

TOWN OF FALMOUTH, MAINE

DEPARTMENT OF PUBLIC WORKS

**SIDEWALK MACHINE AND
ROADSIDE MOWER**

BID REQUIREMENTS BELOW

YEAR:	2017 or newer, also any Machine under 100 Hours or Factory Remanufactured
APPLICATION:	Machine For Roadside Mowing and Sidewalk Plowing
DIMENSIONS:	Overall width including fenders Maximum of 50.5", overall height not to exceed 94" from the ground up.
ENGINE:	Diesel, Tier 4 Final and a minimum of 64 HP or equivalent Reversing Engine Fan
TRANSMISSION:	Hydrostatic transmission , controlled by operator with a single foot pedal with overall travel in High up to 19 MPH and Low range up to 8 MPH. The system shall have an additional deep reduction planetary transmission which will allow for four speed ranges instead of 2. A deep low with a speed of 0-10 feet per minute.
AXLES:	Unit shall be equipped with heavy duty industrial type front and rear axles and have four wheel differential lock.
TIRES:	Dual 10 Ply loader lug tires (8) mounted on 8 Rims For Mowing (Boom Flail)
BRAKES:	Unit must be equipped with Hydrostatic, Service on all four wheels and a Parking brake system. Parking brake to have a buzzer and warning light when applied.
STEERING:	Steering system must be of an articulating design, hydraulic cylinders, tilt steering column and have a eight foot inside turning radius. The main articulating joints must be greaseable, spherical bearings and shim able.
PTO:	Standard PTO of 540 RPM to front and Twin disc over center clutch with electric over hydraulic actuation.
ELECTRICAL:	12 Volt system with a 950 CCA group 31 battery, 200 amp alternator.
CAB:	One person (ROPS) capacity tinted glass all windows, side window to open, high back air ride seat with left and right arm rest, digital dash board and AM/FM Radio Standard with machine. Front and rear wiper system, backing camera, inside and outside mirrors. Cab shall be insulated with sound deadening lining and floor mat.

LIGHTS:

Unit will be equipped with front halogen headlights with high and low beams, turn signal lights left and right, rear rubber mounted led tail lights, backing lights, license plate light and four way flasher (hazard) lights. Eight led strobe light package with 360 degree visibility of at least two lights all amber in color. Dome light in cab for driver.

HYDRAULICS:

Unit must be equipped with necessary hydraulic pump capacity, control valves, switch functions, piping, quick couplers both front and rear to accommodate all attachments including front 51" Boom Flail Mower, snow blower, V-plow, front broom, rear water tank, rear sander, all to hook up and work with ease. Must have a three point hitch system with double acting lift cylinders with float capability to support a front lift capacity of all factory attachments. Front lift cylinders must be controlled by a cab mounted joystick. The front shall be equipped with a Pendulum system to oscillate by means of an electric over hydraulic toggle switch or equivalent. All functions must be double acting with a float position and function lock out.

There shall be a set of hydraulic quick couplers, rear mounted, powered but a flow control valve that are capable of providing power to a salt spreader at variable speeds independent of the engine or ground speed. All hydraulic couplers shall be color coordinated to the corresponding control lever in cab.

FUEL TANK:

The fuel tank capacity shall be a minimum of 25 gallons with a remote fill.

**IMPLEMENT
HITCHES:**

Front quick switch, consistent with machine offered

SAFETY :

The Machine will not drive faster than 3 MPH unless the seat belt is buckled.

ATTACHMENTS:

Boom Flail Mower minimum of 51" wide cut
Ribbon Snowblower 51"
Sidewalk Spreader for the rear of the machine with a minimum spreader pattern of 41".
Hopper tail light kit

OTHER:

Parts and Service Manuals for Machine and attachments
Operator manuals Machine and all attachments
Floor Mat
Fire extinguisher
First Aid Kit
Training on operating machine

**OPTIONAL ADD-
ONS:**

Dump body
5-Position V-Plow
Front End Loader
Second Rear Backing Light
Additional High Mounted Rear Lights
Headlight Light/Signal Light Guard
Rear Sliding Window
Slope Meter

QUESTIONNAIRE

Machine Make:	Model:			
Year:	New	or	Factory Remanufactured	Engine Make:
Engine:	Diesel runs on B-5		Yes	No
	Tier 4		Yes	No
	64 HP or equivalent		Yes	No
	Reversing Engine Fan		Yes	No
Transmission:	Hydrostatic		Yes	No
	Low and High Range		Yes	No
	Deep Reduction planetary transmission		Yes	No
Axles:	Heavy Duty		Yes	No
	Four Wheel Differential lock		Yes	No
Tires:	10 Ply loader lug tires		Yes	No
	Dual system for Boom Flail Mowing		Yes	No
Brakes:	Hydrostatic		Yes	No
	Service on all four wheels		Yes	No
	Parking Brake system		Yes	No
	Parking Brake warning buzzer and light		Yes	No
Steering:	Articulating Design		Yes	No
	Hydraulic Cylinders		Yes	No
	Tilt steering wheel system		Yes	No
	Main articulating joints greaseable		Yes	No
PTO:	Standard PTO of 540 RPM to front of machine		Yes	No
	Twin disc over clutch with electric over hydraulic actuation		Yes	No
Electrical:	12 Volt system		Yes	No
	950 CCA Group 31 battery		Yes	No
	200 AMP alternator		Yes	No
Cab:	One person (ROPS) capacity		Yes	No
	All windows tinted		Yes	No
	Side windows open		Yes	No
	Front and Rear wiper system		Yes	No
	Inside and outside mirror system		Yes	No
	Insulated with sound deadening lining		Yes	No
	Floor Mat		Yes	No

Lights:	Headlights Halogen High and Low beam	Yes	No
	Rear Light rubber mounted	Yes	No
	Eight Led strobe light package for 360 degree visibility	Yes	No
	Dome light on cab for driver	Yes	No
Hydraulics:	Quick couplers for attachment in front and rear of machine	Yes	No
	Three point hitch system with double acting lift cylinders with float capability to support a front lift of all attachments	Yes	No
	Front Lift cylinders controlled by joystick	Yes	No
	Hydraulic couplers color coordinated to the corresponding control levers in cab	Yes	No
Fuel Tank:	Minimum of 25 gallons	Yes	No
	Remote Fill	Yes	No
Implement Hitches:	Front Quick switch	Yes	No
Safety:	Backing Camera	Yes	No
	Machine will not go over 3 MPH unless Seat Belt is Buckled	Yes	No
Attachments:	Manuals for parts and service for all attachments provided with machine	Yes	No
Others:	Parts and Service manuals for machine	Yes	No
	Floor Mat	Yes	No
	Fire extinguisher	Yes	No
	First Aid Kit	Yes	No
	Training on machine	Yes	No
Optional Add-on:	Provided quotes for list on spec	Yes	No