

**TOWN OF ARLINGTON
MASSACHUSETTS
PURCHASING DEPARTMENT**

INVITATION TO BID

BID NO. 15-34

Sealed bids, pursuant to the Uniform Procurement Act, Ch. 30B, are invited and will be received by the Town Manager, Town of Arlington, Massachusetts, until **10:00 A.M., Thursday, August 27, 2015**, at the Office of the Purchasing Director, 730 Massachusetts Avenue, Arlington, Massachusetts, at which time and place they will be publicly opened and read for furnishing:

TYPE "D" (77 PASSENGER) SCHOOL BUS

Proposals must be submitted on forms provided and in a sealed envelope plainly marked:

BID ON: TYPE "D" (77 PASSENGER) SCHOOL BUS, Thursday, August 27, 2015, 10:00 A.M., BID #15-34

Certificate of Non-Collusion form must be submitted with bids in order to be considered.

For further information please contact Domenic R. Lanzillotti, Purchasing Officer @ (781) 316-3003.

The Town Manager reserves the right to cancel any Invitation for Bid and/or to reject in whole or in part any and all bids, when it is deemed in the best interest of the Town to do so.

TOWN OF ARLINGTON

Adam W. Chapdelaine
Town Manager

August 11, 2015

Town of Arlington

BID #15-34
PROPOSAL PAGE

Type "D" (77 Passenger) School Bus

In the spaces provided below, please show your bid for one (1) each Type "D" (77 Passenger) School Bus per attached specifications.

Vendor must state model bid and submit descriptive literature.

AWARD TO BE MADE ON THE TOTAL BID PRICE. OPTION #1 WILL BE ADDED IN TO THE PRICE IF FUNDING AVAILABLE, AWARD WILL THEN BE BASED ON LOWEST PRICE INCLUDING OPTION #1.

1. TYPE "D" (77 PASSENGER) SCHOOL BUS \$ _____

MODEL: _____

TRADE-IN ALLOWANCE: one 2005 Bluebird 77 passenger \$ _____
type D transit style school bus
V.I.N. # 1BABKCKA76F232010.

TOTAL BID PRICE: \$ _____

ESTIMATED DELIVERY TIME FROM DATE OF NOTIFICATION:
_____ DAYS

Option #1: Wheelchair Accessibility ADD: \$ _____

Signature _____

Company _____

Business Address: _____

Telephone _____ Fax _____

Email _____

Date _____

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club or other organization, entity, or group of individuals.

(Signature of individual submitting bid or proposal)

(Name of individual submitting bid or proposal)

Name of Business

Date

Pursuant to M.G.L. Chapter 62C, Section 49A, I certify under the penalties of perjury that I have complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

Social Security Number or
Federal Identification Number

Signature of Individual or Responsible
Corporate Officer and Title

**NON-COLLUSION FORMS
MUST BE SIGNED AND
SUBMITTED WITH BID**

**Bid Specifications and Requirements
For Current School Bus Bids
Current Year Model**

Whenever, in these bid specifications, any equipment or materials described by the use of a proprietary product, or by using the name of a specific manufacturer or vendor, the term “approved or equal” if not stated will be implied.

School Bus shall be equipped with a Motorola two way radio provided, serviced and installed by the current contract bidder to the Town of Arlington. Current contractor C & G Radio, Waltham Mass. (781) 230-9700

The total contract price should include body and chassis completely assembled, including all specified equipment and accessories contained in this bid ready for turn-key operation.

The 77 Pass. vehicle shall be lettered on both the appropriate left and right center panels to read: “ARLINGTON PUBLIC SCHOOLS” and also identified on the front, rear and roof panels with the number “104”. Also all other body decals included shall comply with current Massachusetts State regulations.

Also to be included in the price of this bid will be a trade in allowance for one 2005 Bluebird 77 passenger type D transit style school bus V.I.N. # 1BABKCKA76F232010. For information contact Rick Iannelli at 781-316-3503.

All equipment and accessories must comply with all Federal and Massachusetts State laws governing motor vehicles and school bus regulations at the time of delivery.

Bid Specifications/Bid Specification Exception Sheet

77 Passenger - Type D School Bus Specifications

All buses to be a new 2016 model as described in these specifications. Minimum specifications are listed below and each bidder must state to the right of the listed specifications the compliance details that pertain to the unit bid indicating size, quality, range and information as necessary to determine unit quality. Bidders' specifications must meet or exceed minimum specifications and must be listed in detail to be considered to be qualified bidder. All specifications shall meet or exceed those specifications as set forth by the Massachusetts Department of Transportation, Federal Department of Transportation and the Massachusetts Minimum Safety Standards for Construction of School Buses in effect at time of manufacture.

Vehicle Specification Bid On
(Indicate "same", "yes" or explain exception)

DELIVERY DATE:

- | | |
|--|-------|
| 1. MODEL YEAR: 2016 or current model year. | _____ |
| 2. AIR CLEANER: dry type with easily changeable element, isolated from direct road spray. | _____ |
| 3. AIR RESTRICTION INDICATOR: indicator installed to monitor air-flow from cleaner to engine. | _____ |
| 4. ALTERNATOR: 185 amps. | _____ |
| 5. AXLE, FRONT: 13,200 lbs. | _____ |
| 6. AXLE, RATING: front axle rated @ 13,200 lbs or better. | _____ |
| 7. AXLE RATIO: (5.71) with electronic transmission. | _____ |
| 8. AXLE, REAR: 23,000 lbs or better passenger. | _____ |
| 9. BATTERIES: located on left side of body on slide out tray, 3- Group 31 12-volt battery, minimum of 2700CCA. | _____ |
| 10. BACKING SAFETY HORN: activated when bus in reverse gear, 112 db. | _____ |
| 11. BRAKES: full air. | _____ |
| 12. BRAKES: four channel anti-lock brakes (ABS). | _____ |
| 13. BRAKES: ABS Indicator lamp indicating system status mounted on dash. | _____ |
| 14. BRAKES, SLACK ADJUSTERS: automatic slack adjusters. | _____ |
| 15. BRAKE DRUMS & SHOES: front 16 1/2 x 7, both with 3/4 inch lining. | _____ |
| 16. BRAKE SHOES: extended service brake shoes required. | _____ |

17. BRAKES/SHIELDS: front and read dust shields. _____
18. BRAKES, DRYER: Bendix AD-9 air dryer installed between air compressor and wet tank with heater. _____
19. BRAKES, TANK CAPACITY: air tank capacity minimum 3000 cubic inches. _____
20. BRAKES (Emergency/Parking): Spring brake system with 30 sq. in. chambers modulated through treadle valve. Separate dash mounted valve for parking/emergency brake application. _____
21. BRAKE, COMPRESSOR: Air compressor 13.2 CFM rating, gear driven. _____
22. BUMPERS: front and rear, minimum 3/16-inch steel painted black. Rear bumper to be minimally extended 2 inches. Rear bumper to have double A frame bracing, BOLTED to frame (welding not acceptable), rear bumper per to wrap around sides a minimum of 14 inches. _____
23. BUMPER, REAR: designed to prevent damage to all directional lights, backup lamps and school warning lamps. _____
24. CONTROLS, DRIVER:
 -Column mounted dimmer switch w/ indicator light
 -Hazard switch on steering column
 -Self canceling turn signal with indicator lights
 -Dash mounted transmission shifter
 -Push/pull switches or rocker switches
25. COOLING FAN: fully on-fully off thermostatically controlled fan clutch. _____
26. DAYTIME RUNNING LIGHTS: required.
27. DRIVE LINE: Steel drive shafts minimum of 4". Each shaft to be balanced prior to installation. _____
28. DRIVE LINE: protective drive line guards to be installed on each section. _____
29. ENGINE: 220hp and 520 foot pound of torque @ 1600 RPM. Cummins ISB or equivalent. Engine must include integral exhaust brake with variable turbo. _____
30. ENGINE BLOCK HEATER: minimum of 750 watts with flip open weather proof cover, mounted as close to front as possible. _____
31. ENGINE: Fully electronically controlled with heater intake grid for easy starting and reduced emissions. _____
32. ENGINE WARRANTY: 5 year, 100,000 miles

- warranty
33. ENGINE: high idle and throttle electronically controlled.
 34. ENGINE: low idle control to minimize vibration.
 35. ENGINE HOOD: To be seven inches or less in height for easy access for driver.
 36. ENGINE HOOD: Separate service lid for CDL checks.
 37. EXHAUST SYSTEM: single horizontal system, minimum 4 inches in diameter. 16-gauge from manifold to muffler.
 38. EXHAUST: 16-gauge tailpipe 4 inches in diameter routed to rear of bus, pipe hangers to be spring steel with rubber isolators. All clamps to wide band design. The tailpipe shall exit the rear of the bus.
 39. FRAME: minimum 50,000 PSI rails, 9.5 inch with three-inch flange.
 40. FUEL SYSTEM: 100 gallon between frame rail tank, for maximum safety and best weight distribution for winter operation.
 41. FUEL SYSTEM: fuel sender inspection plate and locking fuel fill door.
 42. FUEL SYSTEM FILTERS: Primary heated fuel filter/water separator with see-through bowl and self-venting drain. Secondary filter of spin on type located on engine supplied engine supplier.
 43. HORNS: dual horns protected from direct splash and road spray.
 44. IGNITION: key operated; all units to be keyed alike.
 45. INSTRUMENTS: Complete array of individual gauges required: voltmeter, ammeter, speedometer w/ seven digits, odometer, fuel gauge, oil pressure gauge, coolant temperature gauge, dual air pressure gauges, tachometer, engine hour meter, engine warning system for low oil pressure or high temperature, lighted message bar/buzzer to "check gauges". Interior driver operated microphone/speaker system.
 46. PAINT: the chassis, frame, bumpers, wheels shall be painted black.
 47. SHOCK ABSORBERS: Front and rear direct acting double action piston type tuned to match springs.
 48. SUSPENSION, FRONT: parabolic with 2 taper

- leaf springs rated at 6,600 lbs each. _____
49. SUSPENSION, REAR: Semi-elliptic, progressive variable rate 13 leaf slipper type springs rated @ 11,500lbs each. _____
50. STEERING: Ross TAS-6S or equivalent with integral design with one-piece drag link. _____
51. STEERING: Power steering pump shall be gear driven. _____
52. STEERING: telescopic and tilt steering wheel. _____
53. TIRES, FRONT: IIR 22.5 H ply highway tread - minimum 14 ply. _____
54. TIRES, REAR: IIR 22.5 H ply traction tread - minimum 14 ply. _____
55. TOW HOOKS: front and rear frame mounted tow hooks. _____
56. TRANSMISSION: Allison electronic transmission with five forward speeds. _____
57. TRANSMISSION WARRANTY: 5 years unlimited. _____
58. TRANSMISSION COOLER: transmission oil cooler with minimum heat exchange capacity of 1350 BTUs. _____
59. VALVES: heater water shut off valves located in engine compartment to isolate hot water from the body. _____
60. VALVE: heater water regulator valve accessible to the seated driver to regulate hot water flow to the body. _____
61. WHEELBASE: 231 inches. _____
62. WHEELS: Hub piloted 10 stud disc wheels painted black. _____
63. ACCESSORY POWER SOCKET: provided in dash area for cellular telephone, socket to include protective rubber cap. _____
64. AUXILARY FAN: one six inch fan with protective metal guard mounted top dead center over the windshield controlled by a two-speed switch. _____
65. ACOUSTIC HEADLINER: acoustic perforated headlining driver's and first body section. _____
66. AIR INTAKES: dual fresh air intakes at right and left sides, one to provide fresh dry air to the defroster system, one to provide fresh air to the driver. Driver's fresh air vent shall be easily reached by seat driver. _____
67. BATTERY COMPARTMENT: under floor battery _____

- compartment with sliding tray with captive pin for batteries with locking latch. _____
68. BODY CONSTRUCTION: shall meet or exceed requirements of FMVSS 221, JOINT STRENGTH. _____
69. BODY CONSTRUCTION: one-piece 14-gauge roof bows with welds. _____
70. BODY CONSTRUCTION: interior side gusset of 15 gauge die formed steel, running the full length of the bus in the critical crash zone from 12 1/2 inches above the floor, to 7 1/2 inches below the floor. This protective gusset is in addition to, not part of, exterior sheet metal for passenger impact protection. _____
71. BODY CONSTRUCTION: floor construction to meet FMVSS 221 constructed of 14-gauge galvanized steel. _____
72. BODY CONSTRUCTION, EXTERIOR SIDE PANELS: 20-gauge or better side panels. Panels shall be one piece extending from window to skirt. _____
73. BODY CONSTRUCTION, RUB RAILS: 4 – die formed 16-gauge steel protective rails, one beneath the windows, one at the seat level, one at the floor level, and one located at the bottom of the skirt (snow rail), painted black. _____
74. BODY CONSTRUCTION: The seat rail must run around the rear of the bus to the emergency door. _____
75. BODY CONSTRUCTION: Snow rails must run the full length of the bus except at wheel-houses. _____
76. BODY SHEETMETAL: all exterior steel shall be mill-applied zinc coated, treated with electrodeposited prime re-coated with rust resistant bonding zinc after fabrication and before assembly. _____
77. BODY SHEETMETAL: reeded exterior sheet metal 20 gauge minimum. _____
78. BODY SHEETMETAL: interior aluminized mar proof walls, 22-gauge minimum. _____
79. BODY SHEETMETAL: roof sheets, 20 gauge minimum one-piece sheets window to skirt. _____
80. BODY UNDERCOATING: the entire body shall be fully undercoated. _____
81. CHILD CHECK SYSTEM: Vehicle to be equipped with Child Check Mate System. _____
82. DEFROSTER: 90,000 BTU's full length fixed _____

- outlets including driver's sash with nozzles directed at the entrance door. _____
83. DOOR, ENTRANCE: outward opening air entrance door with keyed alike security lock. _____
84. DOOR, EMERGENCY: a rear emergency door located in the rear center with upper and lower glass. _____
85. DOOR, EMERGENCY: dual hinges with fittings for lubrication. _____
86. DOOR, EMERGENCY: a VANDAL lock shall be wired to the ignition to disable the bus when the door is locked. _____
87. DOOR, EMERGENCY: the door when opened shall activate a D.O.T. buzzer. _____
88. DOOR, EMERGENCY: A retainer to hold the door open in a 90-degree angle is required. _____
89. EMERGENCY ROOF HATCHES: two Transpec or Specialty roof hatches with buzzer installed in compliance with FMVSS 217. _____
90. EMERGENCY WINDOWS: six (three per side) emergency push out windows with vertical hinges shall be installed equally throughout the bus body in accordance with FMVSS 217. Emergency windows shall have tampering buzzers. "EMERGENCY EXIT" shall be labeled over the window on the outside of the bus in two inch black letters. _____
91. ENGINE COMPARTMENT: Shall be fully insulated to reduce heat and noise in the engine compartment. Height of engine housing shall not exceed 7 inches for easy access to driver's compartment. Entire housing shall be easily removed for engine access. _____
92. ENGINE COMPARTMENT, ACCESS DOOR: a top hinged door in engine doghouse for CDL checks is required. _____
93. FENDERS: formed rubber fenders over all wheel housings. Metal "fenderettes" not acceptable. _____
94. FLAPS: front and rear mud flaps are required. _____
95. FLOOR COVERING: 5/8 inch exterior grade or treated plywood with wax sealed edges over 14-gauge steel. _____
96. FLOOR COVERING: black RUBBER floor covering with ribbed aisle. Molded rubber covering over each wheel-house. _____
97. FLOOR COVERING, STEPWELL: ribbed _____

- rubber steps, step noses to be white, top step to have white rubber wear plate.
98. FUEL SENDER INSPECTION PLATE: to provide access to fuel tank sender.
99. FUEL DOOR: Spring loaded door.
100. HEADROOM: minimum 78 inches over plywood and floor covering measured in aisle between passenger seats.
101. HEATING SYSTEM: plumbing to all heaters routed to provide hot water to defroster first for maximum safety and visibility.
CHECK FOR BASEBOARD HEATING
102. HEATER, DRIVER'S FOOT: minimum 15,000 BTU drivers foot heater with two-speed fan.
103. HEATER, MID SHIP: 84,000 BTU under seat heater with two-speed fan. Heater to be mounted off floor.
104. HEATER, REAR: 84,000 BTU rear under seat heater with two (2) two-speed fans controlled by separate switches. Heater to be mounted off the floor.
105. INSULATION: body and roof bows to be completely insulated with 1 1/2 inch R 5.75 insulation.
106. LETTERING: vinyl lettering to be applied per Arlington Public Schools requirements, in accordance with state and federal requirements. Lettering and bus numbers to be determined at time of order. Lettering to include application of height markings.
107. LETTERING: Include Mass "unlawful to pass" decal.
108. LIGHTS, SCHOOL WARNING: SCHOOL 'WARNING LAMPS: Eight way school warning lamps. Lights shall be wired non-sequentially. Lights controlled by a WELDON solid-state flasher.
109. LIGHTS, .WARNING: black hoods with black paint surround.
110. LIGHTS, WARNING: shall be internally monitored with a monitor board.
111. LIGHTS, DAYTIME RUNNING.
112. LIGHTS, HEADLAMPS: Halogen.
113. LIGHTS, SIDE DIRECTIONALS: SAE armored directional, forward set in standard

- locations.
- 114. LIGHTS, SIDE DIRECTIONAL: SAE armored directional between wheel wells.

 - 115. LIGHTS, REAR BACK-UP: minimum two 7-inch white activated when reverse gear is engaged.

 - 116. LIGHTS, REAR DIRECTIONAL: amber arrow.

 - 117. LIGHTS, FRONT DIRECTIONAL: amber arrow.

 - 118. LIGHTS, REAR STOP AND TAIL: red lens.

 - 119. LIGHTS, CLEARANCE AND CLUSTER: as required by state and federal law, all clearance and cluster lights to be armored.

 - 120. LIGHTS, INTERIOR DOME: shall extend the length of the bus.

 - 121. LIGHTS, DRIVERS, DOME: controlled by separate switch.

 - 122. LIGHTS, RED: red light over emergency door wired with clearance lights.

 - 123. Rubber wheelhouse fenderettes (four)

 - 124. MONITOR BOARD: 16 way monitor board shall be located in the driver's compartment to monitor all belt line and school lamps.

 - 125. PAINT, INTERIOR: lead free baked enamel, color: light grey.

 - 126. PAINT, EXTERIOR: lead free, national school bus yellow heat cured polyurethane. Trim to be black. Paint to carry a five-year warranty.

 - 127. MIRRORS: a full array of exterior mirrors in black frames to meet FMVSS 111. Rearview to be heated.

 - 128. RAIN VISORS: roof panels shall have embossed rain visors permitting the window to be opened to the first stop with out allowing rain inside the passenger compartment.

 - 129. REFLECTORS: amber and red reflectors to be attached per federal regulations.

 - 130. REFLECTIVE MARKINGS: located around each emergency exit including roof hatches and windows in accordance with FMVSS 217.

 - 131. REFLECTIVE MARKINGS: located at the floor line running the length of the bus 2

- inches wide. _____
132. REFLECTIVE MARKINGS: outlining the rear of the bus body. _____
133. REFLECTIVE MARKINGS: "SCHOOL BUS" in black letters on reflective background. _____
134. SAFETY EQUIPMENT: chock blocks secured (rubber required), fire extinguisher mounted, METAL FIRST AID kit mounted, Body Fluid Cleanup kit mounted, reflective triangles in box, mounted under drivers seat. _____
135. SCHOOL LAMPS: hoods. _____
136. SEAT BELT, DRIVER'S: fully adjustable seat belt and shoulder harness with adjustable tether for shoulder straps. _____
137. SEAT, DRIVER'S: high back fully adjustable black 'Bostrum Routemaster" or equivalent. Seat to have dark fabric insert. Air suspension pedestal. _____
138. SEAT, PASSENGER: FMVSS 222 - restraining seats. All seats to be 39" wide (except left rear seat shall be 26"). 52 oz. dark green upholstery,
To include 77 passenger seat belts _____
139. SEATS, BARRIERS: 39" barriers left and right side with legs inset from aisle, right side barrier to have modesty panel. _____
140. SOUND SYSTEM: AM/FM/CD radio with internal PA system to include 8 interior speakers and one external speaker horn. _____
141. SOLENOID: all body circuits shall be wired through a body solenoid. This solenoid shall disconnect power to body circuits when ignition is turned off. _____
142. STANDEE LINE: a white inlaid rubber standee line shall be installed in the passenger aisle. _____
143. STEPWELL: Slant design with three steps, with stepwell guard. _____
144. STEPWELL, LIGHT: stepwell light to activate when door is opened and clearance lights are on. _____
145. STOP ARM: air operated stop arm meeting FMVSS. Stop arm shall have 2 flashing red lights per side and reflective background. Painted signs are not acceptable. STROBING LEDS _____
146. SWITCH PANEL BODY: a full array of labeled, fiber optic illuminated switches. _____

- 147. SWITCH, DASH: to have rheostat separate from chassis dash to control illumination. _____
- 148. WINDOWS, SIDE: split sash design. All side windows to be 12" clear opening windows with tempered glass. Push out windows to have tempered glass. Driver's sash to have positive-latch.**ALL GLASS TINTED** _____
- 149. WINDSHIELD: front windshield to be tinted. _____
- 150. WINDSHIELD WIPERS: wet arm, wipers, with intermittent two-speed and intermittent speeds controlled by a single switch. To include winter blades. _____
- 151. WIRING: all wiring to be color-coded, Wiring shall be protected by manual re-setting circuit breakers. Easy access to terminals, circuit breakers through exterior locking access panel. _____
- 152. ROAD SPEED: shall be set at maximum of 72 mph. _____
- 153. **AIR CONDITIONING – Minimum 106,000 BTU** _____

It is expected that the bidder have an adequate inventory of spare parts to insure the Arlington Public Schools fleet is operational at all times. The bidder shall be a fully factory authorized dealer for the buses bid, including parts and service. The successful bidder shall guarantee a factory authorized place of service within 50 miles of Arlington as determined by the "Milo-Mileage Guide" and will further guarantee that service will be completed on a timely basis. If the authorized place of service is beyond 50 miles from Arlington the successful bidder will be responsible for transporting buses to and from Arlington at no cost to Arlington Public Schools, for service on a timely basis.

ADD HEATED MIRRORS / HEATER PUMP MOTOR / LED STROBING STOP ARM/ BASEBOARD HEATING SYSTEM / SEAT BELTS /

OPTION #1

Wheelchair Accessibility Requirements

- 150. Wheelchair Lift, Braun NL917IB-2, US**
- 151. Track left side overhead**
- 152. QStraint 8100A1L wheelchair restraint system**
- 153. QStraint vinyl storage pouch**
- 154. Three rows aluminum button track, 60" left side**
- 155. Lift door, right side rear, 50" opening**