



**SYRACUSE**  
EST. CITY 1935

## **INVITATION TO BID**

# **Syracuse City Street Sweeper**

**01 October 2017**

## Invitation

Syracuse City invites vendors to submit a bid to provide for the purchase of a STREET SWEEPER delivered and ready for operation. Packets may be obtained from our website. Bids must be received by Syracuse City Public Works, 3061 South 2400 West, Syracuse, Utah, 84075 no later than 3:00 P.M. on Monday, October 16, 2017. Late bids will not be accepted. Syracuse City reserves the right to reject any or all bids and to accept any bid that best serves its needs and is in the best interest of the city.

## Scope of Work

The vehicle shall be equipped at a minimum as indicated herein. The unit shall be delivered and ready for operation. Vendors will be asked to provide a demonstration of the equipment. The scope shall include items listed in the Vehicle Specification Sheet.

## Respondents Qualifications

Respondents to this request shall be able to demonstrate capability to comply with the following minimum requirements:

1. The street sweeper must be available on or before the Delivery Date indicated on the Invitation to Bid form. Cost of delivery is included in the bid.
2. The equipment to be furnished shall be the product of a qualified firm that is regularly engaged in the manufacture and supply of this equipment.
3. Ability to service equipment as an authorized local service center continuously operated in the State of Utah.
4. Use State Contract pricing, if it is secured by the bidder's company. In doing so, the cost for inventory in-stock will be considered a part of the total cost. Bidder's not having State Contract, are also invited to bid.

## Interpretations

In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of the specification documents or any part thereof. Any request for such consideration shall be made in writing to the City. Based upon such inquiry, the City may choose to issue an addendum to this bid. Questions may be directed to: [rcw@syracuseut.com](mailto:rcw@syracuseut.com) with the bid name in the subject line.

## Submittal

Each bidder is required to submit one copy of the bid at the time and location indicated in the Invitation with the following information included:

- A. Completed Invitation to Bid form.
- B. Vehicle Specification Sheet.
- C. Acknowledgement of receipt of addenda, if applicable.
- D. Three references within the State of Utah.

## **Evaluation**

In comparing bids, consideration will not be confined to price only. The successful bidder will be the one whose product is judged to best serve the interests of the City when price, product, safety, service and delivery are considered. Representatives from the city will perform evaluation of the bids submitted. Criteria used in evaluating the bids will include items, such as:

1. Understanding the scope
2. Location and accessibility
3. Equipment serviceability
4. Compliance to specifications.
5. Cost

The City reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A purchase order will be awarded to the bidder submitting the best responsible bid meeting the requirements of this specification.

## **Considerations**

The specification herein states the minimum requirements of the City. All bids must be regular in every aspect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The City will consider as “irregular” or “non-responsive” and reject any bid not prepared and submitted in accordance with the Invitation to bid form or any bid lacking sufficient technical literature to enable the City to make a reasonable determination of compliance to the specifications.

## **Deviations**

It shall be the bidder’s responsibility to carefully examine each item of the Scope of Work. Failure to offer a completed bid will cause the bid to be rejected without further review as “non-responsive.” All exceptions and/or deviations shall be fully described. Deceit in responding to the specification will be cause for automatic rejection. The bidder must include a separate sheet where any and all deviations to the specifications are listed. The City understands that manufacturers design systems with different features. This listing is therefore integral to the City’s determination of an equivalent product. Each deviation must reference the listed specification, and explain in full detail how the proposed system is different.

**SYRACUSE CITY CORPORATION  
INVITATION TO BID**

Please include this sheet as the cover for your bid. Bid may be emailed, mailed, or hand-delivered. Mark bid as follows:

“Syracuse City Street Sweeper”

Mail / Hand Deliver to: Syracuse City Public Works  
3061 South 2400 West  
Syracuse, UT 84075

Email to: rcw@syracuseut.com

Bids will be accepted until: Monday, October 16, 2017 at 3:00 P.M.

Description of service(s):

This bid shall include a street sweeper as described in the Scope of Work, delivered and ready for operation.

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Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ Email: \_\_\_\_\_

Specify Bid Item Provided: \_\_\_\_\_

Bid Price: \_\_\_\_\_

Delivery Date: \_\_\_\_\_

Payment Terms: \_\_\_\_\_

Bid Honored Through: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_

Addendums acknowledged (if applicable) \_\_\_\_\_

Variations to Specifications (attach additional sheets if necessary): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Syracuse City reserves the right to accept or reject this bid, or any portion thereof, and call for new bids if their interests or convenience are better served by such a course.

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**VEHICLE SPECIFICATION SHEET**  
**SYRACUSE CITY, UTAH**  
**MINIMUM SPECIFICATIONS FOR STREET SWEEPER**

Unless otherwise indicated, these are minimum specifications. If the sweeper does not meet an individual item or multiple items from the listed minimum specifications, the equipment will be considered non-compliant. If there is an alternate consideration, please indicate as such giving an explanation why it does not meet minimum specifications.

**Minimum specification**

2017 Regenerative Air Street Sweeper or newer

**General**

The gross vehicle weight will be no less than 31,000 pounds. \_\_\_\_\_

The engine muffler/exhaust pipe will be horizontal below the chassis \_\_\_\_\_

The highest point of the unit shall not exceed 10 feet tall. \_\_\_\_\_

Tow hooks will be installed on the front of the truck. Hooks will be rated at a minimum of the GVW of the truck. \_\_\_\_\_

**Chassis Engine/Transmission**

The turbo charged engine will be no less than 215 HP @ 2200RPM and 560 Ft lbs @ 1400 RPM \_\_\_\_\_

The engine shall not require DEF fluid \_\_\_\_\_

An air operated fan clutch will be included. \_\_\_\_\_

The cooling system will have permanent antifreeze protection to -40F. \_\_\_\_\_

Auto Glow plugs will be included. \_\_\_\_\_

The transmission will be an automatic, with no less than 5 forward speeds, one reverse speed, with freewheeling lock with two speed axle included. \_\_\_\_\_

Dual element dry air cleaner w/in cab restriction indicator dash mounted. Unit shall have a maximum turning radius curb to curb of 45 feet. \_\_\_\_\_

**Emission Control Equipment**

Auto in motion regeneration will be included. \_\_\_\_\_

The engine will be programmed to regenerate at idle. \_\_\_\_\_

Manual stationary regeneration will be included. \_\_\_\_\_

The engine will be programmed for in-town driving. \_\_\_\_\_

**Auxiliary Sweeper Engine**

Shall be Tier 4F Engine for low fuel consumption and noise \_\_\_\_\_

Engine with no less than 99 horsepower  
and have no less than 315 ft.-lbs. of torque. \_\_\_\_\_

Dual dry element POWER CORE air cleaner with electronic restriction indicator  
on sweeper dash to de-rate engine if filter becomes clogged. \_\_\_\_\_

Preference will be given to a spin on oil filter. \_\_\_\_\_

**Electrical**

A 90 amp sweeper and 160 amp chassis alternators with shared batteries with no  
less than 1300 CCA will be included. Master battery disconnect for all power  
at battery box. \_\_\_\_\_

The electrical system will have a negative ground. \_\_\_\_\_

Unit will have LED lighting for gutter brooms and dual rear LED lights for  
dumping the hopper. Two rear Amber LED flashing lights included. \_\_\_\_\_

All rear facing and turn signal lights will be LED. \_\_\_\_\_

Unit will include a LED arrow bar on the rear of the unit with in-cab controller \_\_\_\_\_

Unit will include a cab mounted module LED light bar \_\_\_\_\_

All wiring passing through metal plate shall be grommeted and shall be in  
conduit with water proof seals \_\_\_\_\_

All wiring connections shall be gas tight crimps and connections. \_\_\_\_\_

All lights, radios and electrical accessories will be wired through the ignition  
switch ensuring that electrical devices are off when the ignition key is off. \_\_\_\_\_

Unit will have a top-mounted (at the rear of the machine) LED yellow warning light. Light

will be enclosed in a metal protective structure. \_\_\_\_\_

**Gauges/Warning Systems**

Unit will have ability to be operated from both right and left hand seat and will have full chassis OEM instrumentation on both sides of the cab. Tilt steering on both sides \_\_\_\_\_

Both air cleaners will have an in-cab restriction indicator. \_\_\_\_\_

The gauges included will be a speedometer, odometer, tachometer, hour meter, voltmeter, air pressure, oil pressure, water temperature, fuel level, and transmission temperature. \_\_\_\_\_

A high water temperature, low air pressure, and low oil pressure warning lights and audio alarm will be included for the chassis. \_\_\_\_\_

Automatic engine shutdown for engine overheat, low oil pressure or low coolant on the sweeper engine shall be included. \_\_\_\_\_

All rear engine and sweeper controls will be mounted on a center console accessible from either side of the cab. \_\_\_\_\_

Center console will have temperature, oil pressure, tachometer, voltmeter and hour meter for the rear engine. \_\_\_\_\_

In cab controls for rear engine start and stop as well as for each gutter broom up/down and rotation. Controls for pickup head lifting and lowering, for broom inside the pickup head on/off, for hopper dump, water sprays and all work and warning lights \_\_\_\_\_

Indicators for low water, electronic water tank level and hopper full indicator with warning sound will be located in the cab. \_\_\_\_\_

**Axles, Wheels, and Brakes**

Brakes will be full cam actuated and shall include a 13.2 CFM air compressor. \_\_\_\_\_

The parking brakes will spring set. \_\_\_\_\_

The brake system will include an air dryer (alcohol system not acceptable). Dryer will have replaceable desiccant filter or filters, and automatic slack adjusters front and rear, and dust shields. \_\_\_\_\_

Unit shall have a 2 speed rear axle w/maximum speed of approx. 70MPH \_\_\_\_\_

All wheels will be 8.25" X 22.5, 10 hole disc. \_\_\_\_\_

All tires will be 11.00 R22.5-14 PR tubeless radial with premium highway traffic traction tread.

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**Sweeper**

Sweeping path will be no less than 140”.

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Sweeper will have a belt driven rubber coated blower wheel.

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Blower housing will have a replaceable wear resistant lining.

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Bolt in abrasion resistant package installed in the hopper wear and impact areas and suction inlet area.

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Pickup head will be no less than 86” wide.

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Pickup head will have replaceable double row carbide skids that are switchable Between sides for maximum wear. 2 yr/2000 hr warranty on skids for wear.

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Pickup head will be equipped with a rubber impact liner at suction inlet tube and at pressure inlet area to protect against abrasion.

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Pickup head will have an integral hydraulically powered broom inside the rear of the sweeping head that is on demand for heavy material.

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Pickup head will have a pressure bleeder with in cab control for reducing air flow for picking up lightweight materials and leaves. To have clean out port with plug on suction side of head.

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Pick up head will have a hydraulically actuated front curtain lifter for additional Performance in lightweight material and leaves.

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Pick up head shall have a hydrant hook up and a garden hose hook up for washing out the head on the pressure side.

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Unit will have two gutter brooms no less than 42”. Brooms will have bolt on segments that will be wire refillable.

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Gutter brooms and sweeper head shall lift automatically in reverse as well as idle engine down and turn off dust control. One switch shall return to sweep mode previous settings and throttle engine back to previous setting.

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Gutter brooms will be variable hydraulic speed and hydraulically driven.

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Gutter brooms will be adjustable for down pressure and wear. Shall have hydraulic tilt on both sides.

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Hopper will have a useable capacity of not less than 6 cubic yards and not



less than 7 yards volumetric. \_\_\_\_\_

Hopper will have a centrifugal dust separator to remove dust from airstream. Inside of separator shall be lined with rubber. Separator to be upgraded from Manufacturers standard capacity to double capacity for extreme sweeping. \_\_\_\_\_

Hopper will have an inspection door mounted on each side of the hopper for ground level access by operator or ladder for each door included. \_\_\_\_\_

Hopper will have a rear door that closes and locks hydraulically. \_\_\_\_\_

Hopper will have hopper load indicator with light and alarm when full. Electronic Gauge will show percentage of full. \_\_\_\_\_

Hopper, screens, doors, separator housing and blower housing will be Stainless Steel. \_\_\_\_\_

Dump height will be no less than 36". \_\_\_\_\_

Dump will be able to be actuated from both inside and outside the cab. \_\_\_\_\_

Unit will have a hydrant hopper deluge washout system installed with 3 nozzles. \_\_\_\_\_

Hopper will have a heavy duty 1/4" wire woven mesh chip screen installed. Screen to be hinged and drop down for cleaning without removal. \_\_\_\_\_

Unit will have a minimum of 325 gallon water tanks minimum. \_\_\_\_\_

Water system will be a chassis air operated high flow diaphragm pump with a 25 foot 3/4" wash down hose w/hand nozzle, spray gun with two 36" wand pieces that can be combined for a six foot wand. Pump shall also provide water for dust control water tips. Storage box for wash down hose to be on side of unit. \_\_\_\_\_

Water system will have an 80 mesh inline replaceable filter. To have shop air connection to purge water lines, pump and filter with air pressure regulator included. \_\_\_\_\_

Water spray nozzles will be installed for both gutter brooms, the pickup head and two each hopper water tips that are switched separately, \_\_\_\_\_

Unit will have two additional water switches to run three additional tips on each Side to attack airborne dust from the side brooms. To have axle mounted curtain to create a containment area. \_\_\_\_\_

An electric water level gauge with a low water indicator will be installed in the cab. \_\_\_\_\_

Water tank will be capable of being filled by a hydrant with couplings. \_\_\_\_\_

Unit to have 25 foot hydrant hose used to fill the water tank. Hose will be capable of hooking up to a standard fire hydrant and will have all fittings and clamps. Hose shall also be used for the hopper wash and head wash systems.

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Hydraulics will be operated by a direct drive pump on the auxiliary engine.

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Hydraulics will have a 10 micron spin on filter.

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Hydraulics will flow no less than 8 GPM.

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Unit to have an electric auxiliary hydraulic pump to run hydraulics with engine not running to lift brooms, head, or dump hopper.

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The hydraulic tank capacity will be no less than 25 gallons.

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Unit will have a hydraulically assisted wandering hose. Hose will be no less than 8" in diameter with extensions capable of reaching a minimum of 8feet below surface level. To have remote control FOB as well as wireless hand hose controls mounted to aluminum wand with steel digging crown.

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Unit will have grated steps and grab handles to climb up to check engine and will have a full width grated work platform between cab and sweeper module.

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Unit will have a lockable storage box to store tools hoses on unit.

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Unit will come with one extra set of filled gutter broom segments for each gutter broom.

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Unit will come with one extra pickup head broom.

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Unit will come with a complete set of filters for both engines, water and hydraulic systems.

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### **Cab and Chassis**

West Coast style rear view mirrors will be installed on both sides no less than 7" x 15" in size with integral convex mirrors below. Heated and remote control on main mirrors.

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Unit will have 10" parabolic mirrors mounted on front chassis fender so that the operator can see each gutter broom.

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Unit shall have a backup camera and a sweeper head intake camera with a dash mounted 7" color screen.

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Electric windshield wipers with intermittent capability will be included.

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A 12 volt outlet will be installed in the cab \_\_\_\_\_

Dual sun visors will be included \_\_\_\_\_

The windshield(s) will be solar tinted \_\_\_\_\_

To have Air Horn \_\_\_\_\_

A fresh air heater with air conditioning will be included. A fresh air filter (cabin air filter) will also be included. \_\_\_\_\_

A minimum 50 gallon I.C.C. approved fuel tank will be installed on the curb side. tank will supply fuel for both engines. \_\_\_\_\_

An in cab electrical connection will be provided for a business band radio. Connection will be wired through the ignition switch so there is no power when the key is off. \_\_\_\_\_

An AM/FM radio will be included \_\_\_\_\_

An electronic backup alarm that meets current OSHA standards will be installed. \_\_\_\_\_

Cab entry assist handles will be installed on both sides of the cab. \_\_\_\_\_

Anti-skid metal mats on the running boards and steps will be included. \_\_\_\_\_

Both seats will be an air suspension, Bostrom Levelair, or equivalent. \_\_\_\_\_

The truck and sweeper body will be painted with white urethane paint. Sweeper gear and chassis frame to be black. \_\_\_\_\_

Manufacturers standard front mud flaps shall be included. \_\_\_\_\_

Rear rubber mud flaps will be installed behind the rear wheels \_\_\_\_\_

Bidder to submit with bid the names and numbers of three references within the State of Utah currently running the model bid with a broom inside the sweeping head for a minimum of three years. Failure to include references will deem bid to be non-responsive. \_\_\_\_\_

**Warranty and Manuals**

Chassis shall have manufacturers standard warranty with 24 months/unlimited Mileage on chassis, engine, transmission minimum. To have 12 month

towing. Chassis warranty issues to be handled by local chassis dealer \_\_\_\_\_

The sweeper module and all accessory equipment will have a 1 year, 1,000 hour warranty. Auxiliary Engine to have 2 year warranty. \_\_\_\_\_

All paperwork necessary to obtain Utah license plates will be included. Paperwork will be made out to Syracuse City 3061 South 2400 West, Syracuse, Utah 84075 \_\_\_\_\_

An electronic and hard copy set of sweeper manuals for operator, parts, and repairs will be included. One set truck shop manual for the truck, engine(s), transmission drive axle, will be included. \_\_\_\_\_

8 hours of training for operators will be included. Training will be at the City Public Works Shop. Operator Training CD or DVD to be included with unit for retraining new Operators as needed.

**The owner will be notified when the vehicle is ready for delivery and reserves the option to inspect the vehicle before delivery. Preference shall be given for quick delivery of specified unit.**

**Delivery Date shall be listed on the Invitation to Bid form.**

**The City of Syracuse may assess liquidated damages if the unit is delivered after the above date. Liquidated damages of \$30 per day may be assessed if the City deems the delays were avoidable.**