner 114SD Plus



Components shown may not reflect all spec'd options and are not to scale

Application Version 11.9.502
Stock MY25 114SD L9 RC SA 24 JAN



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Freightliner reserves the right to change specifications, prices, and weights, without notice.

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S P E C I F I C A T I O N P R O P O S A L

Data Code	Description	Weight Front	Weight Rear	Retail Price
Price Level				
PRL-28D	SD PRL-28D (EFF:MY25 ORDERS)			STD
Data Version				
DRL-030	SPECPRO21 DATA RELEASE VER 030			N/C
Vehicle Configuration				
001-177	114SD PLUS CONVENTIONAL CHASSIS	7,934	6,476	\$169,624.00
004-225	2025 MODEL YEAR SPECIFIED			STD
002-004	SET BACK AXLE - TRUCK	480	-480	(\$2,235.00)
019-004	STRAIGHT TRUCK PROVISION, NON-TOWING			STD
003-001	LH PRIMARY STEERING LOCATION			STD
General Service				
AA1-002	TRUCK CONFIGURATION			STD
AA6-001	DOMICILED, USA 50 STATES (INCLUDING CALIFORNIA AND CARB OPT-IN STATES)			STD
99D-020	EPA EMISSIONS CERTIFICATION FOR 50 STATE REGISTRATION - CARB EXEMPT, FIRE AND EMERGENCY VEHICLES ONLY (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD OF DRIVER DOOR)			N/C
AF2-998	NONE			N/C
A85-020	FIRE SERVICE			N/C
A84-1EV	EMERGENCY VEHICLES BUSINESS SEGMENT			N/C
AA4-002	LIQUID BULK COMMODITY			N/C
AA5-002	TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS			STD
AB1-008	MAXIMUM 8% EXPECTED GRADE			STD
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE			STD
995-1AE	FREIGHTLINER LEVEL II WARRANTY			N/C
A66-99D	EXPECTED FRONT AXLE(S) LOAD : 16000.0 lbs			

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Data Code	Description	Weight Front	Weight Rear	Retail Price
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD : 31000.0 lbs			
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 47000.0 lbs			

Truck Service

AA3-027	FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP			N/C
A88-99D	EXPECTED TRUCK BODY LENGTH : 18.0 ft			
AF3-529	ALEXIS FIRE EQUIPMENT COMPANY			N/C
RTK-1AA	APPROVAL TO SHARE SPEC WITH TEM			N/C

Engine

101-3B4	CUM L9 450EV HP @ 2100 RPM; 2200 GOV RPM, 1250 LB-FT @ 1200 RPM, R/F/E	-850	-70	(\$3,845.00)
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Electronic Parameters

79A-068	68 MPH ROAD SPEED LIMIT			N/C
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT			N/C
79K-002	PTO MODE ENGINE RPM LIMIT - 700 RPM			N/C
79M-001	PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED			N/C
79Q-002	PTO RPM WITH CRUISE RESUME SWITCH - 700 RPM			N/C
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH			N/C
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND			N/C
79W-001	ONE TEM PTO SPEED			N/C
79X-001	PTO SPEED 1 SETTING - 700 RPM			N/C
80G-002	PTO MINIMUM RPM - 700			N/C
80J-002	REGEN INHIBIT SPEED THRESHOLD - 5 MPH			N/C
80S-018	PTO 1, WITH SWITCH, TEM SUPPLIED REQUEST AND INTERLOCKS, WITH PTO CONNECTIONS, NO FACTORY INTERLOCKS			N/C

Engine Equipment

99C-024	EPA 2010/GHG 2024 CONFIGURATION			STD
13E-001	STANDARD OIL PAN			STD
105-001	ENGINE MOUNTED OIL CHECK AND FILL			STD
014-1BX	SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER			\$61.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
124-113	LN 12V 325 AMP BLP4002H BRUSHLESS PAD ALTERNATOR WITH REMOTE SENSE AND LAMP TERMINAL	10		\$1,008.00
292-235	(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES	-50	-10	(\$106.00)
290-017	BATTERY BOX FRAME MOUNTED			STD
281-001	STANDARD BATTERY JUMPERS			STD
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB			\$18.00
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN			STD
289-001	NON-POLISHED BATTERY BOX COVER			STD
293-058	POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT	2		\$206.00
295-029	POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON FRAME NEXT TO STARTER	2		\$88.00
306-015	PROGRESSIVE LOW VOLTAGE DISCONNECT AT 12.3 VOLTS FOR DESIGNATED CIRCUITS			STD
107-032	CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE			N/C
152-039	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING			N/C
128-076	CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF	20		N/C
016-1DC	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES	10	5	\$193.00
28F-015	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER AND DASH MOUNTED INHIBIT SWITCH			N/C
239-001	STANDARD EXHAUST SYSTEM LENGTH			STD
237-022	RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES	20	20	N/C
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK	-35	-10	N/C
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL			(\$17.00)
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING			STD
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION			STD
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
273-058	AIR POWERED ON/OFF ENGINE FAN CLUTCH			STD
276-001	AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON ENGINE MOUNTED			STD
110-003	CUMMINS SPIN ON FUEL FILTER			N/C
118-008	COMBINATION FULL FLOW/BYPASS OIL FILTER			N/C
266-017	1300 SQUARE INCH ALUMINUM RADIATOR	-50		N/C
103-039	ANTIFREEZE TO -34F, OAT (NITRITE AND SILICATE FREE) EXTENDED LIFE COOLANT			STD
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT			STD
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES			STD
270-016	RADIATOR DRAIN VALVE			N/C
132-004	ELECTRIC GRID AIR INTAKE WARMER			N/C
155-058	DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH	-35		N/C

Transmission

342-1KD	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION			\$2,636.00
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Transmission Equipment

343-331	ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS			N/C
84B-003	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES			N/C
84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			STD
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			STD
84E-013	S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84F-012	S1 PERFORMANCE SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY			N/C
84G-014	2200 RPM PRIMARY MODE SHIFT SPEED			N/C
84H-014	2200 RPM SECONDARY MODE SHIFT SPEED			N/C
84K-002	2ND GEAR ENGINE BRAKE ALTERNATE PRESELECT WITH MODERATE DOWNSHIFT STRATEGY			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED			STD
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES			STD
84V-001	DIRECTION CHANGE ENABLED WITH MULTIPLEXED SERVICE BRAKES - ALLISON 5TH GEN TRANSMISSIONS			STD
353-075	QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH CAP			\$200.00
34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR			\$125.00
362-818	CUSTOMER INSTALLED CHELSEA 870 SERIES PTO			N/C
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON			N/C
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN			STD
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED			\$254.00
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013			STD
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK	-15		N/C
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK			STD
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)			STD

Front Axle and Equipment

400-1A9	DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE	190		\$1,865.00
402-030	MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10		N/C
403-026	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING			\$45.00
419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS			STD
409-006	FRONT OIL SEALS			STD
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL			STD
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES			STD
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS			STD
406-001	STANDARD KING PIN BUSHINGS			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
536-012	TRW TAS-85 POWER STEERING	40		N/C
539-003	POWER STEERING PUMP			STD
534-003	4 QUART POWER STEERING RESERVOIR	5		\$48.00
40T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE			\$17.00
Front Suspension				
620-004	16,000# FLAT LEAF FRONT SUSPENSION	260		\$689.00
619-004	GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION			N/C
62H-010	FRONT SUSPENSION WITH LEFT HAND OFFSET SHACKLE BRACKET	4		\$79.00
410-001	FRONT SHOCK ABSORBERS			\$121.00
Rear Axle and Equipment				
420-064	CUMMINS-MERITOR RS-30-185 31,000# U-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE		-2,060	(\$2,654.00)
421-538	5.38 REAR AXLE RATIO			N/C
424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING			STD
386-046	SPL140HD DANA SPICER MAIN DRIVELINE WITH HALF ROUND YOKES	25	25	\$134.00
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE		20	\$734.00
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE			N/C
87B-024	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH, ENGAGE AT SPEEDS 5 MPH OR LESS, DISENGAGE W/IGN OFF OR SPEEDS EXCEEDING 25 MPH			N/C
423-010	MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES		20	N/C
433-025	FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING			\$133.00
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)			N/C
451-018	WEBB CAST IRON REAR BRAKE DRUMS		100	N/C
440-006	REAR OIL SEALS			STD
426-1B2	BENDIX EVERSURE LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS		-20	\$25.00
428-031	HALDEX AUTOMATIC REAR SLACK ADJUSTERS WITH STAINLESS STEEL CLEVIS PINS			\$53.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE			N/C
42T-001	STANDARD REAR AXLE BREATHER(S)			STD
Rear Suspension				
622-1DG	31,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD FOR FIRE/EMERGENCY SERVICE		140	(\$1,332.00)
621-004	SPRING SUSPENSION - 1.50" AXLE SPACER		10	\$110.00
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP			STD
623-005	FORE/AFT CONTROL RODS			N/C
Pusher / Tag Equipment				
429-998	NO PUSHER/TAG BRAKE DUST SHIELDS			STD
Brake System				
490-1AU	WABCO 4S/4M ABS WITH TRACTION CONTROL WITH ATC SHUT OFF SWITCH			\$232.00
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES			STD
904-001	FIBER BRAID PARKING BRAKE HOSE			STD
412-001	STANDARD BRAKE SYSTEM VALVES			STD
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM			STD
413-002	STD U.S. FRONT BRAKE VALVE			STD
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE			STD
480-086	BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER			\$2.00
479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL			N/C
460-1AU	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION, NO TRIPLE OR TORPEDO TANKS			\$16.00
477-001	PULL CABLE ON WET TANK, PETCOCK DRAIN VALVES ON ALL OTHER AIR TANKS			STD
Trailer Connections				
481-998	NO TRAILER AIR HOSE			STD
476-998	NO AIR HOSE HANGER			STD
310-998	NO TRAILER ELECTRICAL CABLE			STD
Wheelbase & Frame				
545-512	5125MM (202 INCH) WHEELBASE			N/C



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Data Code	Description	Weight Front	Weight Rear	Retail Price
546-102	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI	410	130	\$720.00
547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	200	390	\$1,500.00
552-012	1450MM (57 INCH) REAR FRAME OVERHANG			N/C
55W-005	FRAME OVERHANG RANGE: 51 INCH TO 60 INCH	20	-80	N/C
549-036	12 INCH INTEGRAL FRONT FRAME EXTENSION	80	-10	\$639.00
AC8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 136.22 in			
AE8-99D	CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 133.22 in			
AE4-99D	CALC'D FRAME LENGTH - OVERALL : 316.46 in			
FSS-0LH	CALCULATED FRAME SPACE LH SIDE : 99.54 in			N/C
FSS-0RH	CALCULATED FRAME SPACE RH SIDE : 103.6 in			N/C
553-001	SQUARE END OF FRAME			STD
550-001	FRONT CLOSING CROSSMEMBER			STD
559-001	STANDARD WEIGHT ENGINE CROSSMEMBER			STD
562-001	STANDARD MIDSHIP #1 CROSSMEMBER(S)			STD
572-001	STANDARD REARMOST CROSSMEMBER			STD
565-001	STANDARD SUSPENSION CROSSMEMBER			STD

Chassis Equipment

556-1E6	14 INCH CHROMED STEEL BUMPER			\$603.00
574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE			STD
585-998	NO MUDFLAP BRACKETS			STD
590-998	NO REAR MUDFLAPS			STD
551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS			STD
44Z-002	EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE			STD
605-103	D15-28195-000 CENTER PUNCH TO MARK CENTERLINE OF REAR SUSPENSION ON TOP FLANGE OF FRAME			\$32.00
* 601-020	3D STEP VEHICLE MODEL STEFAN TUSZNSKI STEFANT@ALEXISFIRE.COM			\$300.00
970-040	TANK BODY 3001 TO 4500 GALLONS			N/C
607-043	CLEAR FRAME RAILS 48 INCHES FROM BACK OF CAB INSIDE/OUTBOARD AND BELOW BOTH FRAME RAILS			\$218.00

Fifth Wheel



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Data Code	Description	Weight Front	Weight Rear	Retail Price
578-998	NO FIFTH WHEEL			STD
Fuel Tanks				
204-215	50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH	-10		\$30.00
218-005	RECTANGULAR FUEL TANK(S)			N/C
215-004	POLISHING OF FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS			\$196.00
212-007	FUEL TANK(S) FORWARD			STD
664-002	POLISHED STEP FINISH			\$109.00
205-001	FUEL TANK CAP(S)			STD
122-1J1	DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"	10		\$51.00
216-020	EQUIFLO INBOARD FUEL SYSTEM			STD
202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE			STD
Tires				
093-1RJ	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES	100		\$474.00
094-2CM	MICHELIN X WORKS XDY 315/80R22.5 20 PLY RADIAL REAR TIRES		232	\$1,472.00
Hubs				
418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS			STD
450-014	WEBB IRON REAR HUBS		280	N/C
Wheels				
502-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS	-28		\$396.00
505-356	ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS		-56	\$792.00
524-001	POLISHED FRONT WHEELS; OUTSIDE ONLY			\$28.00
525-001	POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY			\$60.00
496-011	FRONT WHEEL MOUNTING NUTS			STD
497-011	REAR WHEEL MOUNTING NUTS			STD
Cab Exterior				
829-1A2	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB			STD
650-008	AIR CAB MOUNTING			STD



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Data Code	Description	Weight Front	Weight Rear	Retail Price
705-012	CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS	2		\$53.00
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE			STD
667-004	FRONT FENDERS SET-BACK AXLE			N/C
754-017	BOLT-ON MOLDED FLEXIBLE FENDER EXTENSIONS	10		\$115.00
678-067	SAFETY YELLOW LH AND RH INTERIOR GRAB HANDLES AND LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT			\$80.00
645-002	BRIGHT FINISH RADIATOR SHELL/HOOD BEZEL			\$253.00
646-042	STATIONARY BLACK GRILLE WITH BRIGHT ACCENTS			\$88.00
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE			\$15.00
644-004	FIBERGLASS HOOD			STD
690-016	CAB FLOOR, TOE BOARD AND FIREWALL HEAT SHIELD	5		\$39.00
727-802	FACTORY PREP DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS WITH DUAL LANYARDS HORNS SHIP LOOSE FOR PDI INSTALL	4		\$919.00
726-001	SINGLE ELECTRIC HORN			STD
728-002	DUAL HORN SHIELDS			N/C
575-001	REAR LICENSE PLATE MOUNT END OF FRAME			STD
312-067	HALOGEN COMPOSITE HEADLAMPS WITH BRIGHT BEZELS			N/C
302-047	LED AERODYNAMIC MARKER LIGHTS			STD
311-998	NO DAYTIME RUNNING LIGHTS			(\$21.00)
294-094	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TAIL WIRES TO 7 FEET BEYOND END OF FRAME		-5	(\$52.00)
300-015	STANDARD FRONT TURN SIGNAL LAMPS			STD
469-014	AUTOMATIC ON/OFF, ENGINE COMPARTMENT, HOOD ACTIVATED WORK LIGHT WITH MANUAL OVERRIDE	1		\$192.00
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE			\$133.00
797-001	DOOR MOUNTED MIRRORS			STD
796-001	102 INCH EQUIPMENT WIDTH			STD
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS			N/C
729-001	STANDARD SIDE/REAR REFLECTORS			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED DIAMOND PLATE COVER			\$142.00
768-043	63X14 INCH TINTED REAR WINDOW			STD
661-004	TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS			STD
654-011	RH AND LH ELECTRIC POWERED WINDOWS			STD
663-013	1-PIECE SOLAR GREEN GLASS WINDSHIELD			STD
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED			(\$80.00)

Cab Interior

055-019	RUGGED TRIM PACKAGE			STD
707-107	GRAY & CARBON VINYL INTERIOR "RUGGED"			STD
70K-020	CARBON WITH PREMIUM GUNMETAL ACCENT (RUGGED)			STD
706-013	MOLDED PLASTIC DOOR PANEL			STD
708-013	MOLDED PLASTIC DOOR PANEL			STD
772-006	BLACK MATS WITH SINGLE INSULATION			STD
785-026	(1)DASH MOUNTED 12V POWER OUTLET, (1)DASH MOUNTED DUAL USB-C OUTLET			\$42.00
691-001	FORWARD ROOF MOUNTED CONSOLE			STD
693-035	LH AND RH KICKPLATES			\$131.00
738-021	DIGITAL ALARM CLOCK IN DRIVER DISPLAY			STD
742-007	(2) CUP HOLDERS LH AND RH DASH			STD
680-029	M2/SD DASH			STD
720-003	5 LB. FIRE EXTINGUISHER	10		\$60.00
700-002	HEATER, DEFROSTER AND AIR CONDITIONER			STD
701-008	STANDARD HVAC DUCTING WITH SNOW SHIELD FOR FRESH AIR INTAKE			\$31.00
703-005	MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH			STD
170-015	STANDARD HEATER PLUMBING			STD
130-041	VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR			STD
702-002	BINARY CONTROL, R-134A			STD
739-034	PREMIUM INSULATION			\$145.00
285-013	SOLID-STATE CIRCUIT PROTECTION AND FUSES			STD
280-007	12V NEGATIVE GROUND ELECTRICAL SYSTEM			STD
324-1B2	PREMIUM LED CAB LIGHTING			\$56.00



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Data Code	Description	Weight Front	Weight Rear	Retail Price
787-998	NO SECURITY DEVICE			(\$300.00)
657-001	DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME			STD
78G-002	KEY QUANTITY OF 2			STD
655-028	LH AND RH ELECTRIC DOOR LOCKS WITH AUTO UNLOCK FEATURE WHEN DOOR IS SET FROM OPEN TO CLOSED POSITION			\$23.00
722-028	TRIANGULAR REFLECTORS KIT WITHOUT FLARES SHIPPED LOOSE IN CAB	10		\$24.00
756-1E7	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	50		\$566.00
760-1E7	SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR	40	15	\$504.00
711-004	LH AND RH INTEGRAL DOOR PANEL ARMRESTS			STD
758-014	BLACK CORDURA PLUS CLOTH DRIVER SEAT COVER			(\$76.00)
761-014	BLACK CORDURA PLUS CLOTH PASSENGER SEAT COVER			(\$70.00)
763-105	NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT BELTS			\$132.00
532-002	ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN			STD
540-070	4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH CHROME SWITCH BEZELS			STD
765-002	DRIVER AND PASSENGER INTERIOR SUN VISORS			STD
67E-006	INTERFACE CONNECTORS AND WIRING FOR CUSTOMER PROVIDED LED STEP LIGHTING			\$195.00

Instruments & Controls

106-002	ELECTRONIC ACCELERATOR CONTROL			STD
732-998	NO INSTRUMENT PANEL-DRIVER			STD
734-022	FULLY CONFIGURABLE CENTER INSTRUMENT PANELS			STD
87L-003	ENGINE REMOTE INTERFACE WITH PARK BRAKE AND NEUTRAL INTERLOCKS			N/C
870-002	BRIGHT ARGENT FINISH GAUGE BEZELS			STD
486-001	LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM			STD
840-001	DUAL NEEDLE PRIMARY AND SECONDARY AIR PRESSURE GAUGE			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
198-029	INTAKE MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS, 20 INCH H2O CALIBRATION			\$12.00
721-003	87 DECIBELS TO 112 DECIBELS AUTOMATIC SELF-ADJUSTING BACKUP ALARM		3	\$77.00
149-015	ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES			STD
156-007	KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY			STD
811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH TFT COLOR DISPLAY			STD
81B-003	DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY			STD
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH			STD
844-001	2 INCH ELECTRIC FUEL GAUGE			STD
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE			\$134.00
48H-003	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH CAPS			\$79.00
48C-005	QUICKFIT PROGRAMMABLE INTERFACE CONNECTORS 1 & 2 BETWEEN SEATS WITH CAP			N/C
163-014	ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN INTERFACE CONNECTOR			N/C
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE			STD
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE			STD
864-022	DIGITAL TRANSMISSION OIL TEMPERATURE IN DRIVER DISPLAY			STD
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER MESSAGE CENTER			STD
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY			STD
33A-051	WIRING PROVISION FOR CUSTOMER FURNISHED ROOF MOUNTED LIGHTBAR WITH 2 WIRES HANDLE UP TO 30 AMPS OF CURRENT			\$212.00
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC ARCHITECTURE			\$40.00
736-998	NO OBSTACLE DETECTION SYSTEM			(\$4,324.00)
72J-998	NO DR ASSIST SYSTEM			(\$32.00)



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Data Code	Description	Weight Front	Weight Rear	Retail Price
49B-006	ELECTRONIC STABILITY CONTROL,4X2 W/SAFETY MIN BODY WEIGHT EXCEEDS 4,000LBS REQ			N/C
73B-998	NO LANE DEPARTURE WARNING SYSTEM			(\$1,080.00)
679-024	LEFTHAND/CENTER/RIGHTHAND OVERHEAD INSTRUMENT PANEL BLANK			\$197.00
35M-013	2 QUICKFIT PROGRAMMABLE INTERFACE MODULES	20		\$315.00
786-119	NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY			\$1,008.00
746-137	AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939			STD
747-001	DASH MOUNTED RADIO			STD
750-002	(2) RADIO SPEAKERS IN CAB			STD
753-001	AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF			STD
749-998	NO CB RADIO MOUNTING PROVISION			STD
74D-006	STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS			STD
810-027	ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER			STD
817-001	STANDARD VEHICLE SPEED SENSOR			STD
812-001	ELECTRONIC 3000 RPM TACHOMETER			STD
813-1C8	DETROIT CONNECT PLATFORM HARDWARE			STD
8D1-313	3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE ON (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT ON CUMMINS ENGINES			N/C
6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND PASSENGER SIDE REMOVEABLE DASH PANEL			STD
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP			STD
81Y-006	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS AND SERVICE BRAKES			\$14.00
264-032	(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN			\$105.00
883-998	NO TRAILER HAND CONTROL BRAKE VALVE			STD
842-006	DIGITAL TURBO AIR PRESSURE IN DRIVER DISPLAY			N/C
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY			STD

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Data Code	Description	Weight Front	Weight Rear	Retail Price
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY			STD
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS			N/C
882-009	ONE VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR			STD
299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP FLASH, WASH/WIPE/INTERMITTENT			STD
298-046	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY			STD
87T-998	NO WRG/SW-OPTL #2,CHAS,AIR			STD
Design				
065-000	PAINT: ONE SOLID COLOR			STD
Color				
980-612	CAB COLOR A: L3781EY VIPER RED ELITE EY			N/C
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT			STD
963-003	STANDARD E COAT/UNDERCOATING			STD
Certification / Compliance				
996-001	U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS			STD
Secondary Factory Options				
998-033	CORPORATE PDI CENTER IN-SERVICE AND OPTION INSTALLATION/MODIFICATION			N/C
999-047	JACKSHAFT ASSEMBLIES ARE FOR TEMPORARY USE AND SHOULD ONLY BE USED FOR SHIPPING TO THE CUSTOMER/BODY BUILDER			N/C

T O T A L V E H I C L E S U M M A R Y

Adjusted List Price

Adjusted List Price ** \$176,243.00

Weight Summary

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	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	8911 lbs	5065 lbs	13976 lbs
<hr/>			
Total Weight ⁺	8911 lbs	5065 lbs	13976 lbs

ITEMS NOT INCLUDED IN ADJUSTED LIST PRICE

Other Factory Charges

PMV-024	GHG24 SURCHARGE - CUMMINS	\$555.00
P7A-200	TOW ONLY CHARGE	\$500.00
RD1-313	3 YEARS DAIMLER CONNECTIVITY BASE PACKAGE ON (FEATURES VARY BY MODEL) POWERED BY DETROIT CONNECT ON CUMMINS ENGINES	N/C
RAC-42N	M2/SD PLUS ESCALATOR	\$1,185.00
RAG-020	CUMMINS TARIFF CHARGE - \$205	\$205.00
RAU-025	MY25 ESCALATOR	\$2,250.00
RFY-022	FRONT TIRE SURCHARGE	\$130.00
RFU-022	REAR TIRE SURCHARGE	\$260.00
P73-2FT	STANDARD DESTINATION CHARGE	\$3,375.00

Extended Warranty

WAG-038	TOWING: 1 YEAR/UNLIMITED MILES/KM EXTENDED TOWING COVERAGE \$1200 CAP FEX APPLIES	\$405.00
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Currency Exchange Rate	1.0000
Total Extended Warranty (Local Currency)	\$405.00

(+) Weights shown are estimates only.

If weight is critical, contact Customer Application Engineering.

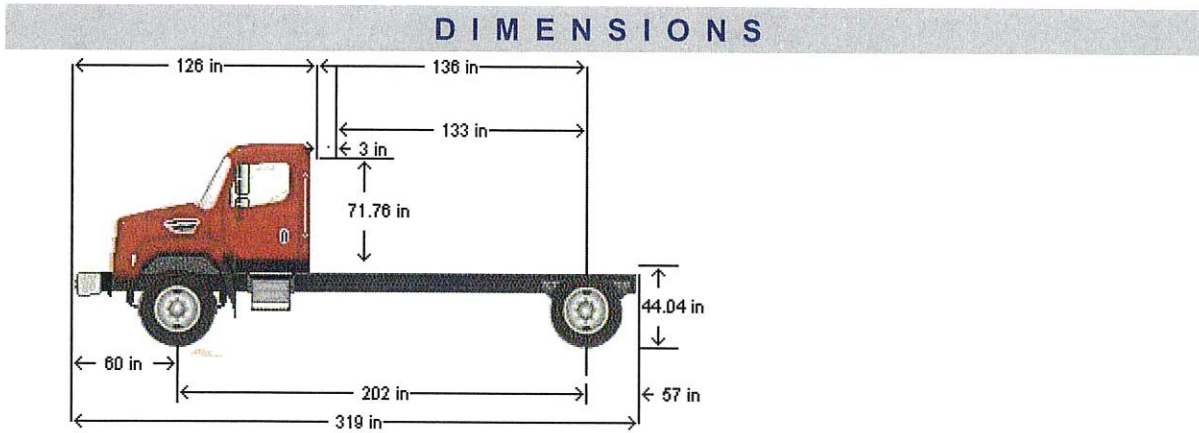
(**) Prices shown do not include taxes, fees, etc... "Net Equipment Selling Price" is located on the Quotation Details Proposal Report.

(***) All cost increases for major components (Engines, Transmissions, Axles, Front and Rear Tires) and government mandated requirements, tariffs, and raw material surcharges will be passed through and added to factory invoices.



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VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	114SD
Wheelbase (545)	5125MM (202 INCH) WHEELBASE
Rear Frame Overhang (552)	1450MM (57 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
Cab Size (829)	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Sleeper (682)	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES



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TABLE SUMMARY - DIMENSIONS

Dimensions	Inches
Bumper to Back of Cab (BBC)	125.5
Bumper to Centerline of Front Axle (BA)	60.0
Front Axle to Back of Cab (AC)	65.6
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	136.2
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	133.2
Back of Cab Protrusions (Exhaust/Intake) (CP)	2.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	193.3
Cab Height (CH)	71.8
Wheelbase (WB)	201.8
Frame Overhang (OH)	57.1
Overall Frame Length	316.5
Overall Length (OAL)	318.8
Rear Axle Spacing	0.0
Unladen Frame Height at Centerline of Rear Axle	44.0

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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G V W R

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model 114SD
Cab Size (829)..... 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs)..... 16000.0
Expected Pusher Axle(s) Load (lbs)..... 0.0
Expected Rear Axle(s) Load (lbs) 31000.0
Expected Tag Axle(s) Load (lbs)..... 0.0
Expected GVW (lbs) 47000
Expected GCW (lbs) 0.0
Front Axle (400)..... DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Front Suspension (620) 16,000# FLAT LEAF FRONT SUSPENSION
Front Hubs (418) CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502)ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM FRONT WHEELS
Front Tires (093).....MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402)..... MERITOR 16.5X6 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536)..... TRW TAS-85 POWER STEERING
Rear Axle (420) CUMMINS-MERITOR RS-30-185 31,000# U-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE
Rear Suspension (622)..... 31,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD FOR
FIRE/EMERGENCY SERVICE
Rear Hubs (450)..... WEBB IRON REAR HUBS
Rear Disc Wheels (505)..... ALCOA ULTRA ONE 89U64X 22.5X9.00 10-HUB PILOT 5.99 INSET ALUMINUM REAR WHEELS
Rear Tires (094) MICHELIN X WORKS XDY 315/80R22.5 20 PLY RADIAL REAR TIRES
Rear Brakes (423) MERITOR 16.5X7 P CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR, CAST SHOES
Pusher / Tag Axle (443)..... NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626) NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449)..... NO PUSHER OR TAG HUBS
Dead/Pusher/Tag Disc Wheels (509)NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095)..... NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456)..... NO PUSHER/TAG BRAKES



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TABLE SUMMARY - GVWR

	Front	Rear
Axle Component Weight Ratings		
Axles	16000	31000
Suspension	16000	31000
Hubs	23000	31000
Brakes	20000	32500
Wheels	20000	40000
Tires	18180	33080
Power Steering	18000	N/A
GAWR (per axle)	16000	31000
GAWR (per axle system)	16000	31000
Expected Load (per axle system)	16000	31000
GVWR due to Frame	90000	
GVWR due to Transmission	300000	
Vehicle GVWR Summary		
Calculated GVWR	47000	
Expected GVWR	47000	
All weights displayed in pounds		

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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FRAME RBM

VEHICLE SPECIFICATIONS SUMMARY - FRAME RBM

Wheelbase (545)5125MM (202 INCH) WHEELBASE
 Frame Rails (546)..... 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI(546)
 Yield Strength (psi) 120000
 Section Modulus (per rail) (cu in)21.6
 RBM (per rail) (lbf-in)2592000
 Inner Frame Reinforcement (547)..... 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
 Outer Frame Reinforcement (548) NO OUTER FRAME REINFORCEMENT

TABLE SUMMARY - FRAME RBM

Item	Description / Value
Wheelbase	5125MM (202 INCH) WHEELBASE
Frame	7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.11MMX282.6MM/0.437X11.13 INCH) 120KSI
Inner Frame Reinforcement	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
Outer Frame Reinforcement	NO OUTER FRAME REINFORCEMENT
Yield Strength (psi)	120000
Section Modulus - per rail (cu. in.)	31.00
Frame RBM - per rail (lbf-in)	3715200

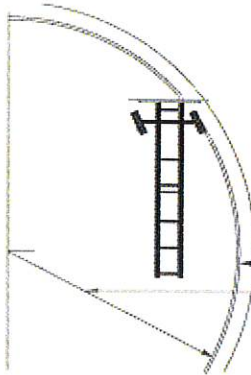
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TURNING RADIUS



Turning radius graphic and data provided strictly for comparisons between model configurations. Weather, road surfaces, and tire treads affect the results. It is strongly suggested that actual vehicles be measured before constructing any roads/driveways using this information. For specific figures regarding your configuration, please contact your CAE representative.

	Dimensions	Tolerance
Wall to Wall Diameter (ft)	63.8	+/- 3.0
Curb to Curb Diameter (ft)	58.7	+/- 3.0
Turning Radius (ft)	28.8	+/- 1.5

VEHICLE SPECIFICATIONS SUMMARY - TURNING RADIUS

Model	114SD
Cab Size (829).....	114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB
Wheelbase (545)5125MM (202 INCH) WHEELBASE
Front Tires (093).....	MICHELIN X WORKS Z 315/80R22.5 20 PLY RADIAL FRONT TIRES
Width (in)	12.5
Front Axle (400).....	DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE
Kingpin Intersection (in)	71
Bumper (556)	14 INCH CHROMED STEEL BUMPER
Width (in)	97.6
Bumper Miter to Front Axle (in)	52.676
Primary Steering Location (003)	LH PRIMARY STEERING LOCATION
Steering Gear (536)	TRW TAS-85 POWER STEERING
Dual Steering Gear	NONE
Ram	NONE
Rear Axle (420)	CUMMINS-MERITOR RS-30-185 31,000# U-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE
Axle Spacing (624)	NO AXLE SPACING

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



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Q U O T A T I O N

114SD PLUS CONVENTIONAL CHASSIS

SET BACK AXLE - TRUCK CUM L9 450EV HP @ 2100 RPM; 2200 GOV RPM, 1250 LB-FT @ 1200 RPM, R/F/E ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION CUMMINS-MERITOR RS-30-185 31,000# U-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE 31,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD FOR FIRE/EMERGENCY SERVICE	DETROIT DA-F-16.0-5 16,000# FL1 71.0 KPI/3.74 DROP SINGLE FRONT AXLE 16,000# FLAT LEAF FRONT SUSPENSION 114 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB 5125MM (202 INCH) WHEELBASE NO FIFTH WHEEL 7/16X3-9/16X11-1/8 INCH STEEL FRAME (11.1MMX282.6MM/0.437X11.13 INCH) 120KSI 1450MM (57 INCH) REAR FRAME OVERHANG 1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT
---	--

	PER UNIT	TOTAL
BALANCE DUE	(LOCAL CURRENCY) \$ 121,403 \$	121,403

ADDITIONAL TERMS AND CONDITIONS

1. As used in this Sales Order the terms (a) Dealer; shall mean the authorized Dealer to whom this Sales Order is addressed and who shall become a party hereto by its acceptance hereof, (b) Purchaser; shall mean the party executing this Sales Order as such on the face hereof, and (c) Manufacturer; shall mean the Corporation that manufactured the vehicle or chassis, it being understood by Purchaser and Dealer that Dealer is not the agent of Manufacturer, that Dealer and Purchaser are the sole parties to this Sales Order and that reference to Manufacturer herein is for the purpose of explaining generally certain contractual relationships existing between Dealer and Manufacturer with respect to new motor vehicles.
2. Manufacturer has reserved the right to change the price the Dealer charges for new motor vehicles without notice. In the event the price to Dealer of a new motor vehicle of the series and body type ordered hereunder is changed by Manufacturer prior to delivery of the new motor vehicle ordered hereunder to Purchaser, Dealer reserves the right to change the cash delivered price of such motor vehicle to Purchaser accordingly.
3. Notwithstanding any terms and conditions contained in Purchaser's Purchase Order, Purchaser agrees that Dealer's terms and conditions set forth in this Sales Order shall be the only terms and conditions regarding any purchase by Purchaser from Dealer. Purchaser expressly waives the provisions of Purchaser's terms and conditions and agrees to be bound exclusively by Dealer's terms and conditions as set forth herein. If Purchaser is an entity, the undersigned represents and warrants to Dealer that the undersigned has authority to bind Purchaser to the terms and conditions outlined herein, and the terms and conditions as outlined herein are enforceable against Purchaser in accordance with their terms.
4. All used motor vehicles which are to be traded in as part of the consideration for the motor vehicle ordered hereunder are subject to Dealer's Trade Terms and Conditions which are incorporated herein by reference. Although Dealer may provide Purchaser with an initial appraisal(s) of the value of and allowance for any used motor vehicle, such initial appraisal and allowance are not binding. Each used motor vehicle shall be reappraised at that time of actual delivery to Dealer for acquisition, and such reappraisal value shall determine the actual allowance made for such motor vehicle. If such reappraised value is lower than the original appraised value and allowance therefor shown on the front of this Sales Order, Purchaser may, if dissatisfied herewith, cancel this Sales Order, provided, however, that such right to cancel must be exercised prior to the delivery of the motor vehicle ordered hereunder to the Purchaser.



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5. Purchaser agrees to deliver to Dealer satisfactory evidence of title to any used motor vehicle traded in as part of the consideration for the motor vehicle ordered hereunder at the time of delivery of such used motor vehicle to Dealer. Purchaser warrants any such used motor vehicle to be his or its property free and clear of all liens and encumbrances except as otherwise noted within.

6. Dealer shall have the right, upon failure or refusal of Purchaser to accept delivery of the motor vehicle ordered hereunder or to comply with any of the other terms of this Sales Order, to retain any cash deposit made by Purchaser without the waiver of any other right or remedy available to Dealer.

7. Manufacturer has reserved the right to change the design of any new motor vehicle, chassis, accessories or parts thereof at any time without notice and without obligation to make the same or any similar change upon any motor vehicle, chassis, accessories or parts thereof previously purchased by or shipped to Dealer or being manufactured or sold in accordance with Dealer's orders. Correspondingly, in the event of any such change by Manufacturer, Dealer shall have no obligation to Purchaser to make the same or any similar change in any motor vehicle, chassis, accessories or parts thereof covered by this Sales Order either before or subsequent to delivery thereof to Purchaser.

8. Dealer shall not be liable for failure to deliver or delay in delivering the motor vehicle covered by this Sales Order where such failure or delay is due, in whole or in part, to any cause beyond the control or without the fault or negligence of Dealer.

9. The price for the motor vehicle specified on the face of this Sales Order includes reimbursement for Federal Excise taxes, but does not include sales taxes, use taxes or occupational taxes based on sales volume, (Federal, State or Local) unless expressly so stated. Purchaser assumes and agrees to pay, unless prohibited by law, any such sales, use or occupational taxes imposed on or applicable to the transaction covered by this Sales Order, regardless of which party may have primary tax liability therefor.

10. There are no warranties, whether expressed or implied, made by the Dealer herein, or the Manufacturer, on the vehicle or chassis described on the face hereof except in the case of a new vehicle or chassis for which the warranty shall be limited to such warranty as provided for in writing on the face of this Sales Order or in a separate writing furnished to and signed by Purchaser and Dealer. The printed new vehicle warranty delivered to Purchaser with such vehicle or chassis is made a part hereof as though fully set forth herein, and it is the only warranty applicable to such new vehicle or chassis and is expressly in lieu of all other warranties, whether expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose.

11. Any used motor vehicle sold to Purchaser by Dealer under this Sales Order is sold at the time of delivery by Dealer without any guarantee or warranty, whether expressed or implied, including without limitation, any implied warranty of merchantability or fitness for a particular purpose, as to its condition or the condition of any part thereof except as may be otherwise specifically provided in writing on the face of this Sales Order or in a separate writing furnished to and signed by Purchaser by Dealer.

12. The Purchaser, before or at the time of delivery of the motor vehicle covered by this Sales Order will execute such forms of agreement or documents as may be required by the terms and conditions of payment indicated on the front of this Sales Order.

13. In the event Purchaser desires to modify or otherwise change the equipment content of a vehicle specifically ordered for him from the Manufacturer, the change will be made only if the Manufacturer has sufficient time to accommodate the request. Moreover, any service charge or fee made by the Manufacturer as a result of such request will be borne by the purchaser.

14. The parties agree that they will comply with all Federal, State, and local laws and regulations, including those governing and/or restricting export of products or any technical data relating thereto outside of the United States. In carrying on Purchaser's business, each of Purchaser, its officers, directors, employees or agents (collectively and individually in this clause) must comply with its obligations under the law including without limitation, the following: (a) not violate any anti-bribery or anti-corruption law of any jurisdiction applicable to this Order, including those of the United States of America's Foreign Corrupt Practices Act (FCPA), and any similar anti-corruption or anti-bribery laws and regulations applicable to the Purchaser or related to this Order: (b) not pay, offer or promise to pay, or authorize the payment of, any monies or



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anything of value, directly or indirectly, to any government official or employee, any official or employee of a state-run or state-owned or controlled enterprise or entity, any official or employee of a public international organization, any candidate for political or public office, any official or employee of any political party, or any family member or relative of such persons or any political party for the purpose of influencing any act or decision of any such official, employee, candidate, political party, enterprise or entity, public organization, or government to obtain or retain business, or direct business to any person or entity, or for any other improper advantage or purpose; (c) warrants that as at the date of this Order, none of its owners, officers, directors, employees or agents or any immediate family member of such persons, is presently (or has been recently) an official or employee of any government, state-run or state-owned or controlled enterprise or entity, or political party, or a candidate for political or public office. Purchaser must provide written notification to Dealer within ten (10) days of any of the above persons becoming such official, employee or candidate; (d) comply with all applicable export and import laws and regulations, including associated embargo and sanction regulations; and (e) certifies that no vehicle or chassis subject to this Order, nor any direct products thereof, will be made available or re-exported, directly or indirectly, by Purchaser (or by any employee or contractor of Purchaser) to any prohibited person, entity or country (including to nationals of any prohibited country, wherever they may be located) unless such prior written authorization as may be required is obtained by Purchaser from the appropriate U.S. government agency(ies), including, as applicable, the U.S. Office of Export Licensing of the U.S. Department of Commerce, in accordance with the U.S. Export Administration Regulations (15 CFR, Parts 779 et seq. or any similar regulation) issued by the Department of Commerce of the United States in the administration of the Export Administration Act of 1979, as amended from time to time, or any subsequently issued similar rule, law or regulation. Purchaser will designate an officer to be responsible for compliance with all such legislation and upon the request of Dealer will certify compliance with such legislation. In the event Purchaser breaches its obligations under this paragraph, or Dealer learns of or has a reasonable suspicion that Purchaser has breached this paragraph, notwithstanding any other provision hereunder to the contrary, Dealer may immediately terminate this Order and Purchaser hereby waives any and all claims against Dealer for any loss, cost or expense, including, but not limited to, loss or profits, incidental or consequential damages, that Purchaser may incur by virtue of such termination.

15. Purchaser shall, from the execution of this Order and for a period of one (1) year after the completion of this Order maintain all records, together with such supporting or underlying documents and materials, related to the motor vehicle ordered hereunder, including but not limited to all records related to the use, the location(s) of such use, the repair and the sale, lease or other transfer of such motor vehicle or any interest therein, as well as Purchaser's compliance with the FCPA and any other applicable anti-corruption or anti-bribery laws or regulations. Purchaser shall at any time requested by Dealer whether during or after completion of this Order, with five (5) days' notice and at Purchaser's own expense make such records available for inspection and audit (including copies and extracts of records as required) by Dealer. Such records shall be made available to Dealer during normal business hours at a time and location that is convenient for Dealer.

16. **Documentary Fee.** Documentary fee is not an official fee. A documentary fee is not required by law, but may be charged to buyers for handling documents and performing services related to closing of a sale. The base documentary fee beginning 1/1/20 was \$300. The maximum amount that may be charged for a documentary fee is the base documentary fee of \$300, which shall be subject to an annual rate adjustment equal to the percentage of change in the Bureau of Labor Statistics Consumer Price Index. This notice is required by law.

17. Purchaser shall pay on demand all of Dealer's cost and expenses, including its attorney's fees incurred in enforcing the terms of this Sales Order, including but not limited to defending any claims by Purchaser, collecting any payments due hereunder or repossessing the vehicle.

18. The remedies herein reserved shall be cumulative and in addition to any further remedies provided to Dealer whether at law or in equity. No delay or failure by the Dealer to exercise or enforce at any time, any right or provision in this Sales Order, will be considered a waiver thereof or of Dealer's right thereafter to exercise or enforce each and every right and provision of this Sales Order. To be valid, any waiver shall be in writing, but need not be supported by consideration. No single waiver shall constitute a continuing or subsequent waiver.

19. This Sales Order has been negotiated, executed and delivered in Illinois, and shall be construed and enforced in accordance with the laws of the State of Illinois, without reference to the choice of law or conflicts of law principles of any other state.



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20. Purchaser hereby consents to the exclusive jurisdiction of any state or federal court located in DuPage County, Illinois regarding any disputes regarding this matter. Purchaser waives any trial by jury and waives any objection based on improper venue or forum non conveniens in any action or proceeding to which Purchaser and Dealer may be parties arising out of, or in connection with, or in any way pertaining to this Sales Order. It is agreed and understood by Purchaser that this waiver constitutes a waiver of trial by jury of all claims by Purchaser against the Dealer. This waiver is knowingly, willingly and voluntarily made by Purchaser and Purchaser hereby represents that no representations of fact or opinion have been made by any individual to induce this waiver of trial by jury or to, in any way, modify or nullify its effect. Purchaser further represents and warrants that it either has been represented in the signing of this Sales Order and the making of this Sales Order by the attorney of its choosing, or it has had time to seek independent counsel selected of Purchaser's own free will, and to discuss the terms and conditions of this Sales Order with such counsel.

21. In the event that any provision of this Sales Order shall be deemed to be invalid by reason of the operation of any law or by reason of the interpretation placed on this Sales Order by any court, this Sales Order shall be construed as not containing such provision to the extent of the invalidity and the invalidity of such provision shall not affect the validity of any and all provisions hereby which are otherwise lawful and valid, and such other provisions shall remain in full force and effect.

22. All notices and other communications required hereunder shall be in writing and delivered by personal delivery, overnight delivery service, or certified or registered mail, postage prepaid, return receipt requested. Any such notice shall be deemed to have been given on the date it is received during regular office hours at the address listed on the applicable order or at such other address as the affected party may have previously designated for notices.

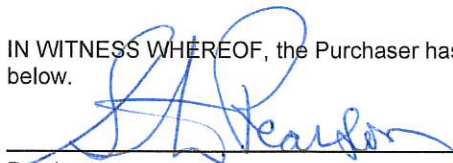
23. To the full extent permitted by laws, Purchaser waives all rights against Dealer for any damage to its property or that of third parties, or for injury to any person, however caused. In no event shall Dealer's total liability exceed Dealer's anticipated net profit on the specified purchase price of the vehicles covered by this Sales Order.

24. This Sales Order constitutes the entire agreement between the parties hereto relating to the subject matter hereof and supersedes all prior oral and written and all contemporaneously oral negotiations, commitments and understandings of the parties, except as otherwise expressly set forth in this Sales Order. This Sales Order may not be changed or amended except by writing and executed by both Purchaser and Dealer.

25. Customer must hold title for a minimum of 12 months from retail sale date. Selling trucks earlier will result in volume reduction and a \$ 15,000 per unit penalty. Initial Here _____

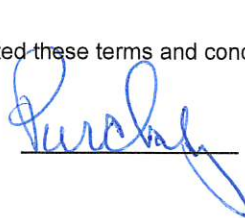
26. _____ units need to be funded within 7 days of arrival at dealership or before shipping if drop shipped. Initial Here _____

IN WITNESS WHEREOF, the Purchaser has executed these terms and conditions as of the date herein written below.



Purchaser
V2020.1

Title



Date

3-7-24