

**EASTWAY EMERGENCY  
VEHICLES  
TANKER / PUMPER**

**APPARATUS SPECIFICATIONS**

**IHC 7400 Chassis**

**5000 LPM Hale Pump  
2000 US Gallon Tank**

**June 18 / 11**

# Eastway Emergency Vehicles

## 2012 Demo Pumper Tanker

One (1)  
00-01-0000

Y\_\_N\_\_

### WARRANTY

One (1)  
00-01-0001

Y\_\_N\_\_

### WARRANTY

EASTWAY EMERGENCY VEHICLES, hereinafter referred to as the **Company**, warrants to the original owner that each new fire apparatus manufactured by them shall be free from defects in materials and workmanship under normal use and service for a period of one (1) year from the date of delivery.

In addition to the above, the **Company** warrants to the original owner that the following components shall be free from defects in materials and workmanship under normal use and service for the period stated.

**Fire truck body and sub frame (structural defects):** Fifteen (15) years  
**Fire Pump Piping:** Ten (10) years

This warranty is limited to the repair or replacement, as the **Company** may elect, of any part or parts thereof including equipment and trade accessories supplied by the **Company**, which shall be returned to the **Company** with transportation charges prepaid and which shall appear to the **Company's** satisfaction upon their inspection to have been defective in material or workmanship. Such part or parts shall be returned not later than sixty (60) days after notification of the warranty claim.

Replacement or repairs shall be performed at the Eastway factory in Carleton Place, Ontario, or at other places as the **Company** may designate.

The **Company** makes no warranty with respect to workmanship or materials supplied by others and the purchaser shall be limited to his recourse against the suppliers or manufacturers of such materials or workmanship.

Subject to the foregoing no warranty express or implied is made hereby or authorized to be made and no obligation is assumed or authorized to be assumed with respect to products of EASTWAY EMERGENCY VEHICLES.

Without limiting the generality of the foregoing, this warranty shall be nullified in the event of:

(1) There is any change by the purchaser in the product in either design or construction or by the use of replacement parts other than those manufactured by EASTWAY EMERGENCY VEHICLES.

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(2) The product is improperly used. EASTWAY EMERGENCY VEHICLES shall not be responsible for any loss of products, time or for consequential damages of any nature or kind.

(3) The product has been abused or damaged. EASTWAY EMERGENCY VEHICLES shall not be responsible for any loss of product, time, or for consequential damages if the vehicle has been used in an abusive manner or used while damaged.

### Paint

The **Company** warrants that its paint finish shall be free from defects and it will not incur corrosion, blisters, unreasonable color or gloss loss, or delamination for **Seven (7) years**. This guarantee shall include but is not limited to:

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

One (1)  
00-01-0020

Y\_\_\_N\_\_\_

### WARRANTY ALUMINUM ELLIPTICAL WATER TANK

EASTWAY EMERGENCY VEHICLES, hereinafter referred to as the **Company**, warrants to the original owner that each aluminum elliptical water tank manufactured by them shall be free from defects in materials and workmanship under normal use and service for eighteen (25) years, commencing from the date of delivery. This warranty is limited to the repair or replacement, as the **Company** may elect, of any part or parts thereof which shall appear to the **Company's** satisfaction upon their inspection to have been defective in material or workmanship. The cost of which shall be prorated between the **Company** and the original owner on the following basis:

During the first fifteen (15) years after the date of delivery, the **Company** shall pay 100% of the cost of providing repair labor and materials as described above.

During the sixteenth to eighteenth (16th to 18th) year after the date of delivery, the **Company** shall pay 75% of the cost of providing repair labor and materials and the original owner shall pay 25% of the cost.

During the nineteenth to twenty-first(19th to 21st) year after the date of delivery, the **Company** shall pay 50% of the cost of providing repair labor and materials and the original owner shall pay 50% of the cost.

During the twenty-second to twenty-fifth (22nd to 25th) year after the date of delivery, the **Company** shall pay 25% of the cost of providing repair labor and materials and the original owner shall pay 75% of the cost.

Replacement or repairs shall be performed at the Eastway factory in Carleton Place, Ontario, or at other places as the **Company** may designate.

The **Company** makes no warranty with respect to workmanship or materials supplied by others and the purchaser shall be limited to his recourse against the suppliers or

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manufacturers of such materials or workmanship.

Subject to the foregoing no warranty express or implied is made hereby or authorized to be made and no obligation is assumed or authorized to be assumed with respect to products of EASTWAY EMERGENCY VEHICLES.

Without limiting the generality of the foregoing, this warranty shall be nullified in the event of:

(1) There is any change by the purchaser in the product in either design or construction or by the use of replacement parts other than those manufactured by EASTWAY EMERGENCY VEHICLES.

(2) The product is improperly used. EASTWAY EMERGENCY VEHICLES shall not be responsible for any loss of products, time or for consequential damages of any nature or kind.

(3) The product has been abused or damaged. EASTWAY EMERGENCY VEHICLES shall not be responsible for any loss of product, time, or for consequential damages if the vehicle has been used in an abusive manner or used while damaged.

One (1)  
00-01-0036

Y\_\_N\_\_

### **FIRE PUMP WARRANTY**

The HALE fire pump shall be warranted for a period of Two (2) years for parts and labor and, (5) years for parts only from the date of delivery.

One (1)  
00-02-0000

Y\_\_N\_\_

### **TERMS AND CONDITIONS**

One (1)  
00-02-0002

Y\_\_N\_\_

### **TERMS**

Eastway Emergency Vehicles's standard Terms of Payment are: 20% of contract price is due within 10 days of contract signing; payment for the chassis is due upon receipt of the chassis at our facility; and balance is due upon final inspection, delivery and acceptance.

In the event that any Federal, State or Provincial regulation shall be enacted or referenced standard modified, during the course of the contract, that will affect the cost of producing said product, such costs will be extended to the purchaser.

One (1)  
00-02-0003

Y\_\_N\_\_

### **INTENT OF SPECIFICATIONS**

It is the intent of these specifications to cover the furnishing and delivery to the purchaser of a complete apparatus equipped as hereinafter specified. With a view to obtaining the best results and the most acceptable apparatus for service in the Fire Department, these

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specifications cover only the general requirements as to the type of construction and tests to which the apparatus must conform, together with certain details as to finish, equipment, and appliances with which the successful bidder must conform. Minor details of construction and materials where not otherwise specified are left to the discretion of the contractor, who shall be solely responsible for the design and construction of all features.

The **National Fire Protection Association (NFPA) 1901 Standard for Automotive Fire Apparatus**, in force at the time of the preparation of these specifications, shall be used as a reference and, unless otherwise specified in these specifications, its requirements shall be met by the bidder. Mandatory minor apparatus equipment as stated in the applicable paragraphs of the standard shall not be provided unless specifically stated and listed in purchaser's written specifications.

Bids shall only be considered from companies whose products have established a reputation of expertise in the field of fire apparatus construction for a minimum of **20 years**.

The chassis shall be a custom or commercial model designed specifically for fire service and/or severe service, built of galvanized steel, aluminum or stainless steel.

The body shall be custom built of aluminum, or stainless steel and shall be designed for strength, durability and safety.

Each bidder shall furnish satisfactory evidence of their ability to construct the apparatus specified and shall state the location of the factory where the apparatus is to be built. They shall also show that they are in a position to render prompt service and to furnish replacement parts for the apparatus.

Each bid shall be accompanied by a set of "Contractor's Specifications" consisting of a detailed description of the apparatus and equipment proposed to which the apparatus furnished under the contract must conform.

Total price on the bidder's proposal sheet must include all items listed in the specifications. Listing any items contained in the specifications as an extra cost item shall automatically be cause for rejection.

One (1)  
00-02-0010

Y\_\_N\_\_

### **OPERATING PARAMETERS AND APPARATUS PERFORMANCE**

Unless otherwise specified by the purchaser, the apparatus shall meet the requirements of the applicable standards at elevations up to 1960 ft. (600m) above sea level, while stationary on a grade of 6% in any direction and within the ambient temperature range of 0°F (-18°C) and 109°F (43°C).

The apparatus when fully equipped and loaded per the applicable standards, shall be capable of the following performance on dry, paved roads in good condition:

- A) The apparatus shall attain a true speed of 35 mph (55 km/h) from a standing start within

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25 seconds.

- B) The vehicle shall attain a minimum top speed of not less than 50 mph (80 km/h).
- C) The apparatus shall be able to maintain a speed of 20 mph (30 km/h) on any grade up to and including 6 percent.

One (1)  
00-02-0011

Y\_\_N\_\_

### **NUMBER OF RIDING POSITIONS**

The maximum number of firefighters to ride within the apparatus shall be: \_\_ Two \_

One (1)  
00-02-0018

Y\_\_N\_\_

### **PRE-DELIVERY INSPECTION(S)**

One (1) Inspection(s) shall be conducted at the manufacturer's facility prior to delivery of the completed apparatus.

The manufacturer shall be responsible for the cost of transportation, lodging and food for Two (2) representatives of the purchaser conducting the inspection.

One (1)  
00-02-0023

Y\_\_N\_\_

### **PRE-CONSTRUCTION MEETING(S)**

One (1) meeting(s) shall be conducted at the purchaser's facility prior to the start of construction. Representatives of the manufacturer, the dealer and the purchaser shall be in attendance to review the specifications and construction details.

One (1)  
00-02-0026

Y\_\_N\_\_

### **DELIVERY AND TRAINING**

The apparatus, to insure proper break-in of all components while still under warranty, shall be delivered under its own power. Rail or truck freight is not desirable.

A qualified and responsible representative of the manufacturer shall instruct personnel specified by the purchaser, in the proper operation, care, and maintenance of the fire fighting apparatus and equipment delivered.

One (1)  
00-02-0030

Y\_\_N\_\_

### **GENERAL CONSTRUCTION, QUALITY AND WORKMANSHIP**

The apparatus shall be designed and constructed with consideration for ease of operation and safety. The apparatus shall comply with all applicable federal, state or provincial motor vehicle laws and regulations.

The apparatus shall be designed and the equipment mounted with due consideration to

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distribution of load between the front and rear axles so that all specified equipment, including a filled water tank, full complement of personnel and fire hose shall be carried without damage to the apparatus.

Guards, shields or other protection shall be provided where necessary to prevent injury to personnel by hot, moving, or rotating parts during normal non-maintenance operations.

Electrical insulation or isolation shall be provided where necessary to prevent electrical shock from onboard electrical equipment.

The workmanship shall ensure a safe operating environment free of accessible sharp projections and edges.

Hydraulic lines, air system tubing, control cables and electrical lines shall be clipped to the frame or body structure of the apparatus and suitably protected where they pass through body panels or structural members.

Apparatus components that interfere with the repair or removal of other components shall be attached with fasteners that will allow the component to be removed and replaced with ordinary hand tools. These components shall not be welded or otherwise permanently secured in place.

Dissimilar metals in intimate contact with each other shall be protected against electrolytic corrosion.

One (1)  
00-02-0054

Y\_\_N\_\_

### **TANKER CERTIFICATION (ULC)**

The vehicle shall be certified by Underwriters Laboratories of Canada (ULC), as a **Mobile Water Supply Apparatus** as defined in the current edition of CAN/ULC- S515, Standard for Automobile Fire Fighting Apparatus. An inspection shall be conducted at the factory of the contractor by a representative of ULC, prior to delivery of the completed unit. A certification plate bearing the ULC mark shall be attached to the vehicle. On vehicles equipped with a fire pump as defined in Chapter 15 of CAN/ULC- S515, a pump test shall also be conducted and a manufacturer's test plate attached to the vehicle at the pump operator's panel.

**NO EXCEPTIONS.**

One (1)  
00-03-0000

Y\_\_N\_\_

### CHASSIS

One (1)  
00-03-0002

Y\_\_N\_\_

### **CHASSIS PREPARATION**

Prior to construction, various chassis attachments such as battery boxes, air reservoirs, mufflers, tail pipes, filters, and other bolt on frame attachments may be relocated to permit full utilization of the chassis for equipment compartments.

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One (1)  
00-03-0060

Y\_\_N\_\_

### **CHASSIS**

#### **2012 7400 SBA 4X2 (SA625)**

**MISSION:** Requested GVWR: 46000. Calc. GVWR: 46000

**DIMENSION:** Wheelbase: 211.00, CA: 143.90, Axle to Frame: 96.00

**ENGINE, DIESEL:** {MaxxForce 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM,

2200 RPM Governed Speed

#### **TRANSMISSION, AUTOMATIC:**

{Allison 3000EVS\_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder,

**AXLE, FRONT NON-DRIVING:** {Dana Spicer I-160W} Wide Track, I-Beam Type, 16,000-lb Capacity

**AXLE, REAR, SINGLE:** {Meritor RS-30-185} Single Reduction, Standard Track, 30,000-lb Capacity, T Wheel Ends Gear Ratio: 4.89

**CAB:** Conventional

**TIRE, FRONT:** (2) 315/80R22.5 G289 WHA (GOODYEAR) 484 rev/mile, load range L, 20 ply

**TIRE, REAR:** (4) 315/80R22.5 G289 WHA (GOODYEAR) 484 rev/mile, load range L, 20 ply

**SUSPENSION, RR, SPRING, SINGLE:** Vari-Rate; 31,000-lb Capacity, With 4500 lb Auxiliary Rubber Spring

**PAINT:** Cab schematic 209GN

Location 1: 0016, Sable Metallic (Prem)

Location 2: 2879, Medium Red (Custom)

Base Chassis, Model 7400 SBA 4X2 with 211.00 Wheelbase, 143.90 CA, and 96.00 Axle to Frame.

TOW HOOK, FRONT (2) Frame Mounted

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.866" x 3.622" x 0.433"; 456.0" Maximum OAL

LICENSE PLATE HOLDER Single Plate, Swing Type, Mounted Below Front Bumper

BUMPER, FRONT Full Width, Aerodynamic, Painted Steel; 0.189" Material Thickness

CROSSMEMBER, REAR, AF (01

WHEELBASE RANGE 189" (480cm) Through and Including 256"

FRAME ADDITION, FRONT 1" Integral; Increases BBC, BA and OAL Vehicle Dimensions By 1"

AXLE, FRONT NON-DRIVING {Dana Spicer I-160W} Wide Track, I-Beam Type, 16,000-lb Capacity

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 16,000-lb Capacity; With Shock Absorbers

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

BRAKES, FRONT, AIR CAM 16.5" x 6", Includes 24 SqIn Long Stroke Brake Chambers

DRAIN VALVE {Bendix DV-2} Automatic; With Heater; for Air Tank

BRAKE SHOES, REAR Cast

AIR BRAKE ABS {Bendix AntiLock Brake System} With Electronic Stability Program (4-Channel) With Automatic Traction Control

AIR DRYER {Bendix AD-IP} With Heater

BRAKE CHAMBERS, FRONT AXLE {Haldex} 24 SqIn

BRAKE CHAMBERS, REAR AXLE {Haldex GC3636} 36/36 Spring Brake

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 36/36 Sq.In. Long Stroke Brake

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### Chambers and Spring Actuated Parking Brakes

AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM Capacity  
STEERING COLUMN Tilting and Telescoping  
STEERING WHEEL 2-Spoke, 18" Diam., Black  
STEERING GEAR (2) {Sheppard M-100/M-80} Dual Power  
EXHAUST SYSTEM Single Horizontal, Aftertreatment Device, Frame Mounted Right Side,  
for Use With Long Tail Pipes  
ENGINE EXHAUST BRAKE for MaxxFoRce I6 Engines, Electronically Activated  
TAIL PIPE Horizontal, Exits Right Side Outside of Body, At Rear Wheels  
SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/CANCEL, Center Stable, INHIBIT REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF  
ELECTRICAL SYSTEM 12-Volt, Standard Equipment  
TOGGLE SWITCH, AUXILIARY and Wiring to Front Bumper, For Driving Lights or Fog Lights Mounted by Customer  
IGNITION SWITCH Keyless  
POWER SOURCE Cigar Type Receptacle without Plug and Cord  
BATTERY TERMINALS Sealed  
ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp. Capacity, Pad Mounted  
BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/ Accessory Power/Ground and Sealed Connector for Stop/Turn  
BATTERY SYSTEM {International} Maintenance-Free, (2) 12-Volt 1850CCA Total  
TAIL LIGHT WIRING MODIFIED Includes: Wiring for Standard Lt & Rt Tail Lights; Separate  
8.0' of Extra Cable Wiring for Lt & Rt Body Mounted Tail Lights  
RADIO {International} AM/FM Premium Stereo, With CD Player, Weatherband, Clock, Front & Rear Aux Input, USB Port, and Multiple Speakers, Includes iPod Command and Control  
BACK-UP ALARM Electric, 102 dBA  
DATA RECORDER Includes Display Mounted in Overhead Console  
JUMP START STUD Remote Mounted  
HORN, AIR Black, Single Trumpet, Air Solenoid Operated  
BATTERY DISCONNECT SWITCH {Joseph Pollak 51-315} Positive Type, Lever Operated, Cab Mounted  
ALTERNATOR PULLEY 2.4" Diameter for Increased Alternator Output at Idle; for Fire Truck Application With International Engines, Must Include Fire Truck Identity Code  
SWITCH, AIR HORN, PASSENGER Fire Truck Application; Momentary Switch Located in Instrument Panel Close to Passenger, Driver Also To Activate Switch at Steering Wheel  
HEADLIGHTS Long Life Halogen; for Two Light System  
TEST EXTERIOR LIGHTS Pre-Trip Inspection will Cycle all Exterior Lamps Except Backup Lights  
INDICATOR, LOW COOLANT LEVEL With Audible Alarm

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STARTING MOTOR {Mitsubishi Electric Automotive America 105P} 12-Volt, with Soft-Start  
INDICATOR, BATTERY WARNING Green BATTERY ON Indicator, Mounted on Left Side  
of Instrument Panel, To be Used with Factory Installed or Customer Mounted Battery Disconnect Switch

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses  
GRILLE Stationary, Chrome  
BUG SCREEN Front End; Mounted Behind Grille  
GRILLE EMBER SCREEN Mounted to Grille to Keep Hot Embers out of Engine Air Intake System  
FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions  
PAINT SCHEMATIC, PT-1 Two Tone, Design 209.  
PAINT TYPE Base Coat/Clear Coat, 1-2 Tone  
PAINT CLASS Single Custom Color  
KEYS - ALL ALIKE, ID Z-001  
OIL FILTER, ENGINE {Hudgins Model 960 Spinner}  
RADIATOR HOSES Silicone; Molded  
ENGINE, DIESEL {MaxxFoer 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed  
FAN DRIVE {Horton Drivemaster} Direct Drive Type, Two Speed With Residual Torque Device for Disengaged Fan Speed  
RADIATOR Aluminum, Front to Back Cross Flow, Series System; 1588 SqIn Core and 885 SqIn Charge Air Cooler and 470 SqIn Low Temperature Radiator Down Flow, Includes Transmission Oil Cooler  
FEDERAL EMISSIONS for 2010; MaxxFoer 9 & 10 Engines  
AIR CLEANER Single Element  
THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel  
ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder  
Installation of PTO Controls; With Ignition Switch Control for MaxxFoer post 2007 Emissions Electronic Engines  
TRANSMISSION, AUTOMATIC {Allison 3000EVS\_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A  
TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission  
TRANSMISSION OIL Synthetic; 29 thru 42 Pints  
ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS); Fire/Pumper, Tank, Aerial/Ladder  
SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary  
AXLE, REAR, SINGLE {Meritor RS-30-185} Single Reduction, Standard Track, 30,000-lb Capacity, T Wheel Ends . Gear Ratio: 4.89  
SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 31,000-lb Capacity, With 4500 lb Auxiliary Rubber Spring

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AXLE, REAR, LUBE {EmGard 75W-90} Synthetic Oil; 40 thru 49.99 Pints  
FUEL TANK STRAPS Bright Finish Stainless Steel  
FUEL/WATER SEPARATOR With Thermostatic Fuel Temperature Controlled Electric Heater, and Filter Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor  
FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L Capacity, 16" Tank Depth, With Quick Connect Outlet, Mounted Left Side, Under Cab

### CAB Conventional

GAUGE CLUSTER English With Metric Electronic Speedometer  
SEATBELT WARNING PREWIRE Includes Seat Belt Switches and Seat Sensors for all Belted Positions in the Cab and a Harness Routed to the Center of the Dash for the Aftermarket Installation of the Data Recorder and Seatbelt Indicator Systems, for 1 to 3 Seat Belts  
GAUGE, OIL TEMP, ALLISON TRAN  
GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel  
IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster  
SEAT, DRIVER {National 2000} NFPA Compliant, Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust  
SEAT, PASSENGER {National 2000} NFPA Compliant, Air Suspension, High Back With Integral Headrest, Vinyl, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Back Angle Adjust  
GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry,  
Mounted Left and Right, Each Side at "B" Pillar  
MIRROR, CONVEX, LOOK DOWN {Lang Mekra} Right Side; 6" x 10 1/4", With Bright Finish  
MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets  
SEAT BELT All Red; 1 to 3  
CAB MOUNTING HEIGHT EFFECTS High Cab in Lieu of Mid High Cab Mounting (Approx. 4.5")  
AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster  
INSTRUMENT PANEL Center Section, Flat Panel  
WINDOW, POWER (2) And Power Door Locks, Left and Right Doors, Includes Express Down Feature  
HVAC FRESH AIR FILTER  
STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door  
CAB INTERIOR TRIM Deluxe  
CAB REAR SUSPENSION Air Bag Type  
SUNSHADE, EXTERIOR Aerodynamic, Painted Roof Color; Includes Integral Clearance/Marker Lights  
WHEELS, FRONT DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Piloted,  
Flanged Nut, Metric Mount, 9.00 DC Rims; With Steel Hubs  
WHEELS, REAR DUAL DISC; 22.5" Polished Aluminum, 10-Stud (285.75MM BC) Hub Mounted, Flanged Nut, Metric Mount, 9.00 DC Rims; With Steel Hubs

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BDY INTG, HEADLIGHTS, WIG WAG High Beam Wig Wag With Park Brake Interlock,  
Park Brake Disables Wig Wag

(2) TIRE, FRONT 315/80R22.5 G289 WHA (GOODYEAR) 484 rev/mile, load range L,  
20ply

(4) TIRE, REAR 315/80R22.5 G289 WHA (GOODYEAR) 484 rev/mile, load range L,  
20ply

Cab schematic 209GN

Location 1: 0016, Sable Metallic (Prem)

Location 2: 2879, Medium Red (Custom)

### **Total Component Weight: 8032/4840 12872**

The weight calculations included in this proposal are an estimate of future vehicle weight. The actual weight asmanufactured may be different from the estimated weight. Navistar, Inc. shall not be liable for any consequences resulting from any differences between the estimated weight of a vehicle and the actual weight.

One (1)  
00-04-0000

Y\_\_N\_\_

### CHASSIS MODIFICATIONS

One (1)  
00-04-0003

Y\_\_N\_\_

### **FLUID DATA PLAQUE IN CAB**

A permanent plate shall be installed in the chassis cab to specify the quantity and type of the following fluids used in the vehicle:

- 1) Engine oil
- 2) Engine coolant
- 3) Chassis transmission fluid
- 4) Pump transmission lubrication fluid
- 5) Pump primer fluid
- 6) Drive axle(s) lubrication fluid
- 7) Air conditioning refrigerant
- 8) Air conditioning lubrication oil
- 9) Power steering fluid
- 10) Transfer case fluid
- 11) Equipment rack fluid
- 12) Air compressor system lubricant
  - o) Front Tire Pressure
  - p) Rear Tire Pressure

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One (1)  
00-04-0006

Y\_\_N\_\_

### **FIRST AID KIT MOUNTED IN CAB**

One (1) First Aid Kit shall be mounted in the chassis cab.

One (1)  
00-04-0007

Y\_\_N\_\_

### **2-1/2 LB. FIRE EXTINGUISHER IN CAB**

One (1) 2-1/2 lb. Multipurpose dry chemical fire extinguisher shall be installed in a mounting bracket in the chassis cab.

One (1)  
00-04-0008

Y\_\_N\_\_

### **REFLECTIVE TRIANGLES IN CAB**

Three (3) reflective safety triangles with carrying case shall be supplied in the chassis cab.

One (1)  
00-04-0100

Y\_\_N\_\_

### **CAB STEP OPTIONS**

One (1)  
00-04-0101

Y\_\_N\_\_

### **CAB ENTRANCE STEPS**

The standard chassis cab entrance steps shall be removed and replaced with custom fabricated steps. The tread portion of the steps shall provide an NFPA compliant slip resistant surface. A vertical, aluminum treadplate, riser shall be installed to cover the void between the step and the bottom of the cab door jamb. The steps shall be designed so that the first step is no further than 24" from the ground. An additional stepping surface shall be incorporated into the step, if required, so that there is less than 18" from the first step to the cab.

One (1)  
00-04-0138

Y\_\_N\_\_

### **BATTERY CHARGERS / AIR PUMPS**

One (1)  
00-04-0150

Y\_\_N\_\_

### **AIR COMPRESSOR SYSTEM WITH BATTERY CONDITIONER**

A Kussmaul Pump Plus 1000 air compressor and automatic battery charger shall be installed. The automatic charger shall maintain 1 bank of batteries with a maximum output current of 15 amps. A 3 Amp Battery Saver shall be included to power rechargeable handlights and other accessories and remove their load from the battery whenever A. C. power is applied to the charger. The automatic charger shall sense the state of charge of the vehicle batteries and recharge exactly as much as required. When the batteries are fully charged, all charging

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shall stop. The state of charge of the batteries shall be indicated on a bar graph display whenever power is applied to the vehicle. The bar graph display may be remotely located on the vehicle if required.

The air compressor shall have a capacity of .30 CFM @ 80 PSI and utilize a pressure switch to start and stop the compressor as required, to maintain system pressure. A check valve shall be installed to prevent system air loss.

A Selector Switch shall be provided on the charger to operate the compressor either as a D.C. compressor or as an A. C. compressor. In either switch position the compressor shall operate from the vehicle's battery. When "D.C." is selected, the compressor shall operate whenever the pressure switch senses low system pressure. When the Selector Switch is placed in the "A. C." position the compressor shall operate when the A. C. power is available, but shut off when the shoreline is removed. In either switch position the compressor is operated by the vehicle's battery

One (1)  
00-04-0153

Y\_\_N\_\_

### **AUTO EJECTION RECEPTACLE**

A Kussmaul 120 volt AC, 20 amp. "Super Auto Eject" male receptacle shall be provided.

The receptacle shall automatically eject the shoreline connection when the vehicle is started and shall incorporate an internal interrupter to prevent arcing when the connection is ejected. The auto eject unit shall be a fully enclosed design, with a hinged water-proof cover.

The receptacle shall be mounted on the vehicle near the driver's door step.

One (1)  
00-04-0157

Y\_\_N\_\_

### **BATTERY JUMPER TERMINALS**

External Battery Jumper Terminals shall be installed on the exterior of the vehicle at the cab step area to provide quick access for vehicle jump starting. The Terminals shall be colour-coded and equipped with a weatherproof cover.

One (1)  
00-04-0161

Y\_\_N\_\_

### **TOW HOOKS**

One (1)  
00-04-0164

Y\_\_N\_\_

### **REAR TOW PLATES**

A custom fabricated tow plate assembly shall be installed at the rear of the chassis frame. The assembly shall be of the "outrigger" design constructed of 1/4" heat-treated steel flat stock and "U" channel. The assembly shall incorporate Two (2) elongated flat tow plates with a minimum 2" diameter eye opening.

This entire rear sub-frame/tow eye assembly shall be adequately reinforced and

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designed to permit towing of the fully loaded vehicle directly from the rear or up to 45-degrees on each side of center without flex or damage to the vehicle chassis frame or body. The complete assembly shall be painted black unless specified otherwise.

One (1)  
00-04-0180

MUDFLAPS

Y\_\_N\_\_

One (1)  
00-04-0181

### **REAR MUDFLAPS**

Heavy duty black rubber mudflaps incorporating the manufacturer's logo shall be installed behind the rear wheels, one (1) each side.

Y\_\_N\_\_

One (1)  
00-04-0185

### **FRONT MUDFLAPS**

Heavy duty black rubber mudflaps shall be installed behind the front wheels, one (1) each side.

Y\_\_N\_\_

One (1)  
00-04-0299

AIR HORNS

Y\_\_N\_\_

One (1)  
00-04-0301

### **DUAL GROVER AIR HORNS**

Two (2) Grover #1510, 24" Emergency Stuttertone air horns shall be installed at the bumper of the apparatus and connected to the chassis air brake system.

A control switch is installed on the steering wheel, and on the passenger side dash to activate the horns.

Y\_\_N\_\_

One (1)  
00-04-0303

### **PRESSURE PROTECTION VALVE**

A pressure protection valve shall be installed to prevent the use of air horns and other air-operated accessories from operating when the brake system air pressure drops below 80 psi (550 kPa).

Y\_\_N\_\_

One (1)  
00-04-0310

ENGINE LIGHTS

Y\_\_N\_\_

One (1)  
00-04-0311

### **ENGINE COMPARTMENT LIGHTS**

Y\_\_N\_\_

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Two (2) weatherproof 12 volt lamps with clear lens shall be installed in the chassis engine compartment. The lamps shall be controlled automatically by a mercury switch, activated when the hood is raised.

One (1)  
00-04-0400

Y\_\_N\_\_

### INTERIOR CAB OPTIONS

One (1)  
00-04-0429

Y\_\_N\_\_

### MAP LIGHT

A map light with flexible neck and integral switch shall be provided in the chassis cab.

One (1)  
00-04-0440

Y\_\_N\_\_

### HANDHELD SPOTLIGHT

An Optronics hand held spotlight with 400,000 candlepower blue eye bulb, shall be installed in the cab. The light shall be equipped with a coil cord, wired directly to the 12 volt electrical system.

One (1)  
00-05-0000

Y\_\_N\_\_

### FIRE PUMP

One (1)  
00-05-0160

Y\_\_N\_\_

### PUMP

The HALE QFLO-PLUS 1250" pump shall be a single stage fire pump. The pump shall have a rated capacity of 840 Imperial GPM and meet all applicable NFPA 1901 requirements.

The pump shall deliver the percentage of rated discharge at pressure indicated below.

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

Power to drive the pump shall be provided by the same engine used to propel the apparatus. The pump shall be midship mounted and designed to operate through an integral transmission, including a means for power selectivity to the driving axle or to the pump.

The pump casing shall be a fine grain cast iron alloy vertically split, with a minimum 30,000-psi tensile strength and bronze fitted.

The pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates.

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The impeller shall be a high strength bronze alloy of mixed flow design, accurately balanced and splined to the pump shaft for precision fit and durability. The impeller shall feature a double suction inlet design with opposed volute cutwaters to minimize radial thrust.

The seal rings shall be renewable, double labyrinth, wrap around bronze type.

The pump shaft shall be precision ground stainless steel with long wearing titanium hard coating under the packing glands. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsional vibration, and torque imposed by engine.

A Mechanical Seal shall be installed on the pump shaft. The stationary face of the mechanical seal shall be made from Carbide, an extremely hard and heat dissipative material, which will resist wear and dry run damage much better than Ni-resist. This packing design shall be provided to minimize friction, heat generation, and apparatus downtime.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. They shall be oversized for extended life. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

The transmission case shall be heavy-duty cast iron alloy with adequate oil reserve capacity for low operating temperatures. A magnetic drain plug shall be provided. Transmission case shall include a dipstick for checking oil level. The transmission must be CAFS ready.

The gear box assembly shall be rated at 20,000 ft. Lbs

The pump driveshaft shall be precision ground, heat-treated alloy steel, with a minimum 2-1/2" x 10" spline ends. Gears shall be precision cut for quiet operation and extended life. The gears shall be cut from high strength alloy steel, heat-treated and gas nitrided.

The gearshift shall be a heat-treated alloy steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear.

### Pump shift

An air operated pump shift system shall be installed. The shift control valve shall be mounted in the cab in a convenient location and labeled "PUMP SHIFT". The in-cab control valve shall lock in the road or pump position.

For automatic transmissions, three (3) green warning lights shall be provided to indicate to the operator when the pump has completed the shift from Road to Pump position. One green light shall be located in the cab and labeled "PUMP ENGAGED". The light shall not activate until the pump shift arm has completed its full travel into the pump engagement position. A second green light shall be located in the cab and labeled "OK TO PUMP". This light shall be energized when the pump shift has been completed, the chassis automatic transmission is engaged in pump gear and the parking brake has been set. A green light shall be installed at the pump operator's panel, near the throttle control and labeled "WARNING. DO NOT OPEN THROTTLE UNLESS LIGHT IS ON". This light shall be energized when the pump shift has been completed, the chassis automatic transmission is engaged in pump gear and the parking brake has been set.

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One (1)  
00-05-0182

Y\_\_N\_\_

### **PUMP MOUNTING**

The fire pump shall be mounted with steel angles and channel from the chassis frame, bolted to both the frame and pump to permit rapid removal of pump for service.

One (1)  
00-05-0184

Y\_\_N\_\_

### **DRIVELINES**

Hollow-tube drive lines and universal joints, properly matched to the engine and transmission output torque ratings, shall be installed.

One (1)  
00-05-0219

Y\_\_N\_\_

### **RELIEF VALVE / GOVERNOR**

One (1)  
00-05-0245

Y\_\_N\_\_

### **ENGINE/PUMP CONTROLLER:**

The apparatus shall be equipped with a Fire Research " PUMP BOSS" engine/pump governor/throttle system that is connected directly to the Electronic Control Module (ECM) mounted on the engine. The system shall operate as a pressure sensor (regulating) governor (PSG). When operating in PSG mode the discharge pressure shall be controlled within the parameters specified in NFPA standard 1901 and ULC standard S515.

A preset feature shall permit a predetermined pressure or RPM to be set. The preset pressure or RPM will be displayed on the message display. The preset shall be easily adjustable by the operator .

One (1)  
00-05-0289

Y\_\_N\_\_

### **PRIMER**

One (1)  
00-05-0305

Y\_\_N\_\_

### **PUMP PRIMER**

A 12 volt battery operated positive displacement rotary vane pump shall be provided for extra capacity or high vacuum lift. The primer pump shall be heat treated aluminum alloy and hard coat anodized for long life. It shall use a bronze push/pull panel valve switch for automatic motor control. The primer pump shall be controlled from the pump operator's panel.

One (1)  
00-05-0310

Y\_\_N\_\_

### **PRIMER SYSTEM 3-WAY CONTROL**

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The pump priming system shall be plumbed to the suction side of the fire pump and to each of the large intakes, outboard of any intake valve. A 3-way switching valve shall be installed at the pump control panel to allow the operator to prime the pump and/or each intake individually.

One (1)  
00-05-0314

Y\_\_N\_\_

COOLER

One (1)  
00-05-0315

Y\_\_N\_\_

### **SUPPLEMENTARY HEAT EXCHANGER COOLING SYSTEM**

A heat exchanger shall be installed for supplementary engine cooling during fire pump operations. The system shall allow cooling water from the fire pump to circulate around the engine coolant without mixing or coming into direct contact.

A valve mounted at the pump control panel shall regulate the flow of water from the fire pump to the heat exchanger. The control valve shall be labeled to identify the valve and indicate the direction of opening and closing.

One (1)  
00-05-0324

Y\_\_N\_\_

DRAINS

One (1)  
00-05-0327

Y\_\_N\_\_

### **MASTER DRAIN VALVE**

A master drain valve shall be installed for low point drainage of the fire pump and auxiliary devices.

One (1)  
00-05-0343

Y\_\_N\_\_

PIPING AND VALVE OPTIONS

One (1)  
00-05-0344

Y\_\_N\_\_

### **PUMP PIPING**

The entire discharge and intake piping system, valves, drain cocks and lines and intake and outlet caps or closures, shall be suitable to withstand a minimum hydrostatic burst pressure of 500 psig (3450 kPag). The only exception to this requirement shall be the tank fill and tank to pump lines on the tank side of the valves.

Intake and outlet caps or closures, 3-1/2" and smaller, shall be secured to the apparatus with chains or cables.

Manually operated individual drain or bleeder valves, as indicated in this specification, shall be Class 1 style 34V, 3/4" ball type valves. The valve shall have an all brass body, teflon seals, nickel plated brass ball and chrome plated handle with recessed identity tags.

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Automatic drain valves, as indicated in this specification, shall be Class 1 style 34AD, 3/4" size. This valve is normally open and closes at 6 PSI. The valve shall have an all brass body, heavy duty neoprene seal, brass check assembly with a stainless steel spring.

Suction and discharge lines of 2" or larger diameter shall be **stainless steel** or heavy duty pressure/vacuum hose with stainless steel or brass threaded end fittings. Where vibration or chassis flexing may damage or loosen piping, the pipe shall be equipped with Victaulic or rubber couplings.

All threaded fittings shall be sealed with a heavy duty anaerobic pipe sealant. It shall be in a liquid form with a consistency similar to grease to prevent corrosion between the mating surfaces and to allow for easy disassembly of the joints if necessary. Teflon tape shall not be acceptable.

All water carrying pressure gauge lines are to be of flexible polypropylene tubing to prevent breakage from vibration.

One (1)  
00-05-0346

Y\_\_N\_\_

### **THREAD SPECIFICATIONS**

The intake and discharge threads shall be as follows:

**1 in.**

**1-1/2 in.**

**2-1/2 in.**

**3 in.**

**4 in.**

**5 in.**

**6 in.**

**Other special thread requirements :**

One (1)  
00-05-0347

Y\_\_N\_\_

### **INTAKE AND DISCHARGE VALVES**

The intake and discharge valves shall be manufactured by Hale or Akron Brass and shall utilize a nickel-chrome plated brass ball for longer valve life and improved sealing abilities. Both valve manufacturers warrant their valves for 10 years.

One (1)  
00-05-0352

Y\_\_N\_\_

INTAKE RELIEF

One (1)

Y\_\_N\_\_

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00-05-0354

### **INTAKE PRESSURE RELIEF VALVE**

An Elkhart 2-1/2" intake relief valve shall be permanently installed on the intake side of the pump. It shall have minimum pressure adjustment of 75 to 250 psig with the discharge plumbed to the underside of the truck away from the operator. The valve shall be pre-set to a pressure of 125 psi unless specified otherwise by the purchaser.

One (1)  
00-05-0370

Y\_\_N\_\_

### PUMP INTAKES

Two (2)  
00-05-0376

Y\_\_N\_\_

### **6 INCH CHROME SUCTION CAP**

Two (2) Long handle, chrome, pressure rated suction cap(s) with female threads shall be provided.

Two (2)  
00-05-0380

Y\_\_N\_\_

### **PUMP INLET WARNING LABEL**

A permanent warning label shall be provided at the pump control panel, stating:

"Warning -Death or serious injury might occur if proper operating procedures are not followed. The pump operator as well as individuals connecting supply or discharge hoses to the apparatus must be familiar with water hydraulics hazards and component limitations.

Two (2)  
00-05-0410

Y\_\_N\_\_

### **HALE ELECTRIC INLET VALVE(S)**

Two (2) inlet valve(s) shall be installed. The valve(s) shall be Hale electric operated full flow

butterfly type designed to mount on the fire pump between the suction tube extension and suction tube behind the pump compartment panel. The valve (s) shall be equipped with push button controls mounted on the pump control panel adjacent to the valve.

The valve(s) shall meet the latest NFPA relief and slow-close requirements.

**Valve Mounting Location(s): One Each Side Inlet**

One (1)  
00-05-0459

Y\_\_N\_\_

### SIDE AUXILIARY INTAKES

One (1)  
00-05-0465

Y\_\_N\_\_

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### 2-1/2" AUXILIARY PUMP INTAKE(S), LEFT SIDE

One (1) Gated suction inlet(s) shall be provided at the left side pump panel. The valve(s) shall be 1/4 turn ball type, mounted behind the panel, with the control handle at the valve.

Each inlet shall be furnished with a chrome plated, swivel inlet with 2-1/2" female threads, a removable strainer and a 2-1/2" male chrome plug with retainer chain. An individual 3/4" bleeder drain with a control handle shall be furnished. The drain shall be piped towards the ground, below the chassis frame.

One (1)  
00-05-0479

Y\_\_N\_\_

TANK SUCTION

One (1)  
00-05-0480

Y\_\_N\_\_

### TANK SUCTION

A tank to pump valve shall be installed between the water tank and the pump. The valve shall be a minimum 3" bronze, quarter turn, swing-out, full flow ball type. Piping shall be 4" I. d. The valve shall be controlled by a chrome push/pull locking type control installed on the pump control panel. A color-coded engraved, identification label shall be installed at the control.

To prevent pressurization of the water tank, a check valve shall be installed between the pump and the valve.

One (1)  
00-05-0501

Y\_\_N\_\_

SIDE DISCHARGE OPTIONS

Two (2)  
00-05-0515

Y\_\_N\_\_

### 2-1/2" DISCHARGE(S), PUMP COMPARTMENT PANEL, LEFT SIDE

Two (2) 2-1/2" diameter discharge(s) shall be piped to the left side pump panel. The valve(s) shall be 2-1/2" bronze, quarter turn, swing-out, full flow ball type, installed behind the pump panel. Piping shall be 2-1/2" I. d. A removable stainless steel garnish ring shall be installed on each discharge allowing for valve removal or maintenance without removing the side pump panel.

The discharge(s) shall terminate outside of the pump panel with a 30 degree sweep discharge elbow with male threads, cap and chain.

A 3/4" bleeder valve shall be provided for each discharge.

The valve(s) shall be controlled at the pump control panel. The valve(s) shall lock at any position between open and closed and shall operate freely up to maximum pump discharge pressure.

A color-coded, engraved identification label shall be installed at the control.

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Each discharge shall be equipped with a 2-1/2" pressure gauge, installed at the pump control panel.

One (1)  
00-05-0520

Y\_\_N\_\_

### **2-1/2" DISCHARGE(S), PUMP COMPARTMENT PANEL, RIGHT SIDE**

One (1) 2-1/2" diameter discharge(s) shall be piped to the right side pump panel. The valve(s) shall be 2-1/2" bronze, quarter turn, swing-out, full flow ball type, installed behind the pump panel. Piping shall be 2-1/2". A removable stainless steel garnish ring shall be installed on each discharge allowing for valve removal or maintenance without removing the side pump panel.

The discharge(s) shall terminate outside of the pump panel with a 30 degree sweep discharge elbow with male threads, cap and chain.

A 3/4" bleeder valve shall be provided for each discharge.

The valve(s) shall be controlled at the pump control panel. The valve(s) shall lock at any position between open and closed and shall operate freely up to maximum pump discharge pressure.

A color-coded, engraved identification label shall be installed at the control.

Each discharge shall be equipped with a 2-1/2" pressure gauge, installed at the pump control panel.

One (1)  
00-05-0530

Y\_\_N\_\_

### **4" STORZ DISCHARGE(S), RIGHT SIDE PUMP COMPARTMENT PANEL**

One (1) 4" Storz discharge(s) shall be piped to the right side pump panel.

The valve(s) shall be 3" bronze, slow operating, swing-out, full flow ball type, installed behind the pump panel. Piping shall be 3". A removable stainless steel garnish ring shall be installed on each discharge allowing for valve removal or maintenance without removing the side pump panel.

Each discharge shall terminate outside of the pump panel with a 30 degree sweep discharge elbow with 4" Storz fitting, Storz cap and chain.

A 3/4" drain valve shall be provided for each discharge.

The valve(s) shall be controlled at the pump control panel. The valve(s) shall lock at any position between open and closed and shall operate freely up to maximum pump discharge pressure. A color-coded, engraved identification label shall be installed at the control.

Each discharge shall be equipped with a 2-1/2" pressure gauge, installed at the pump control panel.

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One (1)  
00-05-0599

Y\_\_N\_\_

### CROSSLAYS / SPEEDLAYS

One (1)  
00-05-0610

Y\_\_N\_\_

### **TWO 1-3/4" , ONE 2-1/2" CROSSLAY DISCHARGES**

A triple crosslay compartment shall be provided on the pump compartment. Two (2) adjustable 3/16" aluminum divider shall be installed to form three hosebeds. One hosebed will have a capacity of 150' of 2-1/2" double jacket hose, and two (2) hose beds, each with a capacity of 200' of 1-3/4" diameter, double jacket fire hose with nozzle. The floor of each hosebed shall be equipped with removable floor decking.

The valves shall be 2" bronze, quarter turn, swing-out, full flow ball type, installed on a discharge manifold. Piping shall be 2" I. D.

Two discharges shall terminate with a brass, 2" chicksan swivel reduced to 1-1/2" male threads.

One discharge shall terminate with a brass, 2" chicksan swivel with 2-1/2" male threads.

An automatic drain valve shall be provided for each discharge.

The valves shall be controlled by a chrome push/pull type control installed on the pump control panel. The valves shall lock at any position between open and closed and shall operate freely up to maximum pump discharge pressure. A color-coded, engraved identification label shall be installed at the control.

Each discharge shall be equipped with a 2-1/2" pressure gauge, installed at the pump control panel.

One (1)  
00-05-0635

Y\_\_N\_\_

### **CROSSLAY COVER**

An aluminum treadplate cover shall be installed over the crosslay hose bed. The cover shall be hinged for reloading hose, with a retaining device to hold the cover in the open position. Vinyl end flaps, secured at the bottom shall be installed to cover the hose.

One (1)  
00-05-0689

Y\_\_N\_\_

### TANK FILL

One (1)  
00-05-0692

Y\_\_N\_\_

### **2" TANK FILL**

A 2" tank fill valve shall be installed between the water tank and the pump. The valve shall be a bronze, quarter turn, swing-out, full flow ball type. Piping shall be 2" I. D. The valve shall be controlled by a chrome push/pull locking type control installed on the left side pump panel. A color-coded engraved, identification label shall be affixed adjacent to

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the control.

One (1)  
00-05-0700

Y\_\_N\_\_

### PUMP ENCLOSURE AND CONTROL PANEL

One (1)  
00-05-0702

Y\_\_N\_\_

### **PUMP ENCLOSURE AND PANEL**

The fire pump enclosure shall be a freestanding module, attached and supported at the chassis frame rails, designed to permit independent flexing of the pump enclosure from the body. The support structure shall be constructed of aluminum channel and angle. The top of the pump enclosure shall have a removable aluminum cover.

The pump panels on each side of the enclosure shall be constructed of 12 gauge polished stainless steel unless specified otherwise.

To provide access to the fire pump and the interior of the pump enclosure, the right upper side of the pump compartment shall be equipped with a hinged aluminum door and the right side lower panel shall be removable.

The pump enclosure shall be equipped with running boards, located at the base of the pump enclosure, each side. The running boards will extend from the forward end of the body module to behind the chassis cab. The running boards shall be constructed of 6061-T6 aluminum Diamondback ventilated deckplate to provide a slip resistant surface. The running board assembly shall be supported by 3" x 2" full depth supports.

### Pump Control Panel

The pump control panel shall be located on the left side of the apparatus, and shall consist of upper and lower sections.

The upper instrument panel shall be attached with a full-length vertical stainless steel hinge. Quick release fasteners shall be used to secure the panel, allowing it to swing out for easy access to the instruments and gauges.

A horizontal member shall be installed in the pump enclosure to provide structural support for the valve controls, allowing the controls to operate smoothly. In addition, all control rods shall be provided with universal joints with ball and socket connections to eliminate binding.

Engraved labels shall be installed for all discharges and intakes. Discharge labels shall be color-coded. All other controls and indicators shall be labeled, as required, to indicate their function.

The following controls and gauges shall be located on the panels, configured for convenient operations:

- Master pressure gauge
- Master vacuum gauge
- Individual discharge pressure gauges
- Stop engine/check engine warning lights and alarms

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- Engine gauges
- All discharge controls
- Engine speed controller
- Pump pressure controller
- Primer control
- Tank fill control
- Tank to pump control
- Test taps for pump intake and pump pressure
- Auxiliary cooler control
- Master pump drain control
- Water level indicator
- Panel light switch

One (1)  
00-05-0729

Y\_\_N\_\_

### PUMP ENCLOSURE LIGHTING OPTIONS

One (1)  
00-05-0730

Y\_\_N\_\_

#### **PUMP PANEL LIGHTS**

A total of four (4) pump panel lights with clear lenses shall be installed on the apparatus. Three (3) lights shall be installed on the left side pump panel, above the upper gauge and instrument panel, mounted under a polished stainless steel hood.

One (1) light shall be mounted on the right side pump panel.

One (1) of the lights on the left side pump panel shall be switched "On" automatically when the pump has completed the shift from road to pump, while the remaining lights shall be activated by the pump panel light switch.

One (1)  
00-05-0740

Y\_\_N\_\_

#### **PUMP ENCLOSURE LIGHTS**

Two (2) Clear lights controlled by One (1) switch shall be installed in the pump enclosure.

One (1)  
00-05-0749

Y\_\_N\_\_

### GAUGES AND GAUGE HEATER OPTIONS

One (1)  
00-05-0751

Y\_\_N\_\_

#### **MASTER PUMP INTAKE AND DISCHARGE GAUGES**

Two (2) Class 1, 4 1/2" diameter master intake and discharge gauges shall be installed. The gauges shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The cases shall be temperature compensated with an internal breathing diaphragm to permit filled cases and to allow a rigid lens with a distortion free

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viewing area.

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

The gauge faces shall be white with black and red lettering and shall be graduated in both Imperial and metric units over a range of 30" of vacuum to 600 psi and -100 to 4000 kPa.

The gauges shall be installed on the pump control panel with the intake gauge mounted to the left of the discharge gauge. Each gauge shall be identified with an engraved label.

Six (6)  
00-05-0755

Y\_\_N\_\_

### **PRESSURE GAUGES**

The discharge line pressure gauges shall be manufactured by Class 1 and shall be 2-1/2" in diameter. The gauges shall be fully filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to minus 40 degrees F. The cases shall be temperature compensated with an internal breathing diaphragm to permit filled cases and to allow a rigid lens with a distortion free viewing area.

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

The gauge faces shall be white with black and red lettering and shall be graduated in both Imperial and metric units over a range of 0 to 400 psi and 0 to 2800 kPa.

Eight (8)  
00-05-0759

Y\_\_N\_\_

### **FREEZE-PROOF LINE GAUGES**

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

To prevent internal freezing and to keep contaminants from entering the gauge, the stem and Bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem (no exceptions).

One (1)  
00-05-0779

Y\_\_N\_\_

### **ENGINE MONITORING**

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One (1)  
00-05-0785

Y\_\_N\_\_

### **PUMP PANEL ENGINE INFORMATION DISPLAY**

The apparatus shall be equipped with an Engine Information Display, which is included in the Pump Boss Governor installed on the pump panel. The system shall provide engine RPM, system voltage display and alarm, engine oil pressure display and alarm, and engine temperature display and alarm. The display shall register in Metric units.

One (1)  
00-05-0800

Y\_\_N\_\_

### **PUMP ENCLOSURE HEATER OPTIONS**

One (1)  
00-05-0809

Y\_\_N\_\_

### **PUMP COMPARTMENT HEATER**

A heater shall be provided in the pump compartment for use during inclement weather. Heater shall use engine coolant fluid as the heat source and have a rated output of 24,000 BTU at a water temperature of 160 degrees. Fan air flow shall be a minimum of 205 CFM. Heater controls shall be located at the pump control panel.

One (1)  
00-05-0810

Y\_\_N\_\_

### **REMOVABLE HEAT PAN**

A removable heat pan shall be provided beneath the pump compartment for use during cold weather. It shall assist in warming the pump and piping by containing the heat from the engine's exhaust pipe and muffler within the pump compartment.

The pan shall be supported in a box type structure bolted to the bottom of the pump compartment. The pan shall be easily removed for summer use.

One (1)  
00-05-0834

Y\_\_N\_\_

### **WATER AND FOAM TANK LEVEL GAUGES**

One (1)  
00-05-0835

Y\_\_N\_\_

### **TANK LEVEL GAUGE**

An M. C. Products 4 light tank level gauge shall be installed at the pump control panel. The gauge shall utilize a stainless steel tank sensor and provide visual indication when the tank is 1/4, 1/2, 3/4, and full.

One (1)  
00-05-0836

Y\_\_N\_\_

### **TANK LEVEL GAUGE**

0606W-0001

07/11/11

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An M. C. Products 4 light tank level gauge shall be installed at the rear of the water tank. The gauge shall utilize a stainless steel tank sensor and provide visual indication when the tank is 1/4, 1/2, 3/4, and full.

One (1)  
00-05-0900

Y\_\_N\_\_

MISC. PUMP PANEL OPTIONS

One (1)  
00-05-0915

Y\_\_N\_\_

### **AIR HORN CONTROL AT PUMP CONTROL PANEL**

A weatherproof pushbutton shall be installed at the pump control panel to activate the chassis air horns.

One (1)  
00-05-0920

Y\_\_N\_\_

PUMP TEST FITTINGS

One (1)  
00-05-0921

Y\_\_N\_\_

### **PUMP TEST TAPS**

Test taps for pump intake and pressure shall be provided and properly labeled on the pump control panel.

One (1)  
00-05-1000

Y\_\_N\_\_

### **HALE Series Class A Foam System**

The apparatus shall be equipped with an automatic electronically controlled, direct injection, discharge side foam proportioning system. Foam proportioning operation shall be based on direct measurement of water flow, and remain consistent within the specified flows and pressures.

A 12-volt DC powered variable-speed electronic direct-injection foam-concentrate proportioning system with a **2.1-gpm**-foam concentrate pump shall be integrated into the apparatus to provide foam proportioning. The pump shall be capable of handling Class A foam concentrate only and be operated by a full-function panel mounted digital display.

The system shall operate via a paddlewheel flow sensor mounted in a 3-inch (75mm) stainless steel check-valve manifold that includes a chemical injection point

The inlet of this stainless steel manifold/check-valve assembly will be connected to the fire pump, and the outlet connected to the foam capable discharge outlet(s) on the fire apparatus, as specified. The flow sensor/stainless-steel foam manifold combination shall be capable of water or foam solution flow rates of 30- to 750-gpm.

The foam proportioning system shall be equipped with a panel mounted digital display control unit with a microprocessor that monitors total water flow and foam concentrate pump output to provide the operator preset proportional amount of foam concentrate

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injected on the discharge side of the fire pump. Total foam concentrate pump concentrate output shall be 2.1 gallons per minute. Proportioning rate is push-button set by the pump operator on the digital display from 0.1% to 1%, in 0.1% increments.

The digital display panel mounted electronic operator control unit shall provide concentrate injection readout in tenths of a percent while also being able to read water flow, total water flowed and total amount of foam concentrate used. The control shall flash a warning indicating low concentrate in the reservoir to the operator, and shall be able to shut off the concentrate pump to prevent damage to the pump. A bar graph on the control unit shall provide visual indication of system operating capacity and will indicate when capacity is exceeded.

The foam concentrate pump shall be fed concentrate by a non-metallic housing foam concentrate strainer that is equipped with a service shut-off valve.

The unit will be fed 12-volt DC power from the apparatus electrical system, and be equipped with a chassis frame ground strap, per the foam proportioner manufacturer's installation and operating instruction manual.

The system shall be plumbed to one (1) 1-3/4" and the 2-1/2" crosslay discharges.

One (1)  
00-06-0000

Y\_\_N\_\_

### WATER TANK

One (1)  
00-06-0065

Y\_\_N\_\_

### ELLIPTICAL WATER TANK

The apparatus shall be equipped with an aluminum elliptical type water tank installed on the chassis frame rails.

The tank shall have a capacity of **2,000** U.S. Gallons, **1,680** Imperial Gallons.

The tank shall be designed specifically for fire service use and constructed entirely of aluminum components. The tank shall comply with the latest edition of ULC S515-M88 and NFPA 1901 standards.

The design of the tank shall be low profile, elliptical in shape with a flat back and top, providing a low center of gravity for superior handling and stability. Where provided, the apparatus body compartments shall be installed as integral components surrounding the water tank and incorporate a double rear wall to reduce condensation within the compartments.

The tank shell, frames, supports and sills shall be constructed entirely of corrosion resistant 5052-H32 aluminum. The tank shell shall be a minimum of 3/16" thickness. The tank heads shall be a minimum 1/4" thickness.

The tank shall be constructed with a containment baffling system consisting of 1/4" thickness transverse interior baffles to meet ULC S-515- M88 and NFPA 1901

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requirements. A 3" x 8" x 3" stiffener shall be welded to each baffle to provide additional strength. The baffle design shall facilitate fast filling and emptying of the tank.

The tank bottom shall be reinforced with full-length 1/4" thickness aluminum plate. Full-length 1/4" thickness aluminum sills and supports shall be attached to the tank bottom reinforcement. 3/16 thickness aluminum channel shall be affixed to the base of the sills. Installed within this channel shall be 1" x 3", 60 series rubber which shall act as a cushion to isolate the tank from the chassis frame rails.

The tank shall be attached to the chassis frame rails at a minimum of four (4) points on a single axle chassis and six (6) points on a tandem axle chassis. Each attachment point shall consist of a 1/2" thickness steel mount attached to the tank sill with a corresponding mount attached to the chassis frame rails. The rear mounts shall be joined with 3/4" bolts. The forward mounts shall be joined with 3/4" bolts through prestressed coil springs to permit movement between the chassis and the tank. Access to the mounting bolts shall be provided in the finished vehicle.

All welding performed on the tank and tank structures shall be full continuous seam type. No stitch welding shall be permitted.

Where custom fabricated fixtures and mounts are provided, they shall be fully welded to the water tank and/or hosebed. All welding shall be continuous bead for each item; no stitch welding shall be permitted. All weld beads shall be ground smooth and finished without burrs or sharp edges.

The tank shall be furnished with one (1) fill tower with spring loaded lid, installed at the top of the tank.

The tank shall be equipped with a 6" diameter aluminum overflow pipe, designed to eliminate spillage into the hosebed when the truck is moving. The overflow pipe shall be designed to dump any excess water behind the rear axle.

Bolt-on sealed lids shall be installed on the top of the tank to allow access into each of the internal baffled compartments.

All wiring for lighting and tank level gauges shall be run in aluminum conduit located at each corner of the tank. The conduit shall be installed internally within the water tank. The internal diameter of the conduit shall be large enough to accommodate the plug end of the tank-sending unit without disassembly.

The top of the water tank shall be furnished with a full length, full width hosebed constructed of 1/4" thickness aluminum. The hosebed shall be a full box enclosure open at the rear with minimum 6" high sides and front. The inner panels shall provide a smooth surface for the removal and loading of fire hose. The hosebed shall be fully seam welded (not bolted) around the perimeter to form an integral part of the tank structure.

Aluminum "C" channel tracks shall be provided at the front and rear of the hosebed for the mounting of adjustable hosebed partitions.

To provide ventilation for the fire hose and to prevent deterioration of the hosebed decking resulting from wet fire hose, the hosebed floor shall be equipped with removable

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decking constructed from plastic lumber.

One (1)  
00-06-0687

Y\_\_N\_\_

### WATER TANK FITTINGS

Threaded fittings shall be installed in the water tank during construction. The fittings shall be 3" in diameter and fully welded into the tank structure. Two (2) fittings shall be installed on the rear of the tank for the installation of tank fill valves and Two (2) fittings shall be installed in a side compartment to facilitate the installation of a portable pump. Unused fittings will be sealed with threaded plugs.

One (1)  
00-06-0690

Y\_\_N\_\_

### **Foam Tank**

One (1) 20 gallon poly foam tank is installed above the pump box for Class "A" foam

One (1)  
00-06-0709

Y\_\_N\_\_

### TANK FILLS

One (1)  
00-06-0710

Y\_\_N\_\_

### REAR TANK FILL -LEFT SIDE

One (1) 3" "Fireman's Friend" tank fill valve with built in check valve shall be mounted on the left rear of the water tank .The valve shall be finished with a 30 degree elbow, 4' storz inlet with screen, 4" to 2 1/2" female adapter, chrome plated plug and chain. The tank fill shall be equipped with an in-tank diffuser to prevent incoming water from contacting the tank baffles.

One (1)  
00-06-0717

Y\_\_N\_\_

### REAR TANK FILL CHECK VALVE

A swing check valve shall be installed at the base of the inlet piping inside the water tank.

One (1)  
00-06-0719

Y\_\_N\_\_

### DUMP VALVES

One (1)  
00-06-0721

Y\_\_N\_\_

### PROVISION FOR DUMP VALVE -REAR

#### **DUMP VALVE OULET**

There shall be a manually controlled Newton Kwik-Dump valve installed on the rear of the tank. The valve shall be 10" x 10" x 24" long and designed with a plunger type backplate.

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### **DUMP VALVE SWIVEL**

There shall be a 180-degree Chicksan style swivel attached to the dump valve . A vertical handle is installed at the end of the chute to assist with chute swing. There shall be a 48" pull out extension chute attached to the swivel to allow the discharge of water from the tank to either side or straight out the rear of the apparatus. When chute is extended it will have 34" of clearance from ground.

One (1)  
00-07-0000

Y\_\_N\_\_

BODY

One (1)  
00-07-0001

Y\_\_N\_\_

BODY DESCRIPTION

One (1)  
00-07-0015

Y\_\_N\_\_

### **PUMPER TANKER BODY**

#### General Design Requirements

The following specifications have been written to establish the minimum level of quality and design. Since the specified metal material and gauges are available to all manufacturers, exceptions or substitutions of lighter gauges, materials, or the use of custom extrusions shall not be acceptable.

#### Body Mounting

Prior to the construction of this vehicle, various chassis attachments such as battery boxes, air reservoirs, mufflers, tail pipes, filters, and other bolt on frame attachments may be relocated to permit full utilization of the chassis for tank mounting and equipment compartments.

#### Body and Compartment Fabrication

The compartment and body construction shall be fabricated from not less than 3/16" thickness type 5052H32 aluminum material. This shall include compartment front panel, vertical side, and rear walls, doorframes, compartment dividing walls, and compartment ceilings. The 3/16" aluminum compartment floor construction shall permit easy cleaning with a "sweep out" type design.

A channel shaped header shall be provided at the top of the side compartments to accommodate all 12 volt body wiring, providing protection for the wiring while permitting easy access, if required.

The compartment doorframe shall be of channel shaped double break design on the sides.

Vertical divider panels in compartment fabrication shall be in single metal sections wherever possible to eliminate welding.

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All compartments shall be provided with 5" diameter (approx.) louvered ventilation units in the lower back wall of the compartments.

All sheet metal welding shall be with inert gas, continuous feed welders only. The use of stick type welding shall not be used on the body due to heat distortion. Continuous welding shall be provided in both the wheel well area and spring hanger enclosure.

Only stainless steel bolts, nuts, and sheet metal screws shall be used in mounting exterior hardware, or equipment, with isolation from dissimilar metals where required. The use of pop rivets in any structural portion of the body and compartment construction shall not be acceptable. The use of pop rivets shall be acceptable for the attachment of trim or moldings.

All seams in the compartments shall be sealed with a continuous bead of urethane based waterproof sealant prior to painting. Compartment interiors shall be painted grey with chip guard protection.

Individual compartment modules, with dead air space voids between compartment sections, shall not be an acceptable method of body construction.

### Aluminum Treadplate

Aluminum treadplate shall be provided at the rear of the apparatus body directly below the water tank, the front face of the front body compartments and the left and right side compartment tops. On horizontal surfaces the treadplate shall be 1/8" thickness 3003H22 embossed aluminum to provide an NFPA compliant slip resistant surface. On vertical surfaces the treadplate shall be 3003H22 diamond bright aluminum, 3/16" thickness on vertical walls and .100" thickness on vertical overlays.

### Running Boards

The apparatus shall be equipped with side running boards, located at the base of the pump enclosure, each side. The running boards will extend from the forward end of the body module to behind the chassis cab. The running boards shall be constructed of 6061-T6 aluminum Diamondback ventilated deckplate to provide an NFPA compliant slip resistant surface. The running board assembly shall be supported by 3" x 2" full depth supports.

### Rear Body Step/Bumper

The rear step/bumper assembly of the apparatus shall be bolted to the lower edge of the rear compartment with a 1" space for water drainage. The step assembly shall be of one-piece construction, 8" deep minimum with angled corners for marker light mounting. The unit shall be constructed of 6061-T6 aluminum Diamondback ventilated deckplate to provide an NFPA compliant slip resistant surface

### Wheel Well Liner

The inner wheel well liner shall be constructed of 3/16" aluminum, fastened in place with a continuous welded seam. Prior to installation, the complete wheel well area shall be undercoated. The liner shall be fully enclosed at the rear.

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### Wheel Well Fenderette

The body wheel well openings shall be equipped with a round radius, polished stainless steel fenderette.

### Body Rub Rail

Protective rub rails shall be installed on the lower faces of all exterior compartments. The rub rails shall be of a channel design and shall extend beyond the compartments approximately 1 inch. The rails shall be bolted to the bottom lip of the compartment floor for maximum protection and ease of replacement. The rub rails shall be installed with 1/4" nylon spacers between the body and the rub rail to prevent contact of the two dissimilar metals and the trapping of road debris and de-icing chemicals between the rubrail and the body.

### Hose Body

The hose body shall be constructed of aluminum. The inner panels shall provide a smooth surface for the removal and loading of fire hose.

Aluminum "C" channel tracks shall be provided for the mounting of adjustable hosebed partitions.

There shall be two (2) tracks located at the front and one (1) track at the rear of the hosebed.

### Hosebed Decking

To provide ventilation for the fire hose and to prevent deterioration of the hosebed decking resulting from wet fire hose, the hosebed floor shall be equipped with removable decking constructed from plastic lumber.

One (1)  
00-07-0039

Y\_\_N\_\_

### COMPARTMENT DOORS

Four (4)  
00-07-0044

Y\_\_N\_\_

### **STANDARD HEIGHT ROLL-UP COMPARTMENT DOORS**

The apparatus shall be equipped with four (4) Amdor STANDARD HEIGHT compartment shutter doors. The doors shall be constructed of box frame type aluminum slats, with a satin anodized finish unless specified otherwise. The exterior slat surface shall be flat, while the rear surface shall be concave to prevent loose equipment from jamming the door.

The aluminum extrusions shall be equipped with nylon end shoes that slide in extruded aluminum tracks for easy operation.

The shutter door shall have a pre-tension operator sealed in an alloy drum, and positioned in the compartment for maximum clearance and headroom.

Each shutter door shall be a completely weather-resistant assembly. Neoprene seals

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shall be provided on the side, bottom, and upper portions of the door, and between each slat.

Latching of the exterior compartment shutter door shall be with an aluminum, spring loaded lift bar. The lift bar shall latch itself under two (2) cam shaped strike blocks mounted on the outer doorframe of the compartment.

A switch shall be installed to activate the compartment light(s).

One (1)  
00-07-0055

Y\_\_N\_\_

### BODY DIMENSIONS

One (1)  
00-07-0080

Y\_\_N\_\_

### EQUIPMENT COMPARTMENTS

| Overall Compartment Dimensions (inches) |       |        |       |
|---|-------|--------|-------|
| Compartment                             | Width | Height | Depth |
| L1/R1                                   | 71    | 36     | 28    |
| L2/R2                                   | 30    | 36     | 28    |
|   |       |        |       |

NOTE: Door installation may reduce compartment opening by up to 8 inches.  
Compartment depths are diminished by the thickness of the doors.  
Compartment upper depth diminishes to match tank contour.

One (1)  
00-08-0000

Y\_\_N\_\_

### BODY MODIFICATIONS AND ACCESSORIES

One (1)  
00-08-0001

Y\_\_N\_\_

### BODY PROTECTION PANELS

To protect areas of the apparatus that are subject to intensive wear or abuse, aluminum treadplate shall be provided on the rear of the apparatus body. On horizontal surfaces the treadplate shall be 1/8" thickness 3003H22 embossed aluminum to provide an NFPA compliant slip resistant surface. On vertical surfaces the treadplate shall be 3003H22 diamond bright aluminum, 3/16" thickness on vertical walls and .100" thickness on vertical overlays.

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One (1)  
00-08-0004

Y\_\_N\_\_

### **BODY RUB RAILS**

Polished Aluminum protective rub rails shall be installed on the lower faces of all exterior compartments. The rub rails shall be of a channel design and shall extend beyond the compartments approximately 1 inch. The rails shall be bolted to the bottom lip of the compartment floor for maximum protection and ease of replacement. The rub rails shall be installed with 1/4" nylon spacers between the body and the rub rail to prevent contact of the two dissimilar metals and the trapping of road debris and de-icing chemicals between the rubrail and the body.

One (1)  
00-08-0007

Y\_\_N\_\_

### **HANDRAILS AND STEPS**

Four (4)  
00-08-0010

Y\_\_N\_\_

### **ADDITIONAL HANDRAILS**

Four (4) handrails, up to 18" in length, shall be installed on the apparatus in locations determined by the purchaser. The handrail(s) shall be constructed of polished extruded aluminum with rubber inserts for maximum grip. The end stanchions shall be chrome plated, zinc diecast, mounted to the body with stainless steel bolts.

Four (4)  
00-08-0016

Y\_\_N\_\_

### **FOLDING STEPS**

Four (4) large polished folding steps shall be installed on the apparatus in locations indicated on the construction drawing. The steps shall have a minimum of 42 square inches of serrated nonskid surface area and meet current NFPA specifications. The steps shall be tested to withstand a minimum of 2000 pounds of static load. Heavy duty stainless steel springs shall be incorporated into the hinge to hold the steps in either the open or closed position.

One (1)  
00-08-0022

Y\_\_N\_\_

### **HOSE BED ACCESS LADDER**

An aluminum ladder with non-slip rungs shall be permanently attached to the rear of the apparatus to provide access from the rear step.

One (1)  
00-08-0024

Y\_\_N\_\_

### **LADDER / SUCTION / PORTA TANK STORAGE OPTIONS**

Two (2)  
00-08-0027

Y\_\_N\_\_

### **HARD SUCTION HOSE TROUGH(S)**

0606W-0001

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Storage for two (2) suction hose(s) shall be provided on the apparatus in the locations indicated on the construction drawing. The hose(s) shall be stored in aluminum trough(s) with velcro straps to secure the hoses.

One (1)  
00-08-0032

Y\_\_N\_\_

### **ELECTRIC PORTA TANK MOUNTING RACK -LEFT SIDE**

A Zico Quik-Lift electric portable water tank rack shall be installed on the left side of the apparatus. The rack shall be powered by two (2) electric actuators rated at 1,000 lbs. to lower the rack down against the side of the apparatus for tank removal and to return the rack to the stored position.

The rack shall be equipped with warning lights which shall activate automatically when the rack is in motion or in the lowered position along with a manual override system to allow the rack to be lowered or raised manually if required.

To provide protection to the portable water tank when stored in the rack, type #3003 polished aluminum treadplate panels shall be installed on the ends and outer side of the rack.

***Provision for one hard suction hose to be stored on top of porta-tank rack will be made. This will allow the suction hose to be lowered with the porta-tank.***

One (1)  
00-08-0036

Y\_\_N\_\_

### **LADDER BRACKETS**

Two (2) vertically mounted, cast aluminum ground ladder storage brackets shall be installed on the right side of the apparatus.

The ladder brackets shall be installed on slotted mounts welded to the body to provide additional support and to allow for vertical adjustment of the ladder brackets if required.

The ladders shall be held in place with two (2) spring loaded, cast aluminum clamps with handles.

One (1)  
00-08-0050

Y\_\_N\_\_

### **COMPARTMENT SHELVING AND TRAYS**

Four (4)  
00-08-0051

Y\_\_N\_\_

### **SHELF TRACKING FOR ADJUSTABLE SHELVES**

A total of four (4) compartment(s) shall be equipped with heavy duty, extruded aluminum, "C" channel vertical shelf tracking, one (1) per wall on compartment depths 20" or less

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and two (2) per wall on depths greater than 20".

Two (2)  
00-08-0055

Y\_\_N\_\_

### **ADJUSTABLE SHELVES**

Two (2) adjustable shelves shall be provided for compartment storage. The shelves shall be fabricated from 3/16" aluminum with a 2" double break at the front and the rear for strength and to allow the installation to be "lip up" for retaining equipment in the compartment or "lip down" for a smooth sweep-out front.

For ease of adjustment and as additional shelving reinforcement, the shelves shall not be bolted directly to the standards, but shall be supported by angle shelf holders that are in turn fastened to the shelving standards.

### **Shelf Locations**

| <b>Qty.</b> | <b>Compartment</b> |
|-------------|--------------------|
|-------------|--------------------|

|   |     |
|---|-----|
| 1 | L-1 |
| 1 | R-1 |

Two (2)  
00-08-0060

Y\_\_N\_\_

### **ROLLOUT TRAY(S)**

Two (2) rollout tray(s) shall be installed. Each tray shall be constructed of 3/16" aluminum, broken with a flange on all four sides with welded corners for added strength. The front flange shall be formed with a double break to create a full width handle for pulling out the tray. Each tray shall be mounted on Two (2) telescopic full extension slides equipped with precision steel ball bearings to provide high lateral stability and smooth action. A gas spring shall be utilized to hold the tray in both the open and stored positions.

### **Tray locations:**

| <b>Qty.</b> | <b>Compartment</b> |
|-------------|--------------------|
|-------------|--------------------|

|   |     |
|---|-----|
| 1 | L-1 |
| 1 | R-2 |

Three (3)  
00-08-0076

Y\_\_N\_\_

### **PLASTIC GRATING ON COMPARTMENT FLOORS**

The exterior compartment floor surfaces shall be provided with removable plastic grating.

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The grating shall be interlocking squares, black in color.

Four (4)  
00-08-0077

Y\_\_N\_\_

### **PLASTIC GRATING ON SHELVES AND ROLL OUT TRAYS**

The compartment shelves and roll out trays shall be provided with removable plastic grating. The grating shall be interlocking squares, black in color.

One (1)  
00-08-0140

Y\_\_N\_\_

### **PIKE POLE STORAGE OPTIONS**

One (1)  
00-08-0141

Y\_\_N\_\_

### **ALUMINUM PIKE POLE MOUNTING TUBE(S)**

One (1) aluminum tubes for mounting pike poles shall be installed. The tubes shall be furnished with an offset cutout in one end to allow the pike head to be inserted, turned, and locked into place.

#### **Mounting Location(s):**

One (1)  
00-08-0160

Y\_\_N\_\_

### **HOSEBED**

One (1)  
00-08-0161

Y\_\_N\_\_

### **HOSEBED DIVIDER(S)**

One (1) adjustable hosebed divider(s) shall be installed to separate individual hose loads. The divider(s) shall be constructed of 3/16" brushed finish, aluminum.

One (1)  
00-08-0164

Y\_\_N\_\_

### **VINYL HOSE BED COVER**

The hose bed shall be protected by a cover made from heavy duty 16 oz. (Minimum) reinforced vinyl. The cover shall be attached with velcro on the front and sides with additional chrome snap or twist-lock fasteners on the front for increased wind protection. The rear portion of the cover shall drop vertically to completely cover the rear of the hose load area and shall be secured at the bottom.

One (1)  
00-08-0170

Y\_\_N\_\_

### **WHEEL CHOCKS**

One (1)  
00-08-0171

Y\_\_N\_\_

### **WHEEL CHOCKS**

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One (1) wheel chock assembly shall be installed on the apparatus. Each assembly shall consist of two (2) wheel chocks with mounting bracket.

One (1)  
00-08-0190

Y\_\_N\_\_

LABELS

One (1)  
00-08-0191

Y\_\_N\_\_

### **SAFETY WARNING LABELS**

Warning labels as required by NFPA or ULC shall be supplied and installed on the apparatus.

One (1)  
00-10-0000

Y\_\_N\_\_

12 VOLT BODY ELECTRICAL SYSTEM

One (1)  
00-10-0005

Y\_\_N\_\_

### **12-VOLT ELECTRICAL SYSTEM**

The apparatus shall be equipped with a heavy-duty 12-volt electrical system. The system shall include all parts, components, switches, relays, and wiring to insure reliable operation. All body module electrical equipment shall be served by circuits, separate and distinct from the vehicle chassis circuits.

All wiring, installed by the apparatus body manufacturer, shall be stranded copper or copper alloy, type SXL, GXL or TXL, rated for 125% of the maximum current for which the circuit is protected. The wiring shall be function and colour coded, and mounted in a protective loom harnessed to body members with bolt on clips or nylon wire ties.

The edges of all metal members through which wiring passes shall be deburred and provided with edge protection or large rubber grommets. All electrical connections shall be made with heat shrinkable nylon crimps. Wire nut, insulation displacement, and insulation piercing connections shall not be used.

An all aluminum customized load center box shall be installed within a body compartment. This box shall provide a weatherproof centralized location housing all of the relays, breakers, current sensors, load managers, etc. required to effectively control the electrical system. From this box, separate harnesses shall be run to the applicable sections of the body; engine, pump compartment, switch pack, left body side and right body side. All wiring from power source to using device shall not have a voltage drop exceeding 10 %. Harnesses shall contain spare wires for future expansion of the system.

Switches, relays, terminals and connectors, installed by the apparatus body manufacturer, shall have a dc rating of 125% of the maximum current for which the circuit is protected. Protection of circuit shall be accomplished by utilizing fuses, circuit breakers, fusible links, or solid-state equivalent devices. Protective covers shall be provided for all terminal strips.

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The apparatus shall be furnished with a complete "As-Built" CAD wiring diagram for the apparatus body.

One (1)  
00-10-0007

Y\_\_N\_\_

### **CUSTOM CONSOLE AND SWITCH PANEL**

A custom console shall be installed in the cab, positioned for use by the driver or officer.

The console shall contain a 12 volt switch panel and the siren control head.

Additional space shall be provided for the installation of a 2-way radio head, and storage for maps and emergency response guides etc. The configuration of this space shall be based on the specific requirements of the purchaser.

The console shall have a removable cover to facilitate inspection and servicing.

The 12 volt switch panel shall house the switches for the emergency warning lights and other non-emergency lighting and controls. The switches shall be rocker type with coloured indicator lamps in each switch. All emergency warning light switches shall utilize a red indicator lamp. All other switch indicators shall be green. A master warning light switch shall be installed to permit the emergency warning light system to be activated by one switch.

One (1)  
00-10-0012

Y\_\_N\_\_

### **MASTER BATTERY DISCONNECT SWITCH WITH INDICATOR LIGHT**

A master battery disconnect switch with green indicator light shall be installed in the chassis cab, driver's side.

One (1)  
00-10-0014

Y\_\_N\_\_

### **STOP / TAIL AND CLEARANCE LIGHTS**

One (1)  
00-10-0017

Y\_\_N\_\_

### **REAR STOP, TURN AND BACK-UP LIGHTS -LED**

The rear of the apparatus shall be equipped with two (2) taillight groupings, one mounted on each side. Each grouping shall consist of One (1) Whelen 640CLBRR 6" x 4" red LED lamp for stop and tail, One (1) Whelen 640CLTAR 6" x 4" amber arrow turn signal, One (1) Whelen 6EBACKW 6" x 4" clear halogen backup lamp. Each individual lamp shall be equipped with a chrome mounting flange.

One (1)  
00-10-0020

Y\_\_N\_\_

### **LICENSE PLATE LIGHT WITH MOUNT**

A license plate light with tag mounting hardware shall be installed on the rear of the apparatus.

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One (1)  
00-10-0025

Y\_\_N\_\_

### **BODY CLEARANCE AND MARKER LIGHTS AND REFLECTORS**

The apparatus shall be equipped with body clearance and marker lights and reflectors mounted at various locations. The size, quantity, location and colour shall conform to Federal Motor Vehicle Safety Standards and/or Regulations.

The Clearance and marker lights shall be of the LED type.

One (1)  
00-10-0031

Y\_\_N\_\_

### **BACKUP ALARM**

A backup alarm with a minimum output of 87 dba, shall be installed at the rear of the apparatus. The alarm shall activate automatically when the gear selector is placed in reverse.

One (1)  
00-10-0049

Y\_\_N\_\_

### **GROUND AND STEP LIGHTING**

One (1)  
00-10-0050

Y\_\_N\_\_

### **GROUND ILLUMINATION LIGHTS**

Six (6) Ground illumination lights, minimum 4" in diameter, shall be installed under the apparatus cab and body to illuminate the ground at the areas designed for personnel to climb onto or descend from the apparatus. Lights shall be mounted under the body on a slight angle at the cab steps, at the side running boards and the rear body step/bumper area. The lights shall activate when the parking brake is set and the headlights are on.

Two (2)  
00-10-0054

Y\_\_N\_\_

### **REAR STEP LIGHTING**

Two (2) Chrome plated, surface mounted worklight(s) shall be provided, to illuminate the rear step/bumper area. The light(s) shall have a clear lens and shall activate when the headlights are switched on and the parking brake is applied.

One (1)  
00-10-0060

Y\_\_N\_\_

### **12 VOLT SCENE LIGHTING**

Two (2)  
00-10-0062

Y\_\_N\_\_

### **SCENELIGHT(S)**

Two (2) Whelen Model 508, 5" x 8" clear halogen scenelight(s) with chrome flange and 8-

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32 degree optics shall be installed on the apparatus.

### Mounting Locations:

Two (2)  
00-10-0065

Y\_\_N\_\_

### FLOODLIGHT(S)

Two (2) Fire Research FOCUS Side Mount, Bottom Raise Scene Lights with 150 Watt, 12 volt, low profile lamphead shall be provided and installed on the apparatus.

The light head shall be installed on a 4' anodized aluminum extension pole furnished with a knurled positive grip twist lock tightening mechanism. The use of a knob or latch to release the pole in order to raise and lower the telescoping portion of the pole shall not be acceptable.

### Mounting Location(s):

One (1)  
00-10-0069

Y\_\_N\_\_

### FLOOD DECK LIGHTS

Two (2) Unity Model UA 6, 12 volt, fixed mount, halogen flood lights shall be installed at the rear of the apparatus body. Each light shall have grip knob and a unit-mounted switch and shall be designed to rotate through 360 degrees horizontally and 180 degrees vertically. Each light shall have a heavy-duty chrome finish on non-corrosive materials and shall be equipped with a clear floodlight lamp, 35 watts, 1,100 CP, rated at 300 hours lamp life.

One (1)  
00-10-0090

Y\_\_N\_\_

### REAR TRAFFIC ADVISOR

A Whelen model TANF85 traffic advisor complete with eight linear LED heads will be installed on rear of apparatus.

One (1)  
00-10-0119

Y\_\_N\_\_

### COMPARTMENT LIGHTING

Two (2)  
00-10-0120

Y\_\_N\_\_

### COMPARTMENT LIGHTS -2 PER COMPARTMENT

Two (2) compartment(s) of the apparatus shall be equipped with two (2) Amdor LumaBar strip LED compartment lights with clear lens, mounted on the interior, one on each side of compartment door.

One (1)  
00-10-0139

Y\_\_N\_\_

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### DOOR AJAR WARNING SYSTEM

The apparatus shall be equipped with one (1) visual warning light to inform the driver of an open compartment door. The light shall be a minimum of 3" in diameter, with a red lens and shall flash when activated. The light shall be located in the cab, in clear, unobstructed view of the driver.

The light shall be labelled "DO NOT MOVE APPARATUS WHEN LIGHT IS ON"

A current sensor, installed in the compartment door light circuit, shall control the warning light.

One (1)  
00-10-0200

Y\_\_N\_\_

### WARNING LIGHTS

One (1)  
00-10-0201

Y\_\_N\_\_

### EMERGENCY WARNING LIGHT SYSTEM

An emergency warning light system, conforming to the requirements of NFPA 1901, shall be installed on the apparatus. The system shall be designed to provide an optical warning at the front, rear, left and right sides of the apparatus.

The system shall operate in two signalling 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.

The system shall operate in the CALLING FOR RIGHT-OF-WAY mode by activating a master switch in the chassis cab. The system shall switch automatically to BLOCKING RIGHT-OF-WAY mode when the parking brake is applied or the transmission is placed in park position.

One (1)  
00-10-0203

Y\_\_N\_\_

### LIGHTING SYSTEM COMPONENTS

The emergency lighting system shall consist of the following components:

#### FRONT UPPER

One (1) Whelen Model FN6Q0LED 60" LED Lightbar installed on the chassis cab roof. The lightbar shall consist of Two Front Corner Red Linear-LED's, Four Front Linear-LED's. (2 Red/2 White) and Two End Red Linear-LED's.

#### FRONT LOWER

Two (2) Whelen M6 series LED warning lights with red lenses installed on the front grille.

#### LEFT AND RIGHT SIDE

A total of Four (4) Whelen M6 series LED warning lights with red lenses installed Two (2) per side. One (1) light shall be positioned forward of the front axle centerline and as close

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to the front corner of the apparatus as practical. One (1) light shall be positioned behind the rear axle centerline and as close to the rear corner of the apparatus as practical.

### REAR UPPER

Two (2) Whelen model L31H LED beacons Installed on the upper rear of the apparatus. One lens shall be red, one lens shall be amber.

### REAR LOWER

Two (2) Whelen M6 series LED warning lights with red lenses installed on the lower rear of the apparatus body.

The lights shall be controlled by switches located on the cab switch module.

One (1)  
00-10-0400

Y\_\_N\_\_

### SIRENS

One (1)  
00-10-0450

Y\_\_N\_\_

### ELECTRONIC SIREN

A Code 3 Model 3920 solid state, 100 watt electronic siren shall be installed. The siren shall be controlled by a remote switch pad located in the cab and shall produce wail, yelp, hyperyelp and air horn tones.

One (1)  
00-10-0470

Y\_\_N\_\_

### SIREN SPEAKER OPTIONS

One (1)  
00-10-0481

Y\_\_N\_\_

### SIREN SPEAKER(S)

One (1) Cast Products, polished aluminum, 100 watt speaker(s) shall be mounted in the front bumper and wired to the electronic siren.

One (1)  
00-14-0000

Y\_\_N\_\_

### EQUIPMENT SUPPLIED WITH VEHICLE

One (1)  
00-14-0001

Y\_\_N\_\_

### LADDERS

One (1)  
00-14-0010

Y\_\_N\_\_

One (1) Duo-Safety Series 585-A, 10 ft aluminum folding ladder.

One (1)  
00-14-0019

Y\_\_N\_\_

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One (1) Duo-Safety Series 775-A, 12 ft aluminum roof ladder with folding hooks.

One (1)  
00-14-0025

Y\_\_N\_\_

One (1) Duo-Safety Series 900-A, 24 ft., 2-section, aluminum extension ladder.

One (1)  
00-14-0049

Y\_\_N\_\_

### PIKE POLES

One (1)  
00-14-0058

Y\_\_N\_\_

One (1) 10 foot pike pole with fiberglass handle.

One (1)  
00-14-0069

Y\_\_N\_\_

### SUCTION HOSE

Two (2)  
00-14-0071

Y\_\_N\_\_

### **6" LIGHT WEIGHT HARD SUCTION HOSE**

Two (2) Ten (10) ft. light weight hard suction hose(s) shall be supplied with the vehicle. The internal diameter of the hose shall be six (6) inches.

One (1)  
00-14-0080

Y\_\_N\_\_

### **LOW LEVEL STRAINER WITH JET SIPHON**

One (1) Low level hard suction strainer(s) with jet siphon, shall be supplied with the vehicle.

One (1)  
00-14-0090

Y\_\_N\_\_

### PORTA TANKS

One (1)  
00-14-0091

Y\_\_N\_\_

### **PORTA TANK 2000 US GALLON**

One (1) Portable water tank(s) with a capacity of 2,000 US Gallons (1680 Imperial Gallons), shall be furnished with the vehicle.

The tank(s) shall be manufactured by Sopers Inc. and shall utilize an aluminum tubular steel frame with a yellow, 22 oz. vinyl covered polyester liner.

One (1)  
00-14-0499

Y\_\_N\_\_

### WRENCHES AND WRENCH HOLDERS

Two (2)  
00-14-0500

Y\_\_N\_\_

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### **WRENCH HOLDER WITH WRENCHES**

Two (2) Akron model 448 aluminum wrench holder(s) shall be installed on the apparatus. Each wrench holder shall be equipped with Two (2) Akron style 10 universal spanner wrenches.

#### **Mounting Location:**

One (1)  
00-20-0000

Y\_\_N\_\_

PAINT AND STRIPING

One (1)  
00-20-0005

Y\_\_N\_\_

### **PAINT, PREP, AND FINISH**

The apparatus body shall be finished to fire apparatus standards. All exposed ferrous metal surfaces not plated or stainless steel shall be painted.

PPG paint shall be used on the body. Consistent with this requirement and to insure optimum adhesion of final paint and long service of paint, all related materials shall be those specified by the paint manufacturer for use with their finish.

The apparatus body shall be fully assembled with all items that require drilling of holes for mounting, prior to any primer or paint being applied. All items that are removable by means of screws, bolts, or nuts, shall then be removed to insure that all holes, openings, and fittings receive a full coat of both primers and finish paint. Any items that have been removed, that require painting such as fabricated mounts, compartment doors, etc. shall be painted separately.

All areas of the body that are not chrome plated, polished aluminum, or stainless steel shall be prepped, sanded, and properly cleaned to prepare the surface for final paint. All irregularities in primed surfaces shall be sanded down before application of the finish coats.

The painting process shall be a four (4) stage process, consisting of (1) a vinyl wash primer; (2) a vinyl high solids primer; (3) a vinyl sealer primer; (4) a final topcoat. The primer bases shall be applied consistent with good painting techniques thereby providing an extended corrosion protection period.

The final topcoat color applied to the body shall have a total mil thickness of 6 to 8 mils.

One (1)  
00-20-0010

Y\_\_N\_\_

### **PAINT PUMP COMPARTMENT, PUMP, VALVES, AND HARD PIPING**

The pump compartment, fire pump, valves, and hard piping shall be painted job color.

One (1)  
00-20-0026

Y\_\_N\_\_

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## **COMPARTMENT PAINT FINISH**

Each compartment interior shall be finished with grey spatter type paint.

One (1)  
00-20-0030

Y\_\_N\_\_

## **WHEEL TRIM**

The outside surface of the chassis wheels shall be equipped with chrome hub and nut covers.

One (1)  
00-20-0035

Y\_\_N\_\_

## **REFLECTIVE STRIPING**

A Four (4) inch reflective WHITE stripe, conforming to Federal specifications for reflectivity, shall be provided around the perimeter of the vehicle. At least 50 percent of the cab and body length on each side, at least 50 percent of the rear body width and at least 25 percent of the width of the front of the apparatus shall have the reflective material affixed to it per NFPA requirements.

One (1)  
00-20-0040

Y\_\_N\_\_

## **1" ADDITIONAL REFLECTIVE STRIPING**

One (1) 1" reflective WHITE stripe(s), conforming to Federal specifications for reflectivity, shall be provided around the perimeter of the vehicle, in addition to the standard body stripe. Final striping pattern to be confirmed with purchaser prior to application.

Two (2)  
00-20-0044

Y\_\_N\_\_

## **REFLECTIVE STRIPING INSIDE CAB DOORS**

A minimum of 96 square inches of reflective material, conforming to Federal specifications for reflectivity, shall be affixed to the inside of each cab door in accordance with the National Fire Protection Association (NFPA) 1901 Standard for Automotive Fire Apparatus.

One (1)  
00-20-0047

Y\_\_N\_\_

## **LETTERING AND NUMBERING**

### **To be done by customer**

One (1) Reflective letters or numbers with printed outline shadow, shall be applied to the apparatus. Size, colour, wording and location to be confirmed with purchaser at pre-construction meeting.

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One (1)  
00-20-0048

Y\_\_N\_\_

### **LETTERING AND NUMBERING**

#### **to be done by Customer**

One (1) Reflective letters or numbers with printed outline shadow, shall be applied to the apparatus. Size, colour, wording and location to be confirmed with purchaser at pre-construction meeting.

One (1)  
00-20-0050

Y\_\_N\_\_

### **REFLECTIVE SIGNAGE**

A durable sign with reflective lettering stating "STAY BACK 150 Meters" (or equivalent) shall be installed on the rear of the vehicle.

One (1)  
00-20-0060

Y\_\_N\_\_

### **BODY RUST PROTECTION**

The entire underside of the apparatus body and body under structure sheet metal work shall be sprayed with a rust inhibiting agent to provide corrosion protection. In addition, KROWN petroleum based rust preventative shall be applied to the vehicle. A non-evaporating liquid product with lubricant properties, KROWN spreads along metal and painted surfaces, displaces moisture, creeps into crevices, and creates a thin, self-repairing corrosion- fighting barrier.