

EQUIPMENT SPECIFICATIONS TO FIT A F450/F550

Town of Bolton

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The following bid specifications describe a heavy duty municipal package for plow streets, any deviations to the towns minimum standards must be noted in writing. Any deviations shall be noted on a separate sheet of paper in writing and included with all bids or quote proposals. Equipment must be extreme duty for use by the town.

SNOWPLOW:

Power Reversible Trip Edge Polymer snow plow which shall be built from new material and definitely suited for continuous work under difficult conditions of snow removal.

Not less than 33 inches in height measure with a center punch C1090 steel cutting edge on 12" centers. 10 feet length made of Ultra High Molecular Weight Polymer not less than 3/8" thick. Color shall be safety orange. Steel frame work shall have a minimum of five (5) steel reinforcing ribs at less 3/8" thick, which three shall be connected three driving ribs to a 2" X 4" x 1/4" truss tube with six (6) 1" dia. Grade 8 bolts. Upper backer angle not less than 4" x 4" x 1/2" angle, supported with sixteen (16) 1/2" x 3 1/2" x 3 1/2" steel gussets. All ribs shall be joined at the top of the moldboard with 2 1/2" x 2 1/2" x 3/8" top angle and the lower moldboard shall include a 2" x 1 1/4" x 1/4" cap angle.

TRIP EDGE:

SINGLE edge design with trip activation achieved through eight (8) torsion trip springs from not less than 9/16" round wire, have 2 7/8" OD and 1 3/4" ID. Each spring pinned in place in a horizontal position.

DRIVEFRAME:

Driveframe and reversing mechanism shall consist of an "A" frame, and two single acting heavy duty hydraulics cylinders with a 2 1/4" diameter x 16" stroke.

The "A" frame shall be a triangular weldment consisting of two side members of 2 1/2" x 2 1/2" x 1/4" steel tubing welded to a cylinder mounting plate and the 3/4" thick oscillating plate.

The "A" frame shall pin t the moldboard on a removable, lubricated pine, not less than 1" in diameter. The reversing cylinders shall have rods made of Nitrided. The cylinders shall attach to the moldboard with 1" Grade 8 bolts and must have not less than 30 degree angle either side of the chassis center line. The A frame shall be fitted with two point lift chain arrangement.

PLOW COUPLING BAR:

5/8" thick x 4" wide oscillating bar fitted with two 1 1/4" drive ears on 23.5 inch centers.

1 inch diameter drive frame bolt to follow contour of road.

12" Rubber deflector shall be installed on top of plow with steel reinforcing strip.

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HITCH:

Truck hitch for snowplow shall be custom made for heavy duty street plowing and shall have as many parts as possible that are interchangeable with those in use by town.

Hitch shall be designed for 17,500-25900. GVW rating.

All new materials and mainframe shall not be less than 4" x 4" x 3/8" angle section vertical members which shall be tied in a horizontal plane by two (2) MT 4" x 2" x 3/16" wall thickness tube sections.

Vertical risers shall be tied at the top by a 4" x 4" x 3/8" structural angle. Cylinder base angle shall not be less than 4" x 4" x 1/2" angle.

Hitch shall have a 2" bore x 10 Inch stroke DOUBLE ACTING cylinder that will not interfere with the driver's vision.

Plow attachments on 24" centers with two (2) 1" diameter pins at 7", 10", and 13" heights. Check plates for F450/F550 and transmit the plow load to the rear frame area.

The rear attachment shall be 3/4" material with 3/8" stiffeners.

THERE SHALL BE FOUR (4) 1.25" DIA. PINS LOCATIONS WITH GREASE FITTINGS FOR REMOVAL OF THE HITCH. THE HITCH SHALL HAVE A MANUAL TILT SECTION BY REMOVING OF TWO (2) 1.25" DIA. PINS.

PLOW LIGHTS:

Heated Rectangular LED generation II shall be mounted on a tubular member on top of hitch and be adjustable with directional, and high/low beam controlled from in the cab.

Heated windshield wipers shall be installed-Everblade or equal.

DUMP BODY:

Dump body front, sides and tailgate, cabshield and understructure shall be made of not less than 10 gauge 304 # 4 stainless steel.

It shall not be less than 9 ft. in length x 96 inch overall width and not less than 84 inches inside width.

Sides shall be 18 inches in height with a 24 inch tailgate height.

Floor of dump body shall not be less than 3/16" AR450 steel.

Three panel tailgate with forged stainless steel quick release tailgate linkage.

6 inch structural channel 8.2 lbs. per ft. with 3 inch structural channel crossmembers on 12 inch centers.

Body safety prop. All stainless steel hardware.

10 gauge stainless steel 3/4 cabshield x 84" wide, with two oval holes forward and two on sides.

Front corner posts, full depth rear corner posts with two oval holes in each one, full depth rear bolster.

All continuous weld.

Hoist shall be a class 30 full subframe made of 1/4" thick steel channel, 2" pivot shaft, 50 degree dump angle with 26,000 lbs. maximum lift capacity. 6 inch Diameter double acting cylinder, 24 inch stroke and 2" piston rod. Cast hinge blocks.

Heavy duty electric automatic coverall with asphalt tarp. Aero 550 or equal.

National or equal poly fenders over rear wheels-must be heavy duty. Four mud flaps, back up alarm, body raise alarm with light. Must meet Mass., Federal, and OSHA standards. Certified In Mass.

HYDRAULICS:

Central hydraulic system off transmission with heavy duty electric shift PTO, 12 GPM hydraulic pump with large suction line, noise shall be kept to a minimum.

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HYDRAULICS:

15 gallon steel reservoir with spin on 10 micron filter, sight gauge, ball valve shut off, temperature gauge, aluminum manifold for return lines. Cast iron sectional valves, double acting for plow raise/lower, double acting for power angle with relief valve, double acting with relief valve for dump body with power beyond. Muncie or equal with steel box and override electric over hydraulic sander control with four lines, two suction and two return lines. Sander lines shall be run to rear of chassis near pintle hitch with quick disconnects.

½" thick pintle plate with 2" Reese tube or equal with combination pintle/ball hitch. D rings, pigtail extended. Two white LED Aluminum housing work lights in pintle area with switch in cab.

Does bid proposal meet all minimum specifications?	YES	NO
What is brand and model of body and hoist?	Model	Model
What is brand and model of plow?	_____	_____
What is brand and model of hitch for plow?	_____	_____

LIST DEVIATIONS:

Please include Three (3) Towns with names, contacts and phone numbers with similar equipment.