

Township of Muskoka Lakes

Request for Tender

T-2024-18

Supply and Deliver
One (1) New PUMPER FIRE
APPARATUS – 4 DOOR

TOWNSHIP OF MUSKOKA LAKES CONTENTS

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SECTION A TENDER

TOWNSHIP OF MUSKOKA LAKES

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TOWNSHIP OF MUSKOKA LAKES

TENDER

PART I TENDER CALL

The Corporation of the Township of Muskoka Lakes (after this called the "Owner") invites Tenders for:

Contract Number: T-2024-18

Described as Supply and Deliver

One (1) New PUMPER FIRE APPARATUS

– 4 DOOR

Tenders shall be addressed and delivered to: Fire Chief – Ryan Murrell

TENDER #T-2024-18

Muskoka Lakes Fire Department Email: rmurrell@muskokalakes.ca

Tenders shall be received until: 2:00 p.m. Friday February 2, 2024

Tenders received by the time and date specified above shall be opened and read in public as soon as possible after that time. Public reading of a Tender does not imply any decision by the Owner as to whether a Tender is or is not irregular.

PART II TENDER CONDITIONS

TC-1 Completion and Submissions of Tenders

- 1.1 The Tenderer shall complete all documents pertaining to this Contract in ink or in type.
- 1.2 If the Tenderer is a corporation, an authorized officer of the corporation shall sign and seal the Form of Tender.
- 1.3 If the Tenderer is a partnership, a minimum of two partners shall sign the Form of Tender and signatures shall be witnessed.
- 1.4 If the Tenderer is a sole proprietorship, the sole proprietor shall sign the Form of Tender and the signature shall be witnessed.
- 1.5 The Tenderer shall submit its Tender by the date and time specified in Part I of the Tender.
- 1.6 The Tenderer shall submit to the Owner:
 - a) Part III Form of Tender;
- 1.7 The Tenderer shall submit the Tender via email to rmurrell@muskokalakes.ca properly identified with the subject line stating the number of the tender, description and name of the Tenderer. (ex. T-2024-19, Pick up truck, ABC Ford)
- Tender irregularities will be dealt with in accordance with the Township of Muskoka Lakes Purchasing By-Law 2004-161, as amended.
- All inquiries/questions regarding this Tender are to be sent via email to Ryan Murrell, Fire Chief at rmurrell@muskokalakes.ca. Inquiries must be received no later than five (5) Business Days prior to the tender submission deadline specified in Part I of the Tender or as amended by addendum. Unless otherwise addressed through an addendum, all responses to bid inquiries shall not be incorporated as part of the Contract or in any way change the Contract.

TC-2 Basis of Award

2.1 The Township intends to award the contract to bidder that best meets the operational needs of the Township and represents the best value for the Township. This will be determined through an examination of the conformance to specifications balanced with Total Tender Price. As such, lowest tender price may not necessarily be accepted.

TC-3 Addenda

- 3.1 Addenda will be posted on the Township website (www.muskokalakes.ca) for viewing and shall be located in the same area of the webpage that the Tender documents are downloaded from.
- The Township will not notify Tenderers of addendums and it is the responsibility of the Tenderer to monitor the webpage and retrieve posted addendums prior to submitting their bid.
- 3.3 The Tenderer shall ensure that all addenda that are issued are acknowledged and listed under Section FT-1 of the Tender.
- 3.4 The deadline for the posting of addenda is no later than three (3)
 Business Days prior to tender submission deadline as specified in Part I of the Tender or as amended by addendum.

TC-4 Irregular Tenders

4.1 The Owner shall be the sole judge of whether or not a Tender is irregular.

TC-5 Unbalanced Tenders

- 5.1 The Tenderer shall not submit an unbalanced Tender.
- 5.2 The Owner shall have the right to:
 - a) deem a Tender to be unbalanced; and
 - b) reject a Tender which it deems to be unbalanced.

TC-6 Collusion

- The Tenderer shall not engage in collusion of any sort and, in particular, shall:
 - a) ensure that no person or other legal entity, other than the Tenderer, has any undisclosed interest in the Tenderer's Tender; and
 - b) prepare its Tender without any knowledge of, comparison of figures with or arrangement with any other person or firm preparing a Tender for the same work.

TC-7 Right to Accept or Reject Tenders

- 7.1 Notwithstanding any other provision in this Contract, the Owner shall have the right to:
 - a) accept any Tender;
 - b) reject any Tender; and
 - c) reject all Tenders.

- 7.2 Without limiting the generality of Section TC-7.1, the Owner shall have the right to:
 - a) accept an irregular Tender;
 - b) accept a Tender which is not the lowest Tender; and
 - c) reject a Tender even if it is the only Tender received by the Owner.
- Acceptance of the Tender shall occur at the time the Owner awards the Tender and not necessarily at the time the award is communicated to the successful Tenderer.

TC-8 Contract Documents

8.1 The Tenderer shall obtain and review all Contract Documents as listed in the Form of Tender including all Addenda issued by the Owner pertaining to this Contract.

TC-9 Errors, Omissions and Discrepancies in the Contract Documents

- 9.1 If the Tenderer finds any errors or omissions in or discrepancies among the Contract Documents, it shall immediately notify the Owner at the address specified in Part I of the Tender.
- No oral explanation or interpretation by any person shall modify any of the Contract Documents.

TC-10 Irrevocability of Offer

The Tenderer shall not revoke its offer until after the expiration of sixty (60) days after the opening of Tenders by the Owner.

TC-11 Successful Tenderer - WSIB Certificate of Clearance

11.1 The successful Tenderer shall provide the Owner with a valid Workplace Safety & Insurance Board Certificate of Clearance to the satisfaction of the Owner.

TC-12 Successful Tenderer - Execution of Form of Agreement

- 12.1 The successful Tenderer shall execute in accordance with TC-1, in triplicate, the Form of Agreement provided in the Contract Documents.
- 12.2 The successful Tenderer shall forward the executed Form of Agreement to the Owner.

TC-13 Successful Tenderer - Time for Completion

- 13.1 The successful Tenderer shall provide the product by December 1, 2024.
- The successful Tenderer acknowledges that time shall be deemed to be of the essence of the Contract. For the Tenderer's purpose of establishing a schedule for

the Work, it is anticipated that contract award will be complete within 30 calendar days after the opening of tenders by the Owner. Upon notice of award, the successful Tenderer will be required to complete submissions to the Owner as per TC-14.1. Upon receipt of all required submissions from the successful Tenderer, the Owner will return an executed Form of Agreement to the Tenderer within 10 Business Days.

Milestone dates associated with the Contract will be adjusted, when possible, due to any delays to the anticipated award schedule caused by the Owner during the contract award and/or issuance of the authorization to commence work.

TC-14 Successful Tenderer - Submission of Documentation

- 14.1 The successful Tenderer shall submit the documentation required by Sections TC-11 and TC-12 within seven (7) calendar days of the day the Owner notifies the successful Tenderer that the documentation should be sent to the Owner.
- If the successful Tenderer fails to comply with Section TC-14.1 the Owner may, in its sole discretion, withdraw its acceptance of the Tender and the Tenderer shall have no recourse whatsoever against the Owner.

TC-15 Successful Tenderer - Commencement of the Work

The successful Tenderer shall not commence the Work until it has received authority to proceed with the work from the Owner as well as the fully executed Form of Agreement signed by both parties (Tenderer and Owner) and a Purchase Order issued by the Owner.

TC-16 Successful Tenderer - Vendor Performance Management Notice

16.1 The contract resulting from this Tender may be subject to performance evaluation conducted by the Owner. The Owner reserves the right to consider the results of this performance evaluation in the award of future contracts and/or in the selection of vendors for future work. Performance evaluation will be managed in accordance with Township policy HS-007-POL, "Contractor Activities and Control Policy" and Township Procurement Policy By-law 2004-161, as amended.

TOWNSHIP OF MUSKOKA LAKES PART III - FORM OF TENDER

Tender by:	
	NAME OF TENDERER
	ADDRESS OF TENDERER TELEPHONE NUMBER
	FAX NUMBER
	E-MAIL
after this	called the "Tenderer".
FT-1	Contract Documents
1.1	The Contract Documents for Contract Number T-2024-18 are: a) Tender i) Part I - Tender Call ii) Part II - Tender Conditions iii) Part III - Form of Tender b) Form of Agreement c) Special Provisions d) All Addenda issued pertaining to the Contract as acknowledged below: Addendum No dated , 20, No. of Pages Addendum No dated, 20, No. of Pages
FT-2	Schedule of Specifications

- 2.1 The Schedule of Specifications attached is Section FT-2.5 of the Tender. The Schedule of Specifications shall form an integral part of the tender submission and must be completed in its entirety.
- All equipment shall conform to the latest laws, rules and regulations in the 2.2 Province of Ontario. The vehicle shall meet or surpass all relevant requirements of the Canadian Motor Vehicle Safety Standards at the date of the vehicle and equipment manufacture.

- 2.3 Only standard factory approved makes and models shall be included in this tender. The vehicle shall be equipped with all standard features for the quoted make and model plus anything outlined in this specification if not standard. Vehicles shall be supplied only with the standard or advertised optional engine for the vehicle being bid. Vehicles with non-advertised or altered engine horsepower settings will not be accepted. Only currently advertised and factory approved engine and drive train combinations are acceptable. Only the major details of the vehicle are listed. It is the supplier's responsibility to deliver a fully equipped vehicle with compatible components to provide dependable efficient service. Where minimums are given, the vehicle must meet or exceed the capacity, size, or performance specified. All components of the vehicle must be new including any related attachments.
- 2.4 For each of the specific requirements, please indicate if the equipment supplied conforms to the Township of Muskoka Lakes actual specification by circling "yes" or "no" in each column as provided. If prompted, please specify the details of the vehicle in the space provided. For any specific requirements that do not conform to the specifications provided, please circle "no" in the column provided and indicate the manufacturer's actual specification in the space provided on the Specification Sheet. For any specific requirements that do not conform to the specifications provided, please provide additional supporting information on a separate sheet of paper and/or supply product specification information and pamphlets supporting the deviation for review. If a particular manufacturer does not offer a model or option that meets a particular specification in this tender, deviation will be considered at the discretion of the Director of Public Works. The Township reserves the right to review all stated deviations to determine acceptance or non-acceptance as best meets the needs of the Township, without penalty.

FT-2.5 SCHEDULE OF SPECIFICATIONS

PUMPER FIRE APPARATUS – 4 DOOR					
1.	VEHICLE INFORMATION				
	Specify year, make, model and estimated date of delivery of the vehicle being tendered. Must be a new vehicle in model year that it is delivered.	YEAR: MAKE: MODEL: DELVERY DATE:			
2.	COMMERCIAL MOTOR VEHICLE SAFETY	ACT	СОМР	LIANCE:	
	Vehicles shall meet or surpass the mandatory requirements of the Canada Motor Vehicle Safety Act and its Regulations in effect on the date of manufacture and the vehicle must bear the National Safety Mark.	YES	NO		
3.	MINIMUM VEHICLE SPECIFCATIONS:				
	Intent of specifications It shall be the intent of these specifications to hereinafter and as specified. With a view to acceptable apparatus for service in the fire of general requirements as to the type of constitution, together with certain details as to for successful bidder shall conform. Minor detail otherwise specified are left to the discretion responsible for the design and construction. The bidder shall state the location of the man built and the location of the parent company. The bidder shall provide satisfactory evidence specified in the bidders manufacturing facility.	obtaining the partners of the contract of the	ng the nent, the and te quipmenstruct contract eatures uring fa bsidiar	best results and the most nese specifications cover only the sets to which the apparatus must ent and appliances with which the tion and materials where not stor, who shall be solely s. Icility where the apparatus is to be by of a manufacturer.	

BUILDING STANDARDS			
The fire apparatus shall be built according to the following building standards: CAN/ULC-S515-13 (or most current edition at time of bid submission), National Standard of Canada, Standard for Automobile Fire Fighting Apparatus, Third Edition (2013) NFPA 1901 2016 Edition, National Fire Protection Association, Standard for Automotive Fire Apparatus 2016 Edition, where possible and not in conflict with CAN/ULC-S515-13 Transport Canada current regulations and requirements for commercial vehicles, including CMVSS Ontario Highway Traffic Act current	YES	NO	
regulations and requirements for			
commercial vehicles			
PRE-DELIVERY			
The complete vehicle shall be full interior detailed and exterior cleaned prior to final delivery to the fire department.	YES	NO	
The vehicle shall be fully fueled prior to final delivery to the fire department.			
The vehicle shall have a full DEF tank prior to final delivery to the fire department.			
The vehicle shall have an Ontario Periodic Mandatory Commercial Vehicle Inspection and include all paperwork prior to final delivery to the fire department.			
The vehicle shall include an emissions test prior to ownership transfer to the fire department, as may be required for Ontario ownership transfer.			
The vehicle shall include Ontario permanent emergency vehicle license plates prior to delivery to the fire department. The license plates shall include the municipal fire truck "MFT" code for ownership/license plate purposes.			

RUST PROOFING			
A rust proofing system application shall be applied to the completed fire apparatus prior to delivery to the fire department. The rust proofing system creates a barrier of protection for metals and neutralizes the harmful effects of salt and moisture. The rust proofing system must be compatible with other manufacturer rust controls products, either applied annually before or after this treatment.	YES	NO	
WARNING EQUIPMENT			
Whelen Engineering Co. warning equipment as stated with associated warranties shall be provided, no exception.	YES	NO	
FINAL DELIVERY			
The vehicle shall be delivered to the enduser by dealer staff. Final delivery shall be coordinated ahead of the delivery date, establishing a date/time for estimated arrival. The final delivery shall include a brief overview of all aspects of the fire apparatus, unless prior arrangements have been made for more involved familiarization.	YES	NO	
The final delivery shall include ownership transfer with full payment provided by the end-user, either at the time of delivery, ahead of delivery or another previously arranged agreement.			
All agreed upon loose equipment shall be reviewed and confirmed present at final delivery.			

4 N.O. E. O.E. 4 D.D.D.O. 4 O.U.	1		
ANGLE OF APPROACH			
The angle of approach for the apparatus shall not be less than eight (8) degrees as specified by the current edition of the NFPA 1901 Guideline.	YES	NO	
ANGLE OF DEPARTURE			
The angle of departure for the apparatus shall not be less than eight (8) degrees as specified by the current edition of the NFPA 1901 Guideline.	YES	NO	
NFPA 1901 PUMPER EQUIPMENT ALLOWANCE			
In compliance with the current NFPA 1901 guidelines, the apparatus shall be engineered to provide and allow for 2500 pounds of fire department loose equipment.	YES	NO	
ELECTRONIC STABILITY CONTROL			
Electronic stability control shall be supplied on the chassis.	YES	NO	
ENGINEERING BLUEPRINTS			
The manufacturer must submit "proposal" blueprints which are representative of the vehicle being proposed and these have been generated on computer-aided-design (CAD) equipment. The blueprints are provided as follows:	YES	NO	
Left side exterior view Right side exterior view Rear exterior view			

GENERAL DESIGN			
The design of the apparatus is 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.	YES	NO	
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.			
The manufacturer shall operate a Quality Management System under the requirements of ISO 9001. These standards sponsored by the "International Organization for Standardization (ISO)" specify the quality systems that shall be established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance shall be included with the bid.	YES	NO	NO EXCEPTION ALLOWED

BODY WARRANTY				
The manufacturer will warrant each new motorized fire apparatus manufactured by the manufacturer for a period of ONE YEAR from the date of delivery, except for chassis and other components noted herein.	YES	NO		
Under this warranty the manufacturer will 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 our inspection at our request, returned to our location designated by us 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 inspection indicates the failure was attributed to defective material or workmanship.				
The warranty on the chassis and chassis supplied components, storage batteries, generators, electrical lamps and other devices subject to deterioration is limited to the warranty of the manufacturer thereof and adjustments for the same are to be made directly with the manufacturer by the customer.				
This warranty shall not apply to those items that are usually considered normal maintenance and upkeep services: including, but not limited to, normal lubrication or proper adjustment of minor auxiliary pumps or reels.				
This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on the manufacturers part.				

	1	
ALUMINUM BODY WARRANTY - FIVE		
YEAR		
The manufacturer will warrant to the original purchaser only, that the all-aluminum body, fabricated by The manufacturer, under normal use and with reasonable maintenance, be structurally sound and will remain free from corrosion perforation for a period of FIVE (5) years.	YES	NO
The manufacturer will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If The manufacturer elects to repair this body, the extent of such repair shall be determined solely by The manufacturer, and shall be performed solely at the manufacturer factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.		
GALVANIZED SUBFRAME WARRANTY		
Subject to the provisions, limitations and conditions set forth in this warranty, The manufacturer (hereby referred to as "seller"), hereby warrants to each original purchaser only that each new hot dip galvanized body subframe (exclusive of paint finish and hardware) 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 the duration of ownership by the original purchaser. This warranty terminates upon transfer of possession or ownership by the original purchaser.	YES	NO

PAINT WARRANTY - FIVE YEAR			
The manufacturer paint performance guarantee will cover the vehicle for a period of FIVE (5) years beginning the day the vehicle is delivered to the purchaser. The full apparatus body, manufactured	YES	NO	
and painted by The manufacturer, shall be covered for the following paint failures as outlined on the guarantee certificate:			
 Peeling or delaminating of the topcoat and/or other layers of paint. Cracking or checking. Loss of gloss caused by cracking, checking, or hazing. 			
FIRE PUMP WARRANTY			
A ten (10) year warranty for the fire pump shall be provided.	YES	NO	NO EXCEPTION ALLOWED
STAINLESS-STEEL PLUMBING			
WARRANTY			
The manufacturer shall provide a ten (10) year warranty on the stainless-steel plumbing components and installation. The manufacturer shall supply details of their warranty information with their bid submission.	YES	NO	
WATER/FOAM TANK WARRANTY			
The Manufacturer warrants each tank to be free from manufacturing defects in material and workmanship for the service life of the vehicle (vehicle must be actively used in fire suppression).	YES	NO	

BODY MANUAL - PRINTED WITH DIGITAL COPY The manufacturer shall provide with the vehicle upon delivery, one (1) complete delivery manual. This manual shall be in a notebook type binder, with reference tabs for each section of the vehicle. Within each section shall be: Individual component manufacturer instruction and parts manuals Warranty forms for the body Warranty forms for all major components Warranty instructions and format to be used in compliance with warranty obligations Wiring diagrams Installation instruction and drawings for major parts Visual graphics and electronic photos for the installation of major parts Necessary normal routine service forms, publications and components of the body	YES	NO	
 Necessary normal routine service forms, 			
A Freightliner 4-door chassis per the following specifications shall be furnished:	YES	NO	

FREIGHLINER CHASSIS

Vehicle Configuration

001-172	M2 106 PLUS CONVENTIONAL CHASSIS
004-224	2024 MODEL YEAR SPECIFIED
002-004	SET BACK AXLE - TRUCK
019-004	STRAIGHT TRUCK PROVISION, NON-TOWING
003-001	LH PRIMARY STEERING LOCATION

General Service

AA1-002	TRUCK CONFIGURATION
AA6-003	DOMICILED, CANADA (OTHER THAN QUEBEC)
RCE-00F	FIXED CANADIAN EXCHANGE
A85-020	FIRE SERVICE

A84-1EV	EMERGENCY VEHICLES BUSINESS SEGMENT				
AA4-002					
AA5-002					
7010 002	PAVED ROADS				
AB1-008	MAXIMUM 8% EXPECTED GRADE				
AB5-001	SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-				
AD3-001	TRANSIT (BETWEEN SITES) ROAD SURFACE				
995-091	MEDIUM TRUCK WARRANTY				
A66-99D	EXPECTED FRONT AXLE(S) LOAD: 14600.0 lbs				
A68-99D	EXPECTED REAR DRIVE AXLE(S) LOAD: 26000.0 lbs				
A63-99D	EXPECTED GROSS VEHICLE WEIGHT CAPACITY: 40600.0 lbs				
Truck Service	EXILECTED CINOCC VEHICLE WEIGHT GAI AGITT. 10000.0 lb0				
	FIDE TANK/DUMPED MAIN DDIVELINE DDIVEN COLIT CLIAFT				
AA3-027	FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN SPLIT-SHAFT				
4 F.7 OOD	PTO/PUMP EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX"				
AF7-99D					
Engine	INCHES: 32.0 in				
Engine					
101-2NB	DD8 7.7L 6 CYL DUAL STAGE 350 HP @ 2200 RPM, 2600 GOV RPM,				
=	1050 LB-FT @ 1200 RPM				
Electronic Paran	neters				
79A-068	68 MPH ROAD SPEED LIMIT				
79B-000	CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT				
79F-013	FLEET MANAGEMENT - DAILY ENGINE USAGE ENABLED				
79K-007	PTO MODE ENGINE RPM LIMIT - 1100 RPM				
79P-032	PTO RPM CONTROL WITH STEERING WHEEL SWITCHES				
79S-001	PTO MODE CANCEL VEHICLE SPEED - 5 MPH				
79T-002	PTO MODE RPM INCREMENT - 50 RPM				
79U-007	PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND				
79V-001	FUEL DOSING OF AFTERTREATMENT ENABLED IN PTO MODE-				
	CLEANS HYDROCARBONS AT HIGH TEMPERATURES ONLY				
79W-008	ONE DASH MOUNTED PTO SPEED WITH PTO SWITCH				
	ENGAGEMENT				
79X-008	PTO SPEED 1 SETTING - 1100 RPM				
80G-002	PTO MINIMUM RPM - 700				
80L-001	ENABLE AUTO ENGINE RPM ELEVATE FOR EXTENDED IDLE				
80S-002	PTO 1, DASH SWITCH, ROLLING OPERATION (ENGAGE WHILE				
	PARKED, ROLL IN NEUTRAL AFTER ENGAGEMENT)				
Engine Equipme	ent				
99C-021	2010 EPA/CARB/GHG21 CONFIGURATION				
99D-010	NO 2008 CARB EMISSION CERTIFICATION				
13E-001	STANDARD OIL PAN				
105-001	ENGINE MOUNTED OIL CHECK AND FILL				
014-1BX	SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER				
•	SCREEN AND FIRE RETARDANT DONALDSON AIR CLEANER				
124-1E7	DR 12V 275 AMP 40-SI BRUSHLESS PAD ALTERNATOR WITH				
	REMOTE BATTERY VOLTAGE SENSE				
292-206	(3) DTNA GENUINE, FLOODED STARTING, MIN 2850CCA, 525RC,				
	THREADED STUD BATTERIES				
290-017	BATTERY BOX FRAME MOUNTED				
281-001	STANDARD BATTERY JUMPERS				
282-001	SINGLE BATTERY BOX FRAME MOUNTED LH SIDE UNDER CAB				
291-017	WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL				
	FRAME GROUND RETURN				

289-001 293-060	NON-POLISHED BATTERY BOX COVER POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH WITH LOCKING PROVISION MOUNTED OUTBOARD DRIVER
295-029	SEAT POSITIVE AND NEGATIVE POSTS FOR JUMPSTART LOCATED ON
306-015	FRAME NEXT TO STARTER PROGRESSIVE LOW VOLTAGE DISCONNECT AT 12.3 VOLTS FOR DESIGNATED CIRCUITS
107-047	WABCO 20.0 CFM SINGLE CYLINDER AIR COMPRESSOR
108-002	STANDARD MECHANICAL AIR COMPRESSOR GOVERNOR
131-013	AIR COMPRESSOR DISCHARGE LINE
152-039	GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING
128-1A7	DETROIT MD COMPRESSION BRAKE WITH ON/OFF SWITCH
016-1DC	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL
	AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES
28F-014	ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD
	REGENERATION AND VIRTUAL REGENERATION REQUEST SWITCH IN CLUSTER
239-001	STANDARD EXHAUST SYSTEM LENGTH
237-022	RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES
23U-001	6 GALLON DIESEL EXHAUST FLUID TANK
30N-003	100 PERCENT DIESEL EXHAUST FLUID FILL
43X-002	LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION
23Y-001	STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING
43Y-001	STANDARD DIESEL EXHAUST FLUID TANK CAP
273-059	ELECTRONICALLY CONTROLLED VARIABLE SPEED VISCOUS FAN DRIVE
276-002	AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED
110-077	DETROIT ENGINE MOUNTED FUEL/WATER SEPARATOR WITH WATER-IN-FUEL SENSOR AND ESOC
118-001	FULL FLOW OIL FILTER
266-101	900 SQUARE INCH ALUMINUM RADIATOR
103-040	ANTIFREEZE TO -60F, OAT (NITRITE AND SILCATE FREE) EXTENDED LIFE COOLANT
171-007	GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT
172-001	CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES
270-016	RADIATOR DRAIN VALVE
168-002	LOWER RADIATOR GUARD
134-001	ALUMINUM FLYWHEEL HOUSING
155-070	DELCO 12V 35MT STARTER WITH INTEGRATED MAGNETIC SWITCH AND SOLENOID
Transmission	
342-1KD	ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION
Transmission Equi	pment
343-331	ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT FAMILIES WITH VOCATIONAL MODEL EVS
84B-003	ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES

84C-023	PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84D-023	SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY
84E-000	PRIMARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84F-000	SECONDARY SHIFT SCHEDULE RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84G-000	PRIMARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84H-000	SECONDARY SHIFT SPEED RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84J-000	ENGINE BRAKE RANGE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84K-000	ENGINE BRAKE RANGE ALTERNATE PRESELECT RECOMMENDED BY DTNA AND ALLISON, THIS DEFINED BY ENGINE AND VOCATIONAL USAGE
84N-200	FUEL SENSE 2.0 DISABLED - PERFORMANCE - TABLE BASED
84U-000	DRIVER SWITCH INPUT - DEFAULT - NO SWITCHES
353-075	QUICKFIT BODY LIGHTING CONNECTOR AT END OF FRAME, WITH CAP
34C-011	ELECTRONIC TRANSMISSION WIRING TO CUSTOMER INTERFACE CONNECTOR
362-823	CUSTOMER INSTALLED CHELSEA 280 SERIES PTO
363-001	PTO MOUNTING, LH SIDE OF MAIN TRANSMISSION ALLISON
341-018	MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN
345-003	PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED
97G-004	TRANSMISSION PROGNOSTICS - ENABLED 2013
370-015	WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK
346-003	TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK
35T-001	SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)
Front Axle and Equ	uipment
400-1A8	DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE
402-050	MERITOR 16.5X5 Q+ CAST SPIDER HEAVY DUTY CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
403-026	FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING
419-001	CAST IRON OUTBOARD FRONT BRAKE DRUMS
427-001	FRONT BRAKE DUST SHIELDS
409-006	FRONT OIL SEALS
408-001	VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL
416-022	STANDARD SPINDLE NUTS FOR ALL AXLES
405-002	MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
536-012	TRW TAS-85 POWER STEERING
539-003	POWER STEERING PUMP
534-015	2 QUART SEE THROUGH POWER STEERING RESERVOIR
40T-002	CURRENT AVAILARIE SYNTHETIC 75W-90 FRONT AXLE LURE

Front Suspension	
-	
620-010	14,600# TAPERLEAF FRONT SUSPENSION MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION
619-005 410-001	FRONT SHOCK ABSORBERS
Rear Axle and Equ	
420-022 421-586	RS-26-185 26,000# T-SERIES SINGLE REAR AXLE 5.86 REAR AXLE RATIO
421-566 424-001	IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING
386-073	MXL 17T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES
452-001	DRIVER CONTROLLED TRACTION DIFFERENTIAL - SINGLE REAR AXLE
878-018	(1) DRIVER CONTROLLED DIFFERENTIAL LOCK REAR VALVE FOR SINGLE DRIVE AXLE
87B-024	INDICATOR LIGHT FOR EACH DIFFERENTIAL LOCKOUT SWITCH, ENGAGE AT SPEEDS 5 MPH OR LESS, DISENGAGE W/IGN OFF OR SPEEDS EXCEEDING 25 MPH
423-039	MERITOR 16.5X7 Q+ CAST SPIDER CAM REAR BRAKES, DOUBLE ANCHOR HEAVY DUTY BRAKE AND SHOES
433-025	FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING
434-011	BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)
451-030	WEBB HEAVY WEIGHT CAST IRON REAR BRAKE DRUMS
425-002	REAR BRAKE DUST SHIELDS
440-006	REAR OIL SEALS
426-074	HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS
428-003	HALDEX AUTOMATIC REAR SLACK ADJUSTERS
41T-002	CURRENT AVAILABLE SYNTHETIC 75W-90 REAR AXLE LUBE
Rear Suspension	
622-1DC	26,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER AND RADIUS ROD
621-001	SPRING SUSPENSION - NO AXLE SPACERS
431-001	STANDARD AXLE SEATS IN AXLE CLAMP GROUP
623-005	FORE/AFT CONTROL RODS
Brake System	
018-002	AIR BRAKE PACKAGE
490-121	WABCO 4S/4M ABS WITH TRACTION CONTROL
871-001	REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES
904-001	FIBER BRAID PARKING BRAKE HOSE
412-001	STANDARD BRAKE SYSTEM VALVES
46D-002	STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM
413-002	STD U.S. FRONT BRAKE VALVE
432-003	RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE
480-086	BW AD-9SI BRAKE LINE AIR DRYER WITH HEATER
479-003	AIR DRYER MOUNTED INBOARD ON LH RAIL
460-058	STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION
477-004	PULL CABLES ON ALL AIR RESERVOIR(S)

Whool	base & Fran						
vvneei							
	545-622	6225MM (245 INCH) WHEELBASE					
	546-101 11/32X3-1/2X10-15/16 INCH STEEL FRAME						
	E 47 004	(8.73MMX277.8MM/0.344X10.94 INCH) 120KSI					
	547-001	1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT					
	552-027	1500MM (59 INCH) REAR FRAME OVERHANG					
	55W-005	FRAME OVERHANG RANGE: 51 INCH TO 60 INCH					
	AC8-99D AE8-99D	CALC'D BACK OF CAB TO REAR SUSP C/L (CA): 132.28 in CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L					
		(CA): 129.28 in					
	AE4-99D	CALC'D FRAME LENGTH - OVERALL: 343.16 in					
	FSS-0LH	CALCULATED FRAME SPACE LH SIDE: 126.93 in					
	FSS-0RH	CALCULATED FRAME SPACE RH SIDE: 117.28 in					
	553-001	SQUARE END OF FRAME					
	550-001	FRONT CLOSING CROSSMEMBER					
	559-001						
	561-001						
	562-001						
	572-001 565-001	STANDARD REARMOST CROSSMEMBER STANDARD SUSPENSION CROSSMEMBER					
Chass	sis Equipmer						
Onabo	•						
	556-1AR	THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS					
	558-001	FRONT TOW HOOKS - FRAME MOUNTED					
	574-001	BUMPER MOUNTING FOR SINGLE LICENSE PLATE					
	586-024	FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS					
	551-007	GRADE 8 THREADED HEX HEADED FRAME FASTENERS					
	44Z-002	EXTERIOR HARNESSES WRAPPED IN ABRASION TAPE					
	605-117	LEVEL FRAME RAILS (+/- 1%) WHEN CHASSIS IS LOADED TO FRONT					
		AND REAR SUSP RATINGS AND D15-28195-000 CENTER PUNCH TO					
		MARK CL OF REAR SUSP ON FRAME FLANGE					
	970-038	TANK BODY 0 TO 1500 GALLONS					
	607-001	CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR					
		SUSPENSION BRACKET, BOTH RAILS OUTBOARD					
Fuel T	anks						
	204-152	70 GALLON/264 LITER ALUMINUM FUEL TANK - LH					
	218-001	23 INCH DIAMETER FUEL TANK(S)					
	215-005	PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH					
	040.007	PAINTED BANDS					
	212-007	FUEL TANK(S) FORWARD					
	664-001	PLAIN STEP FINISH					
	205-001 122-1H1	FUEL TANK CAP(S) DETROIT FUEL/WATER SEPARATOR WITH BYPASS					
	216-020	EQUIFLO INBOARD FUEL SYSTEM					
	202-016	HIGH TEMPERATURE REINFORCED NYLON FUEL LINE					
Tires	202 010	THOM ENVIONE NEW CHOCKS WE CALL					
	093-994	MICHELIN XZE 12R22.5 16 PLY RADIAL FRONT TIRES					
	094-0GR	MICHELIN XDN2 12R22.5 16 PLY RADIAL REAR TIRES					
Hubs							
	418-060	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS					
	450-060	CONMET PRESET PLUS PREMIUM IRON REAR HUBS					
Wheel	S						

502-735	ACCURIDE 43644 ACCU-LITE 22.5X8.25 10-HUB PILOT 5.79 INSET
	ALUMINUM DISC FRONT WHEELS
505-736	ACCURIDE 43644 ACCU-LITE 22.5X8.25 10-HUB PILOT ALUMINUM
	DISC REAR WHEELS
524-002	POLISHED FRONT WHEELS; INSIDE AND OUTSIDE
525-002	POLISHED REAR WHEELS; OUTSIDE AND INSIDE (BOTH SIDES)
496-011	FRONT WHEEL MOUNTING NUTS
497-011	REAR WHEEL MOUNTING NUTS
Cab Exterior	
829-079	154 INCH BBC HIGH-ROOF ALUMINUM CONVENTIONAL CREW CAB
650-008	AIR CAB MOUNTING
648-002	NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE
678-018	LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER
	INSERT
646-023	HOOD MOUNTED CHROMED PLASTIC GRILLE
65X-003	CHROME HOOD MOUNTED AIR INTAKE GRILLE
644-004	FIBERGLASS HOOD
690-017	HOOD LINER, ADDED FIREWALL AND FLOOR HEAT INSULATION
727-1B0	DUAL 25 INCH ROUND STUTTER TONE HOOD MOUNTED AIR
700 000	HORNS
726-002	DUAL ELECTRIC HORNS
728-002	DUAL HORN SHIELDS REAR LICENSE PLATE MOUNT END OF FRAME
575-001 312-038	INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL
312-036 302-047	LED AERODYNAMIC MARKER LIGHTS
311-001	DAYTIME RUNNING LIGHTS
294-046	OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH
234-040	SEPARATE STOP/TURN WIRES TO 4 FEET BEYOND END OF FRAME
300-015	STANDARD FRONT TURN SIGNAL LAMPS
744-1BC	DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH
	AND RH REMOTE
797-001	DOOR MOUNTED MIRRORS
796-001	102 INCH EQUIPMENT WIDTH
743-204	LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED
	UNDER PRIMARY MIRRORS
729-001	STANDARD SIDE/REAR REFLECTORS
677-055	RH AFTERTREATMENT SYSTEM CAB ACCESS WITH POLISHED
	DIAMOND PLATE COVER
768-043	63X14 INCH TINTED REAR WINDOW
661-003	TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING
0=1011	WING WINDOWS
654-011	RH AND LH ELECTRIC POWERED WINDOWS
663-013	1-PIECE SOLAR GREEN GLASS WINDSHELD
659-019	2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID
Cab Interior	LEVEL INDICATOR, FRAME MOUNTED
Cab Interior	
055-019	RUGGED TRIM PACKAGE
707-107	GRAY & CARBON VINYL INTERIOR "RUGGED"
70K-020	CARBON WITH PREMIUM GUNMETAL ACCENT (RUGGED)
706-013	MOLDED PLASTIC DOOR PANEL
708-013	MOLDED PLASTIC DOOR PANEL
772-006	BLACK MATS WITH SINGLE INSULATION

691-001 FORWARD ROOF MOUNTED CONSOLE 693-019 LH AND RH DOOR STORAGE POCKETS INTEGRATED INTO MOLDED DOOR PANELS 738-021 DIGITAL ALARM CLOCK IN DRIVER DISPLAY 742-007 (2) CUP HOLDERS LH AND RH DASH 680-029 M2/SD DASH 700-002 HEATER, DEFROSTER AND AIR CONDITIONER 701-001 STANDARD HAVAC DUCTING 703-005 MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH 170-015 STANDARD HEATER PLUMBING 130-041 VALEO HEAVY DUTY A/C REFRIGERANT COMPRESSOR 1702-002 BINARY CONTROLS WITH RECIRCULATION SWITCH 1702-002 BINARY CONTROLS WITH RECIRCULATION SWITCH 1702-002 BINARY CONTROL, R-134A 739-034 PREMIUM INSULATION 285-013 SOLID-STATE CIRCUIT PROTECTION AND FUSES 280-001 12V NEGATIVE GROUND ELECTRICAL SYSTEM 284-182 PREMIUM LED CAB LIGHTING 657-01D DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME 657-001 DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME 78G-004 KEY QUANTITY OF 4 655-005 LH AND RH ELECTRIC DOOR LOCKS 756-127 SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH INFPA 1901-2009/2016 COMPLIANT SEAT SENSOR 760-129 SEATS INC 911 UNIVERSAL SERIES SCBA NON SUSPENSION PASSENGER SEAT WITH UNDERSEAT STORAGE AND NFPA 1901- 2009/2016 COMPLIANT SEAT SENSOR 762-129 SEATS INC 911 UNIVERSAL SERIES SCBA NON SUSPENSION LH, RH AND CENTER REAR PASSENGER SEATS WITH UNDER SEAT 578-036 VINYL WITH VINYL INSERT PASSENGER SEAT 761-036 VINYL WITH VINYL INSERT PASSENGER SEAT 761-036 VINYL WITH VINYL INSERT PASSENGER SEAT 763-105 NFPA 1901-2009 HIGH VISIBILITY ORANGE SEAT BELTS 532-002 ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN 540-070 4-SPOKE 18 INCH (450MM) LEATHER WRAPPED STEERING WHEEL WITH CHROME SWITCH BEZELS 765-002 DRIVER AND PASSENGER INTERIOR SUN VISORS 1818-003 DIGITAL PANEL LAMP DIMMER SWITCH IN DRIVER DISPLAY 732-998 NO INSTRUMENT FANEL FRIENT FRINSTRUMENT PANELS 740-002 BRIGHT ARGENT FINISH GAUGE BEZELS 186-001 LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM 189-015 ELECTRONIC GRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES 156-002 IGNITION SWITCH WITH NON REMOVABLE KEY	785-026	(1)DASH MOUNTED 12V POWER OUTLET (1)DASH MOUNTED DUAL
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721-001 97 DB BACKUP ALARM 149-015 ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES 156-020 IGNITION SWITCH WITH NON REMOVABLE KEY	190-033	
149-015 ELECTRONIC CRUISE CONTROL WITH CONTROLS ON STEERING WHEEL SPOKES 156-020 IGNITION SWITCH WITH NON REMOVABLE KEY	724 004	
WHEEL SPOKES 156-020 IGNITION SWITCH WITH NON REMOVABLE KEY		
156-020 IGNITION SWITCH WITH NON REMOVABLE KEY	143-013	
	156-020	
011-044 FREINIUN INGTRUNEINT CLUGTER WITH 3.0 INCH COLOUR DIGFLAT	811-044	PREMIUM INSTRUMENT CLUSTER WITH 5.0 INCH COLOUR DISPLAY

Colour	I AIIVI. GIVE GOLID GOLOGIX
065-000	PAINT: ONE SOLID COLOUR
Design	AWII I ER OIDE, INAILER LAWII OAI AOITT
298-046	INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH 40 AMP (20 AMP PER SIDE) TRAILER LAMP CAPACITY
	FLASH, WASH/WIPE/INTERMITTENT
299-020	SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, HEADLAMP
002-018	AUTONEUTRAL AND WARNING INDICATOR
882-018	WITH PULL OUT FOR OPTIONAL FOG/ROAD LAMPS ONE VALVE PARKING BRAKE SYSTEM WITH DASH VALVE CONTROL
304-030	ROTARY HEADLAMP SWITCH, MARKER LIGHTS/HEADLIGHTS SWITCH
660-008	SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY
836-015	DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY
000 045	HORN AND (1) DRIVER AIR HORN
264-032	(2) OVERHEAD MOUNTED LANYARD CONTROLS: (1) OFFICER AIR
	SERVICE BRAKES
81Y-006	PRE-TRIP INSPECTION FEATURE FOR EXTERIOR LAMPS AND
162-002	IGNITION SWITCH CONTROLLED ENGINE STOP
	PASSENGER SIDE REMOVEABLE DASH PANEL
6TS-005	TMC RP1226 ACCESSORY CONNECTOR LOCATED BEHIND
	MODEL) DETROIT CONNECT PLATFORM
8D1-203	3 YEARS DETROIT CONNECT BASE PACKAGE (FEATURES VARY BY
813-1C8	DETROIT CONNECT PLATFORM HARDWARE
812-001	ELECTRONIC 3000 RPM TACHOMETER
817-001	STANDARD VEHICLE SPEED SENSOR
	WITHOUT ODOMETER
810-028	ELECTRONIC KPH SPEEDOMETER WITH SECONDARY MPH SCALE,
74D-006	STANDARD RADIO WIRING WITH STEERING WHEEL CONTROLS
786-119	NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY
35M-010	QUICKFIT PROGRAMMABLE INTERFACE MODULE
679-998	NO OVERHEAD INSTRUMENT PANEL
852-002	ELECTRIC ENGINE OIL PRESSURE GAUGE
050 000	EXCEEDS 4,000LBS REQ
49B-006	ELECTRONIC STABILITY CONTROL,4X2 W/SAFETY MIN BODY WEIGHT
400 000	ARCHITECTURE
372-123	PTO CONTROLS FOR ENHANCED VEHICLE ELECTRIC/ELECTRONIC
070 100	DISPLAY
830-017	ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER
	MESSAGE CENTER
867-004	ELECTRONIC OUTSIDE TEMPERATURE SENSOR DISPLAY IN DRIVER
864-001	2 INCH TRANSMISSION OIL TEMPERATURE GAUGE
854-008	DIGITAL ENGINE OIL TEMPERATURE IN DRIVER DISPLAY
856-001	ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE
	INTERFACE CONNECTOR
163-014	ENGINE REMOTE INTERFACE CONNECTOR AT POWERTRAIN
	WITH CAP
48C-003	QUICKFIT PROGRAMMABLE INTERFACE CONNECTOR(S) UNDER CAB
.0 000	CAPS
48H-003	QUICKFIT POWERTRAIN INTERFACE CONNECTOR UNDER CAB WITH
148-073	ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE
844-001	2 INCH ELECTRIC FUEL GAUGE
100 000	LOCATED BELOW LH DASH
160-038	HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR

980-5Y6	CAB COLOUR A: L0762EY MED RED ELITE EY
986-020	BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT
963-003	STANDARD E COAT/UNDERCOATING

Certification / Compliance

996-002 CANADA CMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS

FLUID DATA PLAQUE- METRIC			
One (1) fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards and stated in metric volumes:	YES	NO	
 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 AND 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. The measurements shall be stated in metres and kilograms.	YES	NO	
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.			
TIRE PRESSURE LABEL A label shall be placed in a visible area that indicates the front and rear tire pressure.			
(continues below)			

Section A -

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.			
REAR TOWING PROVISIONS			
There shall be two tow eyes furnished			
under the rear of the body and attached	YES	NO	
directly to the chassis frame rails. There			
shall be a reinforcement spreader bar			
connecting the two tow eyes. Tow eyes			
are to be constructed of 3/8" plate steel			
with a 4" I.D. hole, large enough for			
passing through a tow chain end hook.			
The tow plates shall be painted black.			
HUB AND LUG NUT COVERS	YES	NO	
The apparatus shall have chrome or			
stainless-steel hub and lug nut covers on			
the front and single rear axles.			
j			
TIRE PRESSURE INDICATOR			
TINE FILESONE INDICATOR			
There shall be a tire pressure indicator, p/n	YES	NO	
RWTG1235, at each tire's valve stem on		-	
the vehicle that shall indicate if there is			
insufficient pressure in the specific tire.			
·			
REAR MUD FLAPS			
One (1) pair of block mud flore shall be	YES	NO	
One (1) pair of black mud flaps shall be installed behind the rear wheels.	0	110	
installed berlind the real wheels.			

CAB STEPS			
The driver'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.	YES	NO	
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. SCBA BRACKET			
Four (4) Zico SCBA bracket, HZ-KD- ULLH, shall be provided for installation in the cab mounted SCBA seat. An NFPA approved cylinder retention strap shall be supplied.	YES	NO	
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 standards, and the requirements of the applicable NFPA standards.	YES	NO	
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			

Section A –

good engineering practice requires special construction.			
construction.			
The wiring connections and terminations			
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.			
All connections shall be crimp-type with			
insulated shanks to resist moisture and	YES	NO	
foreign debris such as grease and road	153	INU	
grime. Weather-resistant connectors shall			
be provided throughout to ensure the			
integrity of the electrical system.			
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	VE0	NIO	
panel. The wiring shall be secured in place	YES	NO	
and protected against heat, liquid			
contaminants and damage. Wiring shall be			
uniquely identified every three-inches (3")			
by colour 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.			
<u>L</u>			
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	YES	NO	
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	YES	NO	
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.			

LOAD MANAGER 2			
The apparatus shall be equipped with a			
Kussmaul model 091-79 Automatic Load			
Shedding System for performing			
continuous electrical load management.	YES	NO	
The Load Manager shall have the			
following features:			
l l l l l l l l l l l l l l l l l l l			
•Monitor 12-volt system and detect low			
voltage.			
•Capability to control two (2) loads.			
•Automatic reset when voltage rises.			
Adjustable voltage setpoint.			
The load manager shall be protected			
against reverse polarity and shorted			
outputs, and be enclosed in an enclosure			
to enhance EMI/RFI protection. The			
manufacturer shall provide for all electrical			
loads in excess of the NFPA minimum			
electrical requirements that exceed the			
alternator output.			
HIGH IDLE SYSTEM			
	\/=0		
There shall be a high idle system furnished	YES	NO	
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			
Capada aball be designed and installed			
Console shall be designed and installed	YES	NO	
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 panel shall			
be hinged for access to the 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 heavyduty relay to activate power to the emergency lights. The emergency lights shall be activated by a single "MASTER SWITCH" on the electrical console.	YES	NO	
BINDER STORAGE MODULE			
One (1) cab storage module shall be provided at the rearward area of the engine enclosure to accommodate a minimum of three (3) 2" three ring binders. The binders shall be stored one (1) wide and three (3) high in the module. The module shall include a nylon safety belt for retaining the binder when not in use. The compartment shall be fabricated of smooth aluminum. The cabinet's exterior finish shall match the interior finish of the chassis cab. The cabinet's interior shall have a natural finish.	YES	NO	
Two (2) cup holders shall be provided and installed.			
MASTER ELECTRIC SWITCH			
One (1) battery disconnect switch shall be located on the driver side of the apparatus. The switch shall disconnect the 12 volt power supply from the battery system.	YES	NO	
BATTERY CHARGER & AIR			
COMPRESSOR One (1) Kussmaul Pump Plus 1200 model 52-05-1100 battery charger and air compressor system shall be installed. The 120 volt compressor system shall be designed to maintain the air pressure in the chassis brake system. The battery charger shall be supplied from a 120 volt shore power receptacle and be a fully automatic high output charging system. The unit shall be mounted in a clean dry area and will be accessible for service.	YES	NO	

BATTERY CHARGER DISPL	LAY			
One (1) Kussmaul 091-199-0 battery bank voltage display supplied with the charger.	o i sirigio	ES I	NO	
AUTO-EJECT				
A Kussmaul "Super Auto-Eject automatic disconnect device sprovided and installed on the shoreline connection complet weatherproof cover and mate. The Auto-Eject shall be activated chassis starter switch to disconflug. The Super Auto-Eject shall be completely sealed to prevent contamination of the mechanic inclement weather and road of the Super Auto-Eject shall have internal switch to open and clicircuit after the mating connecting the connection of the connections of the connections of the mating connections and before the connections.	shall be 110 volt te with thing plug. ated by the connect the hall be sism by conditions. ave an ose the AC ctor is	ES I	NO	
removed.	5010113			
The shore power plug shall be the step area below the left front of the commercial chassis.	1.75	ES I	NO	
12 VOLT POWER SOURCE				
One (1) 12 volt power and groconnection rated at 30 amps provided on the apparatus for installation of a mobile two-way	shall be YE the	ES I	NO	
The power source shall be ru chassis master battery switch deactivated when the master the "OFF" position.	and shall be switch is in			
One (1) 12 volt LED light with be mounted in the engine end control switch shall be mounted light head.	switch shall YE	ES I	NO	

DI	IMP ENGLOCUPE LIGHTS			
On the	me (1) LED work light shall be provided in pump enclosure. The control switch all be mounted on the light head.	YES	NO	
130 ILL MC A F mc	O° CAMERA WITH 18 INFRARED LUMINATORS & 7" DIGITAL DNITOR Fire Research inView™ TrueSight™ odel BCA111-A00 kit shall include: (1) e 130° camera with 18 infrared	YES	NO	
	minators and (1) one 7" TFT LCD			
	gital colour Monitor.			
On sup the	ADIO ANTENNA BASE ne (1) radio antenna base shall be pplied and installed on the apparatus, e antenna coax terminating in the cab nsole.	YES	NO	
LE vel Mc	ARKER LIGHTS D marker lights shall be installed on the hicle in conformance to the Canadian otor Vehicle Safety Standard quirements.	YES	NO	
On bra	ne (1) stainless-steel license plate acket shall be provided at the rear of the paratus.	YES	NO	
On tail	ne (1) pair of Whelen M62BTT LED l/brake lights shall be provided. The ctangular 4"x6" lights shall be red.	YES	NO	
On sig	IRN SIGNALS ne (1) pair of Whelen M62T LED turn gnals with populated sequential chevron row shall be provided.	YES	NO	
		l		

DACKID LICHTS				
BACKUP LIGHTS				
One (1) pair of Whelen Series M62BU LED backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 4" x 6" and the lens	YES	NO		
colour shall be clear.				
FOUR LIGHT HOUSING				
One (1) pair of chrome plated tail light 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.	YES	NO		
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.	YES	NO		
GROUND LIGHTS				
Each door shall include a Whelen NFPA compliant ground light mounted to the underside of the cab step below each door.	YES	NO		
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.				
There shall be two (2), one each side, Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the rub rail of the pump house.				
There shall be two (2), one each side, Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the rub rail, mid body.				
There shall be two (2) Whelen 3SC0CDCR LED NFPA compliant ground light mounted to the underside of the compartments, behind the rear wheels. (cont)				

There shall be two (2) Whelen 3SC0CDCR LED NFPA compliant ground light			
mounted to the underside of the rear step. Each light shall include a polycarbonate			
lens, a housing which is vibration welded and a bulb which shall be shock mounted			
for extended life.			
The ground lighting shall be activated when the parking brake is set.			
The ground lights shall automatically activate when the parking brake is applied and when the vehicle is in reverse.			
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 3/4" high by 9" wide and have a profile of less than 1 3/4" beyond the mounting surface. Wiring shall extend from a weatherproof strain relief at the rear of the light.	YES	NO	
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 coloured bezel.			
SCENE LIGHT LOCATION Two (2) scene lights shall be located on the left side of the apparatus body. The scene light shall be installed on a treadplate mounting plate.			
Two (2) scene lights shall be located on the right side of the apparatus body. The scene light shall be installed on a treadplate mounting plate.			
Two (2) scene lights shall be located on the rear of the apparatus body.			

SCENE LIGHT SWITCHING			
One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the left side scene light(s).			
The switch shall be labeled "LEFT SCENE".			
One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the right side scene light(s). The switch shall be labeled "RIGHT SCENE".			
One (1) 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".			
The rear scene lights shall activate automatically upon placing the transmission into reverse.			
SCENE LIGHTS			
The mounting location for the specified light shall be on the rear of the apparatus body.	YES	NO	
Two (2) Whelen Pioneer Super LED model PFH1 single lamp light assembly shall be provided. The light shall draw 6.5 amps. The bulb shall be accessible through the front. The lamphead shall be approximately than 3" deep by 4-5/8" high by 8" wide. Lamphead and brackets shall be powder coated white.			
A Fire Research 540 series side mount top raise telescopic light pole shall be provided. The light pole shall extend approximately 40" in height and be anodized aluminum. A knurled twist lock mechanism to secure the extension pole in position shall be included with the pole.			
SCENE LIGHT SWITCHING			
One (1) scene light switch with indicator shall be installed on the cab main switch			

panel to control the left side scene light(s). The switch shall be labeled "LEFT SCENE". One (1) scene light switch with indicator shall be installed on the cab main switch panel to control the right side scene light(s). The switch shall be labeled "RIGHT SCENE".		
OPEN DOOR HAZARD WARNING LIGHT & ALARM		
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 rectangular incandescent marker light with a red lens and shall be properly marked and identified. A door open/hazard warning alarm shall be installed. The audible alarm shall activate when an open door is detected upon release of the parking brake. The alarm shall have a distinct noise to avoid conflict with other cab mounted alarms.	YES	NO
One (1) Whelen model #295SLSA1 electronic siren shall be mounted in the cab. This unit shall feature an electronic air horn, wail, yelp, hi-lo and shall have a hard wired PA microphone.	YES	NO
SPEAKER One (1) Cast Products Model #SA4301 100 watt speaker shall be installed on the apparatus, "Through-the-bumper", with flat mounting flange.	YES	NO
The siren speaker shall be installed in the left side of the apparatus bumper.		

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LIGHTBAR			
One (1) Whelen Little Freedom IV light her			
One (1) Whelen Ultra Freedom IV light bar			
shall be included with the apparatus cab.			
The light bar shall be a model F4N0VLED			
and shall be mounted on the roof of the			
cab, towards the front, above the			
windshield.			
The light bar shall feature:			
•A 60" light bar designed for high			
performance			
•Four (4) red or blue Linear Super LED			
corner modules			
•Two (2) red or blue 400 series Liner			
Super LED lights			
ļ ·			
•Two (2) white 400 series Linear Super			
LED lights with clear optic lenses			
•Two (2) clear optic collimators			
Clear hard coated lenses to provide			
extended life/luster protection against UV			
& chemical stresses			
Designed in accordance with NFPA Zone			
A requirements			
The front upper light bar shall be activated			
through the master warning switch.			
UPPER REAR WARNING LIGHTS			
One (1) pair of Whelen Super LED Micro			
Freedom light bars shall be installed, one	YES	NO	
each side on the upper rear of the			
• •			
apparatus body. The unit shall have			
dimensions of 4" high x 7-9/16" deep.			
The driver side warning light shall be a			
Whelen Micro Freedom LED light, model			
MCFLED25 with red LED's and a clear			
lens.			
10.10.			
The officer side warning light shall be a			
Whelen Micro Freedom LED light, model			
MCFLED22 with blue LED's and a clear			
 			
lens.	1		

	1		
REAR WARNING LIGHT MOUNTING			
The upper rear lights shall be mounted on the upper corners of the apparatus body, one on each side.	YES	NO	
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".	YES	NO	
The driver side warning light shall be a Whelen Model M6J split red/blue Super-LEDTM with clear lens.			
The officer side warning light shall be a Whelen Model M6J split red/blue Super-LEDTM with clear 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".	YES	NO	
The driver side warning light shall be a Whelen Model M6J split red/blue Super-LED TM with clear lens.			
The officer side warning light shall be a Whelen Model M6J split red/blue Super-LED TM with clear lens.			
Each light shall be mounted with a Whelen Model M6FC chrome flange.			
LOWER MID-BODY WARNING LIGHTS			
One (1) pair of Whelen model M2 LED warning lights, model M2WJ, 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".	YES	NO	
The driver side warning light shall be a			

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	Whelen Model M2WJ wide-angle split			
	red/blue Super-LED TM with clear lens.			
	·			
	The officer side warning light shall be a			
	Whelen Model M2WJ wide-angle split			
	red/blue Super-LED TM with clear lens.			
	with clear lens.			
	LOWER REAR WARNING LIGHTS			
	LOWER REAR WARRING LIGHTS			
	One (1) pair of Whelen model M6 LED			
	warning lights shall be installed, one each	YES	NO	
	side on the lower rear of the apparatus body.	ILO	INO	
	The dimensions of the lights shall be 4-5/16"			
	x 6-3/4".			
	X 0-3/4 .			
	The driver side warning light shall be a			
	Whelen Model M6J split red/blue Super-			
	·			
	LED TM with clear lens.			
	L. "			
	The officer side warning light shall be a			
	Whelen Model M6J split red/blue Super-			
	LED TM with clear lens.			
	TRAFFIC ARROW LIGHT			
	One (1) Whelen Model #TAL65 Traffic			
	Advisor shall be installed. The light shall be	YES	NO	
	equipped with six (6) LED lights measuring			
	36" in length. The unit shall be mounted at			
	the rear of the apparatus body. The Traffic			
	Advisor control head shall be mounted inside			
	the cab and be accessible by the driver and			
	officer.			
	The traffic arrow light shall be surface			
	mounted below the rear intermediate step of			
	the apparatus body.			
	SHORELINE RECEPTACLES			
	The following receptacles shall be wired to			
	the shoreline power.	YES	NO	
	·			
	One (1) 120-volt 15-amp straight blade, 3-			
	prong duplex receptacle with spring loaded			
	weatherproof cover shall be provided,			
	located in the cab/rear of console.			
	One (1) 120-volt 15-amp straight blade, 3-			
	prong duplex receptacle with spring loaded			
	weatherproof cover shall be provided,			
	located L3 compartment on the forward wall			
	12" from the ceiling.			
L	12 Holli tile colling.			

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One (1) 120-volt 15-amp straight blade, 3-prong duplex receptacle with spring loaded weatherproof cover shall be provided, located R3 compartment on the forward wall 12" from the ceiling.			
SIDE MOUNT PUMP ENCLOSURE			
The side mount pump enclosure shall be removable and supported from the chassis frame rails. This enclosure will allow independent flexing of the pump enclosure from the body and allow for quick removal. The support structure shall be constructed of extruded aluminum tubing and angle.	YES	NO	
All pump suction and discharge controls are to be mounted on the driver side pump operator's panel so as to permit operation of the pump from a central location. The fire pump, valves and controls shall be accessible for service and maintenance as required by applicable sections of NFPA standards.			
The "master" gauges shall be suitably enclosed and mounted on a full pump compartment width "hinged" gauge panel constructed of the same material as the pump operators control panel, allowing access to the backside of all gauges and gauge lines. The individual gauges shall be mounted inline with the control handle or adjacent to the control handle. Panel is to include a stainless-steel piano hinge, flush mounted chrome plated trigger latch, and stainless-steel cable end stops. Electrical wiring and all gauge lines shall be properly tie wrapped to prevent kinking or cutting of the lines when the panel is opened.			
The following controls and equipment as specified in the specifications, shall be provided on the pump panel or within the pump enclosure:			
 Primer. Pump and plumbing area service lights. Pressure control device and throttle control. Fire pump and engine instruments. Pump intakes and discharge controls. Master intake and discharge gauges. Tank fill control. 			

•	Tank suction control.			
•	Water tank level gauge.			
	Pump panel lights.			
	CROSSLAY INSTALLATION			
l h	The area atop the pump enclosure shall be			
	notched for the installation of a crosslay	YES	NO	
I I	nose bed. The hosebed shall have smooth	0		
	sides and a perforated floor to allow for			
I I				
	drainage. Provisions shall be provided to			
	secure hose and equipment per			
r	requirements of applicable NFPA standards.			
	LEFT SIDE RUNNING BOARD SIDE			
	MOUNT PANEL			
h	The left side mount pump panel shall be	YES	NO	
	equipped with side running board. The	0		
	running board will extend along the width of			
	the pump enclosure from the forward end of			
I I				
	he body module to behind the chassis cab.			
	The running board shall be constructed of			
	aluminum tread plate, bolted in place with			
	stainless-steel fasteners. The step surfaces			
S	shall be in compliance with applicable			
	sections of NFPA requirements.			
F	RIGHT SIDE RUNNING BOARD SIDE			
	MOUNT PANEL			
1 h	The right side mount pump panel shall be	YES	NO	
	equipped with side running board. The	0		
	running board will extend along the width of			
I I	<u> </u>			
	the pump enclosure from the forward end of			
	he body module to behind the chassis cab.			
	PUMP ENCLOSURE ACCESS DOOR			
F	RIGHT SIDE UPPER			
	A pump panel access door shall be provided	YES	NO	
	on the upper right side of the side mount			
	oump enclosure. The door shall be			
1 1	constructed of 14 gauge #304 brushed			
	stainless-steel with push button type latches.			
	FRONT ACCESS PUMP PANEL			
	TOTAL PROPERTY OF THE PROPERTY			
	A removable front access panel shall be			
	•	YES	NO	
	nstalled on the front of the pump enclosure	1 = 2	INO	
	of the apparatus. The panel shall be			
	constructed of aluminum tread plate and be			
	astened to the pump enclosure with			
	stainless-steel bolts and nut-serts. (no sheet			

metal screws)			
inicial sciews)			
PUMP PANELS SIDE MOUNT			
The pump operator's panel, along with the lower left hand and right hand pump panels shall be constructed of 14 gauge #304 brushed stainless-steel and be fastened to the pump enclosure with 1/4" stainless-steel bolts.	YES	NO	
The instrument area shall have a stainless- steel continuous hinge that shall swing for easy access to gauges.			
HINGED PUMP PANEL LEFT SIDE			
The pump panel installed on the on the left hand side of the pump enclosure shall be hinged with push-button latches.	YES	NO	
HINGED PUMP PANEL RIGHT SIDE			
The pump panel installed on the on the right hand side of the pump enclosure shall be hinged with push-button latches.	YES	NO	
PUMP COMPARTMENT HEATER SYSTEM			
The interior of the pump enclosure shall be equipped with a <i>minimum</i> 30,000 BTU hot water heater system. The unit shall be piped to the chassis radiator system with standard heater hose. The hose shall be properly clamped and secured in place, and be properly protected from engine exhaust or mechanical damage.	YES	NO	
The heater unit shall be equipped with a 12-volt blower fan with control located on the pump operator's panel.			

PUMP ENCLOSURE HEAT PAN			
A removable casing constructed of			
aluminum or galvanized steel, completely	YES	NO	
enclosing the underside of the pump			
compartment and heated by the engine			
exhaust shall be provided. The heat pan			
assembly shall include individual panels that			
can be easily removed from their mounting			
locations. The two outer slide-out panels			
shall be bolted in place. BODY AND PUMP HOUSE FLEX JOINT			
RUBBER GASKET			
ROBBER GASKET			
A flexible rubber gasket shall be installed	YES	NO	
between the pump compartment and the	120		
apparatus body. This gasket will be			
designed to seal the pump compartment to			
the apparatus body as tightly as practical.			
This gasket is necessary for winter operation			
in extremely cold climates.			
LABELS			
Safety, information, data, and instruction	\/F0	NO	
labels for apparatus shall be provided and	YES	NO	
installed at the operator's instrument panel.			
The labels shall include rated capacities,			
pressure ratings, and engine speeds as			
determined by the certification tests. The no-			
load governed speed of the engine, as			
stated by the engine manufacturer, shall also			
be included.			
The labels shall be provided with all			
information and be attached to the apparatus			
prior to delivery.			
COLOUR CODED PUMP PANEL			
LABELING AND NAMEPLATES			
Discharge and intake valve controls shall be	YES	NO	
colour coded in compliance to guidelines of	120		
applicable sections of NFPA standards.			
- Francis Country Country Country			
Innovative Controls permanent type			
nameplates and instruction panels shall be			
installed on the pump panel for safe			
operation of the pumping equipment and			
controls.			

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MIDSHIP PUMP PANEL LIGHTS LEFT SIDE			
Three (3) Techiq E10-W0001-1 or equal LED lights with clear lenses shall be installed under an instrument panel light hood on the left side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.	YES	NO	
MIDSHIP PUMP PANEL LIGHTS RIGHT			
Two (2) Tecniq E10-W0001-1 or equal LED lights with clear lenses shall be installed under an instrument panel light hood on the right side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.	YES	NO	
PUMP ENGAGED LIGHT			
One (1) pump panel light shall be illuminated at the time the fire pump is engaged into operation. The remaining lights shall be controlled by a switch located on the operator's instrument panel.	YES	NO	
TEST TAPS			
Test taps for pump intake and pump pressure shall be provided on the pump instrument panel and be properly labeled.	YES	NO	
WATER TANK GAUGE			
One (1) Fire Research TankVision Pro model WLA300-A00 tank indicator kit shall be installed on the pump panel. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon material, and have a distinctive blue label.	YES	NO	
The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable coloured light patterns to			

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display tank volume, adjustable brightness control levels and a datalink to connect			
remote indicators. Low water warnings shall			
include flashing LEDs at 1/4 tank, down			
chasing LEDs when the tank is almost empty, and an output for an audio alarm.			
ompty, and an output for an addio diam.			
The indicator shall receive an input signal			
from an electronic pressure sensor. The sensor shall be mounted from the outside of			
the water tank near the bottom. No probe			
shall place on the interior of the tank. Wiring			
shall be weather resistant and have			
automotive type plug-in connectors. AIR HORN PUSH-BUTTON			
AIR HORRY COIL BOTTON			
One (1) push button with a label shall be			
installed on the pump instrument panel to	YES	NO	
operate the air horns.			
HANDRAIL SIDE PUMP PANEL			
Two (2) ovtruded aluminum non clin			
Two (2) extruded aluminum non-slip handrails, approximately 18" in length shall	YES	NO	
be provided and mounted in best fit locations			
to maintain 3-points of contact on the right			
side on the side pump panel/upper body.			
DARLEY PSM SINGLE STAGE PUMP			
A Dorloy model DSM (NO EVCEDTION)			
A Darley model PSM (NO EXCEPTION) single stage split-drive shaft driven fire pump	YES	NO	
shall be provided and installed.	0		
The pump shall be midship mounted and designed to operate through an integral			
transmission, including a means for power			
selectivity to the driving axle or to the pump.			
The pump shall be driven by a driveline from			
the chassis transmission. The engine, transmission and driveline components shall			
provide sufficient horsepower and RPM to			
enable the pump to meet and exceed its			
rated performance.			
The pump shall contain a cored heating			
jacket feature that, if selected, can be			
connected into the vehicle antifreeze system to protect the pump from freezing in cold			
climates, and to help reject engine heat from			
engine coolant, providing longer life for the			
engine.			
PUMP SHAFT			

The pump shaft shall be precision ground stainless-steel with long wearing Chromium Oxide hard coating under the packing glands with a hardness level of Rockwell C72. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsion vibration, and torque imposed by engine, as well as ease of maintenance and repair.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. Sleeve bearings on any portion of the pump or transmission shall be prohibited due to wear, deflection, and alignment concerns. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

IMPELLER

The impeller shall be a high strength bronze alloy of mixed flow design, splined to the pump shaft for precision fit, durability, and ease of maintenance. Impeller shall be vacuum cast designed for maximum lift and highest capacity. The seal rings shall be renewable, double labyrinth, wrap around bronze type.

Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

PUMP TRANSMISSION

The transmission case shall be heavy duty cast iron. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level. Transmission case interior shall be powder coated to reduce oil contamination. Transmission case shall be equipped with a removable plate for quick inspection of gears, shafts, and bearings inside the transmission.

The pump drive shaft shall be precision ground, heat treated alloy steel, with a minimum 2-1/2" x 10" spline. The net through-torque rating of the gearbox shall

exceed 19,000 foot pounds. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The gears shall be manufactured from alloy steel and carburized for surface hardness and strength. The pump clutch gear shall be a heat treated alloy-steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear, and shall have bullet-nosed teeth to reduce the possibility of a butt-tooth condition. The pump clutch gear shall be separate from the main drive gear in order to maintain the greatest precision for driving the pump gear train. The pump transmission shall require no further lubrication beyond that provided by the intrinsic action of the gears, to reduce the likelihood of failure due to loss of auxiliary lubrication. DRIVELINE INSTALLATION The chassis drivelines shall be sized for intended application and torque requirements. The installation shall comply with driveline manufacturer's guidelines. MANUALS Two (2) manuals covering the fire pump				
transmission and fire pump shall be provided				
with the apparatus.				
The fire pump shall be a DARLEY model PSM midship mounted with a rated capacity of 6000 LPM (Litres per minute). The pump shall meet current ULC-S515 requirements. The pump shall be certified to meet the following deliveries: 6600 LPM @ 1150 kPa 6000 LPM @ 1000 kPa 4200 LPM @ 1350 kPa 3000 LPM @ 1700 kPa	YES	NO		
LEFT SIDE 6" UNGATED INTAKE				
One (1) 6" ungated suction intake shall be installed on the left side pump panel to supply the fire pump from an external water supply. The threads shall be 6" NST. The intake shall be provided with a removable	YES	NO		

	l	1	
screen.			
One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.			
RIGHT SIDE 6" UNGATED INTAKE			
One (1) 6" ungated suction intake shall be installed on the right side pump panel to supply the fire pump from an external water supply. The intake shall be provided with a removable screen.	YES	NO	
One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.			
MECHANICAL SEAL SPECIFICATIONS			
The mechanical seal shall be formed from silicon carbide with welded springs. The stationary face of the mechanical seals shall be made from silicon carbide, an extremely hard and heat dissipative material, which resists wear and dry running damage.	YES	NO	
ELECTRIC/PNEUMATIC PUMP SHIFT			
SPECIFICATIONS			
An air powered pump shift shall be installed in the cab driver's area where not subject to accidental engagement. The pump shift shall be air operated and shall incorporate an air cylinder with an electric actuated switch to shift from road to pump and back. The apparatus pump shift shall be engaged only when apparatus is in a stationary position and the parking brake is engaged.	YES	NO	
The following indicator lights shall be included with pump shift.			
A green indicator light, labeled "PUMP ENGAGED" shall indicate pump shift has successfully been completed.			
2. A green indicator light, labeled "OK TO PUMP" shall indicate the chassis transmission is in pump gear and parking brake is engaged.			
3. Pump shift and interlocks shall comply			

with applicable sections of NFPA standards. 4. The pump shift shall have an instruction label and nameplate to indicate function and proper operation.			
TRIDENT PRIMER – AUTOMATIC			
An automatic fire pump priming system shall be provided and installed. The system shall be oil-less type and environmentally safe. Once engaged, the system shall be fully automatic and not require any action from the pump operator/engineer when pump draft is lost. This feature provides an additional safety margin by maintaining pump flow from the available water source automatically during drafting operations. When air is introduced during a drafting operation from conditions such as whirlpools or turbulence from porta-tank refill operations, the priming system shall automatically engage to remove the air and stabilize water flow and pump pressure. For additional safety, the entire system shall operate at less than 70dBA of ambient noise.	YES	NO	
The priming system shall engage automatically whenever the pump discharge falls below five (5) psi and shall remain engaged until a pump prime has been achieved. The priming system shall automatically disengage when a positive pump discharge pressure has been established. The electrical current draw from the chassis batteries shall not exceed four (4) amps at any given time of operation and allow for unlimited run time without causing an overheat condition for of any of the system components.			
A single engagement switch shall be provided on the pump control panel that will allow the operator to engage the automatic pump priming system. There shall be a light provided on the pump control panel to indicate when the system is engaged. The pump shall be capable of taking suction and discharging water with a lift of 10 feet in not more than 30 seconds with the pump dry, through 20 feet of suction hose of appropriate size. The priming system shall			

appropriate size. The priming system shall

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comply with applicable sections of NFPA standards.			
PRIMER CONTROL			
A rocker switch control shall be provided on the pump operator's panel, for the main pump primer control.	YES	NO	
PRESSURE GOVERNOR AND ENGINE- PUMP MONITORING			
One (1) Fire Research InControl series TGA400 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 5 1/2" high by 10 1/2" wide by 2" deep. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1 3/4" from the front of the control module. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.	YES	NO	
The following continuous displays shall be provided: Pump discharge; shown with four daylight bright LED digits more than 1/2" high Pump Intake; shown with four daylight bright LED digits more than 1/2" high Pressure / RPM setting; shown on a dot matrix message display Pressure and RPM operating mode LEDs Throttle ready LED Engine RPM; shown with four daylight bright LED digits more than 1/2" high Check engine and stop engine warning LEDs Oil pressure; shown on a dual colour (green/red) LED bar graph display Engine coolant temperature; shown on a			
dual colour (green/red) LED bar graph			

display

 Transmission Temperature: shown on a dual colour (green/red) LED bar graph display

 Battery voltage; shown on a dual colour (green/red) LED bar graph display.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation.

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

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

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

Inputs to the control panel from the pump discharge and intake pressure sensors shall be electrical. The discharge pressure display shall show pressures from 0 to 600 psi. The intake pressure display shall show pressures from -30 in. Hg to 600 psi.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the

operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle. The pressure governor, monitoring and master pressure display shall be programmed to interface with a specific engine.			
PUMP ANODES			
There shall be sacrificial, zinc anodes in the pump steamer ports which shall protect the pump and piping from electrolysis. These anodes shall also act as screens.	YES	NO	
PUMP PLUMBING SYSTEM			
The fire pump plumbing system shall be of rigid stainless-steel pipe or flexible piping with stainless-steel fittings. Mechanical grooved couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Flexible hose couplings shall be threaded stainless-steel or mechanical grooved coupling connections.	YES	NO	
The fire pump and plumbing shall be hydrostatically tested in compliance to applicable sections of NFPA standards. The test results shall be included in the delivery documentation.			
FIRE PUMP MASTER DRAIN			
The fire pump plumbing system and fire pump shall be piped to a single pump panel mounted 'handwheel' type master pump drain assembly. The master drain valve shall be a bronze master drain with a rubber disc seal, a universal joint and a handwheel control on the pump panel. The master drain shall also provide for low point drainage of the fire pump and auxiliary devices.		NO	

ADDITIONAL LOW POINT DRAINS		
The plumbing system shall be equipped with additional low point manually operated drain valves to allow total draining of the fire pump plumbing system. These valves shall be accessible from the side of the vehicle and labeled for exact location.	YES	NO
STAINLESS-STEEL INTAKE MANIFOLD		
The suction manifold assembly shall be fabricated with Schedule #10 type 304 stainless-steel. All threaded fittings shall be a minimum of Schedule 10 stainless-steel. The suction manifold assembly shall have radiused sweep elbows to minimize water turbulence into the suction volute. The suction manifold shall be welded and pressure tested prior to installation. The stainless-steel manifold assembly shall be attached to the pump intake volute with a	YES	NO
heavy-duty, flexible Victaulic coupling.		
The stainless-steel manifold assembly shall have a ten (10) year warranty.		
STAINLESS-STEEL DISCHARGE MANIFOLD		
The discharge manifold assembly shall be fabricated with minimum of Schedule #10 Type 304 stainless-steel. All threaded fittings shall be a minimum of Schedule #40 stainless-steel. The discharge manifold assembly shall have radiused sweep elbows to minimize water turbulence. The manifold shall be welded and pressure tested prior to installation. The stainless-steel manifold inlet shall be attached to the pump discharge and have additional brackets as required to support the discharge manifold, valves and related components. The stainless-steel manifold assembly shall	YES	NO
have a ten (10) year warranty.		<u> </u>
PLUMBING PAINTING The plumbing system shall be unpainted.	YES	NO

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HOSE THREADS			
The hose threads shall be National Standard Thread (NST) on all base threads on the apparatus intakes and discharges.	YES	NO	
WATER TANK TO PUMP LINE			
One (1) 3" water tank to the rear mounted fire pump line shall be provided with a full flow quarter turn ball valve, 4" piping, and with flex hose and stainless-steel hose clamps. The tank to pump line shall be equipped with a check valve to prevent pressurization of the water tank.	YES	NO	
The line shall be flow tested during the fire pump testing and shall meet applicable requirements of NFPA standards.			
The tank to pump valve shall be controlled a the pump operator's panel.	:		
The valve shall be an Elkhart three-inch (3") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.			
The valve shall be equipped with one (1) manually operated, pull rod with quarter-turn locking feature. The handle shall be equipped with a colour-coded name plate.			
One (1) 2" fire pump to water tank refill and pump bypass cooler line shall be provided. The valve shall be a full flow quarter turn ball valve with 2" piping and flex hose to tank. The valve control handle shall have a nameplate located near the valve control.	YES	NO	
The valve shall be an Elkhart two-inch (2") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The			

valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.			
The valve shall be equipped with one (1) manually operated, pull rod with quarter-turn locking feature. The handle shall be equipped with a colour-coded name plate.			
FIRE PUMP SPLIT SHAFT DRIVESHAFTS AND INSTALLATION			
The mid-ship split shaft fire pump shall be installed and shall include installation of the fire pump, modification and/or fabrication of new drivelines and all pump-mounting brackets. The drive shaft(s) shall be spin balanced prior to final installation.	YES	NO	
INTAKE RELIEF/DUMP VALVE			
One (1) Elkhart Model 40, 2-1/2" intake relief/dump valve preset at 125 psi shall be permanently installed on the suction side of the fire pump. The valve shall have an adjustment range of 75 psi to 250 psi, and shall be designed to automatically self-restore to a non-relieving position when excessive pressure is no longer present.	YES	NO	
Discharge side of the intake relief valve shall			
be plumbed away from the pump operator.			
FIRE PUMP COOLING			
The fire pump shall be equipped with 3/8" cooling line from the pump to the water tank. This re-circulation line shall be controlled by a pump panel control valve with nameplate label noting it as the "fire pump bypass cooler". There shall be a check valve installed in the pump cooler line to prevent tank water from back flowing into the pump when it is not in use.	YES	NO	
CHASSIS ENGINE HEAT EXCHANGER			
COOLING SYSTEM			
The apparatus shall be equipped with a heat exchanger for supplementary chassis engine cooling during fire pump operations. A manually opened valve, mounted at the operator's panel, shall direct water from the fire pump to the heat exchanger that is mounted in the engine radiator cooling hose.		NO	

	The system shall provide cooling water from			
	the fire pump to circulate around the engine			
	radiator coolant without mixing or coming in			
	direct contact with the engine coolant.			
	· ·			
	A nameplate label shall be installed on the			
	pump panel noting "engine cooling system"			
	with "on-off" opening directions noted.			
	CANADIAN UNDERWRITERS			
	LABORATORIES CERTIFICATION			
	The apparatus shall undergo a Canadian			
	Underwriters Laboratories Incorporated	YES	NO	
	inspection and test per current ULC			
	standards, prior to delivery of the completed			
	apparatus. These tests shall include pump,			
	tank, weight, brake, and other applicable			
	ULC inspection and testing. The test shall be			
	performed on site by UL/ULC staff and shall			
	include a listing of the apparatus as a fire			
	fighting appliance. The manufacturer shall			
	be ULC certified as a listed fire firefighting			
	appliance manufacturer.			
	The ULC acceptance certificate and listing			
	label shall be furnished with the apparatus			
	on delivery.			
	FIRE ULC PUMP TEST			
	1 11/2 020 1 01111 1201			
	The pump shall tested in LPM (Liters per			
		YES	NO	
	Minute).	IES	INO	
	LEFT SIDE 2-1/2" GATED INTAKE			
	One (1) 2-1/2" gated suction intake shall be			
	installed on left side pump panel to supply	YES	NO	
	the fire pump from an external water supply.			
	The control valve shall be a quarter turn ball			
	valve and shall have 2-1/2" CSA female			
	thread of chrome plated brass.			
	anoda or ornomo piatoa brass.			
	The intake shall be equipped with a ¾" drain			
	and bleeder valve. A nameplate label and			
	removable screen shall be installed.			
	An Innovative Controls ¾" cast bronze			
	quarter-turn drain/bleeder valve shall be			
	installed. The valve shall be complete with a			
	chrome plated bronze ball, reinforced teflon			
	seals, and blow-out proof stem rated to 600			
	PSI. A chrome plated zinc handle shall be			
	provided on each drain valve complete with			
Ī	a recessed ID label provision. The handle		1	

shall lift to open and push down to close.			
One (1) 2-1/2" plug shall be provided. The threads shall be CSA and the plug shall be equipped rocker lugs and chain or cable securement.			
The valve shall be an Elkhart two and one half-inch (2-1/2") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.			
The valve shall be equipped with one (1) manually operated, swing-type manual control located adjacent the intake. The control handle shall be equipped with self-locking feature. The valve shall be equipped with a colour-coded name plate.			
TWO (2) 1-1/2" CROSSLAY DISCHARGES			
Two (2) pre-connect 1-3/4" hose crosslays shall be installed over pump enclosure, with quarter turn 2" diameter ball valves. The outlets shall be a 2" NPT female swivel x 1-1/2" male NPSH hose threads.	YES	NO	
The crosslay hosebeds shall have smooth aluminum sides. The hosebed decking shall be constructed with slots integrated into the hosebed floor.			
Each hosebed shall provide for a minimum capacity of 200 feet of 1-3/4" diameter double jacket hose with nozzle, for hose provided by the fire department. A divider shall be installed to separate the crosslay beds.			
These discharges are foam capable.			
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle			

shall lift to open and push down to close.			
The specified valve shall be an Elkhart two- inch (2") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.			
For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for colour coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless-steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless-steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.			
The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed colour-coded label.			
Two (2) 2-1/2" (65mm) diameter IC pressure gauge with (Dual Scale PSI/kPa) (0-400) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.			
2-1/2" CROSSLAY DISCHARGE			
One (1) pre-connect 2-1/2" hose crosslay shall be installed over the pump enclosure with a quarter turn 2-1/2" diameter ball valve.	YES	NO	
The hosebed decking shall be constructed with slots integrated into the hosebed floor.			
The hose bed shall provide for a minimum capacity of 150 feet of 2-1/2" diameter double jacket hose with the hose and nozzle provided by the fire department.			
The outlet shall be equipped with 2-1/2" NPT			

	wivel x 2-1/2" male CSA hose			
threads.				
21-01-22	202			
	1 automatic type 3/4" bleeder valve			
shall be				
•	cified valve shall be an Elkhart two			
	half-inch (2-1/2") swing-out ball			
	ne valve shall have an all brass body optimizing stainless-steel ball and			
	mer seats. The valves shall be			
	of bi-directional flow and			
•	ating a self-locking ball. The valve			
	require lubrication of seats or any			
	ernal waterway parts, and be			
·	of swinging out of the waterway for			
maintena	ance.			
For valve	e actuation, the specified discharge			
	equipped with a side mount valve			
control.	The ergonomically designed 1/4 turn			
	I T-handle shall be chrome plated			
	recessed labels for colour coding			
	age. The gear-control rod, double discharged			
	stainless-steel and provide true			
	ock that will eliminate valve drift.			
	and Teflon impregnated stainless-			
	shings in both ends of rod housing			
	ninate rod deflection, never need			
operation	on and ensure consistent long-term			
Орстано	1.			
The cont	rol assembly shall include a			
	e chrome-plated zinc panel			
	bezel with recessed colour-coded			
label.				
One (1)	2-1/2" (65mm) diameter IC pressure			
	ith (Dual Scale PSI/kPa) (0-400)			
	provided. The face of the gauge			
	a WHITE dial with black letters. The			
	vill be located on the pump			
instrume	nt panel. -AY HINGED COVER WITH END			
FLAPS	AT THINGLD COVER WITH END			
The cros	slay hosebed shall be equipped	YES	NO	
	ngle aluminum diamond plate			
	over with vinyl end flaps with hook &			
· ·	eners. The cover shall have rubber , latching devices, and lift up handle			
	end of the cover.			

		1	
The hosebed cover shall be labeled, "Not a Standing or Walking Surface", per NFPA. The vinyl cover shall be red in colour.			
CROSSLAY HOSE BED TRIM			
The crosslay hosebed shall be equipped anodized aluminum angle overlays, one on each end of the hosebed.	YES	NO	
CROSSLAY HOSEBEDS			
Crosslay hosebed(s) shall be mounted over the upper pump panel or gauge panel in the upper portion of the pump enclosure. The crosslay hosebed shall be approximately 12" from the top of the pump enclosure.	YES	NO	
LEFT SIDE PUMP PANEL 2-1/2" DISCHARGE			
One (1) 2-1/2" discharge shall be installed on the left side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads. A colour coded nameplate label shall be provided adjacent the control handle.	YES	NO	
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.			
One (1) lightweight aluminum, white colour coded, elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" CSA male hose threads.			
One (1) 2-1/2" CSA rocker lug white colour coded vented cap and cable or chain securement shall be provided.			
The specified valve shall be an Elkhart two and one half-inch (2-1/2") swing-out ball			

valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance. For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for colour coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless-steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless-steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.			
The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed colour-coded label.			
One (1) 2-1/2" (65mm) diameter IC pressure gauge with (Dual Scale PSI/kPa) (0-400) shall be provided. The face of the gauge shall be a <u>WHITE</u> dial with black letters. The gauges will be located on the pump instrument panel.			
RIGHT SIDE PUMP PANEL 2-1/2" DISCHARGE			
One (1) 2-1/2" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads. A colour coded nameplate label shall be provided adjacent the control handle.	YES	NO	
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with			

a recessed ID label provision. The handle shall lift to open and push down to close.

One (1) lightweight aluminum, black colour coded, elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" CSA male hose threads.

One (1) 2-1/2" CSA rocker lug black colour coded vented cap and cable or chain securement shall be provided.

The specified valve shall be an Elkhart two and one half-inch (2-1/2") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for colour coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless-steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless-steel bushings in both ends of rod housing shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.

The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed colour-coded label.

One (1) 2-1/2" (65mm) diameter IC pressure gauge with (Dual Scale PSI/kPa) (0-400) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

RIGHT SIDE PUMP PANEL -- 3" x 4" DISCHARGE

One (1) 3" discharge shall be installed on the right side pump panel area and shall be controlled by a full flow 3" slow-close quarter turn ball valve. The discharge shall have 4" NST male hose threads. A colour coded nameplate label shall be provided adjacent the control handle.

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1) yellow colour coded elbow with 30 degree slant shall be provided. Threads shall be 4" Storz with lugs and manual locks x 4" female swivel NST with rocker lugs.

One (1) 4" yellow colour coded Storz cap with cable or chain securement shall be provided.

The specified valve shall be an Elkhart three-inch (3") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.

One (1) Elkhart valve equipped with a manually operated pull rod, with quarter-turn locking feature and a manual slow-close device shall be provided on the specified discharge. The handle shall be equipped with a colour-coded name plate.

One (1) 2-1/2" (65mm) diameter IC pressure gauge with (Dual Scale PSI/kPa) (0-400) shall be provided. The face of the gauge shall be a <u>WHITE</u> dial with black letters. The gauges will be located on the pump instrument panel.

REAR RIGHT SIDE -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the right side rear panel of the apparatus body and shall be controlled by a quarter turn ball valve on the pump panel. The discharge shall have 2-1/2" NPT x 2-1/2" NST male hose threads. The outlet shall be equipped with an engraved nameplate label shall be installed adjacent the valve control handle.

An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

One (1) lightweight aluminum, blue colour coded, elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" CSA male hose threads.

One (1) 2-1/2" CSA rocker lug blue colour coded vented cap and cable or chain securement shall be provided.

The specified valve shall be an Elkhart two and one half-inch (2-1/2") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.

For valve actuation, the specified discharge shall be equipped with a side mount valve control. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome plated zinc with recessed labels for colour coding and signage. The gear-control rod, double laminated locking clips, and rod housing shall be stainless-steel and provide true positive lock that will eliminate valve drift. Bronze and Teflon impregnated stainless-steel bushings in both ends of rod housing

YES NO

shall eliminate rod deflection, never need lubrication and ensure consistent long-term operation.			
The control assembly shall include a decorative chrome-plated zinc panel mounted bezel with recessed colour-coded label.			
One (1) 2-1/2" (65mm) diameter IC pressure gauge with (Dual Scale PSI/kPa) (0-400) shall be provided. The face of the gauge shall be a <u>WHITE</u> dial with black letters. The gauges will be located on the pump instrument panel.			
3" MONITOR DISCHARGE			
One (1) 3" discharge shall be piped to the area over the pump enclosure with 3" NPT male threads provided. The pipe shall be equipped with Victaulic couplings (if necessary) and shall be properly secured to prevent movement when a monitor or deck gun is attached. The quarter turn ball valve shall be controlled on pump panel.	YES	NO	
A colour coded nameplate label shall be provided adjacent the valve control handle.			
An Innovative Controls ¾" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.			
The specified valve shall be an Elkhart three-inch (3") swing-out ball valve. The valve shall have an all brass body with flow optimizing stainless-steel ball and dual polymer seats. The valves shall be capable of bi-directional flow and incorporating a self-locking ball. The valve shall not require lubrication of seats or any other internal waterway parts, and be capable of swinging out of the waterway for maintenance.			
One (1) Elkhart valve equipped with a manually operated pull rod, with quarter-turn locking feature and a manual slow-close device shall be provided on the specified			

	<u></u>			
	discharge. The handle shall be equipped with a colour-coded name plate.			
	One (1) 2-1/2" (65mm) diameter IC pressure			
	gauge with (Dual Scale PSI/kPa) (0-400)			
	shall be provided. The face of the gauge			
	shall be a <u>WHITE</u> dial with black letters. The			
	gauges will be located on the pump			
	instrument panel.			
	TASK FORCE TIPS EQUIPMENT			
	The following Task Force Tips equipment			
	shall be supplied with the offered vehicle:	YES	NO	
	One (1) TFT XFI-PLNJ Hurricane deck			
	monitor			
	- flow up to 1,250USGPM/4,750LPM			
	- 2.5" outlet			
	- 3.0" flange inlet			
	- 360-degree horizontal rotation			
	One (1) TFT MST-4NJ 4-stacked tips set for			
	deck monitor			
	- 2.5"/65mm inlet			
	One (4) TET VE COE attractor attraction to a 5"			
	One (1) TFT XF-SS5 stream straightener 5" 2.5" for deck monitor			
	- 2.5"/65mm threads			
	- 5.0" length			
	FOAM PRO FOAM SYSTEM			
	0 (1) 5 5 0407			
	One (1) FoamPro part number S107-	YES	NO	
	1600/2.0 electronic foam system shall be provided. The system shall be designed for	YES	INO	
	use with Class A foam concentrate. The			
	foam proportioning operation shall be			
	designed for direct measurement of water			
	flows and shall remain consistent within the			
	specified flows and pressures. The system			
	shall be capable of accurately delivering			
	foam solution as required by applicable			
	sections of the NFPA standards.			
	The system shall be equipped with a control			
	module suitable for installation on the pump			
	· · · · · · · · · · · · · · · · · · ·		I	
i i	panel. There shall be a microprocessor			
	incorporated within the motor driver that			
	incorporated within the motor driver that shall receive input from the system's			
	incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam			
	incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The			
	incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to			
	incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to ensure that the desired amount of foam			
	incorporated within the motor driver that shall receive input from the system's flowmeter, while also monitoring the foam concentrate pump output. The microprocessor shall compare the values to			

paddlewheel-type flowmeter shall be installed in the discharge side of the piping system.

The control module shall enable the pump operator to:

- Activate the foam proportioning system
 Select the proportioning rates from 0.1% to 1.0%
- •See a "low concentrate" warning light flash when the foam tank level becomes low and in two (2) minutes, if the foam concentrate has not been added to the tank, the foam concentrate pump shall be capable of shutting down.

A 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity range shall be 0.1 to 1.7 GPM (6.4L/min) at 200 PSI (1400 kPa) with a maximum operating pressure up to 400 PSI (2750 kPa). The system shall draw a maximum of 30 amps at 12 volts. The motor shall be controlled by the microprocessor which shall be mounted to the base of the pump. It shall receive signals from the control module and power the 1/3 horsepower (.25 Kw) electric motor in a variable speed duty cycle to ensure that the correct proportion of concentrate is injected into the water stream.

A full flow check valve shall be provided in the discharge piping to prevent foam contamination of the fire pump and water tank. A 5 PSI (35 kPa) opening pressure check valve shall be provided in concentrate line.

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

- Operator control module
- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harnesses
- Low level tank switch
- •Foam tank
- Foam injection check valve
- Main waterway check valve
- Flowmeter and tee with 2" male NPT threads.

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	The foam system shall be installed and calibrated to manufacturer's requirements. In addition the system shall be tested and certified by the apparatus manufacturer to meet applicable NFPA standards.			
	The foam system design shall be tested and pass environmental testing in accordance to SAE standards. The system shall be third party tested to certify compliance with RFI/EMI emissions per MIL-STD-416E.			
	An installation and operation manual shall be provided for the unit. The system shall have a one (1) year limited warranty by the foam system manufacturer.			
	CONTROL CONNECTION CABLE FOAM			
	The FoamPro 1600 Series foam system shall be provided with a twelve (12) foot control cable from the controller to the foam	YES	NO	
	pump assembly. PUMP PANEL CONTROL FOAM			
	SYSTEM			
	The FoamPro 1600 Series foam system shall be provided with a standard pump panel mounted FoamPro control head.	YES	NO	
	FLOWMETER AND TEE FOAM SYSTEM			
	A FoamPro brass flowmeter shall be provided. The flowmeter shall be installed in the "foam capable" discharge line. The flowmeter shall have maximum accuracy between the flow range of 10 GPM and 320 GPM and be capable of operation between 3 GPM to 380 GPM. The tee shall have 1-1/2" NPT and 2" Victaulic inlet and outlets connections.	YES	NO	
	LOW-LEVEL TANK SENSOR FOAM TANK			
	A FoamPro low-level foam tank sensor shall be provided. The sensor shall be capable of mounting side of foam tank that shall interface with the microprocessor. The unit shall have a 1/8" NPT thread size.	YES	NO	

MAIN WATERWAY CHECK VALVE			
FOAM SYSTEM			
A FoamPro full-flow check valve shall be	YES	NO	
provided. The valve shall prevent foam			
contamination of the fire pump and water			
tank or water contamination of the foam			
tank. The unit shall have a nickel-electro			
plated body with stainless-steel components.			
The valve shall have 2" NPT threads with an			
injection and drain port size of 1/2" NPT.			
FOAM SYSTEM INJECTOR FITTING			
A Foam Pro injector fitting shall be provided			
with the foam system.	YES	NO	
INSTRUCTION AND RATING LABEL			
FOAM SYSTEM			
A FoamPro part number 6032-0018	YES	NO	
instruction and system rating label shall be	120	110	
provided. The label shall display information			
for a FoamPro 1600 Series foam system and			
shall meet applicable sections of the NFPA			
standards.			
SCHEMATIC LABEL FOAM SYSTEM			
A FoamPro part number 6032-0015 foam			
system schematic label shall be provided	YES	NO	
shall be installed on the pump panel near			
foam controls. The label shall be a diagram			
of a single tank foam system layout and shall			
meet applicable sections of the NFPA			
standards.			
otariaaras.			
Foam will be supplied to both 1.5" crosslays.			
1" FOAM TANK CONTROL CLASS A			
I I DAM IAMA COMTROL CLASS A			
One (1) Close A feets tente about he interest at			
One (1) Class A foam tank shall be plumbed	\/ - 0	NO	
with 1" valve and corrosion resistant hose	YES	NO	
from the foam tank to the foam inlet of the			
foam system. The manually opened valve			
shall be provided behind the pump panel			
with a label.			
INTEGRAL CLASS A FOAM TANK 30			
GALLON			
One (1) thirty (30) gallon Class A foam tank	YES	NO	
shall be installed within the water tank. The		-	
non-corrosive foam tank shall meet			
applicable sections of NFPA standards. The			
foam concentrate tank shall be provided with			
ioani concentiale lank Shall be provided Willi			

Section A –

sufficient wash partitions so that the maximum dimension perpendicular to the plane of any partition shall not exceed 36 inches. The swash partition(s) shall extend from wall to wall and cover at least 75 percent of the area of the plane of the partition.

The foam concentrate tank shall be provided with a fill tower or expansion compartment having a minimum area of 12 square inches and having a volume of not less than 2 percent of the total tank volume. The fill tower opening shall be protected by a completely sealed air-tight cover. The cover shall be attached to the fill tower by mechanical means. The fill opening shall be designed to incorporate a 1/4 inch removable screen and shall be located so that foam concentrate from a five (5) gallon container can be dumped directly to the bottom of the tank to minimize aeration without the use of funnels or other special devices.

The foam tank fill tower shall be equipped with a pressure/vacuum vent that enables the tank to compensate for changes in pressure or vacuum when filling or withdrawing foam concentrate from the tank. The pressure/vacuum vent shall not allow atmospheric air to enter the foam tank except during operation or to compensate for thermal fluctuations. The vent shall be protected to prevent foam concentrate from escaping or directly contacting the vent at any time. The vent shall be of sufficient size to prevent tank damage during filling or foam withdrawal.

A colour coded label or visible permanent marking that reads "FOAM TANK FILL" shall be placed at or near any foam concentrate tank fills opening. A label shall be placed at or near any foam concentrate tank fill opening that specifies the type of foam concentrate the system is designed to use. Any restrictions on the types of foam concentrate that can be used with the system shall also be stated, and a warning message that reads "WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM."

The foam concentrate tank outlet connection

a a c o 2 T U	chall be designed and located to prevent deration of the foam concentrate and shall allow withdrawal of 80 percent of the foam concentrate tank storage capacity under all operating conditions with the vehicle level. 25-22-9300 The foam tank(s) shall be fabricated by United Plastic Fabricating.			
	OAM TANK DRAIN UNDER TANK			
	The foam tank shall have one (1) 1" gate alve drain provision installed.	YES	NO	
C	CLASS A FOAM TANK GAUGE			
C m s k m c s c s le v c P	One (1) Fire Research TankVision Promodel WLA360-A00 foam tank indicator kit shall be installed at the operator's panel. The it shall include an electronic indicator nodule, a pressure sensor, a 10-ft sensor table and a tank vent. The indicator shall show the volume of Class A foam concentrate in the tank on nine (9) easy to see super bright RGB LEDs. A wide view ens over the LEDs shall provide for a riewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon, and have a distinctive green label.	YES	NO	
fr p c p d c ir c e T fr s tt s V a	The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable coloured light patterns to display tank volume, adjustable brightness control levels and a datalink to connect emote indicators. Low foam warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm. The indicator shall receive an input signal from an electronic pressure sensor. The ensor shall be mounted from the outside of the foam tank near the bottom. No probe chall be placed on the interior of the tank. Viring shall be weather resistant and have automotive type plug-in connectors. The coam tank vent shall be installed on the foam tank.			
L fi	II tower.			

FOAM SYSTEM DESIGN AND PERFORMANCE REQUIREMENTS

The proportioning system shall be capable of proportioning foam concentrate in accordance with the foam concentrate manufacturer's recommendations for the type of foam concentrate used in the system over the system's design range of flow and pressures. The foam proportioning system water flow characteristics and the range of proportioning ratio shall be specified as noted herein. The latest foam system shall be in compliance with applicable NFPA standards as it relates to this specified system

Plumbing and Strainer

The foam concentrate supply line shall be non-collapsible. A means shall be provided to prevent water back flow into the foam proportioning system and the foam concentrate storage tank.

A strainer or filter shall be provided on the foam concentrate supply side of the foam proportioner to prevent any debris that might affect the operation of the foam proportioning system from entering the system. The strainer assembly shall consist of a removable straining element, housing, and retainer. The strainer assembly shall allow full flow capacity of the foam supply line.

Foam System Controls

The foam proportioning system operating controls shall be located at or near the pump operator's position and shall be clearly identified. Foam proportioning system shall be provided with accessible controls to completely flush the system with water according to the manufacturer's instructions.

Labels and Instructions

An instruction plate shall be provided for the foam proportioning system that include, at a minimum, piping schematic of the system and basic operating instructions. Labels that are marked clearly with the identification and function shall be provided for each control,

gauge, and indicator related to the foam proportioning system.			
A label shall be provided on the pump operator's panel that identifies the type of foam concentrate that the foam			
proportioning system is designed to use. It shall also state the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rated system flow and pressure.			
Two (2) copies of an operations and maintenance manual shall be provided. They shall include a complete diagram of the system together with operating instructions and details outlining all recommended maintenance procedures.			
Foam System Testing			
The accuracy of the foam proportioning system shall be certified by the foam equipment manufacturer and also tested by the installer prior to delivery of the apparatus in compliance to NFPA standards.			
WATER TANK - 1000 GALLON			
The apparatus shall be equipped with a 1,000US gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe (a six-inch (6") overflow pipe shall be provided if required by dump valve installation).	YES	NO	
WATER TANK			
The apparatus shall be equipped with a rectangular tank.	YES	NO	
WATER TANK FILL TOWER			
A fill tower measuring approximately 10" x 10" square shall be provided on the water tank up to and including 1500 gallons total capacity.	YES	NO	
The apparatus shall be equipped with a polypropylene water tank. The tank body and end bulkheads shall be constructed of .75" thick, polypropylene, nitrogen-welded and tested inside and out. Tank construction			
	A label shall be provided on the pump operator's panel that identifies the type of foam concentrate that the foam proportioning system is designed to use. It shall also state the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rated system flow and pressure. Two (2) copies of an operations and maintenance manual shall be provided. They shall include a complete diagram of the system together with operating instructions and details outlining all recommended maintenance procedures. Foam System Testing The accuracy of the foam proportioning system shall be certified by the foam equipment manufacturer and also tested by the installer prior to delivery of the apparatus in compliance to NFPA standards. WATER TANK - 1000 GALLON The apparatus shall be equipped with a 1,000US gallon polypropylene water tank. The tank shall be provided if required by dump valve installation). WATER TANK The apparatus shall be equipped with a rectangular tank. WATER TANK The apparatus shall be equipped with a rectangular tank. The tank apparatus shall be equipped with a polypropylene water tank. The tank body and end bulkheads shall be constructed of .75" thick, polypropylene, nitrogen-welded	A label shall be provided on the pump operator's panel that identifies the type of foam concentrate that the foam proportioning system is designed to use. It shall also state the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rated system flow and pressure. Two (2) copies of an operations and maintenance manual shall be provided. They shall include a complete diagram of the system together with operating instructions and details outlining all recommended maintenance procedures. Foam System Testing The accuracy of the foam proportioning system shall be certified by the foam equipment manufacturer and also tested by the installer prior to delivery of the apparatus in compliance to NFPA standards. WATER TANK - 1000 GALLON The apparatus shall be equipped with a 1,000US gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe (a six-inch (6") overflow pipe shall be provided if required by dump valve installation). WATER TANK The apparatus shall be equipped with a rectangular tank. YES WATER TANK FILL TOWER A fill tower measuring approximately 10" x 10" square shall be provided on the water tank up to and including 1500 gallons total capacity. The apparatus shall be equipped with a polypropylene water tank. The tank body and end bulkheads shall be constructed of .75" thick, polypropylene, nitrogen-welded and tested inside and out. Tank construction	A label shall be provided on the pump operator's panel that identifies the type of foam concentrate that the foam proportioning system is designed to use. It shall also state the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rate at the minimum/maximum foam proportioning rated system flow and pressure. Two (2) copies of an operations and maintenance manual shall be provided. They shall include a complete diagram of the system together with operating instructions and details outlining all recommended maintenance procedures. Foam System Testing The accuracy of the foam proportioning system shall be certified by the foam equipment manufacturer and also tested by the installer prior to delivery of the apparatus in compliance to NFPA standards. WATER TANK - 1000 GALLON The apparatus shall be equipped with a 1,000US gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe (a six-inch (6") overflow pipe shall be provided if required by dump valve installation). WATER TANK The apparatus shall be equipped with a rectangular tank. YES NO WATER TANK FILL TOWER A fill tower measuring approximately 10" x 10" square shall be provided on the water tank up to and including 1500 gallons total capacity. The apparatus shall be equipped with a polypropylene water tank. The tank body and end bulkheads shall be constructed of .75" thick, polypropylene, nitrogen-welded and tested inside and out. Tank construction

| shall conform to applicable NFPA standards. | Section A – Page A-

The tank shall carry a lifetime warranty.

The transverse and longitudinal .375" thick swash partitions shall be interlocked and welded to each other as well as to the walls of the tank. The partitions shall be designed and equipped with vent holes to permit air and liquid movement between compartments.

The .5" thick cover shall be recessed .375" from the top of the side walls. Hold down dowels shall extend through and be welded to both the covers and the transverse partitions, providing rigidity during fast fill operations. Drilled and tapped holes for lifting eyes shall be provided in the top area of the booster tank.

A combination vent/water fill tower shall be provided at front of the tank. The 0.5" thick polypropylene fill and overflow tower shall be equipped with a hinged lid and a removable polypropylene screen. The overflow tube shall be installed in fill tower and piped with a minimum schedule 40 PVC pipe through the tank.

The water tank sump shall be located in the forward area of the tank. There will be a schedule 40 polypropylene tank suction pipe from the front of the tank to the tank sump. The tank drain and clean out shall be located in the bottom of the tank sump. The sump shall have a minimum 3" threaded outlet on the bottom to be used for a combination clean out and drain.

The pump to tank refill connection shall be a sized to mate with tank fill discharge line. A deflector shield inside the tank will also be provided.

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

The tank must be isolated from the cross members through the use of hard rubber strips with a minimum thickness and width dimension of 1/4" x 1" and a hardness of approximately 60 durometer. The rubber must be installed so it will not become dislodged during normal operation of the vehicle. Additionally, the tank must be supported around the entire bottom outside perimeter and captured both in the front and rear as well as side to side to prevent tank from shifting during vehicle operation.

A picture frame type cradle mount with a minimum of 2" x 2" x 1/4" mild steel, stainless-steel, or aluminum angle shall be provided or the use of corner angles having a minimum dimension of 4" x 4" x 1/4" by 6" high are permitted for the purpose of capturing the tank.

Although the tank is designed on a free floating suspension principle, it is required that the tank have adequate vertical hold down restraints to minimize movement during vehicle operation. If proper retention has not been incorporated into the apparatus hose floor structure, an optional mounting restraint system shall be located on top of the tank, half way between the front and the rear on each side of the tank. These stops can be constructed of steel, stainless-steel or aluminum angle having minimum dimensions of 3" x 3" x 1/4" and shall be approximately 6" to 12" long. These brackets must incorporate rubber isolating pads with a minimum thickness of 1/4" inch and a hardness of 60 durometer affixed on the underside of the angle. The angle should then be bolted to the body side walls of the vehicle while extending down to rest on the top outside edge of the upper side wall of the tank.

Hose beds floors must be so designed that the floor slat supports extend full width from side wall to side wall and are not permitted to drop off the edge of the tank or in any way come in contact with the individual covers where a puncture could occur. Tank top must be capable of supporting loads up to 200 lbs per sq. foot when evenly distributed. Other equipment such as generators, portable pumps, etc. must not be mounted

directly to the tank top unless provisions have been designed into the tank for that purpose. The tank shall be completely removable without disturbing or dismantling the apparatus structure.			
The tank construction shall include PolyProSeal TM technology wherein a sealant shall be installed between the plastic components prior to being fusion welded. This sealing method shall provide a liquid barrier, offering leak protection in the event of a weld compromise.			
The tank shall be equipped with Polychromatic fill towers. The water fill tower shall be blue in colour. The foam tank fill towers, if applicable, shall be yellow for foam A and green for foam B and black for any additional foam fill towers.			
The water tank shall be certified for the capacity of the water tank prior to delivery of the apparatus. This capacity shall be recorded on the manufacturer's record of construction and the certification shall be provided to the purchaser when the apparatus is delivered.			
The tank shall be manufactured by United Plastic Fabricating (UPF).			
HOSEBED WIDTH			
The width of the pumper body hosebed shall be (approximately) 70".	YES	NO	
HOSEBED - SINGLE AXLE PUMPER			
The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall have an anodized, radiused ribbed top surface. The slats shall be of widths	YES	NO	
approximately 3/4" high x 6" wide and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.			
The apparatus hose body shall be properly reinforced without the use of angles or structural shapes and free from all			

projections that might injure the fire hose.			
The main apparatus hose body shall run the full length of the apparatus body from behind the pump panel area to the rear face of the body.			
The upper rear interior of the hose body on the right and left sides shall be overlaid with brushed stainless-steel to protect the painted surface from damage by hose couplings.			
HOSE BED STORAGE CAPACITY			
The hose bed shall be designed to have a storage capacity for a minimum of 55 cubic feet of fire department supplied fire hose.	YES	NO	
ALUMINUM HOSEBED DIVIDER			
One (1) adjustable hosebed divider constructed of .250" aluminum shall be installed on the apparatus.	YES	NO	
ALUMINUM HOSEBED COVER			
The hosebed shall be equipped with a reinforced hinged .125" aluminum diamond plate cover. The covers shall be of the sloped design for proper water runoff. Positive hold-open devices shall be provided to hold the door in the open position.	YES	NO	
The cover, approximately 72" wide with a center opening, shall be installed the full length of the hose bed.			
The hosebed cover shall be labeled, "Not a Standing or Walking Surface", per NFPA.			
MAIN HOSEBED DIVIDER			
One (1) stationary hosebed divider shall be provided in the main hosebed.	YES	NO	
The hosebed divider shall be fabricated of 1/4" smooth aluminum sheet stock, pressed into a "T" shaped aluminum extrusion for added strength along the bottom and front edges of the divider.			
Divider shall be bolted in place, front and rear, to allow for ease of removal or			

	relocation.			
	relocation.			
	MANUALLY OPERATED ALUMINUM			
	HOSEBED COVER			
	HOSEBED COVER			
	The poliched aluminum treadplate beached	YES	NO	
	The polished aluminum treadplate hosebed	150	INO	
	covers extending the full-length and width of			
	the main hosebed shall have lift up handles			
	installed on each hose cover to manually			
	open the hosebed covers.			
	HOSEBED LED LIGHTS			
	Two (2) 40" long OnCoons Calvillana Assass			
	Two (2) 48" long OnScene Solutions Access	VE0		
	LED light shall be installed and produce	YES	INO	
	approximately 10050 lumens per light. The			
	light stick shall be rated at 100,000 hours of			
	service and shall be provided with a 5 year			
	free replacement warranty. The light shall			
	have a 5/8" LEXAN TM polycarbonate tube			
	enclosure for severe duty applications. The			
	light stick shall be waterproof and be			
	connectible via a jumper wire to add			
	additional lights in series if required.			
	The LED lights shall be recessed into the			
	underside of the hinged aluminum hosebed			
	covers to provide illumination for repacking			
	of fire hose. The 12 volt LED lights shall be			
	automatically controlled by a switch which			
	· · · · · · · · · · · · · · · · · · ·			
1	activates upon opening of the door. The			
	lights shall also be connected to the hazard			
	light in the chassis cab to indicate when the			
	hose bed covers are in the open position. REAR VINYL FLAPS FOR ALUMINUM			
	COVER			
	COVER			
	There shall be a vinyl flaps attached to each	YES	NO	
		ILO	INO	
	aluminum hosebed cover. The vinyl flaps			
	shall cover the area on the rear of the			
	hosebed from top to bottom. The flaps shall			
	be independent of each other but attachable			
	with velcro in the center. The bottom edge of			
	the flap shall be shall be secured utilizing a			
	hook and loop fastening system.			
	L			
	The vinyl cover shall be red in colour.			

HOSEBED RISERS			
HOSEBED KISEKS			
Hosebed risers shall be provided and installed at the front and along each side of the main hosebed for added depth to meet the hose storage requirement. Risers shall form the right and left side vertical hosebed sides. Hosebed risers shall be constructed of the same material as the body and painted to match body colour.	YES	IO	
BODY CONSTRUCTION			
The apparatus body shall be designed and built using a computer aided drafting and three dimensional modeling program. This engineering program shall have finite element analysis capability, so the design can be studied and stress points identified. This will allow for a total design review to ensure the strongest and most durable body possible. The use of this engineering system will ensure accuracy and repeatability for service parts in the event of accidental damage. The body components shall be fabricated using CNC equipment to cut and bend the individual body parts.	YES	IO	
BODY WIDTH The overall width of the pumper body shall not exceed 98".	YES	IO	
3/16" ALUMINUM BODY			
The compartment modules shall be fabricated using .190 5052H32 aluminum sheets. The individual compartment pieces shall be cut using a CNC high definition plasma or large cutting equipment. The pieces shall incorporate a "notch and tab" design. This design will ensure that all parts fit accurately. These compartment modules shall bolt to the subframe creating a completely independent modular body.	YES	IO	
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	YES	IO	

Section A –

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 TOPS			
The compartment top shall be formed from .190 aluminum treadplate, meeting NFPA slip resistant standards and shall extend down the side.	YES	NO	
SUB-FRAME			
The apparatus shall be designed using a structural subframe, designed as an independent assembly, separate of the chassis frame. This will allow for a totally modular body, capable of being remounted to a different chassis if the need arises. Designs which do not use a modular subframe assembly will not be allowed.	YES	NO	
This subframe shall be designed using heavy duty 7 gauge steel and 5/8" steel plates to form a subframe capable of carrying the loads designated by the fire department. The subframe shall be designed to carry a minimum of 500 lbs per compartment, distributed.			
The subframe shall be assembled with "Huck" bolts to ensure maximum tightening and clamping force at all joints. It shall be bolted securely at the rear with a minimum of four (4) 5/8" grade 8 bolts on each side and mounted at the front using four (4) spring loaded assemblies and lateral guides to allow for maximum twist, yet keeping the body aligned on the chassis.			
The subframe shall consist of formed 7 gauge cross members, spaced no more than 16-inches apart, to adequately support the water tank. There shall be 1/4" thick hard rubber channel pads covering the cross members, which will help prevent tank damage due to road shock. The tank shall			

	be held in place by four (4) formed angle				
	brackets, at least 3" high. These four				
	brackets will prevent fore and aft and lateral				
	movement of the tank. These cross				
	members shall be attached to two (2)				
	\				
	longitudinal 3x3 angles. These angles shall				
	be at the ends of the cross members to allow				
	the compartment to be attached and				
	supported by these pieces. There shall be at				
	least two down and out compartment				
	supports under each compartment, ahead of				
	and behind the rear wheels.				
	After fabrication the entire subframe				
	assembly shall be hot dip galvanized to				
	prevent corrosion. The hot dip galvanized				
1	subframe shall have a lifetime warranty				
	against failure due to corrosion. No				
	9				
-	exception to galvanized construction.				
	SINGLE AXLE WHEEL WELL LINER				
	For ease of accessibility and maintenance,	\/= -	NIC		
	wheel well module shall be painted smooth	YES	NO		
	aluminum plate.				
	To fully protect the wheel well area from				
	road dabria and to aid in alconing a full				
	road debris and to aid in cleaning, a full				
	depth (minimum of 25") radius wheel well				
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	depth (minimum of 25") radius wheel well liner shall be provided. FENDERETTES				
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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 to shall be incorporated to assist in lifting the door. BODY CONFIGURATION The aluminum apparatus body shall be 168" long VES NO LEFT SIDE COMPARTMENTS COMPARTMENT HEIGHT The body compartments shall be 72" in height.				
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COMPARTMENT HEIGHT The body compartments shall be 72" in	The aluminum apparatus body shall be 168"	YES	NO	
The body compartments shall be 72" in	LEFT SIDE COMPARTMENTS			
		YES	NO	
	·			

FORWARD COMPARTMENT

There shall be one (1) full height compartment module located ahead of the rear wheels. The compartment module shall be equipped with a full height natural finish roll up door and shall be 49" wide.

YES NO

The compartment shall be equipped with the following:

A removable louvered vent shall be provided 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 .125" 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.

300# ROLLOUT TRAY

One (1) SlideMaster SM3-LP Series low profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 300 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. An integrated manual quarter turn lock shall hold tray in both the "in" and "out" positions. The slide shall have a 2-3/4" 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.			
REFLECTIVE STRIPE			
The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.			
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.			
OVERWHEEL COMPARTMENT			
There shall be one (1) compartment module above the rear wheels. The compartment module shall be equipped with a natural finish roll up door and shall be 70" wide.	YES	NO	
The compartment shall be equipped with the following:			
A removable louvered vent shall be provided 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.			
SWING-OUT GEARGRID			
One (1) 500 lb. rated capacity fire apparatus Swing-Out Tool Grid, Single shall be provided by GearGrid and installed by the OEM or dealer. The Single-Swing-Out Tool			

Grid shall be composed of one (1) stationary wire grid on the back wall and (1) wire grid that shall swing outward. Both frames shall consist of 1 ½" x 16 ga. wall tubular frame and ½" diameter cold drawn steel wire grids. The swing out grid shall be hinged at the front so that it shall swing outward to 90 degrees beyond the truck. It shall move on shouldered bronze bushings with 3/8" inserts that have been bolted into the bottom and top of the tubular supporting structure.			
A single latch mechanism consisting of a nylon positive stop shall be provided to lock the tool board in the stored position. Gas shocks shall be used to hold the swinging grid open and closed.			
Reflective tape shall be placed on both sides of the end of the tool grid that extends outward. An amber incandescent light shall be installed in the center on the end of the grid that swings out.			
The grid shall be red.			
\$1,000 budget for brackets shall be included.			
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 COMPARTMENT			
There shall be one (1) full height compartment module located behind the rear wheels. The compartment module shall be equipped with a full height natural finish roll up door and shall be 49" wide.	YES	NO	
An easy to reach panel with hinged door shall be provided to access the wiring			

components in the rear compartment.

The compartment shall be equipped with the following:

A removable louvered vent shall be provided 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 .125" 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.

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One (1) SlideMaster SM3-LP Series low profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 300 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. An integrated manual quarter turn lock shall hold tray in both the "in" and "out" positions. The slide shall have a 2-3/4" 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.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf,

too ha	de-out tray, pull-out tool board, swing-out ol board, or pull-out and down tray shall ave alternating red and white reflective OT striping applied for safety.			
cc	OMPARTMENT LIGHTS			
co ins Th int	wo (2) ROM vertically mounted roll-up ompartment LED V3 door lights shall be stalled one each side of the door opening. The compartment lights shall be integrated to the roll-up door tracks with the light ctuation with the door opening.			
elii	ne lights shall have a polycarbonate lens to iminate breakage from impact and iminate heat buildup.			
an	ne compartment light will be controlled by automatic "On-Off" switch located on ach compartment door.			
RI	IGHT SIDE COMPARTMENTS			
Th	OMPARTMENT HEIGHT ne body compartments shall be 72" in	YES	NO	
he	eight.			
FC	DRWARD COMPARTMENT			
co rea be	nere shall be one (1) full height ompartment module located ahead of the ar wheels. The compartment module shall be equipped with a full height natural finish II up door and shall be 49" wide.	YES	NO	
	ne compartment shall be equipped with the llowing:			
	removable louvered vent shall be provided the compartment.			
AE	DJUSTABLE SHELVING TRACKS			
fou ve for	ne compartments shall be equipped with ur (4) aluminum adjustable tracks, ertically mounted, that are bolted in place r adjustable shelving and equipment ounting.			
AC	DJUSTABLE SHELF			
	ne (1) adjustable shelf shall be constructed .125" 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 is in the upper split-depth location.

300# ROLLOUT TRAY

One (1) SlideMaster SM3-LP Series low profile telescoping equipment tray(s) shall be installed in a standard depth compartment. The tray assembly shall have a silver powder coated steel slide frame with sealed roller bearings rated to 300 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. An integrated manual quarter turn lock shall hold tray in both the "in" and "out" positions. The slide shall have a 2-3/4" 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.

REFLECTIVE STRIPE

The outer edge and both sides of the shelf, slide-out tray, pull-out tool board, swing-out tool board, or pull-out and down tray shall have alternating red and white reflective DOT striping applied for safety.

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.			
	OVERWHEEL COMPARTMENT			
i	There shall be one (1) compartment module above the rear wheels. The compartment module shall be equipped with a natural finish roll up door and shall be 70" wide.	YES	NO	
1	The compartment shall be equipped with the following:			
1	A removable louvered vent shall be provided in the compartment.			
	ADJUSTABLE SHELVING TRACKS			
	The compartments shall be equipped with two (2) aluminum adjustable tracks, vertically mounted, that are bolted in place for adjustable shelving and equipment mounting.			
,	ADJUSTABLE SHELF			
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each compartment door.			
REAR COMPARTMENT			
There shall be one (1) full height compartment module located behind the rear wheels. The compartment module shall be equipped with a full height natural finish roll up door and shall be 49" wide.	YES	NO	
An easy to reach panel with hinged door shall be provided to access the wiring components in the rear compartment.			
The compartment shall be equipped with the following:			
A removable louvered vent shall be provided in the compartment.			
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REAR CENTER COMPARTMENT			
There shall be one (1) full height compartment located at the rear of the apparatus. The compartment shall be 55" high x 24" deep x 42" wide and be equipped with a natural finish roll up door. The compartment shall be partitioned off from the side compartments.	YES	NO	
The compartment shall be equipped with the following:			
A removable louvered vent shall be provided			

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 .125" 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.

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COMPARTMENT LIGHTS

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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.			
ADDITIONAL SHELVING			
Four (4) adjustable shelf shall be constructed of .125" smooth aluminum plate with 1.5" formed vertical lip front & back.	YES	NO	
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.			
Final installation locations to be reviewed.			
SLIDE OUT VERTICAL LADDER MOUNTINGS			
The ladder shall slide into the right rear of the apparatus, through the right side of the body. The vertically mounted slide in assembly shall be an integral part of the body and accessible through a hinged door.	YES	NO	
The hinged door shall be constructed of smooth material, with chevron striping applied to match the rear of the apparatus body.			
INTÉRNAL FOLDING ATTIC LADDER MOUNTING			
An internal mounting shall be provided for the specified folding attic ladder.	YES	NO	

LADDER SOURCE			
New ground ladders shall be provided by the body builder.	YES	NO	
PIKE POLE MOUNTING BRACKET			
Two (2) tube shall be provided for pike pole mounting. The tube shall have a 2" interior diameter and shall be mounted in the ladder tunnel.	YES	NO	
HARD SUCTION MOUNTING			
One (1) hard suction hose compartment shall be provided at the top of the body compartments, behind the roll up door, on the left side. The design shall allow the hose to be individually removed from the rear of the apparatus. The hard suction hose compartment shall have a hinged door with push to latch door catches.	YES	NO	
The hinged door shall be constructed of smooth material, with chevron striping applied to match the rear of the apparatus body.			
HARD SUCTION MOUNTING			
One (1) hard suction hose compartment shall be provided at the top of the body compartments, behind the roll up door, on the right side. The design shall allow the hose to be individually removed from the rear of the apparatus. The hard suction hose compartment shall have a hinged door with push to latch door catches.	YES	NO	
The hinged door shall be constructed of smooth material, with chevron striping applied to match the rear of the apparatus body.			
SUCTION HOSE			
Two (2) 6.0" x 10 foot length of PVC flexible suction hose shall be supplied. The suction hose shall have light weight couplings provided.	YES	NO	

FOLDING STEPS RIGHT SIDE FRONT			
Three (3) folding steps of die cast highstrength zinc/aluminum alloy, plated with a superior automotive grade chrome finish shall be provided. The greater than 42 sq. in. serrated non-skid step traction area also offers an oversized non-slip grasp handhold. A heavy duty stainless-steel spring design firmly holds the step in the open or closed positions. A rubber stop prevents any transit noise and rattles in the closed position. Step lighting shall be from a LED light mounted above the step.		NO	
The step has been third part tested to assure conformation of NFPA 1901 and FHA, 49CFR specifications for stepping surfaces and handhold.			
The step shall be installed on the right side			
front compartment face. HANDRAIL TOP OF BODY SIDES			
One (1) extruded aluminum non-slip handrails, approximately 12" in length, shall be provided and mounted, on the right side at the top of the body sides, at the front of the apparatus body.	YES	NO	
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.	YES	NO	
CATWALKS			
Aluminum tread plate catwalks shall be installed on the top of the compartments.	YES	NO	
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.	YES	NO	

REAR STEP - 16" BOLT-ON			
A 16" deep step surface 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.	YES	NO	
A label shall be provided warning personnel that riding on the rear step while the apparatus is in motion is prohibited.			
An intermediate fixed step shall be provided at the rear of the apparatus body, bolted in place and easily removable for replacement or repair. The intermediate step shall be constructed of .188" polished aluminum diamond plate or equal non-slip surface in compliance with NFPA #1901 standards and be approximately 8" deep x 48" wide.	YES	NO	
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 all aluminum 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.	YES	NO	
The access ladder shall have integrated hand holds in the steps, 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.			
One (1) extruded aluminum non-slip handrails, approximately 60" in length, shall be provided and vertically mounted on the rear of the apparatus, on the right side of the body.	YES	NO	

HANDRAIL BELOW HOSEBED			
One (1) extruded aluminum non-slip handrail, approximately 48" in length, shall be provided and horizontally mounted below the hosebed on the rear of the apparatus (rear edge of the intermediate step).	YES	NO	
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. There shall also be a bolt on aluminum corner casting on each rear corner to blend the rear tail board assembly with the side rub rails.	YES	NO	
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.	YES	NO	
WHEEL WELL PROVISIONS LOCATION			
The wheel well provisions shall be located on the left side of the apparatus, ahead of the rear wheels.	YES	NO	
One (1) wheel chock storage compartment for two (2) wheel chocks shall be provided and located in the rear wheel well of the apparatus body.			
The storage compartment shall be constructed entirely of aluminum. The door assemblies shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement. A painted door shall be provided.			
WHEEL WELL PROVISION LOCATION			
The wheel well provisions shall be located on the left side of the apparatus, behind of the rear wheels.	YES	NO	
One (1) fire extinguisher storage compartment shall be provided in the rear wheel well area. The compartment shall be designed with ample room for the specified extinguisher. A painted aluminum door shall be installed.			

One (1) one-inch (1") wide loop of black			
webbing shall be installed in each			
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			
WHELE WEEL I ROUGHOU EGOATION			
The wheel well provisions shall be located			
on the right side of the apparatus, ahead of	YES	NO	
the rear wheels.	123	INO	
life real writeers.			
44-10-2700			
One (1) breathing air cylinder storage			
compartment for three (3) SCBA cylinders			
(not supplied) 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 provided with a gasket			
between door and body side, bolted in-place			
and removable for repair or replacement.			
Compartment shall be provided with SCBA			
cylinder scuff protection. A painted aluminum			
door shall be installed.			
Three (3) 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			
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WHEEL WELL PROVISION LOCATION			
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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.			
BODY PAINT PROCESS			
FACILITY CERTIFICATION	YES	NO	
The paint facility shall be in current compliance with 40 CFR (code of federal regulations) part 63 subpart HHHHHH national emission standards for hazardous air pollutants: Paint stripping and miscellaneous surface coating operations at area sources (6H-NESHAP). Spray guns shall also be compliant certified by paint gun manufacturer.			
CAB / MODULE PREP			
Prior to assembly, all joints and seams are to be mechanically etched. All welds shall be ground smooth prior to priming. The bare substrate of the module is first cleaned with a strong surface cleaner to remove fabrication and pneumatic tool oils. The reason? Cleaning the surface prior to sanding prevents oils and contaminants from being imbedded into the substrate. After sanding process, a mild surface cleaner removes any sanding dust residue along with pneumatic tool oil. A waterborne surface cleaner is available in case substrate was touched with bare hands or skin.			
The following steps must be followed in sequence to properly apply paint to the Fire truck cab, chassis or module.			

SURFACE PREP

 Clean entire modular body with Sikkens OTO using the two-cloth method, wipe on wet, wipe dry. Reason: Wiping our surface cleaners on wet, contaminants loosen and float to the top. Those floating contaminants then get wiped off with an absorbent towel. Using an orbital sander, (where polyester) filler will be applied) 80-grit is used to provide a mechanical tooth for optimal adhesion. 180-grit is then used surrounding the 80-grit area. Sikkens M600 surface cleaner is then used to remove sanding dust and pneumatic tool oil. If bare hands or skin accidentally touched the surface, Sikkens Autoprep waterborne cleaner is used to remove natural oils. Again: All surface cleaners are applied wet with one towel and wiped dry with another.

•approved polyester body filler is then applied over the 80-grit ground areas to cover the imperfections from welds. When body filler dries, it's first sanded with 80-grit then finish sanded with 180-grit to remove all 80-grit sand scratches. Blow off surface dust using approved air wand.

•After body work has been completed, the rest of the aluminum substrate on module gets sanded with 80-grit sandpaper until the surface is bright and sand scratches are consistent. Module gets blown off again to remove all sanding dust.

•Step 1 is essential in achieving proper adhesion.

EPOXY PRIMER AND HIGH BUILD PRIMER SURFACER APPLICATION PROCESS:

•First, if sanded aluminum substrate has not been primed within 8 hours, aluminum substrate gets re-abraded to remove oxidation that may have begun on aluminum surface. Aluminum substrate gets cleaned with Sikkens M600 surface cleaner using the 2-towel method. Surface cleaners do not get applied over body filler due to polyester filler being absorbent.

One (1) coat of AkzoNobel LV262 Epoxy primer is applied. This epoxy primer slows down corrosion from happening if in case the unit (once out in the field) has stone chips or scratches down to aluminum. This product is a 2-component epoxy primer meaning it mixes with a hardener. Paint technicians are

trained to properly apply this product to achieve a minimum of 1 mil DFT (Dry film thickness) required by AkzoNobel. A blank module schematic showing specific areas to measure dry film thickness is completed on each module /unit.

•Allow LV262 25 minutes minimum dry time prior to applying AkzoNobel LV650 primer surfacer. Apply two to three wet coats of AkzoNobel LV650 two component low VOC high build primer surfacer. A dry film thickness of up to 8 mils can be achieved prior to sanding. Minimum flash between coats is 30 seconds to 5 minutes. LV650 surfacer dries 3 different ways. 8 hour dry without accelerator, bake for 1 hour at 140-degrees or accelerate which allows technicians to sand in 45 minutes @70-degrees.

SANDING:

•Block sand entire module with 320-grit sandpaper minimizing any accidental cut throughs on edges. Blow off body with air gun and move module into paint booth.

PRE TOPCOAT PREPARATION

- Clean areas where approved seam sealer is applied with Sikkens M600 surface cleaner.
 If by accident, bare hands or skin touched surface on cab or module, Autoprep waterborne cleaner is used on these areas prior to using M600 cleaner. Both cleaners are used with the 2-towel method.
 Seam seal with approved non-shrinking
- moisture cured urethane seam sealer. Technicians follow seam sealer technical data sheets pertaining to application and dry times prior to applying AkzoNobel BT650 basecoat or 650 Topcoat single stage paint.

 •Clean module with M600 surface cleaner. If by accident, bare hands or skin touched surface on module, Autoprep waterborne cleaner is used on these areas prior to using M600 cleaner. Both cleaners are used with the 2-towel method.
- •If there are any visible cut throughs, paint techs first use a pre-treatment Alodine wipe followed by one coat of reduced LV262 epoxy primer over these areas and give a 20-minute flash prior to applying BT650 basecoat or Topcoat.
- •Tack rag unit to remove any lint or dust that could have landed on surface.

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	TODOOAT DROOFDURE			
	TOPCOAT PROCEDURE			
	•Mix BT650 basecoat or Topcoat (single			
	stage) polyurethane paint.			
	•Fluid and spray pattern checks are done			
	prior to applying BT650 base, Topcoat and			
	Clear coat.			
	•Apply BT650 basecoat until complete			
	coverage is achieved. If Topcoat is applied,			
	a minimum of 1.8 mils is recommended after			
	cut and buff procedure. Note: Topcoat			
	doesn't get clear coated.			
	•Allow solid colour BT650 basecoat to flash			
	20 minutes prior to applying 3 coats Sikkens			
	LV651 Glamour Clear coat.			
	•If a metallic colour, allow BT650 basecoat to			
	flash 45 minutes prior to applying 3 coats			
	LV651			
	•Glamour Clear coat. Bake body for 45			
	minutes once surface temp has reached			
	140-degrees.			
	•The mil thicknesses are as follows:			
	 Autocoat BT LV262 Epoxy Primer1.0 to 1.5 			
	mils			
	 Autocoat BT LV650 2K Primer Surfacer1.0 			
	to 3.0 mils			
	 Autocoat BT LV650 Basecoat colour1.0 to 			
	1.8 mils			
	 Autocoat LV651 Clearcoat2.0 to 3.0 mils 			
	Combined total:5.0 to 9.3 mils			
	APPARATUS COLOUR			
	L0762EY MED RED ELITE EY to match the			
	Freightliner chassis paint.	YES	NO	
	INTERIOR COMPARTMENT FINISH			
	The interiors of the body compartments shall	VE 2	NO	
	be left a natural finish.	YES	NO	
	TOUCH-UP PAINT			
	TOUCH-UF FAINT			
	One (1) two (2) ounce bottle of touch-up			
	paint shall be furnished with the completed	YES	NO	
	truck at final delivery.	I LO	110	
	and at man donvory.			
L	1		1	

LETTE	RING			
	rchaser shall supply the apparatus	YES	NO	
CAB A	ND BODY STRIPE			
width, s the cab applica purchas	ght Scotchlite reflective stripe, 4" in shall be applied horizontally around and body in compliance with ble NFPA 1901 standards. The ser shall specify the colour and n of the stripe.	YES	NO	
The col	our of the 3M brand striping material white.			
	RON STRIPING			
Oralite installed applied pointing the rea		YES	NO	
REFLE	CTIVE STRIPE DOOR INTERIORS			
interior portion Chevro of the a	ive striping shall be installed on the of each chassis door. The lower of the door shall have red and yellow n applied to it that matches the rear apparatus. A matching reflective stripe applied on the vertical outer edge of or.	YES	NO	
	W SAFETY TAPE - STANDING & NG SURFACES			
or walk mm) fro railing of high sh safety y with the perimet	paratus shall meet NFPA standard 6 designating any horizontal standing ing surface higher than 48-in (1220 om the ground and not guarded by or structure at least 12-in (300 mm) all have at least a 1-in (25 mm) wide yellow line delineation that contrasts a background to mark the outside ter of the designated standing or a surface area, excluding steps and is.	YES	NO	

WHEEL CHOCKS			
Two (2) standard aluminum wheel chocks shall be provided.	YES	NO	
ROOF LADDER			
One (1) Duo Safety Model 775-A, 14 foot aluminum roof ladder with folding steel roof hooks on one end and steel spikes on the other end shall be provided on the apparatus. The ladder shall meet or exceed all latest NFPA Standards.	YES	NO	
EXTENSION LADDER			
One (1) Duo-Safety Model 900-A, 24 foot two (2) section aluminum extension ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA standards.	YES	NO	
FOLDING LADDER			
One (1) Duo Safety Model 585-A, 10 foot folding aluminum ladder shall be provided on the apparatus. The ladder shall meet or exceed all the latest NFPA Standards.	YES	NO	
PIKE POLE			
One (1) 6' pike pole with I-Beam handle shall be provided. The pike pole shall be of fiberglass construction.	YES	NO	
One (1) 8' pike pole with I-Beam handle shall be provided. The pike pole shall be of fiberglass construction.			
FIRE EXTINGUISHER One (1) 20# ABC dry chemical fire extinguisher shall be provided with mounting. The extinguisher shall have a pressure gauge and filled with a dry chemical extinguishing agent.	YES	NO	
 1	l		

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KOCHEK EQUIPMENT			
The following Kochek equipment shall be supplied with the offered vehicle:	YES	NO	
Two (2) set(s) of Kochek KS34 storz wrenches are included. Each set includes the following components: • one (1) wrench holder • four (4) 4"-5" storz x universal spanner wrenches			
The wrench set shall be shipped loose for fire department installation.			
TASK FORCE TIPS EQUIPMENT			
The following Task Force Tips equipment shall be supplied with the offered vehicle:	YES	NO	
Two (2) ABD8NX-NX intake valves			
Two (2) Metro1 1.5" ME1VPGIS-173 nozzles (NPSH threads)			
Two (2) Metro1 2.5" ME22V-354 nozzles (CSA threads)			
One (1) Blitzfire XXC-52-HENH1; shipped loose/unmounted (CSA threads)			

FT-3 Tenderer's Declarations

- 3.1 The Tenderer declares that it has obtained and read the Contract Documents.
- The Tenderer declares that it understands and agrees to be boundby the Contract Documents.
- 3.3 Without limiting the generality of Section FT-3.2, the Tenderer declares that it has, at the time of tendering, fulfilled all of those obligations under the Contract which are required to be fulfilled by the time of tendering.

3.4	The Tenderer declares that all information which it has provided or will provide to the Owner is true.					
FT-4 4.1	Tenderer's Offer The Tenderer offers to do the work in accordance with the Contract Documents.					
4.2	The Tenderer offers to do the work and to accept payment at the prices specified in the Schedule of Prices in Section FT-5 of the Tender, in accordance with the Contract Documents.					
4.3	The Total Tender Price, based of	on the Schedule of Prices	is:			
			DOLLARS			
	(\$)				
FT-5 5.1	Schedule of Prices The Schedule of Prices attached	d is Section FT-5.2 of the	Tender.			
	This offer is made this	day of	, 20			
	Signature of Witness (only if required by TC-1)	Signature of Tend (Corporate Seal if				
		Signature of Tend (Second Signature	erer e if required by TC-1			
		Print Name of Te	nderer(s)			

FT-5.2 SCHEDULE OF PRICES

	CONTRACT NUMBER T-2024-18 Supply and Deliver One (1) Fire Pumping Apparatus 4 Door				
Item	Spec. Code	Item Description	Total		
1	SP-C-1	Supply and Deliver One (1) New Pumper Fire Apparatus			
	-				
	Less Trade-in (as specified in SP-C-1) No Trade in				

- 4.3 All prices to be shown excluding HST.
- 4.3 All prices shall be in Canadian Dollars and must **include FOB to the Port Carling Fire Station, 1 Lee Valley Drive Port Carling ON P0B 1J0**. Total bid price shall include applicable customs duty, excise tax, freight and freight tax, insurance, and all other charges of every kind attributable to the work
- 4.4 The Corporation of the Township of Muskoka Lakes is part of the Broader Public Service of the Province of Ontario and as such may be eligible for concessions (discounts) on vehicles included in the Ministry of Government Services Vendor of Record arrangement OSS-00634452. Any bids shall include such discounts when available.
- 4.5 Trade-in may or may not be exercised at the sole discretion of the Township. The bid prices in this tender shall be binding regardless of whether the trade-in is exercised or not.

SECTION B FORM OF AGREEMENT

TOWNSHIP OF MUSKOKA LAKES FORM OF AGREEMENT

This Form o	f Agreement witnes	ses that a Contract was made as of theday of
	, 20	
BETWEEN:		
	(after this c	alled the "Contractor")
AND:		
	THE CORF	PORATION OF THE TOWNSHIP OF MUSKOKA
	(after this c	alled the "Owner")
AND WITNE	ESSES that the Con	tractor and the Owner agree as follows:
<u>FA-1</u>	The Contractor sh	all perform the following work:
	Contract Number	<u>T-2024-18</u>
	Described as	Supply and Deliver
		One (1) New Pumper Fire Apparatus

<u>FA-2</u>	The Contractor shall perform the work in accordance with the Contract Documents listed in the Tender.					
<u>FA-3</u>	The Owner shall pay the Contractor in accordance with the prices in the Schedule of Prices in the Tender pursuant to the Contract Documents.					
<u>FA-4</u>	The provisions of the Contract Documents shall endure to the benefit of and be binding upon the Contractor and the Owner and their respective heirs, legal representatives, successors and assigns.					
IN WITNESS WHEREOF the Contractor and the Owner have executed, in the manner required by law, this Form of Agreement.						
Signa	ture	Date	Signature	Date		
Contractor (Corporate S	eal if required by	TC-1)	Mayor The Township of	Muskoka Lakes		
0:		-	0' '			
Signa Contractor (Second Sign 1)	nature if required	Date by TC-	Signature Clerk The Township of	Muskoka Lakes		
Signati	ure	Date				
Witness (Only if requi	red by TC-1)					

SECTION C SPECIAL PROVISIONS

TOWNSHIP OF MUSKOKA LAKES

SPECIAL PROVISIONS

No. SP-C-1

1.0 SCOPE

- 1.1 In this contract, Owner, Township or Township of Muskoka Lakes can be used interchangeably and means The Corporation of the Township of Muskoka Lakes.
- 1.2 This tender is for the supply and delivery of one new pumper fire apparatus as specified. All vehicles shall come fully equipped as specified and fully ready for service upon delivery.
- **1.3** The Contractor shall be a factory authorized dealer and be a licensed Motor Vehicle dealer for the Province of Ontario.
- 1.4 The Contractor shall abide by all Federal, Provincial and Municipal Laws, Acts, Ordinances, Regulations, Orders-in-Council and By-laws at all times relative to the performance of the work. This shall include full compliance with the Occupational Health and Safety Act.

2.0 TRADE IN

2.1 The trade-in vehicle is as follows:

NO TRADE IN VEHICLE

- 2.2 The trade-in vehicle will be traded in "as is" condition and is not represented as being in road worthy condition, mechanically sound or maintained at any guaranteed level of quality.
- **2.3** The trade-in vehicle will not include the following equipment:

The stated mileage and hours are approximate at the time of tendering and the Contractor acknowledges and accepts that the Owner may continue to use this vehicle until such time that it is traded-in and the stated mileage and hours will be subject to change.

2.4 The trade-in vehicle value is to be included on *FT 5.2 Schedule of Prices* – *Summary* in the Form of Tender. The Township has sole discretion whether to proceed with the trade-in based on the best value to the Township. The trade-in vehicle shall be transferred to the Contractor upon delivery of the new vehicle if the Township opts to exercise this option.

2.5 The trade-in vehicle will be available for viewing Monday to Thursday 7:30 am to 4:00 pm or on Fridays 7:30 am to 11:00 am and shall not occur on any Provincial and/or Federal statutory holidays (including Easter Monday and Civic Holiday). For questions regarding the trade-in and/or to arrange a viewing, please contact Ryan Murrell, Fire Chief via email at rmurrell@muskokalakes.ca.

3.0 PAINT COLOUR

Paint colours shall be as specified in the Schedule of Specifications in the Form of Tender. Final approval for all paint colours must be provided by the Owner prior to ordering. Approval by the Owner will occur within 5 business days of receiving the paint samples from the Contractor. On pages C7, C8, and C9 images of the paint schemes can be seen.

4.0 DELIVERY

- 4.1 Delivery shall be to the Muskoka Lakes Fire Department Station # 6 Port
 Carling at 1 Lee Valley Drive, Port Carling, ON, P0B 1J0. A minimum of 48 hours' notice shall be provided to Ryan Murrell, Fire Chief by phone at 705
 646 5282 or via email at rmurrell@muskokalakes.ca
 Monday to Thursday 9:00 am to 4:00 pm local time and shall not occur on any Provincial and/or Federal statutory holidays (including Easter Monday and Civic Holiday).
- 4.2 Delivery shall occur no later than December 1, 2024.
- 4.3 An authorized representative of the manufacturer shall provide demonstration of the completed vehicle. One (1) day of orientation shall be provided and performed by a qualified representative of the manufacturer.

5.0 CONCESSIONS AND DISCOUNTS

The Corporation of the Township of Muskoka Lakes is part of the Broader Public Service of the Province of Ontario and as such may be eligible for concessions (discounts) on vehicles included in the Ministry of Government Services Vendor of Record arrangement OSS - 00634452. Any bids shall include such discounts where possible.

6.0 EXTRA WORK, ADDITIONAL WORK AND/OR CHANGES IN THE WORK

6.1 No Extra Work, Additional Work and/or Changes in the Work shall be completed without the prior written approval of the Contract Administrator.

- 6.2 Extra Work, Additional Work and/or Changes in the Work must be identified as such by the Contractor when submitting the request for approval and no claims shall be made related to delays by the Contractor in requesting approval to complete Extra Work, Additional Work and/or Changes in the Work.
- 6.3 Despite anything stated elsewhere in the Contract, approval from the Contract Administrator shall be received before completing any Extra Work, Additional Work and/or Changes in the Work. Failure to obtain prior written approval may result in non- payment for this portion of the work.

7.0 INDEMNIFICATION

7.1 The contractor shall indemnify and hold the Corporation of the Township of Muskoka Lakes harmless from and against all claims, liability, losses, actions, demands, damages, costs and expenses, including reasonable legal fees, occasioned wholly or in part by any negligence acts or omissions, whether willful or otherwise by the contractor, its agents, officers, employees or other persons for whom the contractor is legally responsible in the performance of this agreement.

8.0 PAYMENT

- **8.1** Payment at the contract price for the tender item shall include full compensation for all labour, equipment and materials required to complete the work as per the tender documents.
- 8.2 The Township shall pay for the Work upon completion and receipt of an itemized invoice sent in by the Contractor to the Accounts Payable Department at ap@muskokalakes.ca. All invoices related to this tender shall reference the tender number and the purchase order number provided.
- **8.3** The Township's standard payment term is net thirty (30) days but failure to submit an invoice with the required information could result in delay of payment.
- 8.4 The Township pays the Harmonized Sales Tax (HST) where applicable and should be shown separately on the invoice. The Contractor shall include the HST Registration Number on all invoices.