



WILLIAM A. BELL, SR.  
MAYOR

# CITY OF BIRMINGHAM

FINANCE DEPARTMENT

## PURCHASING DIVISION

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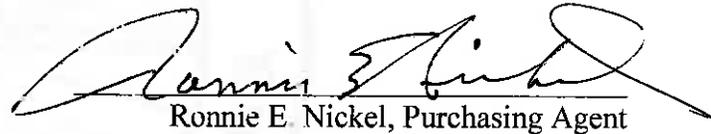
### ADDENDUM #1

September 17, 2015

On September 3, 2015 the City of Birmingham invited bids for chassis mounted roadside sprayer - retrofit, Invitation to Bid #15-70. Said bid to opened 2:00 p.m., October 6, 2015.

#### PLEASE NOTE THE FOLLOWING:

- (1) Specifications have been revised, please include new form with your bid.
- (2) Bid opening remains as originally scheduled – 2:00 p.m., October 6, 2015.



Ronnie E. Nickel, Purchasing Agent

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**(CORRECTED)**  
**SPECIFICATIONS**  
**APPROXIMATELY ONE (1)**  
**CHASSIS MOUNTED ROADSIDE SPRAYER - RETROFIT**  
**UNITED STATES ASSEMBLY**  
**FOR**  
**CITY OF BIRMINGHAM, ALABAMA**

Vendor to supply two copies each maintenance, operating, and wiring manuals.

The better of the manufacturer warranty or a three year warranty period will begin with the effective equipment in-service date. Equipment recall notices should be mailed directly to Bob Rainey, Director, Equipment Management, 515 6th Avenue South, Birmingham, AL, 35205.

All participating bidders shall mark conspicuously - compliance or non-compliance with an "X" in the appropriate column beside each specified item. Those items marked in the "NO" column must be explained in detail on the provided "Exceptions to Specifications" pages.

Only new (unused) current standard production models built for the U.S. market will be considered acceptable. Printed literature and specifications describing equipment as offered must be included with proposal. Any recent changes/updates and or features offered as standard or required for the intended use of the specified equipment will be supplied. All accessories required by these specifications shall be identical in quality and design to those normally supplied and installed for sale through regular commercial channels.

Questions should be addressed to Mr. Bob Rainey, Director, Equipment Management, c/o Ron Nickel, Purchasing Agent, 710 North 20th Street, Birmingham, AL 35203.

**GENERAL:** It is the intent of these specifications to describe a complete installation of new roadside spraying system on an existing truck for the City of Birmingham, AL a 2008 GMC W-4500 with an approximate C.A. of 84". The truck is housed at the City of Birmingham Public Works Department Construction Division located at 800 Golden Flake Drive Birmingham, AL contact Teddy Kapera at 205-792-4900 to view the unit. The basic spray system shall include a centrifugal spray pump, pump motor, boomless spray head (1) and a computerized roadside rights-of-way, batch mix control and pumping system. All components in the water and chemical systems must be non-corrosive type, compatible with chemicals currently used by the City of Birmingham. The following herbicides are currently being used, 2 4-D Amine, Milestone VM, MSMA, Ranger Pro (Glyphosate), Plateau and Proclipise 65 WDG Pre-Emergent.

**APPROXIMATELY ONE  
CHASSIS MOUNTED ROADSIDE SPRAYER - RETROFIT  
PAGE TWO OF FOUR**

**BIDDER  
COMPLIANCE  
YES NO**

**WATER TANK:**

The existing spray tank shall be retrofitted with a 4" air gap system thru the 4" center lid in the 16" man cover of the tank.

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The system shall have a 2" supply line connected from the top of the tank to the bed of the truck.

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The supply line shall have a 2" ball valve and a 2" male quick disconnect fitting with a dust cap

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**LOADING HOSE:**

Shall be (25) ft. long by 2" mill hose with a 2 1/2" NSH fire hydrant female on one end and a 2" female quick disconnect on the other.

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**WATER PUMP:**

The pump must be a centrifugal type, belt driven with 1 1/2" inlet and 1 1/4" outlet powered by a 11 HP Honda engine.

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The pump must be capable of producing 90 PSI and 60 GPM.

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The pump must have a suction strainer with a 20- mesh stainless steel screen installed on the inlet side of the pump.

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The pump must have a high-pressure filter with a 40-mesh screen installed in the discharge line as close to the pump as practical (prior to the pressure reducing valves).

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The pumping system must be able to maintain water pressure at a constant level as required for the intended use.

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Mounting location for the water pump and related components must not limit access for normal maintenance.

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The on/off control switch for the water pump will be located in the cab control center.

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A 2.5 inch liquid filled water pump pressure gauge will be installed at a location that can be easily viewed when adjusting the water pump speed control.

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The pumping system shall be drop well mounted under the truck bed if space is available.

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**APPROXIMATELY ONE  
CHASSIS MOUNTED ROADSIDE SPRAYER - RETROFIT  
PAGE THREE OF FOUR**

**BIDDER  
COMPLIANCE  
YES NO**

**BOOMLESS NUTATING  
SPRAY HEAD(S):**

The truck shall have a new nutating spray head amounted on the passenger's side of the truck behind the cab if space is available otherwise mount the spray head at the front of the truck.

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The unit shall have a forward mounted mirror to give a complete view of the inside sprayer line.

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All components of the spray head will be new, unused, and current production model No Exceptions.

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The unit shall have a minimum of nine (9) clusters of spray tips, spraying widths of 1-32 feet wide from front tires edge.

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The spray head must fold in and out with 6 inch actuators controlled via the switches in the console inside the cab.

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**BOOM VALVE  
MANIFOLD SYSTEM:  
CAB CONTROL  
CENTER:**

The boom valves shall be TeeJet 450BEC.

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The cab control center shall have a swivel mount for operation from driver's and passenger's seat.

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**COMPUTER CONSOLE:**

A TASC Model 6300 will be installed, no injection.

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A GPS unit shall provide the computer with ground speed and distance input.

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The unit must have a flow control valve installed to regulate total gallons.

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A flow meter will be installed in order to provide GPM flow to the computer console.

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The console shall have a minimum of nine (9) spray head solenoids indicator that operate in conjunction with solenoid switches in the mechanical console.

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All the spray head/boom sections must be programmable in 1" increments from 0-99 feet.

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**APPROXIMATELY ONE  
CHASSIS MOUNTED ROADSIDE SPRAYER - RETROFIT  
PAGE FOUR OF FOUR**

**BIDDER  
COMPLIANCE  
YES NO**

1. During normal operation the computer must be able to display:
  - Actual and simulated test speed of vehicle
  - Total area sprayed in acres
  - Total volume of carrier and chemical dispensed
  - Width of individual spray head/boom sections
  - Distance traveled in feet-miles
  
2. The computer will display the following fault diagnostic information
  - Low voltage

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**MECHANICAL  
CONTROL  
CONSOLE:**

The unit shall have a control console with switches for dual spray head tilt and fold, beacon light, water pump on/off and spray width solenoid switches. All switches must be labeled for function, action, and indicator lights. Tape type (dymo) labels are unacceptable.

\_\_\_\_\_

**PLUMBING &  
WIRING:**

All hoses and wiring must be new (unused). Any hose or wiring installed in locations where chaffing or other damage might occur must have protective coverings. All hoses and wiring will be adequately supported throughout the system.

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**HAND AND  
WASH TANK:**

A hand washing tank of no less than nine (9) gallons shall be installed.

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**WARRANTY:**

A minimum of 12 months on total unit (except warranty offered by suppliers that are for a longer period of time). The vendor shall have an established parts and repair facility, with capability of sending replacement or loaner parts within a period of 48 hours.

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**INSTALLATION:**

The work shall be completed at the vendor's location with the purchaser furnishing and delivering the truck to the vendor.

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**DELIVERY &  
TRAINING:**

The successful bidder shall deliver the completed unit.

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At a time determined by the successful bidder and the City of Birmingham, the vendor must provide up to eight hours of operator and maintenance training.

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The successful bidder shall provide a reference/parts manual, power point training presentation and a schematic diagramming all plumbing and electrical connections

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**FOB:**

**515 6th Avenue South  
Birmingham, AL. 35205**

**BID FORM**

W. E. Caffee  
 Assistant Purchasing Agent  
 Birmingham, Alabama

Submitted below is my firm bid chassis mounted roadside sprayer - retrofit for the City of Birmingham, in accordance with your invitation to bid and specifications dated September 3, 2015. Prices quoted are F.O.B. Birmingham, Alabama delivered and I am bidding in accordance with specification except as listed below.

Approx. Qty.	Description	Make/Model	Unit Price	Extended Total
1	Chassis Mounted Roadside Sprayer Retrofit as per specification.		\$	\$

I hereby certify that we do not discriminate in employment of our personnel against any persons on account of race, creed, color, sex, or national origins, and acknowledge, and agree, that the City encourages minority – and women – owned business participation to the maximum extent possible. This policy includes Historically Underutilized Business Enterprises such as architectural firms, engineering firms, investment banking firms, other professional service providers, and construction contractors as part of the City’s business, economic and community revitalization programs.

**EXCEPTIONS TO SPECIFICATIONS:**

\_\_\_\_\_

\_\_\_\_\_ Date of Bid

\_\_\_\_\_

\_\_\_\_\_ Company

\_\_\_\_\_

\_\_\_\_\_ Street Address

\_\_\_\_\_ Post Office Box (Zip if different the street address)

\_\_\_\_\_ Tax ID Number

\_\_\_\_\_ City State Zip

\_\_\_\_\_ Name (Print or Type)

\_\_\_\_\_ Terms of Payment

\_\_\_\_\_ Signature

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

\_\_\_\_\_ Title

\_\_\_\_\_ Telephone Number

\_\_\_\_\_ E-mail address

\_\_\_\_\_ Fax Number

Bidder acknowledges receipt of \_\_\_\_\_ addenda to the bid.  
 (Number(s))