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

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 Fail 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:**

**Engine:**
- Diesel runs on B-5
- Tier 4
- 64 HP or equivalent
- Reversing Engine Fan

**Engine Make:**

**Transmission:**
- Hydrostatic
- Low and High Range
- Deep Reduction planetary transmission

**Transmission Make:**

**Axles:**
- Heavy Duty
- Four Wheel Differential lock

**Axle Make:**

**Tires:**
- 10 Ply loader lug tires
- Dual system for Boom Flail Mowing

**Tire Make:**

**Brakes:**
- Hydrostatic
- Service on all four wheels
- Parking Brake system
- Parking Brake warning buzzer and light

**Brake Make:**

**Steering:**
- Articulating Design
- Hydraulic Cylinders
- Tilt steering wheel system
- Main articulating joints greaseable

**Steering Make:**

**PTO:**
- Standard PTO of 540 RPM to front of machine
- Twin disc over clutch with electric over hydraulic actuation

**PTO Make:**

**Electrical:**
- 12 Volt system
- 950 CCA Group 31 battery
- 200 AMP alternator

**Electrical Make:**

**Cab:**
- One person (ROPS) capacity
- All windows tinted
- Side windows open
- Front and Rear wiper system
- Inside and outside mirror system
- Insulated with sound deadening lining
- Floor Mat

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