
REQUEST FOR QUOTATION

NUMBER 2021-005

Town of Nipawin

Fire Department Rescue Truck

210 – 2nd Avenue East

Nipawin, SK. S0E 1E0





Town of Nipawin
Fire Department
Rescue Truck

**REQUEST FOR QUOTATION
NUMBER 2021-005**

210 – 2nd Avenue East
Nipawin, SK. S0E 1E0

Issue Date: August 16, 2021

Closing Time for Receipt by the Client of the Submission: 4:00 pm

Closing Date for Receipt by the Client of the Submission: September 21, 2021

Anticipated Project Award Date: September 27, 2021

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Introduction

The Town of Nipawin is seeking quotations from reputable vendors to facilitate the purchase of a Rescue Truck to be used by the Town of Nipawin Fire Department.

This vehicle will be used in technical rescue, and it must facilitate transportation of appropriate specialized technical rescue equipment.

Delivery of the unit must be made to the Town of Nipawin as agreed within the accepted RFQ submission.

Questions/inquiries regarding the Request for Quotations may be submitted via email or phone to:

Barry Elliott

CAO

Phone: 1-306-862-9866

Email: b.elliott@nipawin.com

1.0 Community Information

The Town of Nipawin is located in Northeast Saskatchewan, approximately 160 km east of Prince Albert and 270 km northeast of Saskatoon. According to the 2016 Federal Census, Nipawin has a population of 4,401, however Saskatchewan Health numbers indicate the population is approximately 5,600.

The Town Fire Department provides fire and rescue services to a regional population of approximately 6,700 people through a Regional Fire Services Agreement with 5 additional municipal partners and 2 Regional Parks.

The Town employs a full-time Fire Chief and 30 volunteer Firefighters.

2.0 Project Scope

2.1 Purpose

The purpose of this Request for Quotations is to inform potential vendors of an opportunity and to permit interested vendors to submit quotations.

3.0 Deliverables

3.1 Unit

The successful Vendor shall supply the Town of Nipawin with a Fire Department Rescue Truck that conforms with all stated specifications, or those individual specifications of equivalent quality, size, capacity, or applicability, as identified within "Schedule B" as attached hereto. **Where brands of products are specifically stated within "Schedule B", it is understood and agreed that other product brands deemed to be "EQUIVALENT" to those stated shall be acceptable.**

4.0 Submission Requirements

4.1 Quotations submitted shall include:

- Costs and any additional fees related to the Town's acquisition of the equipment
- Information introducing the vendor and the products it provides
- Information that confirms the provision of after-sales vendor support and equipment service, including the location of the nearest parts/service facility
- Information confirming the delivery timetable once the purchase has been authorized
- Information confirming the on-site training/orientation to be provided by the vendor to the client's operating personnel and the client's maintenance/service employees
- Any other information that would help the Town better understand your proposal

5.0 Terms and Conditions

5.1 The Town:

- Shall not pay for quotations submitted.
- Reserves the right to reject any or all quotations.
- Shall require a contract prior to awarding the RFQ.

6.0 Submissions

6.1 Selection Process

- The Town of Nipawin shall evaluate all quotations to ensure they meet the requirements of this Request for Quotations.
- All unsuccessful submitters shall be notified by mail.
- Quotations are **NOT** to include GST in their bid pricing.

6.2 Submission and Closing Date

Quotations, with attached Signing Page (Schedule "A"), must be received no later than 4:00 pm local time on September 21, 2021. Two (2) hard copies of RFQ submissions must be submitted if quotations are sent via mail or delivered in person. Electronic copies will also be accepted. If the vendor chooses to submit electronic copies they must be signed. The submission of hard copies will not be required in addition to electronic copies. Any submissions received after the RFQ closing date and time will not be accepted. Quotations may be emailed or mailed to the undersigned.

Barry Elliott

CAO

Phone: 1-306-862-9866

Email: b.elliott@nipawin.com

6.3 Submission of Quotations

Submitted Quotations are to be clearly marked as follows. Please include the following information:

*Town of Nipawin
Fire Department – Rescue Truck RFQ # 2021-005
210 2nd Avenue East
P.O. Box 2134
Nipawin, Saskatchewan SOE 1E0*

COMPANY NAME:		
STREET ADDRESS:		
CITY:	PROVINCE:	POSTAL CODE:
REPRESENTATIVE:	PHONE NUMBER:	
E-MAIL:	FAX NUMBER:	
GST REGISTRATION NUMBER:		
AUTHORIZED SIGNATURE:		DATE:
PRINT SIGNATURE AND TITLE:		

7.0 Evaluation of Quotations

Evaluation Criteria

Submitted quotations will be evaluated against the following criteria:

- Cost of the equipment (50%)
- Delivery Timeline (10%)
- Orientation/training to be provided to Client resources (10%)
- After-sales parts/service deliverables (25%)
- Quality of past relationship/Client dealings with the Vendor (5%)

Evaluation Team

An evaluation Team comprised of representatives from the Town will assess the quotations. The Evaluation Team may, in addition to Town representatives, include external consultants and technical advisors.

Clarification

The Town reserves the right to contact any Vendor to seek clarification of the contents of the quotation submission in order to ensure all requirements of the RFQ are being met.

Quotation Evaluation Process

The evaluation stage will consist of a scoring by the Evaluation Team of each qualified Vendor on the basis of the identified criteria of the written quotations. The highest scored quotation, representing best overall value to the Town, will be recommended for selection by the Evaluation Team.

Recommendation / Award

Recommendation for award of this quotation will be based on the Proponent's overall total score. **By responding to this RFQ, the Proponent agrees to accept the recommendation of the Evaluation Team as final and binding.** Award of the quotation will require the approval of Town Council.

8.0 Terms and Conditions of the RFQ Process

Proponents to Follow Instructions

Proponents should structure their quotations in accordance with the instructions in this RFQ. Where information is requested in this RFQ, any response made in a quotation should reference the applicable section numbers of the RFQ where that request is made.

Proponents to Review RFQ

Proponents shall promptly examine all the documents comprising this RFQ and:

1. Shall report any errors, omissions, or ambiguities; and
2. May direct questions or seek additional information by fax or email, on or before the Proponent's deadline for questions to the Town Contact. No such communications are to be directed to anyone other than the Town Contact. The Town is under no obligation to provide additional information but may do so at its sole discretion.

The Town Contact for this RFQ is:

Barry Elliott, RMA, CLGM, CMMA
Chief Administrative Officer
Town of Nipawin
210 Second Avenue East
Box 2134
Nipawin, SK S0E 1E0
Phone: (306) 862-9866
Email: b.elliott@nipawin.com

The Town and its agents do not make any representations, warranty, or guarantee as to the accuracy of the information contained in the RFQ or issued by way of addenda. It is the Proponent's responsibility to avail itself of all the necessary information to prepare a quotation in response to this RFQ.

Town May Seek Clarification and Incorporate Response into Quotation

The Town reserves the right to seek clarification and supplementary information from Proponents after the quotation submission deadline. Any response received by the Town from a Proponent shall, if accepted by the Town, form an integral part of that Proponent's quotation.

RFQ Incorporated into Quotation

All the provisions of this RFQ are deemed to be accepted by each Proponent and incorporated into each Proponent's quotation.

Quotation Property of the Town

Except where expressly set out to the contrary in this RFQ, the quotation and any accompanying documentation submitted by a Proponent shall become the property of the Town and shall not be returned.

9.0 General Clauses

Confidential Information of the Town

All information provided by or obtained from the Town in any form in connection with this RFQ either before or after the issuance of this RFQ:

- a) Is the sole property of the Town and must be treated as confidential.
- b) Is not to be used for any purpose other than replying to this RFQ.
- c) Must not be disclosed without prior written authorization from the Town; and
- d) Shall be returned by the Proponents to the Town immediately upon the request of the Town.

Subject to *Local Authority Freedom of Information and Protection of Privacy Act*

Information provided by a Proponent may be released in accordance with the *Local Authority Freedom of Information and Protection of Privacy Act*. A Proponent shall identify any information in its quotation or any accompanying documentation for which confidentiality is to be maintained by the Town. The confidentiality of such information will be maintained by the Town, except where an order is made by the Information and Privacy Commissioner, or a court of competent jurisdiction requires the Town to do otherwise.

Rights of the Town

In addition to any other expressed rights or any other rights which may be implied in the circumstances, the Town reserves the rights to:

- a) Make public the names of any or all Proponents.
- b) Request written clarification or the submission of supplementary written information from any Proponent.
- c) Waive formalities and accept proposals which substantially comply with the requirements of the RFQ.
- d) Verify with any Proponent or with a third party any information set out in a quotation.
- e) Check references other than those provided by any Proponent.
- f) Disqualify any Proponent whose quotation contains misrepresentations or any other inaccurate or misleading information.
- g) Disqualify any Proponent or the quotation of any Proponent who has engaged in conduct prohibited by this RFQ.
- h) Accept or reject a quotation if only one quotation is submitted.
- i) Select any Proponent other than the Proponent whose quotation reflects the lowest cost to the Town.
- j) Cancel this RFQ process at any stage.

- k) Cancel this RFQ process at any stage and issue a new RFQ for the same or similar products/services.
- l) Accept any quotation in whole or in part, provided that doing so complies with the Town Purchasing Policy and other applicable laws.
- m) Discuss with any Proponent different or additional terms to those contemplated in this RFQ or in any Proponent's quotation.
- n) Reject any or all quotations in its absolute discretion.

and the Town shall not be liable for any expenses, costs, losses or any direct or indirect damages incurred or suffered by any Proponent or any third party resulting from the Town exercising any of its express rights under this RFQ or exercising any rights which may be implied in the circumstances. By submitting a quotation, the Proponent authorizes the collection by the Town of the information set out above in the manner contemplated in those subparagraphs.

Privilege

The Town of Nipawin reserves the right to reject any and all RFQ submissions, not necessarily accept the lowest cost submission, or to accept any submission that it deems, at its sole discretion, to be in the best interest of the Town.

Agreement Refusal

“The Town reserves the right to refuse to contract with a vendor, supplier, contractor, person, or entity which has threatened or commenced litigation against the Town, breached any material terms of prior contracts, failed to perform as required pursuant to prior contracts, or has performed a wrong-doing against the Town which could be punishable in the courts.”

Governing Law of RFP Process

This RFQ process shall be governed by and construed in accordance with the laws of the Province of Saskatchewan and the federal laws of Canada applicable therein.

Signing Page (Schedule A)

All submissions must be signed:

Town of Nipawin Fire Department – Rescue Truck

I/We certify that the information provided in this RFQ Response Document is true and complete.

I/We declare that no employee of the Town of Nipawin is or will become interested, directly or indirectly, as a contracting party or otherwise in the supplies, work or business to which it relates or in any portion of the profits thereof, or in any such supplies to be therein or in any of the monies derived there from.

I/We further declare that the undersigned is empowered by the Proponent to negotiate all matters with the partnering municipality's representatives, relative to this quotation.

I/We further declare that the agent listed below is hereby authorized by the Proponent to submit this quotation and is authorized to negotiate on behalf of the Proponent.

Company Name: _____

Submitter's Signature: _____

Submitter's Printed Name: _____

Submitter's Title: _____

Email: _____

Business Phone: _____

Business Fax: _____

RESCUE TRUCK SPECIFICATIONS

Price Level
M2 PRL-26M (EFF:7/26/21)
Data Version
SPECPRO21 DATA RELEASE VER 006
Vehicle Configuration
M2 106 CONVENTIONAL CHASSIS
2023 MODEL YEAR SPECIFIED
SET BACK AXLE - TRUCK
STRAIGHT TRUCK PROVISION
LH PRIMARY STEERING LOCATION
General Service
TRUCK CONFIGURATION
DOMICILED, CANADA (OTHER THAN QUEBEC)
FIXED CANADIAN EXCHANGE
RESCUE AND EMERGENCY SERVICE
EMERGENCY VEHICLES BUSINESS SEGMENT
FIXED LOAD COMMODITY
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE
MEDIUM TRUCK WARRANTY
EXPECTED FRONT AXLE(S) LOAD: 12000.0 lbs.
EXPECTED REAR DRIVE AXLE(S) LOAD: 24000.0 lbs.
EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 36000.0 lbs.
Truck Service
RESCUE - STRAIGHT (NON-DROP) FRAME NO MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO
ROSENBAUER
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES: 32.0 in
Engine
CUM L9 360EV HP @ 2200 RPM, 2200 GOV RPM, 1150 LB-FT @ 1200 RPM, R/F/E
Electronic Parameters
75 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT
PTO MODE CANCEL VEHICLE SPEED - 5 MPH
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND
PTO MINIMUM RPM - 700
REGEN INHIBIT SPEED THRESHOLD - 5 MPH

Engine Equipment
2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG21 CONFIGURATION
NO 2008 CARB EMISSION CERTIFICATION
OIL PAN FOR AWD AND AWD CONVERSIONS
ENGINE MOUNTED OIL CHECK AND FILL
SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER
DR 12V 275 AMP 40-SI BRUSHLESS PAD ALTERNATOR WITH REMOTE BATTERY VOLTAGE SENSE
(2) DTNA GENUINE, FLOODED STARTING, MIN 2000CCA, 370RC, THREADED STUD BATTERIES
BATTERY BOX FRAME MOUNTED
STANDARD BATTERY JUMPERS
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN
NON-POLISHED BATTERY BOX COVER
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY VALVE
STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR
AIR COMPRESSOR DISCHARGE LINE
GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING
CUMMINS ENGINE INTEGRAL BRAKE WITH VARIABLE GEOMETRY TURBO ON/OFF
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH C-PILLAR MOUNTED VERTICAL TAILPIPE
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD REGENERATION AND DASH MOUNTED REGENERATION REQUEST SWITCH
11 FOOT 06 INCH (138 INCH+0/-5.9 INCH) EXHAUST SYSTEM HEIGHT
RH CURVED VERTICAL TAILPIPE C-PILLAR MOUNTED ROUTED FROM STEP
6 GALLON DIESEL EXHAUST FLUID TANK
100 PERCENT DIESEL EXHAUST FLUID FILL
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
STANDARD DIESEL EXHAUST FLUID TANK CAP
ALUMINUM AFTERTREATMENT DEVICE/MUFFLER/TAILOPIPE SHIELD(S)
HORTON DRIVEMASTER ADVANTAGE ON/OFF FAN DRIVE
AUTOMATIC FAN CONTROL WITHOUT DASH SWITCH, NON-ENGINE MOUNTED
CUMMINS SPIN ON FUEL FILTER
COMBINATION FULL FLOW/BYPASS OIL FILTER
1100 SQUARE INCH ALUMINUM RADIATOR
ANTIFREEZE TO -60F, OAT (NITRITE AND SILCATE FREE) EXTENDED LIFE COOLANT

GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
RADIATOR DRAIN VALVE
LOWER RADIATOR GUARD
PHILLIPS-TEMRO 1000 WATT/115 VOLT BLOCK HEATER
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR
ALUMINUM FLYWHEEL HOUSING
ELECTRIC GRID AIR INTAKE WARMER
DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH
Transmission
ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Transmission Equipment
ALLISON VOCATIONAL PACKAGE 170 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL RDS AND EVS
ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES
PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
S1 PERFORMANCE PRIMARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
S3 ECONOMY SECONDARY SHIFT SCHEDULE, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
2200 RPM PRIMARY MODE SHIFT SPEED
2000 RPM SECONDARY MODE SHIFT SPEED
ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED
DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES
VEHICLE INTERFACE WIRING CONNECTOR WITHOUT BLUNT CUTS, AT BACK OF CAB
ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED
TRANSMISSION PROGNOSTICS - ENABLED 2013
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK
MERITOR MTC-4210 AND MTC-4213 TRANSFER CASE OIL COOLER
TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
MERITOR MTC 4210XL-EC 2-SPEED TRANSFER CASE

TRANSFER CASE SHIFT CONTROLS WITH TRANSFER CASE PTO ON/OFF SWITCH WHEN APPLICABLE
SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)
Front Axle and Equipment
MX-12-120-EVO 12,000# 1790MM KPI SINGLE FRONT DRIVE AXLE
4.88 FRONT AXLE RATIO
MXL 16T MERITOR EXTENDED LUBE FRONT STEERING AXLE DRIVELINE WITH HALF ROUND YOKES
MERITOR 16.5X5 Q+ MX DRIVE AXLE CAST SPIDER HEAVY DUTY CAM FRONT BRAKES
FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING
MERITOR CAST IRON FRONT BRAKE DRUMS
FRONT BRAKE DUST SHIELDS
FRONT OIL SEALS
STANDARD SPINDLE NUTS FOR ALL AXLES
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
TRW THP-60 POWER STEERING
POWER STEERING PUMP
2 QUART SEE THROUGH POWER STEERING RESERVOIR
CURRENT AVAILABLE SYNTHETIC 75W-90 FRONT AXLE LUBE
Front Suspension
12,000# TAPERLEAF FRONT SUSPENSION
MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION
FRONT SHOCK ABSORBERS
Rear Axle and Equipment
RS-23-161 24,000# R-SERIES FIRE/EMERGENCY SERVICE SINGLE REAR AXLE
4.89 REAR AXLE RATIO
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING
MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES
MXL 17T MERITOR EXTENDED LUBE INTERTRANSMISSION DRIVELINE WITH HALF ROUND YOKES
DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE
(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE
BLINKING LAMP WITH EACH MODE SWITCH, DIFFERENTIAL UNLOCK WITH IGNITION OFF, ACTIVE <5 MPH
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON REAR SIDE OF DRIVE AXLE(S)
WEBB HEAVY WEIGHT CAST IRON REAR BRAKE DRUMS
REAR BRAKE DUST SHIELDS
REAR OIL SEALS
WABCO TRISTOP D LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS
MERITOR AUTOMATIC REAR SLACK ADJUSTERS

CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE
Rear Suspension
24,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER, WITH RADIUS ROD, FOR FIRE/EMERGENCY SERVICE
SPRING SUSPENSION - 2.25 INCH AXLE SPACER
STANDARD AXLE SEATS IN AXLE CLAMP GROUP
FORE/AFT CONTROL RODS
Brake System
AIR BRAKE PACKAGE
WABCO 4S/4M ABS WITH TRACTION CONTROL
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
STD U.S. FRONT BRAKE VALVE
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER
AIR DRYER MOUNTED INBOARD ON LH RAIL
STEEL AIR BRAKE RESERVOIRS, NO TRIPLE OR TORPEDO TANKS
CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET BOTH RAILS OUTBOARD
BW DV-2 AUTO DRAIN VALVE WITH HEATER - WET TANK
EXTERNAL CHARGING QUICK DISCONNECT FITTING
Trailer Connections
UPGRADED CHASSIS MULTIPLEXING UNIT
UPGRADED BULKHEAD MULTIPLEXING UNIT
Wheelbase & Frame
5750MM (226 INCH) WHEELBASE
11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI
1075MM (42 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 41 INCHES TO 50 INCHES
CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 113.58 in
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA): 109.08 in
CALC'D FRAME LENGTH - OVERALL: 298.07
CALCULATED FRAME SPACE LH SIDE: 126.11 in
CALCULATED FRAME SPACE RH SIDE: 84.07 in
CALC'D SPACE AVAILABLE FOR DECKPLATE: 107.2 in
SQUARE END OF FRAME
FRONT CLOSING CROSSMEMBER
STANDARD WEIGHT ENGINE CROSSMEMBER
STANDARD CROSSMEMBER BACK OF TRANSMISSION

STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
STANDARD SUSPENSION CROSSMEMBER
Chassis Equipment
THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS
FRONT TOW HOOKS - FRAME MOUNTED
BUMPER MOUNTING FOR SINGLE LICENSE PLATE
FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS
GRADE 8 THREADED HEX HEADED FRAME FASTENERS
Fuel Tanks
50 GALLON/189 LITER RECTANGULAR ALUMINUM FUEL TANK - RH
50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH
RECTANGULAR FUEL TANK(S)
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS
LH FUEL TANK MOUNTED FORWARD, RH FUEL TANK MOUNTED AFT
PLAIN STEP FINISH
FUEL TANK CAP(S)
DETROIT FUEL/WATER SEPARATOR WITH WATER IN FUEL SENSOR, HAND PRIMER AND 12 VOLT PREHEATER"
EQUIFLO INBOARD FUEL SYSTEM
AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON RH FUEL TANK
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE
Tires
MICHELIN XDS2 11R22.5 16 PLY RADIAL FRONT TIRES
MICHELIN XDS2 11R22.5 16 PLY RADIAL REAR TIRES
Hubs
MERITOR IRON FRONT HUBS
CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Wheels
ALCOA LVL ONE 88267X 22.5X8.25 10-HUB PILOT 5.80 INSET ALUMINUM DISC FRONT WHEELS
ALCOA LVL ONE 88267X 22.5X8.25 10-HUB PILOT ALUMINUM DISC REAR WHEELS
POLISHED FRONT WHEELS; OUTSIDE ONLY
POLISHED REAR WHEELS; OUTSIDE OF OUTER WHEELS ONLY
FRONT WHEEL MOUNTING NUTS
REAR WHEEL MOUNTING NUTS
NO PUSHER/TAG WHEEL MOUNTING NUTS
Cab Exterior
154 INCH BBC HIGH-ROOF ALUMINUM CONVENTIONAL CREW CAB
AIR CAB MOUNTING
NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE
LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT
HOOD MOUNTED CHROMED PLASTIC GRILLE

CHROME HOOD MOUNTED AIR INTAKE GRILLE
FIBERGLASS HOOD
HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION
DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR HORNS WITH DUAL LANYARDS
DUAL ELECTRIC HORNS
DUAL HORN SHIELDS
DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME
KEY QUANTITY OF 2
REAR LICENSE PLATE MOUNT END OF FRAME
LED HEADLIGHT ASSEMBLY AND INCANDESCENT MARKER/TURN LAMP WITH CHROME BEZEL
LED AERODYNAMIC MARKER LIGHTS
DAYTIME RUNNING LIGHTS
OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TURN WIRES TO 4 FEET BEYOND END OF FRAME
STANDARD FRONT TURN SIGNAL LAMPS
AUTOMATIC ON/OFF, ENGINE COMPARTMENT, HOOD ACTIVATED WORK LIGHT WITH MANUAL OVERRIDE
DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE
DOOR MOUNTED MIRRORS
102 INCH EQUIPMENT WIDTH
LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS
STANDARD SIDE/REAR REFLECTORS
DUAL LEVEL CAB ENTRY STEPS ON BOTH SIDES
NO REAR WINDOW
TINTED DOOR GLASS LH AND RH WITH TINTED OPERATING WING WINDOWS
RH AND LH ELECTRIC POWERED WINDOWS, PASSENGER SWITCHES ON DOOR(S)
1-PIECE SOLAR GREEN GLASS WINDSHIELD
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED
Cab Interior
OPAL GRAY VINYL INTERIOR
MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR
MOLDED PLASTIC DOOR PANEL WITHOUT VINYL INSERT WITH ALUMINUM KICKPLATE LOWER DOOR
BLACK MATS WITH SINGLE INSULATION
DASH MOUNTED ASH TRAY(S) WITHOUT LIGHTER
FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING
IN DASH STORAGE BIN

(2) CUP HOLDERS LH AND RH DASH
GRAY/CHARCOAL FLAT DASH
SMART SWITCH EXPANSION MODULE
2.5 LB. FIRE EXTINGUISHER SHIPPED LOOSE IN CAB.
FIRST AID KIT, SHIP LOOSE
HEATER, DEFROSTER AND AIR CONDITIONER
STANDARD HVAC DUCTING
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES
VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR
BINARY CONTROL, R-134A
PREMIUM INSULATION
SOLID-STATE CIRCUIT PROTECTION AND FUSES
12V NEGATIVE GROUND ELECTRICAL SYSTEM
DOOR ACTIVATED DOME/RED MAP LIGHTS, FORWARD LH AND RH AND REAR LH, RH AND CENTER
LH AND RH ELECTRIC DOOR LOCKS
(1) 12V POWER SUPPLY (1) DUAL 2.1 AMP USB CHARGER IN DASH
TRIANGULAR REFLECTORS KIT WITHOUT FLARES SHIPPED LOOSE IN CAB
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION PASSENGER SEAT
H.O. BOSTROM SIERRA AIR-50 HIGH BACK AIR SUSP LH/RH/CENTER REAR PASSENGER SEATS W/ADJUSTABLE RECLINE, FIXED LUMBAR AND NFPA 1901-2009/2016 COMPLIANT SEAT SENSOR
LH AND RH INTEGRAL DOOR PANEL ARMRESTS
GRAY VINYL DRIVER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST
GRAY VINYL FRONT PASSENGER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST
GRAY VINYL REAR PASSENGER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST
HIGH VISIBILITY ORANGE SEAT BELTS
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
4-SPOKE 18 INCH (450MM) STEERING WHEEL
DRIVER AND PASSENGER INTERIOR SUN VISORS
Instruments & Controls
GRAY DRIVER INSTRUMENT PANEL
GRAY CENTER INSTRUMENT PANEL
ENGINE REMOTE INTERFACE WITHOUT INTERLOCKS
BLACK GAUGE BEZELS
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES

ENGINE COMPARTMENT MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS, WITH WARNING LIGHT IN DASH
97 DB BACKUP ALARM
ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL
IGNITION SWITCH WITH NON-REMOVABLE KEY
ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH
2 INCH ELECTRIC FUEL GAUGE
ENGINE REMOTE INTERFACE NOT CONFIGURED
ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
2 INCH TRANSMISSION OIL TEMPERATURE GAUGE
ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY
ELECTRONIC STABILITY CONTROL
ELECTRIC ENGINE OIL PRESSURE GAUGE
OVERHEAD INSTRUMENT PANEL
AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH, USB AND AUXILIARY INPUTS, J1939
DASH MOUNTED RADIO
(2) RADIO SPEAKERS IN CAB
AM/FM ANTENNA MOUNTED ON FORWARD LH ROOF
ELECTRONIC KPH SPEEDOMETER WITH SECONDARY MPH SCALE, WITHOUT ODOMETER
STANDARD VEHICLE SPEED SENSOR
ELECTRONIC 3000 RPM TACHOMETER
IGNITION SWITCH CONTROLLED ENGINE STOP
(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR HORN AND (1) DRIVER AIR HORN
DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY AND ARCTIC TYPE BLADES
MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH
ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR
SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE
INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS
Design
PAINT: ONE SOLID COLOR
Color
CAB COLOR A: L0006EY WHITE ELITE EY
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

STANDARD E COAT/UNDERCOATING
Certification / Compliance
CANADA CMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS
Secondary Factory Options
NUMBER OF ELITE BC PAINT COLORS (1)
Raw Performance Data
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA): 109.08 in
CALC'D SPACE AVAILABLE FOR DECKPLATE: 107.2 in
<u>DELIVERY</u>
The apparatus shall be delivered complete and ready for operation as confirmed in the accepted RFQ submissions. The apparatus, to ensure proper break-in of all components, shall be delivered under its own power - rail or truck freight is not acceptable.
<u>ANGLE OF APPROACH</u>
The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901.
<u>ANGLE OF DEPARTURE</u>
The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of NFPA 1901.
<u>NFPA SPECIAL SERVICE EQUIPMENT ALLOWANCE</u>
In compliance with NFPA #1901 standards, the apparatus shall be engineered to provide an allowance of 4000 pounds of fire department provided loose equipment.
<u>CENTER OF GRAVITY</u>
The apparatus, prior to acceptance, will be required to meet the vehicle stability of the applicable NFPA Automotive Fire Apparatus Standard.
A calculated center of gravity shall be provided. The calculated or measured center of gravity (CG) shall be no higher that 80-percent of the rear axle track width.
<u>ENGINEERING BLUEPRINTS</u>
Manufacturer must provide "proposal" blueprints which are "representative" of the vehicle being proposed and these have been generated on computer-aided-design (CAD) equipment.

Manufacturer shall provide construction drawings for approval prior to actual construction of the vehicle.
The design of the equipment shall be in accordance with the best engineering practices. The equipment design and accessory installation shall permit accessibility for use, maintenance, and service. All components and assemblies shall be free of hazardous protrusions, sharp edges, cracks, or other elements, which might cause injury to personnel or equipment.
All oil, hydraulic, and air tubing lines and electrical wiring shall be located in protective positions properly attached to the frame or body structure and shall have protective loom or grommets at each point where they pass through structural members, except where a through-frame connector is necessary.
Parts and components will be located or positioned for rapid and simple inspection and recognition of excessive wear or potential failure. Whenever functional layout of operating components determines that physical or visual interference between items cannot be avoided, the item predicted to require the most maintenance shall be located for best accessibility.
<u>BODY WARRANTY</u>
Manufacturer must warrant each new motorized fire apparatus for a minimum period of ONE YEAR from the date of delivery, with any contrary warranty information provided at the time of quotation submission.
The warranty must include provisions that require the manufacturer to agree to furnish any parts to replace those that have failed due to defective material or workmanship where there is no indication of abuse, neglect, unusual or other than normal service providing that such parts are, at the option of the manufacturer, made available for supplier inspection at the supplier's request, returned to the supplier's factory or other location designated by the supplier with transportation prepaid within thirty days after the date of failure or within one year from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and where inspection indicates the failure was attributed to defective material or workmanship.
<u>ALUMINUM BODY WARRANTY - FIVE YEAR</u>
The manufacturer agrees to warrant that all aluminum body, under normal use and with reasonable maintenance, be structurally sound and will remain free from corrosion perforation for a minimum period of FIVE (5) years.
<u>ALUMINUM SUBFRAME WARRANTY – 10 YEAR</u>

The manufacturer warrants that each new aluminum body subframe is structurally sound and free of all structural defects of both material and workmanship and further warrants that it will maintain such structural integrity for a minimum period of ten (10) years.

PAINT WARRANTY FIVE YEAR

The PPG paint performance guarantee will cover the areas of the vehicle finished with the specified product for a minimum period of FIVE (5) years beginning the day the vehicle is delivered to the purchaser.

OPERATION AND FAMILIARIZATION MANUAL – CUSTOMIZED

The apparatus manufacturer shall supply, at delivery, a customized Operation & Familiarization Manual, complete with full-color photos of the actual, completed apparatus with each feature and control identified and its function explained.

Safety, Operation, Maintenance and Troubleshooting sections will include information about each major component of the apparatus (chassis, pump, foam system, generator, electrical devices, etc.). The manual shall be specific to the apparatus (or group of apparatus) being delivered.

All safety and warning labels shall be represented in the manual for subsequent safety inspections to ensure their continued presence on the apparatus.

The manufacturer shall submit a sample manual with the bid quotation. Failure to do so will result in rejection of the quotation. Reference to "on delivery" or "at pre-build" submission is not an acceptable response for the bid document.

"Similar" or "Representative" manuals will not be accepted.

IN PROCESS PHOTOS

There shall be a series of photos provided to the purchaser as the apparatus progresses through the production process. There will be a minimum of four (4) photos per interval and a total of six intervals, one (1) upon chassis arrival, four (4) during construction and one (1) upon completion.

LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS

The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The electrical equipment installed by the apparatus manufacturer shall conform to current automotive electrical system standards, the latest Federal DOT standards, and the requirements of the applicable NFPA standards.

All wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for the protected circuit. Voltage drops in all wiring from the power source to the using device shall not exceed 10 percent. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. All exposed wiring shall be protected in a loom with a minimum 289-degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in accordance with the device manufacturer's instructions. Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.

The wiring between the cab and body shall be joined using Deutsche type connectors or an enclosed in a terminal junction panel area. This system will permit body removal with minimal impact on the apparatus electrical system. All connections shall be crimp-type with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather-resistant connectors shall be provided throughout to ensure the integrity of the electrical system.

Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in a junction box or covered with a removable electrical panel. The wiring shall be secured in place and protected against heat, liquid contaminants, and damage. Wiring shall be uniquely identified every three inches (3") by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA #1901 standards.

The electrical circuits shall be provided with low voltage overcurrent protective devices. Such devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. The overcurrent protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

The electrical system shall include the following:

- Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. A corrosion preventative compound shall be applicable to all terminal plugs located outside of the cab or body.
- The electrical wiring shall be harnessed or be placed in a protective loom.
- Holes made in the roof shall be caulked with silicone. Large fender washers shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.
- A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
- All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.

The warning lights shall be switched in the chassis cab with labeled switches in an accessible location. Individual rocker switches shall be provided only for warning lights provided over the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator. The warning light switches shall be of the rocker type. For easy nighttime operation, an integral indicator light shall be provided to indicate when the circuit is energized. All switches shall be appropriately identified as to their function.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and "call for the right of way". When the parking brake is applied, a "blocking right of way" system shall automatically activate per requirements of the applicable NFPA standards. All "clear" warning lights shall be automatically turned off upon application of the parking brake.

NFPA REQUIRED TESTING OF ELECTRICAL SYSTEM

The apparatus shall be electrically tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of the applicable NFPA standards. The following minimum testing shall be completed by the apparatus manufacturer:

1. Reserve capacity test:

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a failed test.

2. Alternator performance test at idle:

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

3. Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system is permitted during this test. However, if an alarm sounds due to excessive battery discharge, as detected by the system requirements in the NFPA standards, or a system voltage of less than 11.7 volts dc for more than 120 seconds is present, the test has failed.

4. Low voltage alarm test:

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts dc for a 12-volt system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

NFPA REQUIRED DOCUMENTATION

The following documentation shall be provided on delivery of the apparatus:

a. Documentation of the electrical system performance tests required above.

b. A written load analysis, including:

1. The nameplate rating of the alternator.

2. The alternator rating under the conditions.

3. Each specified component load.

4. Individual intermittent loads.

WEATHER RESISTANT ELECTRICAL JUNCTION BOX

The electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required. The main body junction panel shall be located in the pump compartment.

HIGH IDLE SYSTEM

There shall be a high idle system furnished and installed on the apparatus. The high idle system shall have an on/off switch located in the chassis on the switch console. The system shall have an interlock that will disable the solenoid if the parking brake is not completely set.

ELECTRICAL CONSOLE WITH EMERGENCY LIGHT SWITCH PANEL – THERMAL COATED

An electrical console shall be constructed of .125" black LineX coated smooth aluminum material and mounted in the cab of the truck chassis. Console shall be designed and installed between the driver and passenger seats. The top face of the console shall be designed as the switch panel for all emergency light switches. The switch panel shall be hinged for easy access to the switch connections.

All emergency light switches shall be lighted, rocker style. Switches shall be internally lit when the switch circuit is in the on position. A plug-in identification label is to be provided and installed adjacent to each rocker switch with backlighting provided behind the label.

SWITCHES

A rocker style internally lighted switch shall be provided and wired through a heavy-duty relay to activate power to the emergency lights. The emergency lights shall be activated by a single "MASTER SWITCH" on the electrical console.

MASTER ELECTRIC SWITCH

One (1) battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12-volt power supply from the battery system.

BATTERY CHARGER

A Blue Sea Systems P12, 40 amp, 90-264VAC battery charger will be supplied with the apparatus. The charger is capable of charging batteries and functioning as a continuous 40-amp 12VDC power supply.

The charger features a cast aluminum housing.

BATTERY CHARGER DISPLAY

One (1) Blue Sea EV battery charger display shall be installed.

AUTO-EJECT

A Blue Sea Systems "Sure-Eject" (#7851) automatic disconnect device shall be provided and installed on the 110-volt shoreline connection complete with weatherproof cover and matching plug. The Auto-Eject shall be activated by the chassis starter switch to disconnect the plug.

SHORE POWER PLUG

The shore power plug shall be located at the left front cab door.

12 VOLT POWER SOURCE

One (1) 12-volt power and ground connection rated at 30 amps shall be provided on the apparatus for the installation of a mobile two-way radio.

The power source shall be run through the chassis master battery switch and shall be deactivated when the master switch is in the "OFF" position.

LED SCENE LIGHT

A Fire Tech FT-MB-18-FT-W brow light shall be provided and installed below the light bar. The light shall produce 7,920 lumens and be powder coated white.

*** Mount on front bumper gravel shield.

SCENE LIGHT SWITCHING

One (1) scene light switch with indicator shall be installed on the cab main switch panel to control all scene light(s). The switch shall be labeled "SCENE LIGHTS".

LIGHT MOUNTING LOCATION

The mounting location for the specified light shall be on the rear of the apparatus body.

SCENE LIGHTS

Two (2) Akron Brass, Extenda-Lite, item ELRE-XLDC-W-PS with a Push-Up style telescoping pole equipped with side mounting brackets shall be provided. All mounting brackets and pole fittings shall be heavy duty, cast aluminum and powder painted white to match the light head.

Each telescoping pole shall be equipped with a 220-watt light head with the front bezel painted white.

The light head shall contain 44 high power LEDs and a customized optic design including flood and spot. The light head shall operate from 10-32 VDC and maintain stable light output of 28,000 lumens and constant power consumption of 220W (current = power / voltage). The light shall have three optional brightness modes that can be selected using the switch on the light head. The light head shall tilt up and down with one heavy duty handle and shall be mounted on to the top of the pole with a swivel assembly. The tilt angle of the head shall be adjustable using a push button on the swivel. An on/off switch with weather-proof boot shall be provided on the swivel assembly.

The inside pole shall be sixty inches (60") long and the outside pole shall be eleven- and one-half inches (11-1/2") in length as standard or lengths can be adjusted by the manufacturer as required to fit a specified mounting location. All inside and outside poles shall be made only from drawn aluminum tubes. Each pole shall be deep etched, wire brushed and clear anodized to ensure a corrosion free appearance and lasting durability. The Push-Up telescoping pole shall rotate 320 degrees left or right. The apparatus manufacturer shall provide wiring for each of the installed lights, and it shall be capable of carrying the maximum load required by that light and protected by a properly sized circuit breaker.

The Extenda-Lite Pole shall have a minimum 5-year warranty. The Revel LED head shall have a minimum 6-year warranty.

LIGHT SWITCH REMOTE LOCATION

A switch shall be installed from a remote location in the chassis cab. The weatherproof switch shall be used for the remote switching.

A raised pole hazard light switch for a telescoping pole shall be installed. The magnetic switch shall be in a cylindrical housing clamped on the outer pole. A magnet shall be mounted in the extension pole. The switch contacts shall close when the pole is raised and activate the "Do Not Move Apparatus" light in the cab when the parking brake is disengaged.

SCENE LIGHT SWITCHING

Two (2) scene light switch with indicator shall be installed on the cab main switch panel to control the rear scene light(s). The switch shall be labeled "REAR SCENE".

*** Label as " Rt & Lt Rear Scene Lights"

BACKUP CAMERA

An ASA rear and side vision system shall be installed on the apparatus. A rear facing box style rear-view camera shall be installed on the rear of the vehicle. There shall also be two (2) teardrop style rear-view cameras; one mounted to the Officer side of the vehicle, and one to the Driver side of the vehicle.

The reverse camera shall automatically activate the truck is placed in the reverse gear. The officer side camera shall activate with right turn signal activation and the driver side camera shall activate with left turn signal activation. All cameras shall have the ability to be manually controlled as well.

HAND LIGHTS

All NFPA required portable hand lights supplied by the Customer must be installed before the apparatus is placed into service.

RADIO ANTENNA BASE

Two (2) radio antenna base shall be supplied and installed on the apparatus, the antenna coax terminating in the cab. The location shall be determined by the customer.

*** Coaxial terminate in center console.

MARKER LIGHTS

LED marker lights shall be installed on the vehicle in conformance to the Canadian Motor Vehicle Safety Standard requirements.

LICENSE PLATE BRACKET

One (1) stainless steel license plate bracket shall be provided at the rear of the apparatus. The bracket shall have a LED light.

TAILLIGHTS

One (1) pair of Whelen M6 LED tail/brake lights shall be provided. The rectangular 4"x6" lights shall be red.

TURN SIGNALS

One (1) pair of Whelen M6 LED turn signals with populated sequential chevron arrow shall be provided.

BACKUP LIGHTS

One (1) pair of Whelen Series M6 LED backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 4" x 6", and the lens color shall be clear.

FOUR LIGHT HOUSING

One (1) pair of chrome plated taillight housings shall be supplied. Each housing shall be designed to hold four (4) Whelen M6 rear lights located at the lower rear corners of the body.

MID BODY LED TURN SIGNALS

One (1) pair of mid body LED turn signals shall be provided. The location of the turn lights shall be at mid-body near the rear wheel axle.

FRONT BUMPER GROUND LIGHTS

Two (2) TecNiq E10 LED ground lights shall be installed on the chassis cab, one under each side of the front bumper.

CAB GROUND LIGHTS

Four (4) LED ground lights shall be installed on the chassis cab, one under each cab door.

CAB STEP LIGHTS

There shall be LED cab step lights supplied below the chassis cab doors. The lights shall be mounted below the cab doors and illuminate the chassis cab steps. There shall be four (4) LED lights located on each side of the chassis cab.

MID BODY GROUND LIGHTS

Two (2) TecNiq LED #LED E10 ground lights shall be installed underside of the rub rail, mid body. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

REAR STEP GROUND LIGHTS

Two (2) TecNiq LED #LED E10 ground lights shall be installed under the rear step. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

BEHIND REAR WHEEL GROUND LIGHTS

Two (2) TecNiq LED #LED E10 ground lights shall be mounted to the underside of the compartments, behind the rear wheels. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

The ground lights shall automatically activate when the parking brake is applied.

REAR TAILBOARD LIGHTS

Two (2) LED step lights with clear lens shall be installed to illuminate the step surfaces at the rear of the apparatus body.

Four (4) Federal Signal Commander dual 10 LED strip light, model COMSTLS18C-W, shall be installed to illuminate the walkway area. Each light stick shall feature 18 white LEDs and be fully encapsulated for moisture and vibration resistance. The light stick shall be provided with a 5-year free replacement warranty. The light shall be 1" x 11-½", with the 18 LEDs creating a 10" light strip. The dual walkway light shall include two (2) Commander 10 strip lights horizontally mounted into a 45-degree stainless steel bracket, # COMSTL-DUALBKT45.

The step/walkway light switch shall be installed and wired to the parking brake.

SCENE LIGHTS

Six (6) Fire Research model SPA900-Q70 surface mount light shall be installed. The light shall be mounted with four (4) screws to a flat surface. It shall be 6 ¾" high by 9" wide and have a profile of less than 1 ¾" beyond the mounting surface. Wiring shall extend from a weatherproof strain relief at the rear of the light.

The light shall have twenty-four (24) white LEDs that generate a rated 7000 lumens at 12- or 24-volts DC. The lens shall redirect the light along the vehicle and out onto the working area. The light housing shall be aluminum with a chrome-colored bezel.

SCENE LIGHT LOCATION

Two (2) scene light shall be located on the left side of the apparatus body.

SCENE LIGHT LOCATION

Two (2) scene light shall be located on the right side of the apparatus body.

SCENE LIGHT LOCATION

Two (2) scene light shall be located on the rear of the apparatus body.

SCENE LIGHT SWITCHING
One (1) scene light switch with indicator shall be installed on a body console to control the left side scene light(s). The switch shall be labeled "LEFT SCENE".
SCENE LIGHT SWITCHING
One (1) scene light switch with indicator shall be installed on a body console to control the right-side scene light(s). The switch shall be labeled "RIGHT SCENE".
SCENE LIGHT SWITCHING
One (1) scene light switch with indicator shall be installed on a body console to control the rear scene light(s). The switch shall be labeled "REAR SCENE".
SCENE LIGHT SWITCHING
The rear scene lights shall activate automatically upon placing the transmission into reverse.
<u>DOOR OPEN LIGHT, (OSROOFCR)</u>
One (1) red flashing, warning light shall be provided and installed in the driver's compartment to indicate an open passenger or apparatus compartment door. The warning light shall also be attached to folding equipment racks and light towers as specified. The light shall be a flashing Whelen OS red LED (OSROOFCR) light and shall be properly marked and identified.
<u>ELECTRONIC SIREN</u>
One (1) Federal Signal PA-300, model 690002, 100-watt full function electronic siren shall be mounted in the cab. The siren shall have the following features: electronic air horn, wail, yelp, priority, P.A., and shall have a hard-wired microphone. The optional TAP II feature allows the driver to change the siren tone via the vehicle's horn ring. The siren shall be capable of driving (1) 100-watt speaker. The system shall automatically be protected from short circuits.
<u>SPEAKER</u>
One (1) Cast Products Model #SA4301 100-watt speaker shall be installed on the apparatus, "Through-the-bumper", with flat mounting flange.
<u>SPEAKER LOCATION</u>

The siren speaker shall be installed on the apparatus bumper extension, as determined by the body manufacturer.

LIGHTBAR

One (1) Whelen Justice series light bar shall be included with the apparatus cab. The light bar shall be a model JE2NFPA and shall be mounted on the roof of the cab, towards the front, above the windshield.

The light bar shall feature:

- A 56" light bar designed for high performance
- Four (4) red Linear Super LED corner modules
- Four (4) red CON3 LED hinged modules
- Two (2) white CON3 LED hinged modules with exterior clear optic lenses
- Clear hard coated lenses to provide extended life/luster protection against UV & chemical stresses
- Designed in accordance with NFPA Zone A requirements

LIGHTBAR ACTIVATION

The front upper light bar shall be activated through the master warning switch.

"WHITE LIGHT" DISABLE SWITCH

There shall be a rocker switch provided in the emergency switch panel labeled "WHITE LIGHT DISABLE". The switch shall break the power circuit to the white Zone "A" traffic clearing lights in the lightbar and grille. This shall minimize the blinding effect to the driver operating the lights in either fog or snow conditions. The switch shall illuminate to indicate that the white lights "are" disabled.

UPPER REAR WARNING LIGHTS

One (1) pair of Whelen model M9 LED warning lights shall be installed, one each side on the upper rear of the apparatus body. The dimensions of the lights shall be 6-1/2" x 10-3/8".

The driver side warning light shall be a Whelen Model M9R red Super-LEDTM with color lens.

The officer side warning light shall be a Whelen Model M9R red Super-LEDTM with color lens.

Each light shall be mounted with a Whelen Model M9FC chrome flange.

UPPER SIDE FRONT WARNING LIGHTS

One (1) pair of Whelen model M9 LED warning lights shall be installed, on the upper portion of the body side, towards the front. The dimensions of the lights shall be 6-1/2" x 10-3/8".

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The driver side warning light shall be a Whelen Model M9R red Super-LED™ with color lens.

The officer side warning light shall be a Whelen Model M9R red Super-LED™ with color lens.

Each light shall be mounted with a Whelen Model M9FC chrome flange.

UPPER SIDE REAR WARNING LIGHTS

One (1) pair of Whelen model M9 LED warning lights shall be installed, one each side on the upper portion of the body side, towards the rear of the body. The dimensions of the lights shall be 6-1/2" x 10-3/8".

The driver side warning light shall be a Whelen Model M9R red Super-LED™ with color lens.

The officer side warning light shall be a Whelen Model M9R red Super-LED™ with color lens.

Each light shall be mounted with a Whelen Model M9FC chrome flange.

LOWER FRONT WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side one the front of the chassis cab. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6R red Super-LED™ with color lens.

The officer side warning light shall be a Whelen Model M6R red Super-LED™ with color lens.

Each light shall be mounted with a Whelen Model M6FC chrome flange.

INTERSECTION WARNING LIGHTS

One (1) pair of Whelen model M6 LED warning lights shall be installed one each side of the chassis cab. The dimensions of the lights shall be 4-5/16" x 6-3/4".

The driver side warning light shall be a Whelen Model M6R red Super-LEDTM with color lens.
The officer side warning light shall be a Whelen Model M6R red Super-LEDTM with color lens.
Each light shall be mounted with a Whelen Model M6FC chrome flange.
<u>LOWER MID-BODY WARNING LIGHTS</u>
One (1) pair of Whelen model M2 LED warning lights, model M2WR, shall be installed , one each side of the apparatus, mid-body in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".
The driver side warning light shall be a Whelen Model M2WR wide-angle red Super-LEDTM with color lens.
The officer side warning light shall be a Whelen Model M2WR wide-angle red Super-LEDTM with color lens.
Each light shall be mounted with a Whelen Model M2FC chrome flange.
<u>LOWER REAR SIDE WARNING LIGHTS</u>
One (1) pair of Whelen model M2 LED warning lights shall be installed, one each side of the apparatus, towards the rear of the body, in the rub rail. The dimensions of the lights shall be 4-1/4" x 2-11/16".
The driver side warning light shall be a Whelen Model M2WR wide-angle red Super-LEDTM with color lens.
The officer side warning light shall be a Whelen Model M2WR wide-angle red Super-LEDTM with color lens.
Each light shall be mounted with a Whelen Model M2FC chrome flange.
<u>LOWER REAR WARNING LIGHTS</u>
One (1) pair of Whelen model M6 LED warning lights shall be installed, one each side on the lower rear of the apparatus body. The dimensions of the lights shall be 4-5/16" x 6-3/4".
The driver side warning light shall be a Whelen Model M6R red Super-LEDTM with color lens.

The officer side warning light shall be a Whelen Model M6R red Super-LED™ with color lens.

TRAFFIC ARROW LIGHT

Two (2) Federal Signal MicroPulse SignalMaster, Model MPPSSM23-A-30, 23" four (4) amber MicroPulse 1200 lamp units shall be installed at rear of the apparatus body, one each side as space permits. This application is ideal for aerials, rescues with rear walk-in doors, full height compartment doors, and EMS doors, where a full width unit is not possible.

A model #331105 controller shall be located in the cab accessible to the driver and officer. The controller shall include four tactile membrane switches and a slide selector for the direction of traffic flow. This model is the full featured controller with fourteen selectable flash patterns, fast or slow setting, and capable of driving (2) four lamp units, a six-lamp unit, or an eight lamp unit. The 331105 has the optional capabilities for Auto-On with the Emergency Master, and/or controlling the outer lamp modules to flash with the respective signal light.

FLUID DATA PLAQUE

One (1) fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards:

- Engine oil
- Engine coolant
- Chassis transmission fluid
- Drive axle lubricant
- Power steering fluid
- Pump transmission lubrication fluid
- Other NFPA applicable fluid levels or data as required

Location shall be in the driver's compartment or on driver's door.

DATA & WARNING LABELS

HEIGHT LENGTH & WEIGHT

A highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab dash area.

NO RIDE LABEL

One (1) "NO RIDERS" label shall be applied on the vehicle at the rear step area or other applicable areas. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion is prohibited.

CAB SEATING POSITION LIMITS
One (1) label shall be installed in the cab to indicate seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.
HELMET WARNING TAG
One (1) label shall be installed in the cab, visible from each seating position. The label shall read "CAUTION: DO NOT WEAR HELMET WHILE SEATED." Helmets must be properly stowed while the vehicle is in motion according to the current edition of NFPA 1901.
<u>REAR TOW EYES</u>
Two (2) chrome plated tow eyes with a 3" opening shall be provided at the rear of the chassis.
*** Locate above rear step.
<u>BUMPER EXTENSION</u>
The chassis frame shall be extended 16" with reinforced steel angle and structural channel by the body builder. The extension shall be designed to support the bumper and other equipment to be installed.
<u>FRONT BUMPER GRAVELSHIELD</u>
A 16" front to rear filler panel constructed from NFPA compliant, slip resistant aluminum tread plate shall be provided on the front chassis frame extension. The extension shall be covered on the top and sides, up to the level of front bumper and shall be reinforced to support one (1) firefighter (approximately 250 pounds) and the equipment specified to be installed.
<u>FRONT BUMPER COMPARTMENT</u>
One (1) recessed winch compartment constructed from smooth aluminum shall be installed in the center of the front bumper extension. Water drain holes shall be drilled in the bottom.
<u>BUMPER COMPARTMENT DOOR</u>
One (1) aluminum tread plate door for the front bumper compartment shall be supplied. The flat door shall have a stainless-steel hinge at the rear and a latch to secure the compartment.

BUMPER COMPARTMENT LIGHT

One (1) LED compartment light(s) shall be provided to illuminate the front bumper compartment(s). The light shall activate automatically when the compartment door is opened. The light switch shall activate the "Do Not Move Apparatus" warning light in the cab indicating that the bumper compartment door is not secure.

BUMPER COMPARTMENT DOOR SHOCK

A gas shock shall be supplied to hold the front bumper compartment door in the open position.

HUB AND LUG NUT COVERS

The apparatus shall have chrome or stainless-steel hub and lug nut covers on the front and single rear axles.

TIRE PRESSURE INDICATOR

There shall be a tire pressure indicator at each tire's valve stem on the vehicle that shall indicate if there is insufficient pressure in the specific tire.

*** Include extensions for inside dual tires.

FRONT MUD FLAPS

One (1) pair of black mud flaps shall be installed behind the front wheels.

REAR MUD FLAPS

One (1) pair of black mud flaps shall be installed behind the rear wheels.

CAB ENTRANCE STEPS

The four (4) door chassis shall be equipped with a modular step/fuel tank enclosure constructed from slip resistant aluminum tread plate to conform with applicable NFPA standards. The step/enclosure is to completely cover the fuel tank and is to include a radius cut-out allowing access to the fuel tank fill. The entire step/enclosure is to be of a one-piece design, bolted in place for ease of removal.

Heavy channel steel underbody supports shall be provided to support the right and left side cab entrance steps. Supports shall be attached directly to the chassis frame rails and shall provide adequate support to the steps to minimize flex and distortion.

The overlay shall be provided with a storage compartment. A hinged door with latch shall be provided on the storage compartment.

COMPARTMENT MATTING

One (1) cab step compartment floor shall be fitted with removable vinyl Turtle Tile matting. This material shall be resistant to temperature, ultra-violet radiation, mechanical impacts, chemical actions and be corrosion free.

CAB STEPS

The passenger's side cab step area on the 4-door chassis shall be covered with slip resistant aluminum tread plate for compliance to applicable NFPA standards.

HELMET SECUREMENT

Five (5) Zico model UHH-2 helmet holder shall be supplied on the apparatus. The Zico holder safely stores your helmet. The model UHH-2 is compliant for use inside of the crew cab. Place the helmet hook on the red knob and pull the strap to lock the helmet in place. The holder fits any size helmet without any major adjustments. It is safely stored and always within quick access. Simply pull the strap down and remove the helmet.

*** Mount on cab inner roof

BATTERY JUMP START LUGS

A method for quickly connecting jumper cables shall be installed on the apparatus. The system shall be internally wired to the 12-volt chassis batteries and terminate with positive and negative lugs located near the driver's door. The lugs shall be covered with color-coded rubber plugs, red for positive and black for negative. An identification label shall be applied.

AIR SHORELINE CONNECTION

One (1) Kussmaul automatic "Air Eject" shall be provided for connection to an external air source to maintain the pressure in the chassis air brake system. The unit shall automatically activate when the engine is started, disconnecting the airline from the vehicle.

AIR SHORELINE COVER

One (1) Kussmaul automatic "Air Eject" shall be provided with a hinged recessed cover.

AIR HOSE FITTING

One (1) female quick connect fitting shall be provided for connection to a utility air hose. The air outlet fitting shall be located on the driver's & passengers side cab exterior.

1/8" ALUMINUM BODY

The body shall be fabricated of aluminum extrusions, smooth aluminum sheet and aluminum treadplate.

The aluminum extrusion alloy shall be 6061 with a temper rating of T6 and have a tensile strength of 45,000 PSI and yield strength of 40,000 pounds. The aluminum extrusions shall 3" x 3" aluminum tubing, 1-3/4" x 3" aluminum tubing and 3" x 3" aluminum angle and specially designed extrusions, up to .250" wall thickness where applicable.

The smooth aluminum sheet material alloy shall be 5052 with a temper rating of H32 and have a tensile strength of 33,000 PSI and yield strength of 28,000 pounds.

The aluminum treadplate alloy shall be 3003 with a temper rating of H22 and have a tensile strength of 30,000 PSI and yield strength of 28,000 pounds.

The extrusions shall be designed as structural-framing members with the smooth aluminum and treadplate fabricated to form compartments, hose beds, and floors. All aluminum material shall be welded together using the latest mig spray pulse arc welding system.

Compartments to be sweep-out design and to be water and dust proof. All compartments shall be made to the maximum practical dimensions to provide maximum storage capacity. To ensure maximum storage space, the apparatus shall be constructed without any void spaces between the body and the compartment walls. Double wall construction does not meet this requirement.

All exterior compartments shall have polished aluminum drip moldings installed above the doors where necessary to prevent water from entering the compartments.

Wheel well panels shall be formed aluminum that is welded in place. There shall be no visible bolt heads, retention nuts or fasteners on the exterior surface of the panel. To fully protect the wheel well area from road debris and to aid in cleaning, a full depth radius wheel well liner shall be provided. The frame side of the wheel well area on each side of the opening shall be attached to the frame side of the front and rear compartments. All seams on the frame side of the body shall be welded and caulked to prevent moisture from entering the compartments.

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with stainless steel fasteners.

FASTENERS

All aluminum and stainless-steel components shall be attached using stainless steel fasteners.

Compartment door hinges, handrails and running boards shall be attached using minimum 1/4" diameter machine bolt fasteners.

3/16" diameter fasteners shall only be used in non-structural areas such as; door handles, trim moldings, gauge mounting, etc.

ELECTROLYSIS CORROSION CONTROL

The apparatus shall be assembled using ECK or electrolysis corrosion control, on all high corrosion potential areas, such as door latches, door hinges, trim plates, fenderettes, etc. This coating is a high zinc compound that shall act as a sacrificial barrier to prevent electrolysis and corrosion between dissimilar metals. This shall be in addition to any other barrier material that may be used.

All 1/4" diameter and smaller screws and bolts shall be stainless steel.

Due to the expected life of the vehicle, proposals will only be acceptable from manufacturers that include these corrosion features.

COMPARTMENT FLOORS

The compartment floors shall be constructed of smooth aluminum material, to match the compartment interior walls.

ALUMINUM SUB-FRAME

The main body sub-frame shall be extruded aluminum and be fully welded to the longitudinal frame rail extrusions that are mounted parallel to the chassis frame rails.

The main body sub-frame shall be constructed of no less than four (4) extruded aluminum tubes running full width of the apparatus body. A minimum of two (2) full body width tubes shall be provided ahead of and behind the rear axle forming the main body support crossmembers. The main crosstubes shall be fully welded to the vertical and horizontal extrusions forming the body super-structure, described elsewhere herein.

For added strength and rigidity, no less than six (6) intermediate body crossmembers shall be provided constructed extruded aluminum tubes.

The intermediate structural crossmembers shall be interconnected and welded to the main body tubular crossmembers forming a fully welded support grid for the body super-structure compartments.

The subframe crossmembers shall be attached to the chassis frame rails using heavy "U" bolt fasteners to allow removal of the subframe and body assembly from the chassis. There shall be a barrier provided between the subframe and body to prevent electrolysis.

The tubular extrusion shall consist of 1-3/4" x 3" rectangular tubes of both 1/8" and 3/16" wall thickness and 3" x 3" square aluminum tubing of both 1/8" and 3/16" wall thickness.

SINGLE AXLE WHEEL AREA

For ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth plate that is welded in place.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 25") radius wheel well liner shall be provided. Wheel well liner shall be smooth aluminum to prevent corrosion.

FENDERETTES

The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless-steel fasteners.

BODY DIMENSIONS

The aluminum rescue body shall be sixteen-foot (16') long.

BODY DIMENSIONS

The aluminum rescue body shall be 101" wide.

ROLL UP DOOR CONSTRUCTION

The roll up door(s) shall be fabricated from aluminum extrusions and be manufactured and assembled in the United States.

The door slats shall be double-wall extrusions with dimensions of 1.366" high x .315" thick. The exterior surface shall be flat and the interior surface concave to deflect loose equipment to prevent the door from jamming. Each slat shall have interlocking end shoes to prevent the slat from moving side to side resulting in binding of the door. Each slat shall be separated by a co-extruded PVC and rubber inner seal to prevent metal to metal contact and minimize dirt and moisture from entering the compartment. The inner seal shall not be visible from the exterior to maintain a clean appearance of door. The slats shall have interlocking joints with a folding locking flange to provide security and prevent penetration by sharp objects.

The track shall be a one (1) piece aluminum assembly that has an attaching flange and finishing flange incorporated into the design that facilitates installation and provides a finished look to the door without additional trim or caulking. A low-profile side seal shall be utilized to maximize usable compartment space.

A drip rail designed to prevent water from dripping into the compartment shall be provided. The drip rail shall have a built in replaceable non-contacting seal to eliminate scratching of the surface of the door.

Bottom rail extrusion must have smooth back to prevent loose equipment from jamming the door and have "V" shaped double seal to prevent water and debris from entering the compartment. The door latch system shall be a full width one (1) piece lift bar that enables the user to operate with one hand.

The roll mechanism shall have a clip system that connects the curtain slats to the operator drum to allow for easy tension adjustment without tools. A four (4) inch diameter counterbalanced operator drum shall be incorporated to assist in lifting the door.

EZ-PULL DOWN STRAPS

Six (6) elastic nylon straps shall be provided and installed on each roll up door. The straps shall be secured to the side wall of the interior compartment in a way that will allow the EZ-Pull strap to contract automatically and tuck inside the compartment when closed to prevent the strap from dangling and hindering closing of the door. When the door is the open position, the straps shall be installed so that they are fully extended as to not interfere with removing items from the compartment. For the ease of locating, the straps shall be bright orange in color.

COMPARTMENT HEIGHT

The body side compartments shall be 72" high.

LEFT FRONT COMPARTMENT

There shall be one (1) full height transverse compartment located at the front of the apparatus body. The compartment shall be equipped with a full height natural finish roll up door.

The compartment shall be equipped with the following:

One (1) louver with filter shall be installed in the compartment.

COMPARTMENT HEATER

There shall be one (1) Espar Airtronic D2 style heater installed on the apparatus. An Airtronic D2 style heating system shall be installed to keep one (1) compartment heated and keep the equipment contained in the compartment at an optimum temperature.
*** Mount along front wall, center of compartment
ADJUSTABLE SHELVING TRACKS
The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.
ADJUSTABLE SHELF
One (1) adjustable shelf shall be constructed of .188" smooth aluminum plate with 1.5" formed vertical lip front & back. Shelf supports on each side to be constructed of .188" aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8" bolts and spring-loaded cam locks. If shelf is longer than 40" a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.
The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.
250# ROLLOUT TRAY
One (1) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.
The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully extended and stored positions.
The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.
600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT FRONT COMPARTMENT

There shall be one (1) full height transverse compartment located ahead of the rear wheels. The compartment shall be equipped with a full height natural finish roll up door.

The compartment shall be equipped with the following:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

ADJUSTABLE SHELF

One (1) adjustable shelf shall be constructed of .188" smooth aluminum plate with 1.5" formed vertical lip front & back. Shelf supports on each side to be constructed of .188" aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8" bolts and spring-loaded cam locks. If shelf is longer than 40" a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

250# ROLLOUT TRAY

One (1) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.

The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully extended and stored positions.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

LEFT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be transverse to the opposite side of the truck.

The compartment shall be equipped with the following items:

One (1) louver with filter shall be installed in the compartment.

600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

TRANSVERSE STOKES BASKET STORAGE

Two (2) horizontally mounted slide-in stokes basket storage cavities shall be provided in the upper compartment of L3 and R3. Provide access to stokes basket storage from either the L3 or R3 compartments. The storage areas shall be approximately 26" inside width x 86" deep x 10" high. A hook and loop (Velcro) retention strap shall be provided in both compartments to secure the stokes basket while stowed.

The stokes basket shall be supplied by the proponent.

*** Mount hanging from top of compartment
The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.
COMPARTMENT LIGHTS
Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.
The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.
The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.
<u>LEFT REAR COMPARTMENT</u>
There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.
<u>COMPARTMENT DEPTH</u>
The compartment shall be transverse to the opposite side of the truck.
The compartment shall be equipped with the following items:
One (1) louver with filter shall be installed in the compartment.
ADJUSTABLE SHELVING TRACKS
The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.
ADJUSTABLE SHELF
One (1) adjustable shelf shall be constructed of .188" smooth aluminum plate with 1.5" formed vertical lip front & back. Shelf supports on each side to be constructed of .188" aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8" bolts and spring-loaded cam locks. If shelf is longer than 40" a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

250# ROLLOUT TRAY

One (1) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.

The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully extended and stored positions.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

RIGHT FRONT COMPARTMENT

There shall be one (1) full height transverse compartment located at the front of the apparatus body. The compartment shall be equipped with a full height natural finish roll up door.

The compartment shall be equipped with the following:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.

ADJUSTABLE SHELF

One (1) adjustable shelf shall be constructed of .188" smooth aluminum plate with 1.5" formed vertical lip front & back. Shelf supports on each side to be constructed of .188" aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8" bolts and spring-loaded cam locks. If shelf is longer than 40" a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

250# ROLLOUT TRAY

One (1) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.

The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully extended and stored positions.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

RIGHT FRONT COMPARTMENT

There shall be one (1) full height transverse compartment located ahead of the rear wheels. The compartment shall be equipped with a full height natural finish roll up door.

The compartment shall be equipped with the following:

One (1) louver with filter shall be installed in the compartment.

ADJUSTABLE SHELVING TRACKS

The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.
250# ROLLOUT TRAY
One (1) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.
The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully extended and stored positions.
The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.
600# ROLLOUT TRAY
One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.
An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.
The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.
COMPARTMENT LIGHTS
Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.
The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

RIGHT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

COMPARTMENT DEPTH

The compartment shall be transverse to the opposite side of the truck.

The compartment shall be equipped with the following items:

One (1) louver with filter shall be installed in the compartment.

600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

<u>RIGHT REAR COMPARTMENT</u>
There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.
<u>COMPARTMENT DEPTH</u>
The compartment shall be transverse to the opposite side of the truck.
The compartment shall be equipped with the following items:
One (1) louver with filter shall be installed in the compartment.
<u>ADJUSTABLE SHELVING TRACKS</u>
The compartments shall be equipped with four (4) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.
<u>ADJUSTABLE SHELF</u>
One (1) adjustable shelf shall be constructed of .188" smooth aluminum plate with 1.5" formed vertical lip front & back. Shelf supports on each side to be constructed of .188" aluminum and bolted to an aluminum extrusion (mounted vertically) by use of 3/8" bolts and spring-loaded cam locks. If shelf is longer than 40" a reinforcement by aluminum gusset is to be placed full-length on bottom of shelf.
The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.
<u>250# ROLLOUT TRAY</u>
One (1) roll-out equipment tray shall be installed in a standard depth compartment. The tray with telescoping slides and roller bearings shall be rated to a maximum load of 250 lbs. Tray shall be of a closed-in design, formed of .125" smooth aluminum plate, fabricated with two (2) inch sides.
The tray unit shall roll out to full extension of the compartment, with latching mechanism to hold tray in both fully extended and stored positions.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

600# ROLLOUT TRAY

One (1) SlideMaster AM3 Series mid profile telescoping equipment tray(s) shall be installed that is(are) approximately half the depth of the body width. The tray assembly shall have an aluminum slide frame with sealed roller bearings rated to 600 pounds. A tray constructed of .190" smooth aluminum plate with four 3" sides shall be mounted to the slide frame. The slide frame shall extend 100% allowing the tray to be completely accessible from outside the compartment. The slide shall have a 3-1/4" deck height.

An integrated manual quarter turn "gravity" lock shall hold tray in both the "in" and "out" positions. The "gravity lock" manually rotates a rod with a tab to engage the bottom frame.

The shelf/tray shall be fitted with removable vinyl Turtle Tile matting. The matting shall be interlocking modules approximately 12" square by 1/2" thick. This material shall be resistant to heat, cold, ultra-violet radiation, mechanical impacts, chemical actions and is corrosion resistant.

COMPARTMENT LIGHTS

Two (2) ROM vertically mounted roll-up compartment LED V3 door lights shall be installed one each side of the door opening. The compartment lights shall be integrated into the roll-up door tracks with the light actuation with the door opening.

The lights shall have a polycarbonate lens to eliminate breakage from impact and eliminate heat buildup.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

REAR STEP - 14" BOLT-ON

A 14" deep step shall be provided at the rear of the apparatus body, bolted in place and easily removable for replacement or repair. The tailboard shall be constructed of .188" aluminum diamond plate or equal non-slip surface in compliance with NFPA #1901 standards.

A label shall be provided warning personnel that riding on the rear step while the apparatus is in motion is prohibited.

FRONT BODY PROTECTION PANELS

Aluminum tread plate overlays and panels shall be installed on the front of the body compartment from the lower edge to the top of the compartment doors.

REAR BODY PROTECTION PANELS

The rear body panels of the body shall be a smooth material, to allow for the proper application and installation of a "Chevron" stripe on the rear.

ACCESS LADDER - EZ CLIMB - REAR Center

There shall be a swing out and down access ladder supplied and installed on the apparatus, for accessing the top of the apparatus. It shall be of an all-aluminum design and shall incorporate treads six (6") inches deep and no more than eighteen (18") inches apart. The ground to the first step dimension, on level ground, shall be no more than twenty-four (24") inches.

The access ladder shall have integrated hand holds, to aid in the ascent/descent of the ladder.

When in the deployed position the ladder shall have an angle of approximately 75-degrees to facilitate ascending and descending the ladder. The ladder shall be retained in the stowed and deployed position by two (2) gas cylinders and shall not require the use of latches to hold it in position.

*** Locate in the center to access upper walkway. Make as wide as possible.

HANDRAIL EZ-CLIMB LADDER

Two (2) extruded aluminum non-slip handrails with offset brackets shall be installed on the EZ-Climb access ladder, one (1) on each side.

HANDRAIL TOP OF BODY SIDES

Two (2) extruded aluminum non-slip handrails, approximately 12" in length, shall be provided and mounted, one (1) each side at the top of the body sides, on the rear of the apparatus.

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One (1) extruded aluminum non-slip handrail, approximately 12" in length, shall be provided and mounted, at the top of the body sides, on the rear of the apparatus.

EXTRUDED ALUMINUM RUB RAILS

Full body length polished aluminum rub rails shall be bolted in place on the lower right and left body sides. The side rub rails shall be a heavy extruded aluminum "C" channel.

NYLON SPACERS FOR RUB RAILS

There shall be nylon spacers provided between the rub rail and the body. This shall allow wash out and replacement in the event of damage.

WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the left side of the apparatus, ahead of the rear wheels.

One (1) breathing air cylinder storage compartment shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be bolted in-place and removable for repair or replacement.

Compartment shall be provided with SCBA cylinder scuff protection. A brushed aluminum door with push button trigger latch shall be provided.

One (1) one inch (1") wide loop of black webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in case of door failure. The loop shall be mounted, centered in the compartment and shall hang within one inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the left side of the apparatus, behind of the rear wheels.

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WHEEL WELL PROVISION LOCATION

The wheel well provisions shall be located on the right side of the apparatus, ahead of the rear wheels.

One (1) breathing air cylinder storage compartment shall be provided and located in the rear wheel well of the apparatus body.

The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be bolted in-place and removable for repair or replacement.

Compartment shall be provided with SCBA cylinder scuff protection. A brushed aluminum door with push button trigger latch shall be provided.

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UPPER BODY SIDE COMPARTMENT

Two (2) upper body compartments shall be provided top of body with dimensions of approximately 72" and 12" to 20" deep.

The compartment shall have a lift-up door installed, constructed of 1/8" aluminum tread plate. The door shall have a stainless-steel hinge and dual gas openers. The door opening shall be flanged upward 1" to prevent water from running into compartments when the door is closed. Two (2) heavy duty socket and plunger latches shall be installed to hold the door along with a heavy-duty chrome grab handle to lift the door.

The compartment shall be located on the left side of the body.

*** Coffin compartment to be approx. 20" deep 36" wide & 72" long.

COMPARTMENT EXTERIOR FINISH

The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.

COMPARTMENT LIGHT

Two (2) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

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The compartment shall be located on the right side of the body.

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COMPARTMENT EXTERIOR FINISH

The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.

COMPARTMENT LIGHT

Two (2) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

TOP UPPER BODY COMPARTMENT

A top upper body compartment shall be provided. The compartment shall be 12 to 20" deep, 48" front to rear and 92" right to left.

The compartment shall have a lift-up door installed, constructed of 1/8" aluminum tread plate. The door shall have a stainless-steel hinge and dual gas openers. The door opening shall be flanged upward 1" to prevent water from running into compartments when the door is closed. Two (2) heavy duty socket and plunger latches shall be installed to hold the door along with a heavy-duty chrome grab handle to lift the door.

The compartment shall be located transverse at the front of the body.

*** compartment to be approx. 20" deep.

COMPARTMENT EXTERIOR FINISH

The roof compartments shall be constructed from smooth aluminum painted to match the apparatus body.

COMPARTMENT LIGHT

Two (2) LED light fixture shall be installed on the wall of the compartment. The light shall have a clear lens.

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

SHORELINE RECEPTACLES

The following receptacles shall be wired to the shoreline power.

120V ELECTRIC RECEPTACLE -- STRAIGHT BLADE

One (1) 120-volt 20-amp straight blade, 3-prong duplex receptacle with spring loaded weatherproof cover shall be provided.

*** Locate in L1 R1 compartment

POWER DISTRIBUTION STRIP

One (1) 15-amp power distribution strip with four (4) receptacles shall be provided. The strip shall be powered by the chassis shoreline power.

FRONT MOUNTED ELECTRIC WINCH

One (1) Warn, model M12000, 12-volt electric winch, with 12,000 lb. capacity shall be provided and mounted on the front of the apparatus. The winch shall be secured directly to the chassis frame rails by a heavy steel support structure designed to withstand the pulling force of the winch.

The winch shall include 125 ft. 3/8" galvanized cable with clevis hook, 25 foot minimum or longer remote-control pendant, 4-way roller fairlead through the bumper.

The installation shall maintain access to the winch controls.

BODY PAINT PROCESS

All bright metal fittings, if unavailable in stainless steel shall be heavily chrome plated. Iron fittings shall be copper plated prior to chrome plating. If applicable, any and all accessory times shall be removed from the body prior to cleaning and painting. Any accessory items that are to be painted, shall be painted separately and installed after the body is painted and cured.

All seams shall be caulked, both inside and along the exterior edges, with a urethane automotive sealant to prevent moisture from entering between any body panels.

The body and all parts shall be thoroughly washed with a grease cutting solvent (PPG CFX436) prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again with (PPG CFX436) to remove any contaminants on the surface.

The next two to four coats (depending on need) shall be a PPG DelFleet F4936 High Solids Epoxy Gray Primer. The film build shall be 4-6 mils when dry. The primer surfacer coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure maximum gloss of the paint. The last step is the application of at least three coats of PPG DelFleet polyurethane FBC-color, the film build being 2-3 mils dry. Followed by three coats PPG DelFleet F3906 high build clear, the film build being 2-3 mils dry. This shall provide a UV barrier to prevent fading and chalking.

All products and technicians are certified by PPG every two (2) years.

INTERIOR COMPARTMENT FINISH

Ten (10) apparatus side compartment interiors are to be painted with a spatter finish material. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The compartment shall be provided with two (2) coats of white epoxy. The compartments are then coated with a splatter paint topcoat.

TOUCH-UP PAINT

One (1) two (2) ounce bottle of touch-up paint shall be furnished with the completed truck at final delivery.

UNDERCOATING

The entire underside of the single axle apparatus body is to be cleaned and properly prepared for application of a sprayed on automotive type undercoating for added corrosion resistance. Undercoating is to be a solvent based, rubberized coating, black in color.

SIMULATED GOLD LEAF LETTERING

The lettering shall be applied in simulated gold leaf material, shaded in black and encapsulated in clear Mylar.

A quantity of fifty (50), four (4) inch letters are to be placed on the cab and on the body as directed by fire department.

SCOTCHLITE REFLECTIVE LETTERING

The lettering shall be applied with Scotchlite reflective material, shaded in black.

A quantity of thirty (30) letters are to be placed on the cab and on the body as directed by fire department. The letters shall be between eight and twelve inches in height.

KEEP BACK SIGN

A "KEEP BACK 50 METRES" sign with reflective lettering shall be provided and installed on the rear of the vehicle as directed by the Fire Department.

APPARATUS DOOR GRAPHICS

Two (2) custom door seals designed primarily with letters and numbers shall be proposed for installation on the apparatus.

REFLECTIVE STRIPING

A 4" wide 3M brand Scotchlite #680-10 reflective stripe shall be affixed to the perimeter of the vehicle. Striping shall conform to the applicable NFPA requirements. At least 50% of the perimeter length of each side and width of the rear and at least 25% of the perimeter width of the front of the vehicle shall have reflective stripe.

The side stripe shall be applied in a "Z" pattern.

COLOR OF STRIPING MATERIAL

The color of the 3M brand striping material shall be white.

CHEVRON STRIPING

The entire rear portion of the body shall have Oralite V98 reflective red and yellow striping installed. The chevron style striping shall be applied at a 45-degree upward angle pointing towards the center upper portion of the rear panel.

YELLOW SAFETY TAPE - STANDING & WALKING SURFACES

The apparatus shall be NFPA standard 15.7.1.6 designating any horizontal standing or walking surface higher than 48-in (1220 mm) from the ground and not guarded by railing or structure at least 12-in (300 mm) high shall have at least a 1-in (25 mm) wide safety yellow line delineation that contrasts with the background to mark the outside perimeter of the designated standing or walking surface area, excluding steps and ladders.

WHEEL CHOCKS WITH MOUNTS

A pair of safety yellow Worden Model HWGY large aluminum wheel chocks shall be provided and mounted under the apparatus body with Model U815T underbody mounting brackets.