

**Cedar Falls Community School District
Detail Comparison of 84 Passenger Transit Bus Bid
December 20, 2017**

Item	Original Specification	Hoglund Bus Sales Marshalltown, Iowa	School Bus Sales Waterloo, Iowa	Thomas Bus Sales Des Moines, Iowa
Bus Brand		No bid received	BlueBird All American FE	Thomas MVP EFX
Engine	Cummins ISB		Cummins ISB 6.7L	Cummins ISB 6.7L
Engine horsepower			260 @ 2400 rpm	260 @ 1600 rpm
Accessory Outlet	Required		Yes	Yes
Air Cleaner	Required		Yes	Yes
Air Intake	Required		Yes	Yes
Alternator	Minimum 200 amp		Yes - 240 amp	Yes - 240 amp
Auxiliary Fans	3 6" 2 speed required		Yes	Yes
Axle # Front	13,200		14,600	13,200
Axle # Back, Air Ride	21,000		23,000/Yes	23,000/Yes
Battery Capacity	2 batteries, 1800 CCA		3; 2100cca	2; 1800cca
Block Heater	750 watt		750 watt	750 watt
Headroom	77"		77"	77"
Brakes - Front	16.5" x 6"		16.5" x 6"	16.5" x 6"
Brakes - Back	16.5" x 8.5"		16.5" x 8.5"	16.5" x 8.6"
Bumper	Front & rear as per code		Yes	Yes
Bus Frame Strength	50,000 min tensile strength		Yes	Yes
Control Switches	Rocker type preferred		Yes	Yes
Coolant	Recovery tank filtered system		Yes	Yes
Crossing Gate	Required w/ manual interrupt		Yes/Yes	Yes/Yes
Dome Lights	Supervisor switch w/ dimmer		Yes/No	Yes
Door Entrance	Air/Electric		Air	Air
Drive Shaft w/ guards	Required		Yes	Yes
Drivers Seat	6 way air ride w/ arm rests		Yes	Yes
Electrical System	Accessibility panel		Yes	Yes
Emergency Exit	1 rear door/6 window min.		Yes	Yes
Emergency Equipment	10-BC17 fire extinguisher; 36 unit first aid kit; fluid spill cleanup kit; road haz. triangles		Yes/Yes	Yes/Yes
Engine Fan	Required		Yes	Yes
Exhaust System	Side discharge		Yes	Yes
Flooring & Covering	5/8" plywood/0.14 thk. rubber		Yes	Yes
Fuel Tank	100 gallon with in line fuel		Yes	Yes
Fuel Heater	Coolant inline required		Yes	Yes
Headlamps	Sealed beam required		Yes	Yes
Header Pad	Required		Yes	Yes
Heaters - Front	50,000 BTU		90,000	91,000
Heaters - Driver	12,000 BTU		12,000	15,000
Heaters - Under Seat	80,000 BTU		Yes, 2 x 80,000	Yes, 2 x 84,000
Heater Booster Pump	Required		Yes	Yes
Horn	120dB @ 3 ft.		Yes	Yes
Insulation	Fiberglass, 2" min		Yes	Yes
Instruments	10 required		Yes	Yes
Lettering	As required by law		Yes	Yes
Lights	As required by law		Yes	Yes
Mirrors	2 6.5 x 10 flat & 2 6.5 x 10 convex		Yes - 6.5 x 10	Yes - 7.75 x 11
Mud Flaps	Required		Yes	Yes
Oil Filter	Element or cartridge type		Yes	Yes
Passenger Seat	DOT school bus seat		Fire Block Fabric - 42 oz.	Fire Block Fabric - 52 oz.
Power Grade Ability	30 mph @ 3.7% grade min.		Yes	Yes
Radio	AM/FM w/ 8 speakers & PA		Yes	Yes
Reflective Tape	Required		Yes	Yes
Roof Hatches	2 required - Transpec preferred		Yes/Spheros	Yes/Specialty

**Cedar Falls Community School District
Detail Comparison of 84 Passenger Transit Bus Bid
December 20, 2017**

Item	Original Specification	Hoglund Bus Sales Marshalltown, Iowa	School Bus Sales Waterloo, Iowa	Thomas Bus Sales Des Moines, Iowa
Rub Rail	4 required		Yes	Yes
Service Access	Required		Yes	Yes
Shock Absorbers	Double acting piston type		Yes	Yes
Shoulder Rails	Padded required		Yes	Yes
Steering Gear	HD w/ tilt & telescoping		Yes	Yes
Stop Arm	2 req. w/ strobe light & guard		Yes	Yes
Stop/Tail Lights	4 required		Yes	Yes
Strobe Light	Low profile 200 can. Min.		Yes	Yes
Sun Visor	Tinted required		Yes	Yes
Tires & Rims - Front	11R22.5 16 ply G662		Yes - Hankook	Yes - Hankook
Tires & Rims - Back	11R22.5 14 ply G282		Yes - Hankook	Yes - Hankook 16 ply
Throttle/Cruise	Electronic required		Yes	Yes
Tow Hooks, front/rear	Required		Yes	Yes
Transmission/Cooler	Allison 3000 PTS series; min. 1500 BTU heat exchanger; external to radiator		Yes Yes	Yes Yes
Turn Signals	2 front/rear w/ side required		Yes	Yes
Vandal Lock	Required - all doors		Yes	Yes
Ventilator, static front	Required		Yes	Yes
Voltage Regulator	Internal/External		Yes/Internal	Yes/Internal
Weather Front	Vinyl or Canvas snap on		Yes	Yes
Wheel Base	231" min		232"	231"
Wheel Housing Rubber	Molded Rubber		Yes	Yes
Windows	4 thermo-pane/all tinted		Yes	Yes
Windshield	Two piece curved		Yes	Yes
Windshield Wipers	Wet arm w/ intermittent req.		Yes	Yes
Bid Price for two buses			\$196,986.00	\$196,278.00
Less trade-in, Bus #6 & Bus #19			-\$6,000.00	-\$3,000.00
Total			<u>\$190,986.00</u>	<u>\$193,278.00</u>
Add for front air ride suspension			\$802.00	Not available
Total with front air ride			<u>\$191,788.00</u>	<u>\$193,278.00</u>
Add for undercarriage storage			\$3,328.00	\$1,535.00
			102.2 cu. ft.	36.36 cu. ft.
Add for rear backup camera			\$624.00	\$533.00
Recommendation - School Bus Sales, Waterloo, Iowa with air ride suspension and rear backup camera			\$192,412.00	