



CITY of NOVI CITY COUNCIL

**Agenda Item 6
May 8, 2017**

SUBJECT: Approval to purchase dump truck chassis upgrades from Truck & Trailer Specialties, Inc., using the State of Michigan MiDeal cooperative purchasing contract, in the amount of \$118,062.

SUBMITTING DEPARTMENT: Department of Public Services – Field Operations Division *M.V.*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$118,062
AMOUNT BUDGETED	\$207,977 (101-442.30-984.008 – FLD13 Dump Truck Replace #687)
APPROPRIATION REQUIRED	\$0
LINE ITEM NUMBER	101-442.30-984.008 (FLD13 Dump Truck Replace #687)

BACKGROUND INFORMATION:

The Novi City Council appropriated funding the fiscal year 2016-2017 for purchase of one single axle dump truck with front plow, underbody scraper, wing blade, and ground speed controls. This equipment is similar to trucks previously procured to handle many types of maintenance activities; including shoulder grading, aggregate material transport, and winter snow removal and ice control.

On February 27th, the Novi City Council approved the purchase of a truck chassis to replace a 24-year-old asset with no modernized technology. Upon delivery of the chassis, it now must be outfitted with specialty equipment, such as a dump box, liquid dispensing system and a 7-foot wing plow (estimated to clear wide subdivisions streets up to 30% quicker than trucks not outfitted with this technology). The truck will also have a computer system that automatically adjusts salt and liquid application rates based on ground speed and pavement temperatures. The new on-board computer system integrates seamlessly with the PreCise Automatic Vehicle Location (AVL) system, currently used, so that all truck operating activities can be reported to a manager remotely.

Pricing for equipment was obtained through a MiDeal winter maintenance equipment contract, allowing us to continue to make our heavy duty fleet universal industry-wide. Standardizing equipment provides operational and training benefits to the drivers, so the vehicle is familiar and training fundamentals remain consistent.

RECOMMENDED ACTION: Approval to purchase dump truck chassis upgrades from Truck & Trailer Specialties, Inc., using the State of Michigan MiDeal cooperative purchasing contract, in the amount of \$118,062.

Truck Chassis



Radius Dump Spreader (RDS)



TRUCK & TRAILER *Specialties, Inc.*

1200 Victory Drive | Howell, MI 48843 | www.ttspec.com | Ph: (517) 552-3855 | Fx: (517) 552-3666

March 27, 2017

City of Novi
Attn: Mike Rhatigan, Fleet Asset Manager
45175 Ten Mile Road
Novi, MI 48375-3024



State Contract Hyperlink No: [071B5500010](#)

Equipment Quotation utilizing the state contract awarded to Truck & Trailer Specialties, Inc.

Chassis: 2018 International 7400 SBA 4x2, Single Axle
Contact: Mark Caracciolo, (586) 222-2940

Install Monroe 11 ft. model RDS-132-96-56 (Radius Dump Spreader) Body including the following:

Overall length is 132", outside width is 96" and overall side height is 56"
Tailgate height is 50", side height is 44" and 50" at the front
Body shell, head sheet and inner tailgate constructed of 3/16" type 201 stainless steel
Body top rail, corner posts and tailgate supports constructed of 3/16" 201 stainless steel
Body longitudinal is constructed of 1/4" type 201 stainless steel
Auger trough is constructed of type 201 stainless steel
Dual auger discharge with planetary gear boxes
Augers are 7" diameter and step-flighted
Augers include heat-treated, hard-surfaced auger flighting as per specifications
Tailgate is air-operated and includes an air cylinder mounted at the front of the body with latch rods extending to the rear and over center finger latches
Tailgate includes a patch gate at the rear
Tailgate construction is 3/16" type 201 stainless steel
Application rate sensor built into one motor- 100 pulse type
4 oval hole lights in stainless steel light wedges mounted to each rear pillar post
7 ga type 201 stainless steel single axle fenders mounted integrally to the body
Front and rear grease extension kits for bearings, tailgate cam and hoist trunnions
An auger floor cover constructed of 1/4" AR400 steel will be supplied
Bolt-on top screens 3/8" steel rods welded to form 2.5" squares
Proximity switch for body-up light
24" cabshield 10 ga. 201 stainless steel continuously welded to body
Install body prop kit on each side of the frame
Install Cougar model 3200 DC box vibrator
Install fold-down ladder mounted to the side of the body, streetside rear of dump
Install mudflaps fore and aft of rear driver tires with no advertising
Install bracket for the license plate on the rear tailgate on the left side

Install Mailhot-type, front-mounted Telescopic Hoist including the following:

Hoist is double-acting
Hoist includes nitrated cylinders
Hoist includes oscillating mounting collar and is trunnion-mounted
Hoist is NTEA class 90

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All necessary hoses and fittings will be Parker-type
Stainless steel piping will be used to extend the spreader, spinner, pre-wet and return oil circuits to the rear of the chassis
Return line manifold

Install Force America Control Center including the following:

FORCE America Patrol Commander Ultra 6100 spreader controller
The electronic controller shall be a single-handle design with a minimum of three miniature fully-proportional joysticks in the head of the handle to operate all cylinder functions
The primary joystick handle head shall include LED-backlit momentary pushbuttons for activation of remote standby and remote blast
The electronic spreader control shall be designed for precise, closed-loop control of granular and prewet liquid applications and operate on a CAN Bus protocol
The spreader control interface shall have two, color-coded, continuous rotation encoders for granular and spinner control
The spreader control display shall be a remotely-mounted, 7" diagonal color TFT LCD, with a low-profile 16:9 widescreen format and minimum of 800X480 pixel resolution
The operator menus shall be color-coded to match the encoder knobs on the operator interface
A proportional PWM driver and input module (Valve Module) shall be remotely mounted inside the hydraulic valve enclosure for control of both spreader control and joystick control outputs
Truck diagnostic calibration shall be completed prior to delivery
Supply one USB for firmware and storing calibration data

Install 34" Husting-type Front Hitch including the following:

12" structural C-channel front bumper with tapered back ends
Double-acting lift cylinder with Socatri rod
Serrated bar steps at the front bumper
Installed roller pins, rollers mounted to hitch frame base
Roller Kit Assembly, hitch-portion
Front tow hooks to be mounted on frame with bumper cut-outs
Two expanded metal front bumper steps driver and passenger side
Expanded metal traction strip placed across the top of the front bumper
Chain box to be mounted on the driver's side of the front bumper

Install Monroe model MP36R11-ISCT Snow Plow with mailbox trim on right-end including the following:

11' long on top, 36" across
Six (6) ½" x 4" vertical ribs, 4" x 4" x ¾" moldboard bottom angle, 2" x 3" x 3/8" moldboard top angle
Moldboard thickness to be 10 gauge
5/8" x 8" x 11' high carbon steel cutting edge with SHS punching.
Full-moldboard trip assembly with dual-compression trip
Integral shield style moldboard
Screw adjustable skid shoes to be mounted on the plow
A rubber snow shield to be mounted across the top of the plow
Blade guides
34" Husting plow-portion hitch
Roller Kit Assembly, plow-portion
Plow is powder-coated Red Monroe standard color IH RED MTE-439

Install Monroe model 4512 Underbody Scraper including the following:

12' x 20" x 1" moldboard
Moldboard is grade 50, hi-tensile steel, not heat-treated
All cylinder rods are Socatri-type, not nitrated

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Wing work light

Console switches for the following:

Tarp in/out

Air-tailgate

CommandAll programmable switch assembly installed for the following:

Low-oil pump override

Front flashers

Rear flashers

Plow bracket flashers

Spreader on/off

Install ¾" Rear Hitch Plate including the following:

PH-20 pintle hook with multi-drill mounting holes for adjustment height of pintle hitch

There shall be two (2) ¾" D-rings welded on each side for tow chains

Rear tow hooks mounted outside of frame rails

Install Preco 1040 back-up alarm

Electric plug 7-way round pin

Install RoadWatch Kit for Force America 6100 including the following:

Road temperature sensor mounted on mirror and display mounted in-dash

Sensor cables for connecting to Force America 6100 spreader controller

Includes mounting, necessary wiring and installation

Install Precise AVL Monitoring System including the following:

City-supplied Precise unit, tying into proximity switches

City to supply unit and cables for wiring

Install Rearview Camera with Wash System including the following:

M.S. Foster & Associates Inc. system mounted to monitor salt load

NEMA enclosure and washer fluid tubing

MSF1128-08A camera wash

VCMS155B color camera

CEC34 main cable for monitor

VOSHD6MNT LCD monitor mount

MSF5000 Stainless steel camera box

VOM74WP 7" LCD color monitor

Install Fire Extinguisher and Triangle Kit

Install Electric Brake Controller

Install Flaming River Electrical Shutdown including the following:

3-minute timed delay switch mounted in-cab

Enclosure with LED indicator light

Install Rustproof top of floor in-cab, remove floor mat and install rustproofing

Above installed and non-stainless steel painted: \$118,062.00 ea.

Chassis requirements to be confirmed prior to order entry:

CA: 120"

6-pack of chassis switches

Delete OEM bumper

Front frame extension

Front of engine PTO

Stationary grill