

CITY OF WESTERVILLE
2016 Dump Truck Upfitting Project

Sealed bids for the **2016 Dump Truck Upfitting Project** will be received by the City of Westerville, Ohio at the office of the City Manager, 2nd Floor, 21 S. State Street, Westerville, Ohio, 43081, until **3:00 p.m. (local time) on Wednesday, June 8, 2016** and will be publicly opened and read immediately thereafter.

Addendum No. 01

Changes

1. **Contract Bid Document and Specifications**

BID SCHEDULE

Delete: BID SCHEDULE in its entirety.

Add: BID SCHEDULE attached (updated BID SCHEDULE includes two new alternates).

2. **Contract Bid Document and Specifications**

SPECIFICATIONS

Delete: SPECIFICATIONS form in its entirety.

Add: SPECIFICATIONS form attached.

Information

1. **REQUEST FOR INFORMATION** - The following is in response to RFIs received by the City of Westerville.

Q1. Is the City able to furnish “line specs” for the new Freightliner truck chassis?

A1. The City has purchased both new Freightliner truck chassis through FYDA Freightliner Columbus. Please contact our sales representative, Steve Tancos at stancos@fydafreightliner.com or 614-335-6292 for details related to the City’s order.

Q2. Can you provide the vendor sign-in sheet for the non-mandatory pre-bid conference held on May 20?

A2. Yes. The sign-in sheet has been attached.

End of Items.

BID SCHEDULE

We (I), the below signed hereby propose to furnish the following article(s) and/or services at the price(s) and terms stated subject to all instructions, conditions, specifications, and all attachments hereto. We (I) have read all attachments including the specifications and Addendum No. 01, issued May 24, 2016, and fully understand what is required.

Unit Prices set forth shall include all materials, equipment, labor, delivery, installation, overhead, profit, and any other cost or expense, in connection with or incidental to, the performance of that portion of the work to which the prices apply.

***** BIDDERS MUST SIGN THIS BID SCHEDULE ***
SEE PAGE 2 OF THE BID SCHEDULE FOR SIGNATURES**

<i>Description</i>	<i>Estimated Qty.</i>	<i>Unit</i>	<i>Unit Price</i>	<i>Extended Price</i>
BID ITEM #1 – Furnish and install Dump Body per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
BID ITEM #2 – Furnish and install Underbody Hoist per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
BID ITEM #3 – Furnish and install Plow Hitch per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
BID ITEM #4 – Furnish and install Snow Plow per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
BID ITEM #5 – Furnish and install Spreader per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
BID ITEM #6 – Furnish and install Central Hydraulic System per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
BID ITEM #7 – Furnish and install Liquid Pre-wetting System per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____

BID TOTAL (*Sum of Items 1-7*) \$ _____

\$ _____

(In Words)

Description	Estimated Qty.	Unit	Unit Price	Extended Price
Alternate #1 – Furnish and Install Central Hydraulic System with Summer Bed only Control Box per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
ADD / SUBTRACT <i>(please circle)</i>				

Alternate #2 – Furnish and install Transmission Mounted Constant Mess PTO per Specifications	2 <small>(truck 722 & 724)</small>	EA	\$ _____	\$ _____
ADD / SUBTRACT <i>(please circle)</i>				

CONTRACTOR COMPANY NAME (Type/Print):

ADDRESS (Type/Print): _____

CITY/STATE/ZIP: _____

NAME (Type/Print): _____

SIGNATURE: _____ **DATE SIGNED:** _____

TITLE (Type/Print): _____

PHONE NUMBER: _____

E-MAIL ADDRESS: _____

**SPECIFICATIONS
2016 DUMP TRUCK UPFITTING PROJECT**

The scope of work associated with the 2016 Dump Truck Upfitting Project requires contractors to furnish and mount the below specified upfitting equipment on two new 2017 Freightliner 108 SD truck chassis (City trucks #722 and #724). All work to be performed to the complete satisfaction of the City of Westerville. Any exceptions to the stated specifications MUST be identified and an accompanying explanation should be provided where indicated. Should more space be needed to report exceptions, additional sheets may be attached.

Bidders are urged to include a completed Specifications form with noted exceptions, upfitting equipment product specs, and warranty information in their sealed bid. If not included with bidders sealed bid, a completed Specifications form with noted exceptions, upfitting equipment product specs, and warranty information should be submitted to the City within two (2) business days of the bid opening.

Consistent with the Information to Bidders, please note that the description, manufacturer's name, and brand names used in these specifications are for the sole purpose of showing the quality and type of article expected and are not intended to exclude or eliminate any bidders. These are the acceptable minimums. All bids must be on materials, supplies or equipment which equals or exceeds all phases of these standards as determined by the City Manager. Any bidder bidding materials, supplies or equipment different from those used in the specifications shall furnish with his bid evidence that the item bid is of at least equivalent quality and type as those specified in the specifications.

Bid Item #1 - Dump Body Specifications Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with dump body meeting the below specifications	Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
	Yes	No	
1 10' long x 7' wide (inside)			
2 Side height shall be 54" at the front of the body to floor of bed, tapered to 36" at the tailgate; no sideboard pockets			
3 Boxed top rail on top of sides			
4 One 6" wide horizontal side brace to prevent any collection of material			
5 7 gauge 304 stainless steel construction w/#2 finish			
6 Interlaced understructure fully gusseted and welded to body - crossmembers on 12" centers			
7 Sloping rub rails			
8 2" side to floor radius			
9 Heavy duty double acting tailgate with boxed vertical and horizontal bracing; tailgate to be of the six panel design; spreader chains and overshot type hardware; tailgate shall be 36" high - floor to top			
10 Coal door in tailgate - control handle to left side with lever lock to hold gate open - no chains; leave 3/4" to 1" spacing under coal door track to prevent accumulation of materials in track			
11 Air operated tailgate			
12 Upper tailgate hinge pin alignment set so that the tailgate can be lowered horizontally and returned to its normal position with ease			

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13	One step on each side of body (between side braces - with two grab handles (one below below horizontal brace - one below top rail) with one pull out EZ Step installed on each side			
14	Boxed type side braces - three per side, extending from lower sloping rub rail to boxed top rail			
15	Two banjo eyes on each rear corner post - location to be determined at time of order			
16	Continuous welding throughout body			
17	Light cut outs to be 3-2.5" X 6.5" oval each side			
18	Full depth rear corner posts - 6 1/2" wide at rear x 11" deep x 42" high			
19	Full width rear bolster			
20	Integral 1/2 cab shield built into the front of the body with the floor of the cab shield extending over the front of the body and down the inside of the body - 3" lip on cab shield, continuous weld on cab shield			
21	5/8" x 34" x 18" steel plate incorporated in rear of chassis frame and welded solid with gussets to bottom of frame, to be just behind rear spring hangers			
22	7 Flat RV style trailer plug			
23	Two B-40 5/8" safety chain eyes & trailer break away eye welded to pintle plate on rear frame.			
24	One 2 (two) inch combination ball/pintle hook bolted to plate in rear of chassis frame; 25" from ground to top of ball			
26	Custom built tool box built into the front of the dump body, 12" wide x 12" high x 7' long, hinged door on each end with twist type latches and keyed locks. Adjustable latch on each door. Two heavy duty hinges on each tool box door. 1/2" x 1/2" lip across top and back side of each door. 1/2" lip across opening of each door on floor on the inside of the compartment. Doors to have water proof seals. Rail from door to edge of body is to slant downwards away from door.			
27	LED marker lights; factory body light wires will be removed and replaced with new wire. All wire connections shrink wrapped near light plugs. All power connections will be run to a truck light sealed junction box. Connections will be made in box and coated with protective grease.			

28	Light system - Twin Star 257H8TL LED beacons mounted on aluminum light bar on cab roof. VBL MTL LEDAX 4411-19C LED spreader light mounted on left rear corner of dump body. Meyers M-7550 plow lights mounted on goal post style bracket on front of truck hood. Rear strobes, stop/turn/tail, and back up lights are to be 6" oval LED mounted in rear posts of dump body. Rear strobes are to be Star model LDHEF-6A. All lights to be controlled by factory truck switch panel			
29	Manual tarp with hand crank; removable shield Donavan Enterprises 2000X			
30	Manufacturer's standard warranty on all parts and labor			
31	Make and model of bidder's system:			
Bid Item #2 - Underbody Hoist Specifications Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with underbody hoist meeting the below specifications		Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
1	HEIL model 1821 DA underbody hoist less hydraulics; or equivalent			
2	Double acting: power raising & power lowering 2.75" hard chrome plated piston rod, hydraulic cylinder			
3	Full subframe of 1/4" steel with cross members fully gusseted to side rails			
4	Twin lift arms			
5	50 degree dump angle			
6	Heavy duty rear hinge assemblies			
7	34,600 lbs. lifting capacity			
8	Twin safety body props			
9	Body raised warning light			
10	Manufacturer's standard warranty on all parts and labor			
11	Make and model of bidder's system:			
Bid Item #3 - Plow Hitch Specifications Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with plow hitch meeting the below specifications		Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
A.	Hitch - Gledhill Model # FFLP-QCP-DP			
1	Horizontal frame constructed two structural I beams 4" at 7.7#			
2	Upright portion of frame to be constructed using two structural I beams 4" at 7.7#			

3	3/4" x 3" steel bar welded at intersections of upright I beams and horizontal I beams.			
4	Reinforced ram support 4" x 3" x 1/2" angle steel welded to both vertical I beams			
5	Crosstie angle located at bottom of vertical I beams to be 6" x 4" x 3/8"			
6	Crosstie angle welded center of horizontal I beams to be 3" x 3" x 1/2"			
7	Outside, horizontal beam front filler 1/4" x 3-1/2" with welded hammer strap on centerline spacing for plow connecting ears.			
8	Lift beam 1" x 3" steel bar.			
9	Two (2) left beam braces 3/8" x 2-1/2"			
10	Hydraulic cylinder assembly shall connect to lift beams and to ram support angle.			
B. Plow Hoist Cylinder				
1	Double acting ram 3" bore x 10" stroke minimum			
2	Steel rod with one (1) mil. Hard chrome plate (minimum)			
3	Steel ram sleeve and outer cylinder barrel.			
4	Minimum 14, 137 lbs. thrust at 2000 psi			
5	16,000 psi bursting pressure at 2000 psi			
6	Minimum weight of cylinder 22 lbs.			
7	Inlet port - 3/8" NPT located at base of outer tube			
C. Truck Coupling				
1	Curved pushing plates: 5/8" steel plate			
D. Paint - BLACK				
E. Manufacturer's standard warranty on all parts and labor				
F. Make and model of bidder's system:				
Bid Item #4 - Snow Plow Specifications Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with snow plow meeting the below specifications		Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
A. Snow Plow Model # 9HSBPR2-QCP-LL				
1	Moldboard			
2	Height - 42" (uniform)			
3	Length - 9' (at cutting edge)			
4	#10 gauge steel			

5	Built-in baffle with rubber deflector			
6	Top full length reinforcement minimum 3" x 2" x 3/8" angle steel			
7	Bottom one-piece reinforcement minimum 4" x 4" x 3/8" angle steel			
8	6 minimum vertical reinforcement ribs 1/2" x 3" formed steel, continuously welded to Moldboard			
9	Minimum 10 ears, 3/4" thick in lower rear cross angle, with 1" diameter Grade 5 pins.			
B. Cutting Edge				
1	Blade to be double with an abrasion resistant steel C1090 or approved equal with Brinnell hardness of 250 minimum and 325 maximum fitted in front of a Kennametal (or equal) carbide-edged blade with insert to have a 30,000 psi shear strength, density of 14.1 to 14.5 g/cm, and hardness of 87.5 to 89.0 HRA. Grade 8 number 3 head plow bolts with self locking nuts shall be used in mounting.			
2	5/8" thick x 8" wide and 9' long.			
C. Tripping Mechanism				
1	Attached to reversing table and to moldboard			
2	Minimum 3 extension springs 4-1/2" O.D. x 1/2", oil tempered spring steel wire with cold formed hooks.			
3	Forward motion control by telescoping tripping post assembly 1-1/4" x 2" inside bar, 3/4" x 2-1/4" outside bar, and 1/4" x 2" reinforcement bars.			
D. 24" Plow markers are to be included				
E. Hydraulic Reversible Table				
1	Minimum 10 ears, 3/4" thick on 88' hinge point, centers to attach to corresponding ears on moldboard.			
2	Semi-circular shape			
3	Two (2) 3/4" angles will be so located to act as structural stops to the corresponding rubber bumpers that are attached to the 'A' frame and the two members come into contact at the 35 degree plow angle.			
4	The lift chain assembly shall include a zinc plated 7/16" proof coil chain along with a cast steel chain clock to help facilitate reversing the plow from right to left.			

F.	"A" Frame			
1	Additional bracing shall include cross angles of at least 4" x 4" x 1/2" and 4" x 3" x 1/2" with extra strength provided by at least four (4) gussets of 1/2" x 5-1/2"			
2	The front of the 'A' frame shall attach to the table with a minimum of a 2" diameter pin.			
3	Connecting the two (2) push channels shall be the plow portion of the quick hitch. This member consists of a high carbon steel bar 1-15/16" diameter cold formed into a "U" shaped loop.			
4	Permissible misalignment in hitching: loop at rear of plow can be high or low through a range of six (6) inches. Truck can be right or left of center through a range of seven (7) inches.			
G.	Hydraulic Reversing Cylinder			
1	Shall consist of two (2) double acting hydraulic cylinders of at least 4" inside diameter with piston rods of at least 2" diameter, and a stroke of at least 20".			
2	These cylinders shall be capable of reversing the plow from 35 degrees right to 35 degrees left or hold the plow at any angle within this arc. The cylinder geometry and components of the hydraulic system shall be designed to hold the plow at any desired plowing angle without recourse to a locking device, under maximum load, without overloading rated capacities.			
3	The hydraulic power shall be sufficient to change the plowing angle by any amount within the previously mentioned limits while the truck is in motion, the plow down, and plowing snow at full capacity.			
4	Level lift option for plow			
H.	Manufacturer's standard warranty on all parts and labor			
I.	Make and model of bidder's system:			
Bid Item #5 - Spreader Specifications		Comply		Noted Exception(s)
Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with spreader meeting the below specifications		Yes	No	(when responding "No" add comments here explaining any exceptions)
A.	Hopper			
1	1/4" stainless steel end plates			
2	Auger trough 7 Ga.; 304 stainless steel			
3	Interior seams continuously electric welded			
4	Auger cover plate 7 Ga.; 304 stainless steel			

5	Removable anti-flow cover plate 7 Ga.; 304 stainless steel			
B. Auger				
1	Size: 6" diameter welded to 2" schedule 40 pipe			
2	Reversible helicoid flighting 3/8" with 4" pitch			
3	Auger support bearing 1-1/4" sealed, self-aligning, anti-friction, 2-bolt flange-type ball bearing mounted on outside of hopper			
C. Auger Drive				
1	5:1 reduction speed reducer direct coupled to auger			
2	"orbital" type motor provide 4700 inch pounds at 110 RPM			
D. Spinner				
1	Polyurethane, self-leveling spinner plate diameter 20" with 6 formed fins			
2	Connection to orbital motor by cast hub			
3	Mounted left side of hopper			
4	Adjustable spreading direction from left, to center, to right of truck			
5	Spinner shield			
E. Short Hose Kit				
1	Four (4) 1/2" diameter hoses			
2	One end swivel fitting, the other end rigid fitting			
3	Provide 4 quick couplers			
F. Manufacturer's standard warranty on all parts and labor				
G. Make and model of bidder's system:				
Bid Item #6 - Central Hydraulic System Specifications Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with central hydraulic system meeting the below specifications		Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
1	Hot shift PTO/pump combination mounted on Allison automatic transmission			
2	Pengwyn 485 Ground Speed Central Hydraulic System, Part #485-EBPC-IT-SAS-RH			
3	System is to be installed on console in the cab all lighting functions are to be controlled by a common switch panel - location of console is to be determined by City of Westerville personnel.			

4	Body up light and PTO warning light mounted on console.			
5	Hydraulic hoses run to the front and rear of the truck for snowplow and salt spreader - hoses to have quick disconnects - rear hoses for spreader are to be mounted in the rear corner posts of the dump body.			
6	Manufacturer's standard warranty on all parts and labor			
7	One CD each of parts and technical service manuals to be provided			
8	Make and model of bidder's system:			
Bid Item #7 - Liquid Pre-Wetting System Specifications Furnish all material, equipment, labor, and appurtenances necessary to upfit a new 2017 Freightliner 108 SD truck chassis with liquid pre-wetting system meeting the below specifications		Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
1	Pengwyn Model #CS-080 or equivalent; to be mounted on frame between Cab and dump body			
2	System to be constructed of non-ferrous and/or corrosion resistant materials - all mounting brackets and hardware are to be stainless steel			
3	System designed to spray Ice Ban Summit M or liquid of equal viscosity			
4	Reservoir tank shall have a minimum 80 gallon capacity, be constructed of a rotationally molded and UV stabilized polypropylene material (natural color) and have internal baffles.			
5	Tank shall have a minimum of two (2) 5" fill ports with caps that are lanyard retained and will also include a low-level switch and vent - low oil shall be indicated both visually/audibly			
6	The ports shall be located as close to the bottom of the tank as possible			
7	Three (3) brass spray nozzles shall be located in the spinner chute assembly - two (2) nozzles shall be located on the front side of the chute and one (1) mounted on the backside of the chute - all plumbing is to have brass fittings (no plastic)			
8	A 5_PSI check valve shall be installed as close to the nozzle as possible to prevent siphoning of the liquid chemical			
9	Plumbing components (with the exception of the check valve) shall be constructed of heavy duty, glass reinforced polypropylene			

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10	Manufacturer's standard warranty on all parts and labor			
11	Make and model of bidder's system:			

	Alternate #1 Furnish and Install	Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
Alt. 1	Central Hydraulic System to include summer bed only control box (Pengwyn #485-BEBX)			

	Alternate #2 Furnish and Install	Comply		Noted Exception(s) (when responding "No" add comments here explaining any exceptions)
		Yes	No	
Alt. 2	Transmission mounted constant mess PTO; pump can turn on and off at any speed.			

