



**O.J. Watson Company, Inc.**  
 5335 Franklin Street  
 Denver, Colorado 80216  
 303-295-2885 or 800-332-2124  
 Fax: 303-296-8049  
 www.ojwatson.com

## Quotation

Page 1 of 8

**Customer:** City & County of Denver  
 DPW Fleet Maintenance  
 5440 Roslyn  
 Denver CO 80216

**Work Order:**

**Contact:** Doug Legg  
**Phone:** 720-865-4112  
**2nd:** 303-513-6816  
**Fax:** 720-865-4181

**Salesperson:** Dick Eckrich  
**Quote Number:** RKE170-1  
**Quote Date:** 3/7/2017  
**Revision:** 1

### Vehicle Information:

<b>Year, Make &amp; Model</b>		<b>Key #</b>	
<b>VIN #</b>		<b>Unit #</b>	

### Description of Work:

Qty	Part Number	Description of Work	Each (\$)	Total (\$)
1		Pricing per C-DOT award number 311000523		

O.J. Watson Company, Inc. is please to submit the following quotation in accordance with The City & County of Denver Waste Water specifications including:

<b>DUMP BODY:</b>	\$22,061.00	\$22,061.00
Body Length: 180		
Up-charge from 10" body to 15' body		4,755.00
Up-charge from mold steel to stainless steel		10,450.00
Up-charge for BARN DOOR rear gate		2,565.00
Conspicuity tape		450.00
Tool box		775.00
1880571 MAB-SLSS304-84/96-1500-17Y-M63153-58/42/		
Body ID: 84		
Body Style: SELECT SS Body OD: 96		
Hoist Mounting Type: BAILMOUNT		
Side Style: SINGLE PANEL W/RUBRAIL		
Rear Style: STRAIGHT		
Frame Style: 8 WESTERN TUBULAR Front Height: 58		
Side Height Front: 42 Side Height Rear: 42 Rear Height: 54		
*Front Material: 7GA 304 STAINLESS STEEL*		
*Side Material: 7GA 304 STAINLESS STEEL*		
*Rear Material: 7GA 304 STAINLESS STEEL* Floor Material: 1/4 AR400 STEEL		
Frame Material: 1/4 A1011 STEEL-1/4 A1011 STEEL Outer Side Material: 10GA STAINLESS STEEL		
Rear Pillar Width: 18		
Tailgate Release Type: AIR		
Tailgate Hinge Type: 1.5 THICK / 7 OFFSET Tailgate Thickness: 3.5		
Tailgate Bracing Style: 1H / 2V		

**Includes one pair 8" Stainless Steel bang boards with rubber bumpers.**



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Qty	Part Number	Description of Work	Each (\$)	Total (\$)
		<p>*1 PC BARN DOOR TAILGATE* *WILL DUMP THRU BUT CANNOT LAY DOWN*</p> <p>Side Vertical Style: TRAPEZOID Front Brace            Chainslot Bracket Type: BANJO            Stainless Rear Pillar Rubrail: REAR PILLAR/PILLAR CAP/RUBRAIL Rear Oval            Light Cutouts: 3 OVAL            Prime Body: FLOOR/UNDERSTRUCTURE</p> <p>CAB SHIELD:            Weld on            10 GA. 304 stainless steel            1/2 x 88.6"            Two -2- oval light cutouts facing forward &amp; one -1- on each side to accommodate Whelen 500 series flush mount lights            Enclosed wiring runs between all lights</p> <p>DUMP BODY MISCELLANEOUS:            8" stainless steel, pin type removable, rear asphalt apron.            Dump Body Vibrator mounted to vibrator plate            MTE RDS style 8" stainless steel bang boards with rubber cushion top assembly            One -1- shovel holder installed on the STREETSIDE of the body at the front            One -1- RIGID Right Front Ladder            One -1- RIGID Left Front Ladder            Front of tandem stainless steel splash shields attached to body            Rear Removable and stow-a-way mud flaps            Back-up alarm            Drivers Height warning sticker per CCD RDS specifications            RED &amp; WHITE Conspicuity tape installed down each side of dump body on top box rail and lower rubrail            RED &amp; WHITE Conspicuity tape installed on rear tailgate on top and bottom panels            RED &amp; WHITE Conspicuity tape installed around the upper tarp arm</p> <p>TOOL BOX:            One -1- frame mounted 24" x 18" x 18" tool box mounted ahead of the tandems STREETSIDE</p> <p>CRYTEEL MARATHON HOIST:            Hoist Mounting Type: BAILMOUNT            Crysteel M63153 in NTEA class 120            Operating pressure of 2500 PSI            50-degree dumping angle            Single acting (double acting optional)            3 stages (6", 5", 4") and 153" stroke            Lifting capacity 41.8 tons            8" structural channel longitudinal required            Two body props to support empty body weight            Critical rotating pivot points equipped with composite bearings</p>		



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		<p>The hoist cylinder shall incorporate the "Auto Bleed" technology, an internal spring assisted device to automatically remove air from the cylinder and hydraulic lines whenever the cylinder is extended and retracted. The device shall not bleed air directly to atmosphere and shall use hydraulic fluid to push air out of the cylinder and back to tank. (Double acting does not require "Auto Bleed" device.)</p>		
		<p><b>Floating Cradle</b>          Hoist shall be equipped with a lower mount consisting of a retaining box with an inner, floating cylinder mount that accommodates some truck frame movement without moving the telescopic cylinder, reducing the stress on the telescopic cylinder.</p>		
		<p>Furnish and install one -1- rear trailer hitch plate package in accordance with the City &amp; County Denver RDS Body specifications including:</p>		
		<p>MTE Laser cut Rear hitch assembly part number 00152111 including:          Integrated dump body rear hinge assembly          1" Steel plate 100% welded          2 - 3/4" safety D-rings mounted on each side of pintle hook          One set glad-hands located through each side of the hitch plate          PH Pintle height 24" from ground to the inside of the bottom of the hook saddle          7-Way round trailer socket w/weather proof boot (filled w/dialectic grease)          LED style 3-ID stop/turn placed top of hitch plate          License plate bracket and light installed mounted above pintle plate (not as shown)          BLACK paint</p>		
		<p>Furnish and install one -1 - dump body mounted Lighting System in accordance with the City &amp; County of Denver Waste Water specifications including:</p>		5,428.00
		<p><b>EMERGENCY:</b>          One -1- Whelen series 500 AMBER rubber grommetted LED style light          STREETSIDE in dump body rear pillar          One -1- Whelen series 500 BLUE rubber grommetted LED style light          CURBSIDE in dump body rear pillar          Two -2- Whelen series 500 RED rubber grommetted LED style stop/tail/turn lights installed in rear body pillars          Two -2- Whelen series 500 clear LED style back up lights installed in the rear pillars          Two -2- Whelen series 500 BLUE rubber grommetted LED style lights mounted in the CURBSIDE of the cab shield, one -1- facing front and one -1- facing to the side          Two -2- Whelen series 500 AMBER rubber grommetted LED style lights mounted in the STREETSIDE of the cab shield, one -1- facing front and one -1- facing to the side</p>		
		<p>Lighting Note:</p>		



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		Lights are to be actuated "AMBER ONLY" and "BLUE ONLY" from auxiliary switches located in the Certified Power console		
		<p><b>WIRING:</b>            Wiring is to be "home-run" into cab of truck            Dielectric grease is to be applied to all Deutsch connections at individual light heads            All holes in cab floor for wiring access are to be completely sealed</p> <p><b>Steel Dump Body Installation Note:</b>            Rear facing amber/blue strobe lights are to be stacked in the rear body pillars</p> <p><b>DUMP BODY:</b>            LED maker lights            Licenses plate light installed on upper right hand side of hitch plate            LED 3-ID light installed on top center of hitch plate</p> <p><b>SNOW PLOW LIGHTS:</b>            Truck Light part number 80863 LED style snow plow            Integrated LED turn signal light            Fender mounted stainless steel brackets            Actuated from OEM snow plow light switch</p> <p><b>SANDER LIGHTS:</b>            Denver light group (7) markers &amp; stop/turn/tail in enclosed box with seven pole plug            Rear mounted LED style spinner light actuated from Certified Power switch box</p>		

<b>SNOW PLOW:</b>				
Monroe MPPJ39R10-ISTT PARA-LIFT J-STYLE Torsion trip Edge Snow Plow including:	\$ 10,626.00			9,563.69
X90%				1,200.00
Labor 12 hours @ 100.00				
Moldboard sheet shall be 3/8" thickness of UHMW polymer with built-in integral shield				
Polymer sheet shall be bolted at the top of the moldboard to a 2" x 3" x 3/8" top moldboard angle				
Two 4" x 14" power reverse cylinders with cushion valve				
KUPER GK-5 cutting edge (2) section trip edge				Included
Ten 1/2" solid one-piece flame cut vertical ribs				
4" x 4" x 3/4" bottom moldboard angle				
Six 3/4" adjustable torsion springs				
Parallelogram style lift				
Main push tube is to be 4" x 4" x 4/8" A36 seamless square wall tubing				
Fabricated A36 steel 3-1/2" x 3-1/2" x 1/2" semi-circle				
Moldboard and frame to be 100% continuously welded				
NEW TRUNION STYLE Parallelogram lift frame				
(2) Section trip edge Kuper GK-5 cutting edge				

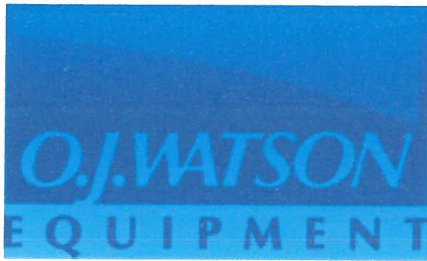




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Qty	Part Number	Description of Work	Each (\$)	Total (\$)
		(2) Winter Equipment HC-6-3-12 curb guards 96.60x90%		\$86.94
		Rubber snow deflector installed 362.12 X 90%		325.90
		Orange poly sight markers 51.45x90%		\$46.30
		1.5 hours labor to install @ \$100/hour		\$150.00
		Jack brackets for CITY SUPPLIED Snow wheels brackets to have four sets of mounting holes for height adjustment		
		The moldboard height of the plow is 39 inches The overall width of the plow is 10 feet		
		<b>PLOW HITCH:</b>		
		Monroe Flat Plate Truck Hitch to accommodate Para-Lift style snow plow including: \$8409.60x90%		\$7568.64
		Labor to install: 21hours @ \$100/hour		\$2100.00
		The truck portion hitch shall consist of a 5/8" flat plate reinforced with angle and bar stock. It shall have two 2" spring loaded attaching pins to connect the plow. When plow is disconnected, only flat plate will remain. Accessible disconnect lever shall be located on the left side of the hitch. All hardware and fastners shall be grade 8, electronically plated and corrosion resistant.		
		Hitch to be powder coat painted black HITCH TO FIT 46.5" FRAME WIDTH \$2291.10x90%		\$2061.99
		NOTE: Hitch release handle to be at top of hitch.		
		Snow plow lights (City and County of Denver)		\$850.00
		Furnish and install at Monroe factory a Monroe model MTE4500, 11' underbody scraper with the following: \$13220.55x90%		\$11,898.49
		Labor to install: 46 hours @ \$100/hour		\$4600.00
		20" high X 1" thick moldboard.		
		Two (2) HD shock absorbers with replaceable trunnions		
		Cushion valve.		
		1" solid circle with 5" plated center pin.		
		4" X 12" reversing cylinders.		
		Three (3) hinge anchor points.		
		One pair of hanger brackets 3/4"X22"x26". \$273.00x2=\$546x90%		\$491.40
		In-line relief valve, per set at 500PSI. \$117.60x90%		\$105.84
		To accommodate the underbody scraper Monroe will fabricate and install a 40 gallon back of cab hydraulic oil reservoir with valve enclosure. This will be supplied in lieu of the 30 gallon reservoir supplied by Certified Power.		\$4750.00
		Furnish and install a Monroe 1800 gallon liquid system with the following:		
		Kit Price		\$14,878.65
		Controls Pricing: \$2198.20x90%		\$1978.38
		Labor to install: 36 hours @ \$100/hour		\$3600.00
		1800 gallon 3 lane, one tier, slid-in unit.		
		System will have two 900 gallon tanks with portion wall baffle.		
		16" manhole.		
		Gallon marking provided on one end of tank.		



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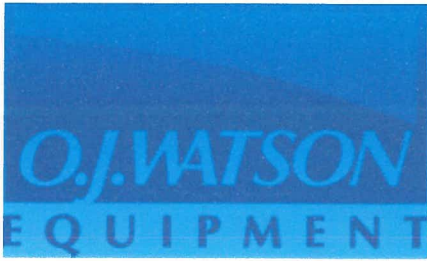
Qty	Part Number	Description of Work	Each (\$)	Total (\$)
		<p>Tank skid manufactured from stainless steel with provisions for loading and un-loading.            Tank will have a three year limited warranty.            Steer wheels will be provided on the front edge of skid for ease of loading and un-loading.            Skid assembly is held in place by a tailgate latch and ratchet with nylon straps.            Adjustable stainless steel center spray bar with solid stream non adjustable nozzles.            Spray bar is adjustable from 14" to 20" off the road surface.            The side lane spray bars has adjustable solid stream nozzles and are placed no higher at 14" - 20" from ground.            12 volt DC ball valves are provided for activation and deactivation.            100 gpm rayed flow meter.            Three (3) ball valves controlled from inside the cab.            A in-line filter installed before the pump.            System will be capable of self-loading liquids from a ground based tank or mobile nurse tank.            A three (3) inch fill will be provided at the rear approximately 42" from ground.</p>		
		<p>Furnish and install one -1- Certified Power PTO driven Central Hydraulic system per the City &amp; County of Denver Waste Water specifications including:            (System is identical to the current CCD Streets Department RDS system)</p>		\$15,920.00
		<p>Controls Pricing:</p>		\$488.00
		<p>Options, to operate all functions:</p>		\$7,852.00
		<p>Pedestal Mount</p>		\$1742.00
		<p>PTO:            Extended shaft HOT SHIFT PTO model CPTO 890HAFJW-B5AF</p>		
		<p>HYDRAULIC OIL RESERVOIR:            35 gallon "Indiana style" enclosed mild steel VM tank            Circulating connections with Parker QD's            KZ10 filter element            Hydraulic test ports on plow balance valve            Liquid filled pressure gauge on inlet in valve enclosure and an electronic pressure transducer to provide pressure on the AGS control display</p>		
		<p>VALVE:            PVG32/100 valve set operating:            DA Hoist with port relief            DA plow, Up - Down with port relief            DA plow angle            DA auxiliary section including:            -4- function manifold for spinner / auger / Pre-wet and anti-ice</p>		
		<p>SEAT MOUNTED CONTROLS:            Freedom series XDS Control Guard console with single joy-stick module</p>		



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Qty	Part Number	Description of Work	Each (\$)	Total (\$)
		Arm rest with integrated auxiliary switch pack CCD wiring harness		
		PLUMBING: Stainless steel hydraulic lines Miscellaneous hydraulic hose "jump" lines to hydraulic couplers where required 2P508-4-12-N-F & N-M Faster couplers for front parallelogram style snow plow. (Coupler is to be located on the inside of the front frame section STREETSIDE) Parker "Flat-Face" couplers for the V-Box are to be located on the CURBSIDE of the rear hitch plate at the top, with face of the coupler behind the front of the plate for protection from asphalt operations		
		MISCELLANEOUS: Roadwatch temperature system		
		SDPP 83027121 JR-R-S75C-LS-14-24-NN-N-3-A3NH DBN-NNN-JJJ-NNN (WET SPLINE)		
		NOTE: NO HIGH PRESSURE BALL VALVES ARE ON THIS QUOTE, THE BALL VALVES WERE NOT USED THE PILOT TRUCKS. CTIM WPF302QEVE2KS161 PARKER FILTER ASSY, 2 MICRON *4280 MTCA2352P4BXKXAAEAEA-BGH 35 GALLON PAINTED RESERVOIR		
		INDIANA STYLE ENCLOSED VM TANK, CIRCULATING CONNECTIONS WITH PARKER Q.D. PVGI00/32 KZIO SYNTHETIC FILTER ELEMENT HYDRAULIC TEST PORTS ON PLOW BALANCE VALVE***** LIQUID FILLED PRESSURE GAUGE ON INLET IN VALVE ENCLOSURE AND AN ELECTRONIC PRESSURE TRANSDUCER TO PROVIDE PRESSURE READING ON THE ACS CONTROL DISPLAY. PVG32/100 VALVE TO OPERATE: PVGIOO D.A. HOIST W/PORT RELIEF; PVG32 D.A PLOW U/D W/PORT RELIEF; PVG32 D.A. PLOW ANGLE; PVG32 D.A. AUX SECTION; 4 FUNCTION MANIFOLD FOR SPINNER, AUGER, PRE-WET AND ANTI-ICE.		
		Factory install of all equipment per City & County of Denver specifications		
		PDI Equipment and deliver to customer.		\$2258.00
		Furnish and install a City & County of Denver designed front latching system for the liquid slide-in tank. This will be supplied in lieu of the ratchets and straps.		\$955.00
		Unit Price FOB Denver:		\$141,955.22
		X6=		\$851,731.32



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**Total Price not including Options or Taxes: \$851,731.32**

### Options:

Qty	Part Number	Description of Work	Total (\$)
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### Notes:

Accepted

By: \_\_\_\_\_ Quoted By: Dick Eckrich

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

Date: 3/7/2017