

MELROSE FIRE DEPARTMENT FIRE APPARATUS TANKER

Revised 5-4-16.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

TANKER BID SPECIFICATIONS

INTENT OF SPECIFICATIONS

It is the intent of these specifications to cover the furnishing and delivery to the Melrose Fire Department of a complete fire apparatus equipped as hereinafter specified. With the view of obtaining the best results and the most acceptable apparatus for service in the FIRE DEPARTMENT these specifications cover only the general requirements as to the type of construction and tests to which the apparatus must conform, together with certain details to furnish equipment and appliances with which the successful bidder must conform. Minor details of construction and materials, where not otherwise specified, are left to the discretion of the contractor who shall be solely responsible for the design and construction of all features. The NATIONAL FIRE PROTECTION ASSOCIATION pamphlet #1901 current edition for Motor Vehicle Apparatus, unless otherwise specified in these specifications shall prevail.

ONLY THE SPECIFIED FIREFIGHTING SUPPORT EQUIPMENT LISTED IN THESE SPECIFICATIONS SHALL BE PROVIDED.

The apparatus shall conform to all Federal motor vehicle safety standards.

Bids will only be considered from companies that have an established reputation in the field of fire and/or rescue apparatus manufacturing.

Each bid must be accompanied by a set of detailed contractors specifications consisting of a detailed description of the apparatus and equipment proposed. These specifications shall include size, location, type, and model of all component parts being furnished. Detailed information shall be provided on the materials used to construct all facets of the apparatus body. Any bidder who fails to submit detailed construction specifications shall be considered non-responsive and shall render their proposal ineligible for award.

Each bidder shall furnish a computer generated weight and balance analysis for the unit being proposed. It shall address individual and combined axle weights and include an analysis on the vehicle's center of gravity. It shall also include a figure for excess payload capacity. Any bidder who fails to submit the weight and balance analysis in this format shall be considered non-responsive and shall render their proposal ineligible for award.

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

The manufacturer shall specify in his bid the number of working days and/or calendar days after acceptance of the formal contract by the manufacturer that the completed apparatus will be delivered by the purchaser. The manufacturer will not be held liable for changes arising from its failure to make or delay in making deliveries because of fire, flood, riot, major component shortage, accidents, acts of God, or any circumstances beyond their control.

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QUALITY AND WORKMANSHIP

The workmanship must be of the highest quality in its respective field. Special consideration will be given to the following points:

- (1) Accessibility of the various components which require periodic maintenance or monitoring
- (2) Ease of vehicle operation (pumping and driving)
- (3) Visibility of the driver
- (4) Symmetrical proportions

Construction must be rugged and design must be certified to carry the loads as specified and to meet the road and speed requirements as set forth under "PERFORMANCE TESTS AND REQUIREMENTS" of NFPA Pamphlet #1901 current edition.

Welding shall not be employed in the assembly of the apparatus in a manner that will prevent the removal of major components for service and/or repair.

DESIGN

The successful bidder shall be solely responsible for the design, construction and material used in the construction of the vehicle. The apparatus shall be of the latest design and type while using the most current industry construction techniques.

Each bidder shall supply with their bid a detailed drawing consisting of the driver side, passenger side and rear views of the apparatus. This drawing shall be representative of the apparatus being bid. The drawing must include but not be limited to all principle dimensions (height/width/length). Pictures or brochures are also encouraged that represent the quality of construction being proposed.

The apparatus, assemblies, component parts, etc., shall be designed and constructed with consideration to the nature and distribution of the load to be sustained and to the general character of the service to which the apparatus is to be subjected.

The apparatus shall be designed with great consideration given to overall vehicle weight and weight distribution. A computerized weight distribution calculation shall be included with the bid. A calculation shall include the chassis weight with all fluids and fuels topped off, estimated body weight, a 250-lb. allowance per seat for personnel and a 2,500 lb. distributed load allowance for equipment. Any bidder who fails to submit weight and balance calculations shall be considered non-responsive and shall render their proposal ineligible for award.

The apparatus shall be designed and constructed so component parts can be removed for service and repair with standard tools. Any special tools needed to service any component of the apparatus built or supplied by the component manufacturer shall be supplied with the apparatus. During the design and construction the apparatus manufacturer shall take into consideration the ease of access to various areas requiring lubrication, inspection, service or adjustment.

The design, materials and materials must be of the highest quality in its respective field. Quality control inspections shall be performed at each step of the manufacturing process.

The manufacturer shall meet the minimum requirements of NFPA Pamphlet 1901 current edition, The Underwriter's Laboratories, Inc. and all State and Federal Department of Transportation vehicle regulations at the time of the bid for this apparatus.

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ROAD TEST

All road tests will be performed per NFPA Pamphlet #1901 current edition requirements.

LIABILITY

The successful bidder shall defend any and all suits and assume all liability for use of any patented process, device or article forming a part of the cab and chassis, or any appliance under the contract.

DELIVERY and/ DELIVERY DATA REQUIRED

1. The completed apparatus shall be delivered at the point of final manufacture.
2. The successful bidder's representative shall remain at the Fire Department until released by the Fire Chief or Commission during which time he shall instruct Fire Department personnel in the proper operation, care and maintenance of the complete apparatus.

Information required at time of delivery to be supplied by the manufacturer:

- A. Manufacturer's statement of origin
- B. Electrical "as built" schematic booklet
- C. Final build data sheet showing serial numbers for the following:
 1. Cab and chassis VIN
 2. Engine serial number
 3. Transmission serial number
 4. Apparatus/Body serial number
- D. One copy of a complete operations and general maintenance instructions as delivered, including but not limited to the chassis, engine, transmission, axles, lubrication charts, rescue body and appropriate accessories.
- E. The Underwriters Laboratories Incorporated test Certification shall be provided on delivery of the apparatus.
- F. The successful bidder shall supply all data required in NFPA Pamphlet #1901 current edition chapter 14 - 20.

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EXCEPTIONS TO SPECIFICATIONS

Each bidder response shall include a returned copy of this Request for bid with the yes/no columns checked for compliance to specifications.

All exceptions, no matter how minor must be marked in the "NO" column.

Those exceptions shall be listed on a separate sheet and shall refer to specification page number and paragraph. It will be mandatory for any perspective bidder that deviates from the proposed specifications, to give a full description of all deviations.

Bidder and his/her manufacturer being represented will be held responsible for deviations not specifically addressed or approved by the Fire Department. Items not addressed will be considered as being bid with no exception and will be included on the apparatus in the form presented in our specifications. Non-compliance will be grounds for rejection of the completed vehicle - **NO EXCEPTION.**

Failure to follow this method will add a considerable time to the bid review process and may be cause for rejection of the bid.

The purchaser will not consider proposals or demonstrators taking total exception to the bid specifications.

Where bidder's specifications and/or construction differ in any way from the bid specification, a full and complete description in the specification will be required. Drawings will also be required to show alternative construction methods. Partial descriptions or general clarifications covering groups or sections of the specifications will be unacceptable.

CLARIFICATIONS TO SPECIFICATIONS

Clarifications shall refer to specification page number and paragraph. Any such clarification that appears vague or misleading shall be considered an exception. Complete clarifications are required describing the reason for the deviation. Apparatus will be inspected upon delivery for compliance with specifications.

CONTRACT AWARD

The purchaser reserves the right to reject any or all bid proposals and purchase the equipment it deems most suitable to its needs. Since all components and materials are commercially available these specifications shall in no way be considered proprietary.

Price shall be based on payment upon receipt of the completed apparatus by the purchaser. No discounts or prepayment schedules shall be listed on the proposal page. All bidders are required to detail any payment terms for the apparatus and these terms shall be listed on a separate page entitled OPTIONS. These options may or may not be considered at the discretion of the purchaser.

All bids shall remain valid for 30 days after opening.

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PAYMENT TERMS

The Purchaser agrees to purchase and pay cash for the apparatus and miscellaneous equipment pursuant to the following terms and conditions:

- 1) All prices shall be less any taxes.
- 2) The final payment for the apparatus shall be paid upon delivery and acceptance by the fire department per enclosed payment terms. An invoice shall be presented on or before delivery of the apparatus.
- 3) The apparatus, without exception, shall not be placed "In Fire Service" prior to full payment of apparatus.

SUBMISSION OF BIDS

Bids shall be submitted in accordance with the following instructions:

- (1) The bidder's proposed specifications shall be provided in full. Any deviations and clarifications shall be clearly marked.
- (2) The bidder's proposed specifications detailing their construction methods shall be provided. This is necessary to evaluate each bidder's actual intent of building the equipment as specified herein.
 - **The bidder's proposed format shall be the same as these specifications to allow the customer to easily compare the bids; NO EXCEPTIONS.**
 - **Bids are to be submitted in the same order as our specifications; NO EXCEPTIONS.**
- (3) Bids shall be returned in a sealed envelope clearly marked "BID FOR FIRE APPARATUS".
- (4) The purchaser reserves the right to accept or reject any and all bids, to waive irregularities and to make the award in any manner deemed to be in their best interest.

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One (1)

Y ___ N ___

NFPA REQUIRED ITEMS

The purchaser shall be responsible for providing all equipment items required by NFPA pamphlet 1901 that are not otherwise indicated or addressed in these specifications.

One (1)

Y ___ N ___

APPARATUS WARRANTY - ONE YEAR

The completed apparatus shall be warranted to be free from defects in workmanship and materials under normal use and service for a period of one (1) year from the date of delivery to the Fire Department. This warranty shall cover the costs for parts and labor for this period of time.

One (1)

Y ___ N ___

SUPERSTRUCTURE AND BODY WARRANTY - FIFTEEN YEARS

The manufacturer shall warrant to the original purchaser that the extruded aluminum apparatus superstructure and body is structurally sound and free of all structural defects of workmanship and material and further warrants that it will maintain its structural integrity for fifteen (15) years. This warranty shall not pertain to issues of paint finish, hardware, moldings or accessories. The warranty shall terminate upon transfer of possession or ownership by the original purchaser.

One (1)

Y ___ N ___

PAINT WARRANTY - FIVE YEARS

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

The areas as outlined on the Guarantee Certificate will be covered for the following paint failures:

GUARANTEE INCLUSIONS:

FULL APPARATUS BODY MANUFACTURED AND PAINTED BY THE MANUFACTURER:

* Peeling or de lamination of the topcoat and/or other layers of paint.

* Cracking or checking.

* Loss of gloss caused by cracking, checking, or hazing.

* Any paint failure caused by defective finishes which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.

The paint warranty is a full term (non-prorated) warranty.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y__N__

POLYPROPYLENE TANK WARRANTY - LIFETIME

The water tank manufacturer shall warrant the Booster/Foam tank to be free from manufacturing defects in material and workmanship for the service life of the vehicle. The tank must be installed in accordance with tank manufacturer's installation recommendations.

A copy of the tank manufacturer's warranty, including terms and limitations will be provided upon delivery of the completed apparatus.

One (1)

Y__N__

FIRE PUMP WARRANTY - FIVE YEARS

The fire pump shall carry the pump manufacturer's five (5) year warranty covering defective parts and workmanship. A copy of the pump manufacturer's warranty policy shall be provided with the completed apparatus. The warranty shall cover parts for five (5) years and labor for two (2) years.

One (1)

Y__N__

STAINLESS PLUMBING WARRANTY - TEN YEARS

The manufacturer warrants to the original purchaser all stainless steel plumbing components installed by them and used in the construction of the apparatus water / foam plumbing systems against defects in workmanship and materials for a period of ten (10) years from delivery.

One (1)

Y__N__

CHASSIS WARRANTY - ONE YEAR

The chassis manufacturer shall provide a limited parts and labor warranty to the original purchaser of the commercial built cab and chassis for a period of twelve (12) months. The warranty period shall commence on the date the vehicle is delivered to the end user. The warranty shall include conditional items listed in the detailed warranty document which shall be provided upon request.

One (1)

Y__N__

ENGINE WARRANTY - FIVE YEARS

The Cummins engine shall be warranted for a period of five (5) years or 100,000 miles, whichever occurs first

One (1)

Y__N__

TRANSMISSION WARRANTY - FIVE YEARS

The Allison EVS series transmission shall be warranted for a period of five (5) years with unlimited mileage. Parts and labor shall be included in the warranty.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y__N__

CONSTRUCTION DRAWINGS

A basic drawing will be included with the proposal. Upon award a fully detailed drawing will be supplied to the Fire Department. The drawing shall be signed and returned to the manufacturer and kept on file for future reference.

One (1)

Y__N__

PRECONSTRUCTION CONFERENCE

The prime contractor will have a Pre-Construction Conference prior to any manufacturing. The purpose of meeting is to finalize all construction details. The location shall be at the manufacturing facility. All expenses for transportation, lodging and meals are paid for by the bidder. Trips in excess of 250 miles each way will be made by commercial air. The selling dealer and/or representative will be present at the preconstruction conference.

One (1)

Y__N__

INSPECTION TRIPS

Three (3) inspection trips for **four (4)** customer personnel will be arranged with all expense for transportation and meals paid for by the manufacturer. Trips in excess of 250 miles each way will be made by commercial air.

Timing of the trips shall be coordinated between the customer and selling dealer.

One (1)

Y__N__

DELIVERY

The completed apparatus will be delivered under it's own power to the customer's designated location. A factory delivery technician will accompany the apparatus.

Training will be provided by an authorized representative of the manufacturer as prescribed by the customer.

Training manuals specifically designed to use for this apparatus will be provided.

One (1)

Y__N__

SEATING CAPACITY PLATE

A permanent plate indicating seat belt use and occupancy shall be installed in a visible location.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

HELMET WARNING PLATE

Y__N__

A permanent plate stating "DO NOT WEAR HELMET" shall be installed in a visible location.

One (1)

FLUID CAPACITY PLATE

Y__N__

A permanent plate listing all fluids and capacities shall be installed in a visible location.

One (1)

OVERALL HEIGHT PLATE

Y__N__

A plate indicating overall height shall be installed in a location visible to driver.

One (1)

TAILBOARD PLATE

Y__N__

A permanent plate shall be installed at the rear indicating "DO NOT RIDE ON REAR STEP".

CHASSIS SPECIFICATIONS

Vehicle Configuration

M2 106 CONVENTIONAL CHASSIS
2016 MODEL YEAR SPECIFIED
SET BACK AXLE - TRUCK
STRAIGHT TRUCK PROVISION
LH PRIMARY STEERING LOCATION

General Service

TRUCK CONFIGURATION
DOMICILED, USA (EXCLUDING CALIFORNIA AND
CARB OPT-IN STATES)
FIRE SERVICE
EMERGENCY VEHICLES BUSINESS SEGMENT
LIQUID BULK COMMODITY
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN
TRANSIT, IS SPENT ON PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
SMOOTH CONCRETE OR ASPHALT PAVEMENT -
MOST SEVERE IN-TRANSIT (BETWEEN SITES)
ROAD SURFACE
MEDIUM TRUCK WARRANTY
EXPECTED FRONT AXLE(S) LOAD : 14000.0 lbs
EXPECTED REAR DRIVE AXLE(S) LOAD : 30000.0
lbs
EXPECTED GROSS VEHICLE WEIGHT CAPACITY :
44000.0 lbs

Truck Service

FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN
SPLIT-SHAFT PTO/PUMP
EXPECTED TRUCK BODY LENGTH :
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE
FRAME "XX" INCHES :

Engine

CUM ISL 350 HP @ 2000 RPM, 2200 GOV RPM,
1000 LB/FT @ 1400 RPM

Electronic Parameters

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

68 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS ROAD
SPEED LIMIT
PTO MODE ENGINE RPM LIMIT - 1100 RPM
PTO RPM WITH CRUISE SET SWITCH - 700 RPM
PTO RPM WITH CRUISE RESUME SWITCH - 800
RPM
PTO MODE CANCEL VEHICLE SPEED - 5 MPH
PTO GOVERNOR RAMP RATE - 250 RPM PER
SECOND
ONE REMOTE PTO SPEED
REMOTE PTO SPEED 1 SETTING - 900 RPM
PTO MINIMUM RPM - 700
REGEN INHIBIT SPEED THRESHOLD - 0 MPH

Engine Equipment

2015 ONBOARD DIAGNOSTICS/2010
EPA/CARB/GHG14
NO 2008 CARB EMISSION CERTIFICATION
STANDARD OIL PAN
ENGINE MOUNTED OIL CHECK AND FILL
ONE PIECE VALVE COVER
SIDE OF HOOD AIR INTAKE WITH NFPA
COMPLIANT EMBER SCREEN AND FIRE
RETARDANT DONALDSON AIR CLEANER
LN 12V 320 AMP 4962PA PAD MOUNT
ALTERNATOR
(2) ALLIANCE MODEL 1231, GROUP 31, 12 VOLT
MAINTENANCE FREE 2250 CCA THREADED STUD
BATTERIES
BATTERY BOX FRAME MOUNTED
STANDARD BATTERY JUMPERS
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE
UNDER CAB
WIRE GROUND RETURN FOR BATTERY CABLES
WITH ADDITIONAL FRAME GROUND RETURN
NON-POLISHED BATTERY BOX COVER
AUXILIARY POWER NET DISTRIBUTION BLOCK
FOR BODY BUILDER USE
POSITIVE LOAD DISCONNECT WITH CAB
MOUNTED CONTROL SWITCH WITH LOCKING
PROVISION MOUNTED OUTBOARD DRIVER SEAT

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

CUMMINS TURBOCHARGED 18.7 CFM AIR
COMPRESSOR WITH INTERNAL SAFETY VALVE
STANDARD MECHANICAL AIR COMPRESSOR
GOVERNOR
AIR COMPRESSOR DISCHARGE LINE
GVG, FIRE AND EMERGENCY SERVICE VEHICLES
ENGINE WARNING
CUMMINS EXHAUST BRAKE INTEGRAL WITH
VARIABLE GEOMETRY TURBO WITH ON/OFF
DASH SWITCH
RH OUTBOARD UNDER STEP MOUNTED
HORIZONTAL AFTERTREATMENT SYSTEM
ASSEMBLY WITH RH HORIZONTAL TAILPIPE
EXITING FORWARD OF REAR TIRES
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC
OVER THE ROAD REGENERATION AND DASH
MOUNTED REGENERATION REQUEST SWITCH
STANDARD EXHAUST SYSTEM LENGTH
RH HORIZONTAL TAILPIPE, EXIT FORWARD OF
REAR TIRES AT 90 DEGREES
6 GALLON DIESEL EXHAUST FLUID TANK
100 PERCENT DIESEL EXHAUST FLUID FILL
LH MEDIUM DUTY STANDARD DIESEL EXHAUST
FLUID TANK LOCATION
STANDARD DIESEL EXHAUST FLUID PUMP
MOUNTING
STANDARD DIESEL EXHAUST FLUID TANK CAP
HORTON DRIVEMASTER ON/OFF FAN DRIVE
AUTOMATIC FAN CONTROL WITH DASH SWITCH
AND INDICATOR LIGHT, NON ENGINE MOUNTED
CUMMINS SPIN ON FUEL FILTER
COMBINATION FULL FLOW/BYPASS OIL FILTER
1100 SQUARE INCH ALUMINUM RADIATOR
ANTIFREEZE TO -34F, ETHYLENE GLYCOL PRE-
CHARGED SCA HEAVY DUTY COOLANT
GATES BLUE STRIPE COOLANT HOSES OR
EQUIVALENT
CONSTANT TENSION HOSE CLAMPS FOR
COOLANT HOSES
AUXILIARY ENGINE COOLING USING WATER FROM
FIRE PUMP

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

LOWER RADIATOR GUARD
ALUMINUM FLYWHEEL HOUSING
ELECTRIC GRID AIR INTAKE WARMER
DELCO 12V 38MT HD STARTER WITH INTEGRATED
MAGNETIC SWITCH

Transmission

ALLISON 3000 EVS AUTOMATIC TRANSMISSION
WITH PTO PROVISION

Transmission Equipment

ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE
ON 3000/4000 PRODUCT FAMILIES WITH
VOCATIONAL MODEL EVS

ALLISON VOCATIONAL RATING FOR FIRE
TRUCK/EMERGENCY VEHICLE APPLICATIONS
AVAILABLE WITH ALL PRODUCT FAMILIES

PRIMARY MODE GEARS, LOWEST GEAR 1, START
GEAR 1, HIGHEST GEAR 6, AVAILABLE FOR
3000/4000 PRODUCT FAMILIES ONLY

SECONDARY MODE GEARS, LOWEST GEAR 1,
START GEAR 1, HIGHEST GEAR 5, AVAILABLE FOR
3000/4000 PRODUCT FAMILIES ONLY

VEHICLE INTERFACE WIRING WITH BODY BUILDER
CONNECTOR MOUNTED END OF FRAME, NO
BLUNT CUTS

ELECTRONIC TRANSMISSION CUSTOMER ACCESS
CONNECTOR FIREWALL MOUNTED

CUSTOMER INSTALLED CHELSEA 277 SERIES PTO
PTO MOUNTING, LH SIDE OF MAIN
TRANSMISSION

MAGNETIC PLUGS, ENGINE DRAIN,
TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN

PUSH BUTTON ELECTRONIC SHIFT CONTROL
DASH MOUNTED IN RG PANEL WITH NO
SWITCHES OR GAUGES MOUNTED ABOVE
SHIFTER

TRANSMISSION PROGNOSTICS - ENABLED 2013

WATER TO OIL TRANSMISSION COOLER, IN
RADIATOR END TANK

TRANSMISSION OIL CHECK AND FILL WITH
CROSSOVER TO CLEAR LH PTO AND DIRECT
MOUNT PUMP

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

SYNTHETIC TRANSMISSION FLUID (TES-295
COMPLIANT)

Front Axle and Equipment

DETROIT DA-F-14.7-3 14,700# FF1 71.5 KPI/3.74
DROP SINGLE FRONT AXLE
MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT
BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
FIRE AND EMERGENCY SEVERE SERVICE, NON-
ASBESTOS FRONT LINING
CONMET CAST IRON FRONT BRAKE DRUMS
FRONT BRAKE DUST SHIELDS
SKF SCOTSEAL PLUS XL FRONT OIL SEALS
VENTED FRONT HUB CAPS WITH WINDOW,
CENTER AND SIDE PLUGS - OIL
STANDARD SPINDLE NUTS FOR ALL AXLES
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS
TRW TAS-85 POWER STEERING
POWER STEERING PUMP
2 QUART SEE THROUGH POWER STEERING
RESERVOIR
ORGANIC SAE 80/90 FRONT AXLE LUBE

Front Suspension

14,600# FLAT LEAF FRONT SUSPENSION
GRAPHITE BRONZE BUSHINGS WITH SEALS -
FRONT SUSPENSION
FRONT SHOCK ABSORBERS

Rear Axle and Equipment

RS-30-185 30,000# U-SERIES SINGLE REAR AXLE
6.14 REAR AXLE RATIO
IRON REAR AXLE CARRIER WITH STANDARD AXLE
HOUSING
MXL 17T MERITOR EXTENDED LUBE MAIN
DRIVELINE WITH HALF ROUND YOKES
MERITOR 16.5X7 P CAM REAR BRAKES, DOUBLE
ANCHOR, CAST SHOES
FIRE AND EMERGENCY SEVERE SERVICE NON-
ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE
OF DRIVE AXLE(S)
WEBB CAST IRON REAR BRAKE DRUMS

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

REAR BRAKE DUST SHIELDS
REAR OIL SEALS
HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE
SPRING PARKING CHAMBERS
HALDEX AUTOMATIC REAR SLACK ADJUSTERS
ORGANIC SAE 80/90 REAR AXLE LUBE

Rear Suspension

31,000# FLAT LEAF SPRING REAR SUSPENSION
WITH RADIUS ROD FOR FIRE/EMERGENCY
SERVICE
SPRING SUSPENSION - NO AXLE SPACERS
STANDARD U-BOLT PAD
FORE/AFT CONTROL RODS

Brake System

AIR BRAKE PACKAGE
WABCO 4S/4M ABS WITH TRACTION CONTROL
REINFORCED NYLON, FABRIC BRAID AND WIRE
BRAID CHASSIS AIR LINES
FIBER BRAID PARKING BRAKE HOSE
STANDARD BRAKE SYSTEM VALVES
STANDARD AIR SYSTEM PRESSURE PROTECTION
SYSTEM
STD U.S. FRONT BRAKE VALVE
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO
REAR PROPORTIONING VALVE
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER
AIR DRYER FRAME MOUNTED
STEEL AIR BRAKE RESERVOIRS
CLEAR FRAME RAILS FROM BACK OF CAB TO
FRONT REAR SUSPENSION BRACKET, BOTH
RAILS OUTBOARD
BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER
ON ALL TANK(S)

Trailer Connections

UPGRADED CHASSIS MULTIPLEXING UNIT
UPGRADED BULKHEAD MULTIPLEXING UNIT

Wheelbase & Frame

XXX WHEELBASE

* 11/32X3-1/2X10-15/16 INCH STEEL FRAME
(8.73MMX277.8MM/0.344X10.94 INCH) 120KSI

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

1/4 INCH (6.35MM) C-CHANNEL INNER FRAME
REINFORCEMENT
1700MM (67 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 61 INCH TO 70 INCH
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) :
CALCULATED EFFECTIVE BACK OF CAB TO REAR
SUSPENSION C/L (CA) :
CALC'D FRAME LENGTH - OVERALL :
CALC'D SPACE AVAILABLE FOR DECKPLATE :
CALCULATED FRAME SPACE LH SIDE :
CALCULATED FRAME SPACE RH SIDE :
SQUARE END OF FRAME
FRONT CLOSING CROSSMEMBER
LIGHTWEIGHT HEAVY DUTY ALUMINUM ENGINE
CROSSMEMBER
STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
STANDARD SUSPENSION CROSSMEMBER

Chassis Equipment

THREE-PIECE 14 INCH CHROMED STEEL BUMPER
WITH COLLAPSIBLE ENDS
FRONT TOW HOOKS - FRAME MOUNTED
BUMPER MOUNTING FOR SINGLE LICENSE PLATE
FENDER AND FRONT OF HOOD MOUNTED FRONT
MUDFLAPS
GRADE 8 THREADED HEX HEADED FRAME
FASTENERS

Fuel Tanks

50 GALLON/189 LITER SHORT RECTANGULAR
ALUMINUM FUEL TANK - LH
RECTANGULAR FUEL TANK(S)
PLAIN ALUMINUM/PAINTED STEEL
FUEL/HYDRAULIC TANK(S) WITH PAINTED
BANDS
FUEL TANK(S) FORWARD
PLAIN STEP FINISH
FUEL TANK CAP(S)
ALLIANCE FUEL FILTER/WATER SEPARATOR

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

EQUIFLO INBOARD FUEL SYSTEM
HIGH TEMPERATURE REINFORCED NYLON FUEL
LINE
FUEL COOLER

Tires

GOODYEAR G751 MSA 315/80R22.5 20 PLY
RADIAL FRONT TIRES
GOODYEAR G751 MSA 315/80R22.5 20 PLY
RADIAL REAR TIRES

Hubs

CONMET PRESET PLUS IRON FRONT HUBS
WEBB IRON REAR HUBS

Wheels

ALCOA 89465X 22.5X9.00 10-HUB PILOT 5.96
INSET ALUMINUM DISC FRONT WHEELS
ALCOA 89465X 22.5X9.00 10-HUB PILOT 5.96
INSET ALUMINUM DISC REAR WHEELS
POLISHED FRONT WHEELS; OUTSIDE ONLY
POLISHED REAR WHEELS; OUTSIDE OF OUTER
WHEELS ONLY
FRONT WHEEL MOUNTING NUTS
REAR WHEEL MOUNTING NUTS

Cab Exterior

106 INCH BBC FLAT ROOF ALUMINUM
CONVENTIONAL CAB
AIR CAB MOUNTS
CAB ROOF REINFORCEMENTS FOR ROOF
MOUNTED COMPONENTS
NONREMOVABLE BUGSCREEN MOUNTED BEHIND
GRILLE
LH AND RH EXTERIOR GRAB HANDLES WITH
SINGLE RUBBER INSERT
HOOD MOUNTED CHROMED PLASTIC GRILLE
CHROME HOOD MOUNTED AIR INTAKE GRILLE
FIBERGLASS HOOD
DUAL 25 INCH ROUND STUTTER TONE HOOD
MOUNTED AIR HORNS WITH DUAL LANYARDS
SINGLE ELECTRIC HORN
DUAL HORN SHIELDS

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME

REAR LICENSE PLATE MOUNT END OF FRAME

INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL

LED AERODYNAMIC MARKER LIGHTS

OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TURN WIRES TO 4 FEET BEYOND END OF FRAME

STANDARD FRONT TURN SIGNAL LAMPS

DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE

DOOR MOUNTED MIRRORS

102 INCH EQUIPMENT WIDTH

LH AND RH 8" BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS

STANDARD SIDE/REAR REFLECTORS

ELECTRIC HORN WARNING SYSTEM FOR PARK BRAKE NOT SET WITH DOOR OPEN AND ALL IGNITION KEY POSITIONS

63X14 INCH TINTED REAR WINDOW

TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS

MANUAL DOOR WINDOW REGULATORS

TINTED WINDSHIELD

2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, FRAME MOUNTED

Cab Interior

OPAL GRAY VINYL INTERIOR

MOLDED PLASTIC DOOR PANEL

MOLDED PLASTIC DOOR PANEL

BLACK MATS WITH SINGLE INSULATION

DASH MOUNTED ASH TRAYS AND LIGHTER

FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS WITHOUT NETTING

IN DASH STORAGE BIN

(2) CUP HOLDERS LH AND RH DASH

GRAY/CHARCOAL FLAT DASH

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

SMART SWITCH EXPANSION MODULE
HEATER, DEFROSTER AND AIR CONDITIONER
STANDARD HVAC DUCTING
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH
STANDARD HEATER PLUMBING
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR
BINARY CONTROL, R-134A
STANDARD INSULATION
SOLID-STATE CIRCUIT PROTECTION AND FUSES
12V NEGATIVE GROUND ELECTRICAL SYSTEM
DOME DOOR ACTIVATED LH AND RH, DUAL READING LIGHTS, FORWARD CAB ROOF
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT WITH NFPA 1901-2009 COMPLIANT SEAT SENSOR
SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION PASSENGER SEAT WITH NFPA 1901-2009 COMPLIANT SEAT SENSOR
LH AND RH INTEGRAL DOOR PANEL ARMRESTS
GRAY VINYL DRIVER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST
GRAY VINYL FRONT PASSENGER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND HEADREST
3 POINT HIGH VISIBILITY ORANGE RETRACTOR DRIVER AND RH FRONT PASSENGER SEAT BELTS WITH NFPA 1901-2009 COMPLIANT SENSOR AND DASH HARNESS
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN
4-SPOKE 18 INCH (450MM) STEERING WHEEL
DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments & Controls

GRAY DRIVER INSTRUMENT PANEL
GRAY CENTER INSTRUMENT PANEL
BLACK GAUGE BEZELS
LOW AIR PRESSURE LIGHT AND BUZZER

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES

INTAKE MOUNTED AIR RESTRICTION INDICATOR WITHOUT GRADUATIONS

97 DB BACKUP ALARM

ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL

IGNITION SWITCH WITH NON REMOVABLE KEY

ICU3S, 132X48 DISPLAY WITH DIAGNOSTICS, 28 LED WARNING LAMPS AND DATA LINKED

DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH

2 INCH ELECTRIC FUEL GAUGE

PROGRAMMABLE RPM CONTROL - ELECTRONIC ENGINE

ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE

2 INCH TRANSMISSION OIL TEMPERATURE GAUGE

ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY

CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS

ENHANCED STABILITY CONTROL

ELECTRIC ENGINE OIL PRESSURE GAUGE

OVERHEAD INSTRUMENT PANEL

POWER AND GROUND WIRING PROVISION

ROOF/OVERHEAD CONSOLE CB RADIO PROVISION

ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER

STANDARD VEHICLE SPEED SENSOR

ELECTRONIC 3000 RPM TACHOMETER

NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY

IGNITION SWITCH CONTROLLED ENGINE STOP

(2) OVERHEAD MOUNTED LANYARD CONTROLS:
(1) OFFICER AIR HORN AND (1) DRIVER AIR HORN

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

MARKER LIGHT SWITCH INTEGRAL WITH
HEADLIGHT SWITCH

ALTERNATING FLASHING LOW BEAM HEADLAMPS
WITH DASH SWITCH, WITH PARK BRAKE
RELEASED

ONE VALVE PARKING BRAKE SYSTEM WITH
WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH
DIMMER, WASHER/WIPER AND HAZARD IN
HANDLE

INTEGRAL ELECTRONIC TURN SIGNAL FLASHER
WITH HAZARD LAMPS OVERRIDING STOP LAMPS

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: CUSTOMER CHOICE

BLACK, HIGH SOLIDS POLYURETHANE CHASSIS
PAINT

ADDITIONAL CHASSIS MODIFICATIONS

One (1)

CHASSIS SETUP

The chassis shall have adjustments made to insure the proper configuration for accepting pumps and/or bodies. This shall include the repositioning air tanks, frame cross members and miscellaneous adjustments.

Y__N__

One (1)

EXHAUST MODIFICATION

The chassis exhaust pipe and muffler shall be extended to the front of the right rear wheel and shall be pointed downward. Any heat shields required to protect body and/or compartments from heat shall be installed.

Y__N__

One (1)

CHASSIS TRIM PACKAGE

The following accessories will be covered with 1/8" (.125) diamond plate aluminum covers, attached so as to be easily removed for service or replacement

- (1) Fuel tank with step provision
- (2) Chassis step
- (3) Rear of chassis cab
- (4) Battery Box

NOTE: ANY STEP SURFACE SHALL BE COMPLIANT WITH THE LATEST NFPA STANDARD.

Y__N__

One (1)

WHEEL TRIM PACKAGE

Chrome plated or stainless steel hub and nut covers will be provided and installed on all exterior wheels. The trim will consist of:

- Individual nut covers "acorn" style
- Front hub covers, open center
- "Top Hat" style rear axle covers

Y__N__

One (1)

TIRE PRESSURE MONITORING SYSTEM:

A six (6) wheel tire monitoring system shall be installed on the chassis. An electronic valve cap shall be installed on each tire valve stem. The valve cap includes a wireless RF transmitter that sends data to a dash display. The dash display will show graphically with red LED which tire is losing air pressure. A warning buzzer is also part of the display.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

BATTERY CONDITIONER

Y__N__

A Pro-Power PRO-1 single battery conditioner will be installed in a dry, protected area of the apparatus. The maximum output will be 15 amperes, supplied as required to the battery system. When fully charged, the conditioner will shut down.

- The conditioner will be wired to the 120-V shore power inlet.

One (1)

120-V AUXILIARY AIR PUMP

Y__N__

There shall be one (1) KUSSMAUL 110-volt air compressor mounted on the apparatus to maintain the chassis air brake system. The unit shall be provided with a 110-volt male receptacle and be located as directed. The compressor shall have a pressure switch that will automatically activate the compressor, when low pressure occurs and turn off when the correct pressure is reached.

One (1)

SHORE POWER RECEPTACLE

Y__N__

A KUSSMAUL 20-amp super auto-eject type receptacle shall be provided. This receptacle shall eject the male shore line from the apparatus when the engine starter switch is energized. The receptacle will be provided with a weather-proof cover. A 35' electrical cord with appropriate ends shall be provided. Location shall be as directed.

One (1)

CONSOLE / STORAGE BOX

Y__N__

An aluminum box will be installed between the driver and officer seats of the commercial chassis. The bottom portion will be removable for access to the apparatus wiring block.

The apparatus switch box will be installed at an angle on the front portion of the box. The electronic siren and microphone will be installed vertically ahead of the switch panel.

PUMP AND BODY SPECIFICATIONS

One (1)

Y__N__

PUMP OPERATOR'S PANEL - SIDE MOUNT

The operator's control panel shall be located on the left side L1 compartment of the apparatus. The panel will be constructed from brushed stainless steel. The upper portion of the panel will include the engine function and auxiliary gauges, gauge test panel, pump governor, discharge gauges for secondary discharge lines.

The lower portion of the left panel will include all side discharge ports, gauges and drains, pony suction and main suction inlets, primer control and tank to pump lines.

PUMP PANEL LAYOUT

All discharge valves, 1-1/2" and larger controlled at the operator's control panel shall have corresponding pressure gauges. Gauges shall be 2-1/2" in diameter, 0-400 PSI graduated, silicone filled.

One (1)

Y__N__

LEFT PUMP PANEL LIGHT

The left pump panel shall be lit with two LED strip light manufactured by Whelen. Each strip light shall include six (6) super LED lamps, be one foot wide and be mounted under a formed aluminum light shield.

One (1)

Y__N__

RUNNINGBOARD COMPARTMENTS (2)

Two (2) compartments will be provided in the runningboards below the suction inlet. The compartments will be constructed from aluminum plate.

Drains and Dri-Deck material will be provided in the bottom of each compartment.

A hinged diamondplate cover will be installed.

One (1)

Y__N__

DRI-DECK MATTING - RUNNINGBOARD HOSE TRAY

The surface of one (1) upper body storage compartment floor shall be covered with black Dri-Deck mat.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y__N__

HALE AP PTO PUMP 750 GPM

The manufacturer will provide a HALE MBP-750 PTO driven water pump. The pump will come complete with suction and discharge manifolds and a discharge relief valve. A tank to pump check valve will be installed as is appropriate.

The pump will be a single stage centrifugal unit with heavy duty fine grain cast iron volute and head, the metal to have a 30,000 PSI tensile strength.

The impeller will be bronze enclosed, hand ground and balanced for maximum efficiency. The clearance rings will be replaceable bronze. The stainless steel shaft will be heat treated and have a positive impeller lock. The shaft seal will be a long life, maintenance free self adjusting mechanical type.

The gearbox will be positive gear drive for low maintenance, high quality heat treated steel gears, spur cut design. Bearings will be heavy duty precision ground for maximum performance and long life. The housing will be constructed from fine grain cast iron, 30,000 PSI tensile strength.

One (1)

Y__N__

COLOR CODED PANEL

All panel marker plates shall be color coded.

One (1)

Y__N__

UL TEST PLUGS

Two U.L. test plugs shall be pump panel mounted for UL testing of vacuum and pressures.

One (1)

Y__N__

UL TEST - 750 GPM

The pump will meet and perform the following test to receive a U.L. certification.

- 100% of rated capacity at 150 PSI net pump pressure.
- 100% of rated capacity at 165 PSI net pump pressure.
- 75% of rated capacity at 200 PSI net pump pressure.
- 50% of rated capacity at 250 PSI net pump pressure.

One (1)

Y__N__

ENGINE COOLER

An engine cooler shall be installed inline with the discharge side of the pump. Coolant inlet and outlet shall be continuous, preventing intermixing of engine coolant and pump water.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

PUMP COOLER

A pump cooler recirculating line and valve shall be installed. It shall be connected to the discharge side of pump to a valve located on pump panel and back to inlet side of pump.

Y__N__

One (1)

STAINLESS PLUMBING

All plumbing shall be either Stainless Steel or high pressure hose with crimped stainless steel fittings. Any manifolds shall be stainless steel. All valves shall be bronze or stainless steel unless other specified.

Y__N__

One (1)

LEFT PONY SUCTION

A 2-1/2" suction valve shall be installed on the left pump panel with the valve body mounted behind the pump panel. Valve shall be plumbed to the suction side of pump with stainless steel piping. The control handle shall be the quarter turn ball lock type, of the fixed pivot design, and located along side the suction valve. The suction valve shall come equipped with a chrome plug, chain, brass inlet strainer and a 2-1/2" NST chrome inlet swivel.

Y__N__

One (1)

LEFT STEAMER INLET

A 5" suction will be provided and mounted on left side pump panel. The inlet will have a chrome cap with long handles.

Y__N__

One (1)

AKRON VALVES

All suction and discharge valves, including tank to pump lines, will be AKRON brand.

Y__N__

One (1)

TRIDENT AIR PRIMER

The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multi stage venture based AirPrime System. All wetted metallic parts of the priming system are to be of brass and stainless steel construction. A single panel mounted control shall activate the priming pump and open the priming valve to the pump. The primer shall carry a five (5) year manufacturers warranty.

Y__N__

One (1)

PUMP AND ROLL CAPABLE

Pump shall capable of pump and roll style pumping.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

PUMP HEAT PAN

There shall be one (1) heat pan installed under the pump. The exhaust pipe shall run through it to keep the pump warm in the winter. There shall be a panel that is removable for summer use. The pan shall be made from aluminum plate.

Y ___ N ___

One (1)

PUMPHOUSE HEATER

A pump house heater will be installed behind the pump panel. It will provide warm air flow via forced air, fed from the vehicle cooling system. A fan motor will be installed, switched from the pump panel.

Two valves will be provided in the lines to allow the system to be shut off during warm weather operations.

Y ___ N ___

One (1)

PUMP SHIFT

A power shift shall be installed in a convenient location to engage fire pump. Two indicator lights located next to the pump shift controls shall be installed. One shall indicate that the pump shift has been successfully completed. The other will indicate that the pump is engaged, the chassis transmission is in pump gear, and the parking brake is engaged.

A "Throttle Ready" indicator light shall be provided at the pump operator's panel that indicates the apparatus is in "OK to Pump" mode.

Y ___ N ___

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y ___ N ___

PRESSURE GOVERNOR

Apparatus shall be equipped with a Class1 "Total Pressure Governor Plus" (TPG+) that is connected to the Engine Control Module (ECM) mounted on the engine. The "TPG+" will operate as a pressure sensor (regulating) governor (PSG) utilizing the engines J1939 data for optimal resolution and response when supported by the engine manufacturer. If J-1939 engine control is not supported, then analog remote throttle control shall be provided by the "TPG+". The "TPG+" shall function as a Master Pump Discharge and Intake Gauge.

The TPG+ shall utilize control algorithms that minimize pressure spikes during low or erratic water supply situations. The "TPG+" shall be backwards compatible to any engine that supplies J1939 RPM, Temperature and Oil Pressure information providing the ability to maintain a consistent fleet fire-fighting capability and reduce operator cross training and confusion.

The "TPG+" shall have the ability to use either a 300 PSI or a 600 PSI discharge pressure transducer and a 300 PSI intake pressure transducer. PSG system diagnostics shall be built in and accessible by technicians. Programmable presets for RPM and Pressure settings shall be easily configurable. The straightforward menu structure shall allow the "TPG+" configuration to match existing apparatus operation as closely as possible.

The "TPG+" shall also include indication of engine RPM, system voltage, engine oil pressure and engine /transmission temperature with audible alarm output for all. The "TPG+" uses the J1939 data bus for engine information, requiring no additional sensors to be installed. The TPG+ shall monitor and display pump and engine hours. The "TPG+" shall use J1939 broadcast warnings for the alarm as a standard and allow the "user" to select warning values if "SOPs" dictate.

One (1)

Y ___ N ___

TANK TO PUMP

The tank to pump valve shall be a 3" inline, installed between the water tank and the pump. The valve shall be a quarter turn ball type, fixed pivot design. The control shall be with electric, with control switch installed on the pump panel.

One (1)

Y ___ N ___

MASTER PUMP DRAIN

The master drain shall have the capacity to drain all lines and main pump at the same time. The master drain will be mounted on the pump panel and will be readily accessible.

One (1)

Y ___ N ___

LINE DRAINS

All suction and discharge lines (1-1/2" and larger) shall have a (Lift Handle) lever action quarter turn drain valve installed. Each drain valve shall be arranged adjacent to the valve or in a convenient location on the left and/or right pump panel. Remote drain lines will be clearly marked with color coded tags.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

INTAKE RELIEF VALVE

A Class 1 stainless steel suction relief valve will be installed on the suction port of the main fire pump. The valve will be adjustable from 75-250 PSI. The valve will terminate at a 2-1/2" NST-M flange; a cap will be available for emergency use.

Y__N__

One (1)

PUMP TO TANK LINE

There shall be a 2" pump to tank fill line installed with a 2" inline valve. Valve shall be controlled from the pump panel with a quarter turn locking handle.

Y__N__

One (1)

STEAMER INLET CAP

A 5" steamer inlet cap will be provided. Cap shall be chrome with long handles.

Y__N__

One (1)

MAIN INTAKE VALVE - ELECTRIC

An electric butterfly valve with built-in pressure relief valve, manual override hand wheel and air bleeder system, shall be installed on the main suction tube of the midship pump. This valve shall be installed behind the pump panel. The electric controls shall be located on the pump panel.

Y__N__

One (1)

LEFT 2-1/2" DISCHARGES (2)

Two (2) 2-1/2" discharges shall be located on the left side panel. The valves shall be a quarter turn ball type and fixed pivot design to allow easy operation at all pump pressures, and operated from the panel. The threads on the valves shall be 2-1/2" NST. A reducer to 1-1/2" with cap and chain shall also be supplied with each discharge. Each discharge shall come equipped with a 3/4" drain valve.

Y__N__

One (1)

1-3/4" HOSEBED PRECONNECTS (2)

There shall be two (2) 1-3/4" preconnects that discharge from the front of the apparatus hose bed. Each preconnect shall be controlled by a 2" quarter turn ball type inline valve with handle located on the pump panel.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y__N__

NEWTON DUMP W/ SWIVEL

A stainless steel 10" Newton dump valve will be provided with the apparatus. The assembly will swivel manually 180-degrees and "lock" in position. The valve will be electrically actuated with control from the rear of the apparatus or the cab. The swivel and extension operations will be manual. Additional manual override dump system shall be provide.

The unit will consist of the following:

Model 1070 10" Stainless Newton Dump valve

Model 6000-SW-34 Stainless Swivel

Model 4036-34-EXT Stainless extension

One (1)

Y__N__

DUMP VALVE FLANGE

A dump valve flange and sump shall be installed in the water tank. The sump shall bring the center of the dump valve below the bottom of the tank thereby increasing the flow rate.

One (1)

Y__N__

TANK FILL - 2-1/2" FIREMAN'S FRIEND

There shall be a 2-1/2" Fireman's Friend semi-automatic fill valve with 2-1/2" NPT-F fitting installed as directed. The valve is a stainless steel internally mounted check-type fill valve. Inlet adapters are not included with this item.

One (1)

Y__N__

FAST FILL DIFFUSER

A fast fill fitting with a diffuser shall be installed in water tank.

Four (4)

Y__N__

DISCHARGE PRESSURE GAUGE

There shall be one (1) 2-1/2" silicone filled gauge that will have a 316 stainless steel bezel. The gauge shall be a Class One model. The gauge face will be white and have black markings. The gauge will read 0 to 400lb and will be accurate to within 1%. The gauge shall be located on the pump panel and placed in a well lighted position for night apparatus operation.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y ___ N ___

POLYPROPYLENE WATER TANK

The booster tank shall have a capacity of 2000 US gallons.

CONSTRUCTION:

The water tank shall be constructed of 1/2" thick polypropylene or Polyrene sheet stock. This material shall be a non-corrosive thermo plastic.

The booster and/or foam tank shall be of a specific configuration and is so designed to be completely independent of the body and compartments. The tank shall be constructed utilizing latest thermo plastic welding technology. The tank shall undergo extensive testing prior to installation in the truck. In addition, the completed tank shall be water pressure tested. Baffles, both longitudinal and latitudinal shall be interlocking and thermo welded to minimize water surge during travel, enhancing road handling stability. Openings in the baffles shall be positioned to allow water flow to NFPA standards during filling or pumping operations. The tank shall be mounted on hard rubber cushions to isolate the tank from road shock and vibrations. The tank shall be mounted according to manufactures recommendations. The tank shall be completely removable without disturbing or dismounting the apparatus body structure. A lifetime manufacturer's statement of Warranty shall warrant each tank to be free from manufacturing defects in material and workmanship for the service life of the vehicle.

FILL TOWER AND COVER:

The tank shall have a combination vent and manual fill tower. The tower shall be located in the left front corner of the tank unless otherwise specified by the customer. The tower shall have a 1/4" thick removable polypropylene screen and a hinged cover. Inside the fill tower approximately 4" down from the top shall be fastened a combination vent overflow pipe. The vent overflow shall be a minimum of schedule 40 polypropylene pipe with a minimum I. D. of 4" that is designed to run through the tank and shall be piped behind the rear wheels to maximize traction.

SUMP:

There shall be one (1) sump standard per tank. On tanks that require front suction, 3" schedule 40 polypropylene pipe shall be installed that will incorporate a dip tube from the front of the tank to the sump location. The sump shall have a minimum 3" NPT threaded inlet on the bottom for a drain plug. This shall be used as a combination clean out and drain.

OUTLETS:

There will be two (2) standard tank outlets: One for tank to pump suction line which shall be a minimum of 3" NPT coupling; and One for a tank fill line which shall be a minimum of 2" NPT coupling. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank.

One (1)

Y ___ N ___

TANKER VENT

A 6" vent shall be installed in lieu of standard size.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

WATER TANK CERTIFICATION

The tank manufacturer shall supply a certificate indicating tank capacity and it shall be included with apparatus.

Y__N__

One (1)

TANK CLEANOUT PLUG

There shall be a 3" diameter threaded plug located in the bottom of the booster tank sump to give access for cleaning purposes.

Y__N__

One (1)

WATER TANK LEVEL GAUGE PUMP PANEL

A Class 1 water tank level bar-graph display shall be installed on the pump panel. A single transducer will be installed in the water tank. A built-in calibration system allows this unit to be used with any tank configuration or material. A 10 foot harness is standard.

Y__N__

One (1)

WATER TANK LEVEL GAUGE BODY

A Whelen PSTANK water level LED strip light shall be installed as directed. The light has four LED panels of different colors and operates off the master water level gauge.

Location: Rear

Y__N__

One (1)

WATER TANK LEVEL GAUGE – CAB CONSOLE

An additional LED tank level gauge shall be provided and installed in the cab console.

Y__N__

One (1)

Y ___ N ___

EXTRUDED ALUMINUM BODY SUPERSTRUCTURE

The body subframe is to be entirely welded, constructed of 6061-T6 extruded aluminum tubing with **minimum** dimensions of 3"x3"x3/8", 2"x3"x1/4" and 1"x3" solid. All vertical components are to be reinforced to the substructure with 2"x3"x1/4" 6061-T6 TUBULAR gussets at strategic points to assure structural integrity.

The body sides are to be constructed from 2"x3"x1/4" 6061-T6 structural aluminum tubing welded to form a continuous support matrix for the hose body and compartments. All compartments are to be framed with the interior components welded along perimeter and along each side for additional support.

The tank cradle will be designed to support the bottom of the water tank to prevent movement and structural damage when the unit is loaded and under motion. Reinforced rubber pads with a 60# rating will be installed in the cradle and at the corner angles to cushion the tank; no mechanical attaching devices will protrude through the rubber.

An 21" independent rear tailboard step will be provided. The tailboard shall be fastened so that it can be easily removed for replacement. The step will be constructed from 1-1/2" extruded aluminum. Extrusion shall have a non-slip surface with punched holes. Tailboard shall be supported by heavy angles welded to the bottom side of body supports.

Running boards are to be constructed from 2" x 3" extruded aluminum. Extrusion shall be overlaid with NFPA compliant diamondplate aluminum. Extrusion shall be supported by heavy angles.

Fender liners will be independent from the compartment sides to provide maximum corrosion and impact protection. Aluminum fenderettes are to be easily removable.

The apparatus body shall be entirely independent from the chassis frame. It is to be attached to the frame over 1/2" x 3" 60# rubber pads running the full length of body and fastened by 3/4" steel U-bolts with 3/4" plates, lock washers and steel nuts. The unit is to be designed so as to be removable from the chassis in the event of future chassis replacement.

**HARD-BOLTED BODY ASSEMBLIES WILL NOT BE ACCEPTABLE
GALVANIZED OR STEEL SUPERSTRUCTURES WILL NOT BE ACCEPTABLE**

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y ___ N ___

EXTRUDED ALUMINUM APPARATUS BODY

The apparatus body is to be constructed from 3/16" aluminum alloy. Lower compartment floors, are to be fitted with hat section supports to allow for loading of heavy equipment. Body width shall be 96" wide, with body sides extending up to hose bed height. Tank shall be full width and shall be mounted inside body cavity. Side walls are to be 3/16" aluminum sheet for additional support.

All compartment doors, are to be ROM roll-up Doors

LEFT SIDE:

The pumphouse compartment will be on the left side of the body with a roll up door. The compartment shall be approximately 88" wide x 63" high x 12" deep. The compartment will be lighted and vented.

RIGHT SIDE

There shall be One (1) compartments on the right side of the body with roll-up doors. The compartments shall be approximately 88" wide x 31" high x 26" deep. The compartment will be lighted and vented.

REAR

The rear side and rear will house dump valves and accessories.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

L1 COMPARTMENT

The following is a description of items included with the compartment.

One (1)

Y__N__

ROLL UP DOOR - BRUSHED

Robinson Shutter (ROM Corp) roll-up door will be installed in this compartment. The shutters will be constructed from extruded aluminum with a brushed finish. Internally sealed for weather resistance and quiet operation. Rubber seals will be installed on the vertical components. The door will close/lock with a combination handle/locking bar on the exterior at the bottom.

The door will roll-up in the top of the compartment to allow for maximum use of the compartment interior.

Lighting will be located on the vertical compartment walls for maximum effectiveness.

One (1)

Y__N__

ADJUSTABLE SHELF TRACK

There shall be aluminum tracking installed in one (1) compartment to accommodate the installation of adjustable shelves. The tracks shall be installed vertically on the walls of the compartment.

One (1)

Y__N__

ADJUSTABLE SHELF

There shall be an adjustable shelf made from 3/16" aluminum with 1-1/2" sides provided and installed. The shelf shall be hat section reinforced for additional strength. Adjustment nuts are to be secured with hex-head stainless steel bolts. The shelf shall be located as directed by the customer.

One (1)

Y__N__

LED COMPARTMENT LIGHTS

Two (2) extruded aluminum LED strip lights with a clear Lexan cover shall be installed in the compartment. Strip lights shall be installed in a vertical position next to the door tracks.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

R1 COMPARTMENT

The following is a description of items included with the compartment.

One (1)

Y ___ N ___

ROLL UP DOOR - BRUSHED

Robinson Shutter (ROM Corp) roll-up door will be installed in this compartment. The shutters will be constructed from extruded aluminum with a brushed finish. Internally sealed for weather resistance and quiet operation. Rubber seals will be installed on the vertical components. The door will close/lock with a combination handle/locking bar on the exterior at the bottom.

The door will roll-up in the top of the compartment to allow for maximum use of the compartment interior.

Lighting will be located on the vertical compartment walls for maximum effectiveness.

One (1)

Y ___ N ___

ADJUSTABLE SHELF TRACK

There shall be aluminum tracking installed in one (1) compartment to accommodate the installation of adjustable shelves. The tracks shall be installed vertically on the walls of the compartment.

One (1)

Y ___ N ___

LED COMPARTMENT LIGHTS

Two (2) extruded aluminum LED strip lights with a clear Lexan cover shall be installed in the compartment. Strip lights shall be installed in a vertical position next to the door tracks.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

DIAMOND PLATE COMPARTMENT INTERIORS

Y__N__

All exterior compartments of the pumper/rescue apparatus will be constructed from fire apparatus quality 3/16" aluminum diamond plate material. Floor shall have a reinforcement piece attached to bottom side for additional support. All seams will be welded and sealed from weather and dust.

One (1)

BODY TRIM PACKAGE

Y__N__

Body trim shall include the following:

Extruded aluminum drip rail shall be located over the compartment doors.

Rubrails will run the full length and width of the apparatus compartments and will be constructed from 1" x 1-1/2" Copolymer polypropylene. The rails will be held approximately 1/2" from the main body. The rails will extend away from the body to protect the door hardware from damage. They will be easily removable for replacement should it become necessary.

One (1)

BODY FACE PACKAGE

Y__N__

The front face of the apparatus body will be trimmed with 1/8" polished diamond plate aluminum. The rear face of the body will be trimmed with 1/8" smooth plate aluminum to allow easy application of chevron material. Body support extrusions will be drilled and tapped for application of stainless steel fasteners to hold the panels in place. The panels are to be easily removable for service.

One (1)

REAR WHEELWELL TRIM

Y__N__

The area around the rear wheel openings shall be constructed from aluminum diamond plate.

One (1)

RUBBER FENDERETTES

Y__N__

Rubber fenderettes shall be installed on the rear wheelwells. They shall be bolted so as to be easily removable for service and/or replacement.

One (1)

FRONT MUDFLAPS

Y__N__

Mud flaps shall be made from black hard rubber and shall be installed on cab front fenders.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

REAR MUDFLAPS

Mud flaps shall be installed made from hard black rubber and shall be installed behind rear wheels.

Y__N__

One (1)

HOSEBED COVER

A hose bed cover shall be provided that will be 16 oz. heavy duty criss-crossed reinforced nylon. Cover shall be fire retardant vinyl and installed over hose bed. The cover shall have bungee straps along the sides and on the front edge. The end of the hose bed cover shall be weighted and cover hose bed opening.

The hosebed cover shall be red.

Y__N__

One (1)

SCBA BOTTLE STORAGE

There shall be two (2) double-tube SCBA bottle compartments located in the rear wheel well area. Each compartment shall have two (2) eight inch diameter poly tubes for air bottle storage. The tubes shall be supported at the front with a molded flange and at the rear with a metal strap. A gasketed stainless steel hinged door shall be installed on each compartment with a positive latch.

Y__N__

One (1)

GROUND LADDER STORAGE

The apparatus shall be equipped with a ground ladder storage compartment configured in the center of the hosebed. Compartment will be constructed of polypropylene and will have an open top to allow for easy ladder storage and removal. Storage shall accommodate ladders included in this request.

Ladder storage shall be running from the front to the rear.

Y__N__

One (1)

SUCTION HOSE STORAGE

The apparatus shall be equipped with a suction hose storage compartment configured in the hosebed on either side of the ladder storage.(One each side) Each hose storage storage compartment shall be constructed from polypropylene. Each compartment will accommodate one (1) length of 5" x 10' hard suction hose.

Suction hose storage shall be running from the front to the rear.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

PORTABLE TANK STORAGE RACK

A Zico Quic-lift portable tank system shall be installed over low side compartments. System consists of two cast aluminum brackets with electric actuators, one mounted on each end of shelf. Control shall be located in a convenient location as directed.

Y__N__

One (1)

PORTABLE TANK STORAGE RACK COVER

An aluminum cover for the folding tank shall be installed with the Zico folding tank lowering mechanism. The entire cover shall be covered with an United States of America flag decal.

Y__N__

One (1)

PIKE POLE STORAGE

The pike poles shall be stored in tubes fabricated into hard suction storage.

Y__N__

One (1)

LIGHTED FOLDING STEPS - REAR

There shall be eight (8) cast folding steps mounted as required on the rear of the apparatus. The steps will be NFPA compliant. Each step shall include an LED light to light up the top of the step and another LED light to light up the area below the step. The lights will be activated with the parking brake.

Y__N__

One (1)

REAR BODY HANDRAILS

There shall be two (2) 30" long handrails manufactured from 1-1/4" diameter extruded aluminum with chrome end stanchions. They shall be mounted vertically at the rear of the apparatus body.

Y__N__

One (1)

REAR BODY HORIZONTAL HANDRAIL

There shall be one (1) 1-1/4" diameter extruded aluminum handrail installed horizontally at the rear of the apparatus. The hand rail will be mounted above the back compartment. The hand rail shall be supported with chrome stanchions.

Y__N__

One (1)

REAR TOW EYES

There shall be two (2) 3/4" thick heavy duty steel tow eyes supplied and securely attached to the rear inside of the frame rails.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y ___ N ___

ALUMINUM BODY PAINT FINISH

Aluminum body exterior shall have no mounted components prior to painting to assure full coverage of metal treatments.

All painted surfaces shall follow the following procedure to insure a lasting finish:

Metal surfaces shall be sanded to remove all burrs and imperfections in aluminum.

Upon the application of the required body fillers and their preparation, the unit shall be primed with a coating designed for corrosion resistance and surface paint adhesion. A sandable primer filler shall then be sprayed on the surface. This primer will be sanded smooth leaving the best surface for top coat. The apparatus body shall be painted with a high luster PPG DelFleet polyurethane paint system.

Any location where aluminum is penetrated after painting shall be treated with a corrosion inhibiting material.

One (1)

Y ___ N ___

TOUCH UP PAINT

A container with touch-up paint shall be provided with each truck. The container shall have a small touch-up brush that is attached to the top of the container.

One (1)

Y ___ N ___

DISSIMILAR METALS

The body and components shall be thoroughly protected against corrosion and/or oxidation caused by contact between dissimilar metals. These areas shall be protected by the use of corrosion resistant primers, gaskets and "ECK" (electrolic corrosion material) or any equivalent material.

One (1)

Y ___ N ___

BODY UNDERCOATING

The inside body cavity and underside of the apparatus body shall be sprayed with a black undercoating sealant that will help prevent rust and corrosion. Material shall contain no asbestos.

One (1)

Y ___ N ___

LETTERING

Lettering will be provided by the manufacturer as follows:

Per customer design
3-1/2" shaded letters / numbers
Forty (40) character allowance
Installation of customer supplied decals

Lettering shall be provided on the cab doors, Scotchlite material shaded in black.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y ___ N ___

NFPA BODY STRIPE

A 4" body stripe of white reflective is to be furnished around the entire apparatus with the exception of the wheel wells, pump panels, grille and rear of the apparatus over the chevron material.

Straight pattern apparatus chassis and body

One (1)

Y ___ N ___

CHEVRON STRIPING

Chevron striping shall be applied to the entire rear wall of the apparatus body. The chevrons shall consist of 6" wide Scotchlite Diamond Grade reflective striping at 45 degree angles from the tailboard in an inverted "V" pattern. The stripes shall alternate red reflective, yellow reflective, red reflective, etc.

One (1)

Y ___ N ___

APPARATUS BODY ELECTRICAL SYSTEM

All electrical equipment installed by the apparatus builder shall conform to current automotive electrical system standards and the latest standards as outlined in NFPA #1901.

All electrical wire installed by the apparatus builder shall be rated to carry 125 percent of the maximum current for which the circuit is protected. A high-temp automotive primary wire that is insulated with chemically cross-linked Polyethylene and withstands prolonged temperatures of up to 350 degrees F. without melting or fusing shall be used. Wire shall be highly resistant to grease, oil, acids, brake fluid and abrasion. Wire shall meet or exceed S.A.E. specifications J1127.

Electrical connections in exposed areas outside of the cab shall be made using heat shrink or weather-proof connections. All connections shall have a corrosion preventative compound applied to them. All weather exposed lights shall have the sockets coated with this same compound.

Wire shall be individually color coded and be labeled every six (6") inches on the insulation. Wiring installed by body builder shall be run in a heat protective loom that is held in place with a rubber coated bracket that is fastened in place with stainless steel screws.

There will be two (2) wire terminal points that will be used as test points and for service. The location of these points will be in the apparatus cab and in an enclosed box recessed into the side wall of a rear compartment. All wire connections shall be protected to promote a lasting, corrosion-free connection. All exterior terminal blocks will be installed in a weather resistant box. All wire harnesses will be easily accessible and replaceable. All wires shall be protected by automatic circuit breakers that will reset.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y__N__

ELECTRICAL SYSTEM MANAGER

The apparatus shall be equipped with a Class 1 Total System Manager automatic load shedding system for performing electrical load management. The manager shall have a minimum of 16 outputs to supply warning and load switching requirements.

The manager shall perform load management, load sequencing, and high and low voltage alarm.

The manager shall have a digital display to indicate system voltage in normal operation mode.

One (1)

Y__N__

CAB MOUNTED SWITCH PANEL

A master switch panel, custom designed for the specified chassis will be provided and mounted in the dash. The face panel will be finished in black vinyl. Backlighting will glow at low intensity with the ignition on and at high intensity when the circuit is activated.

The system will provide switches and circuit breakers for the following:

- Master Warning
- Electronic Siren
- Scene Lights
- Spares

Each switch label will be specifically identified as requested by the customer.

One (1)

Y__N__

12-V NFPA TEST

The following NFPA 9-14 test requirements shall be performed:

- RESERVE CAPACITY TEST
- ALTERNATOR TEST AT IDLE
- ALTERNATOR TEST AT FULL LOAD
- LOW VOLTAGE ALARM TEST

One (1)

Y__N__

CLEARANCE LIGHTS AND REFLECTORS

Clearance lights and reflectors shall be installed to meet current DOT standards and include:

- (2) Red LED marker lights
- (4) Red rectangular reflectors
- (2) Amber rectangular reflectors
- (1) Red LED three-light cluster under the rear step.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

AUXILIARY TURN / RUNNING LIGHT

Two (2) auxiliary amber marker/turn lights shall be mounted just forward of rear axle, in the rear wheel well area. The lights shall be wired into chassis light system.

Y__N__

One (1)

STOP/TURN/TAIL BACKUP LIGHTS

Whelen 600 series lights shall be installed at the rear of the apparatus. An LED red stop/tail/turn and a clear LED backup light shall be installed inside a one piece chrome plated housing.

Y__N__

One (1)

LICENSE LIGHT AND BRACKET

A chrome LED license plate light and bracket shall be installed on the rear of the vehicle.

Y__N__

Two (2)

LED BODY GROUND LIGHTS (2)

Underbody lighting will be provided for the apparatus. Two (2) four inch round LED lights with clear lenses will be angle mounted on stainless steel brackets below the apparatus per NFPA recommendations. The lights will be controlled by the parking brake switch.

Y__N__

One (1)

LED TAILBOARD GROUND LIGHTS (2)

Under tailboard lighting will be provided for the apparatus. Two (2) four inch round LED lights with clear lenses will be angle mounted on stainless steel brackets below the rear tailboard per NFPA recommendations. The lights will be controlled by the parking brake switch.

Y__N__

One (1)

RECESSED STEP LIGHTS - LED

There shall be recessed step lights mounted in such a manner as to light the area around the runningboards, tailboard, and rear intermediate step. The lights shall be 4 inch round grommet mount with white 5mm LEDs.

Y__N__

One (1)

PUMP SERVICE LIGHT

There shall be a Four inch round LED light with clear lens light mounted inside pump compartment to provide sufficient lighting.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

Y ___ N ___

COMPARTMENT DOOR SWITCHES

All exterior compartment doors will be provided with an automatic door switch. The switch shall be installed not to interfere with loading or unloading the equipment stored within the compartment. The switch shall operate the compartment interior lights individually and the door ajar indicator light.

One (1)

Y ___ N ___

DOOR AJAR INDICATOR

There shall be a red flashing door-ajar indicator located on the cab's dash, in view of the driver. The light shall be illuminated automatically whenever the apparatus parking brake is released and the following conditions exist:

- (1) Any passenger or equipment door is open.
- (2) Any ladder or equipment rack is not in the stowed position.
- (3) Any other device is opened, extended or deployed that creates a hazard, or is likely to cause damage to the apparatus if it is moved.

One (1)

Y ___ N ___

SIDE SCENE LIGHTS

The mid upper body sides shall include (2) Fire Research model LED900-Q65 surface mount lights, one (1) each side. Each light shall be 6.75 inches high X 9.00 inches wide and have a profile of less than 1.75 inches beyond the mounting surface. Wiring shall extend from a weatherproof strain relief at the rear of the light.

Each lamp head shall have twenty-four (24) white LEDs that generate a rated 4400 lumens at 12 or 24 volts DC. The lens shall redirect the light along the vehicle and out onto the working area. The light housing shall be aluminum with a chrome colored bezel.

One (1)

Y ___ N ___

REAR SCENE LIGHTS

The rear of the body shall include (2) Fire Research model LED900-Q65 surface mount lights, one (1) each side. Each light shall be 6.75 inches high X 9.00 inches wide and have a profile of less than 1.75 inches beyond the mounting surface. Wiring shall extend from a weatherproof strain relief at the rear of the light.

Each lamp head shall have twenty-four (24) white LEDs that generate a rated 4400 lumens at 12 or 24 volts DC. The lens shall redirect the light along the vehicle and out onto the working area. The light housing shall be aluminum with a chrome colored bezel.

One (1)

Y ___ N ___

SCENELIGHT BACKUP RELAY

A relay will be provided in the rear scene light circuit to allow automatic use of the lights when the vehicle is placed in reverse.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

BACKUP CAMERA

A back-up camera with color monitor shall be installed on the apparatus. The monitor shall be a minimum 7" color LCD display and be on the dash or center console. A waterproof I/R camera shall be mounted on the rear of the apparatus. The camera shall provide not less than 270 pixel resolution. The system shall automatically activate when the vehicle is placed in reverse. An on/automatic selector switch shall be mounted on the chassis dash.

Y__N__

One (1)

NFPA WARNING LIGHTS

The optical warning system on the fire apparatus shall be capable of two separate signaling modes during emergency operations. One mode shall signal that the apparatus is responding to an emergency and is calling for the right of way. The other mode shall signal that the apparatus is stopped and is blocking the right of way.

The switching for the two different modes shall be through switches and relays that sense the position of the parking brake.

Y__N__

One (1)

LIGHTBAR POWERARC

PowerArc VOLT series lightbar model VM5004-2PQ08. Lightbar to include one FRC Q08 scene light in center operated from switch with the cab.

Y__N__

One (1)

POWERARC LIGHTING (FRONT)

One (1) PowerArc LED warning light model LED210-1R shall be mounted on the lower front outermost corner of the chassis on the driver side in a vertical position.

One (1) PowerArc LED warning light model LED210-2R shall be mounted on the lower front outermost corner of the chassis on the officer side in a vertical position.

Y__N__

One (1)

POWERARC MIDSHIP WARNING LIGHT

PowerArc LED warning light, model P14SM-Rsurface mounted fixed optic LED warning light. Lens color will match LED colors.

Location: Body wheel well area. Right and Left

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

Two (2)

Y__N__

POWERARC LIGHTING (REAR)

One (1) Pair PowerArc LED warning light model LED210-1R shall be mounted on the upper and lower rear outermost corner of the body on the passenger side in a vertical position.

One (1) Pair PowerArc LED warning light model LED210-2R shall be mounted on the upper and lower rear outermost corner of the body on the driver side in a vertical position.

One (1)

Y__N__

SIREN CONTROL HEAD

A Whelen 295HFSA7 electronic siren control head with remote dual amplifier shall be provided and flush mounted in the switch panel with a location specific to the customer's needs. The siren shall feature 200-watt output, radio broadcast, public address, wail, yelp, or piercer tones and hands free operation which shall allow the operator to turn the siren on and off from the horn ring if a horn/siren selector switch option is also selected.

One (1)

Y__N__

ELECTRONIC SIREN SPEAKER

The bumper shall include one (1) Federal Signal model BP200-EF, 200 watt speaker which shall be recess mounted within the bumper fascia. The speaker shall measure 5.50 inches tall X 7.70 inches wide X 7.80 inches deep. The speaker shall include a Federal Signal "Electric F" style grille which shall measure 6.61 inches tall X 6.78 inches wide.

One (1)

Y__N__

24' 2-SECTION LADDER

There shall be a 20 ft solid beam aluminum 2-section extension ladder. Ladder to be supplied by customer. Ladder shall meet or exceed NFPA standards.

One (1)

Y__N__

LIGHTWEIGHT SUCTION HOSE

There shall be two (2) lengths of 5" x 10 ft Kochek light weight PVC hard suction hose with NST couplings provided with the apparatus.

One (1)

Y__N__

FLOATING STRAINER

A floating strainer sized for the hard suction shall be supplied with the apparatus. The strainer shall be painted aluminum construction.

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

One (1)

FOLD-A-TANK

A 2100 gallon FoI-Da-Tank model # FDTA-2100-ALUM portable folding tank shall be provided with the apparatus. The tank is made of 22 oz Hypalon and the frame is made of aluminum. The weight of this tank is 125 lbs. The frame shall have an open dimension of 11'3" x 11'3" x 30" deep. The Fire Dept. shall specify the color (either Red or Yellow).

Y__N__

Two (2)

STREAMLIGHT LITEBOX

There shall be provided and installed, one (1) Streamlight LED (LiteBox) flashlight. The LiteBox is constructed of ABS plastic with adjustable LED spotlight head. A 12 volt direct wire mounting rack and shoulder strap shall be provided.

Location: 2x - L1 compartment

Y__N__

One (1)

ROAD SAFETY KIT

One (1) 2-1/2# ABC DOT approved fire extinguisher shall be provided. It shall be mounted in a accessible location to the driver.

One (1) set of DOT approved hazard triangles shall be supplied with the chassis. They shall be stored in a case and shipped loose with the apparatus.

Y__N__

One (1)

WHEEL CHOCKS

One (1) pair of Worden model HWG Grip-Lock aluminum wheel chocks shall be mounted on the left side fore and aft of the rear axle. They shall be mounted in model U815 slide-out brackets.

Y__N__

One (1)

DOUBLE JACKETED FIRE HOSE

Six (6) 50' sections (300') of 1-1/2" KrakenEXO Fire Hose with aluminum 1-1/2" NH couplings. Designed for aggressive fire fighting applications where durability coupled with lightweight, excellent low-pressure kink resistance and superior water flow are critical. Hose color to be customer choice.

Y__N__

MELROSE FIRE DEPARTMENT TANKER BID SPECIFICATIONS

Two (2)

Y ___ N ___

DUAL PRESSURE AUTOMATIC NOZZLE

Task Force Tips Dual-Force, model # HD-VPGI dual pressure automatic nozzle with shutoff shall be provided. A knob located at the front of the nozzle shall allow for pressure rating adjustments of 100 or 55 PSI. The nozzle design shall allow for straight stream through dense wide fog patterns and be able to be flushed without shutting down. For corrosion resistance and durability the nozzle shall be constructed from hardcoat anodized aluminum alloy, have a six (6) position detent flow control stainless steel slide valve, a protective rubber bumper with fog teeth, stainless steel inlet debris screen, laser engraved serial number, reflective labeling and five year warranty. An integral pistol grip handle shall be positioned directly below the valve handle.

The nozzle shall have a 1-1/2" female NH inlet, which allows the nozzle to swivel when tightened, a flow range of 95-300 GPM at 100 PSI and be designed to accept the Task Force Tips FJ-H low expansion or FJ-HMX multi expansion FoamJet foam attachments.

End of Specifications.