

DEPARTMENT OF PUBLIC WORKS
Operations Division
2625 East Glendale Avenue
Appleton, WI 54911
TEL (920) 832-5580
FAX (920) 832-5570

MEMO

To: CEA Review Committee

From: Nate Loper, Deputy Director of Public Works

Date: March 19, 2019

Subject: Request to downgrade single axle truck #39, upgrade watering truck #408 and upgrade chipper #462 when they are replaced in 2020.

The Department of Public Works is proposing the following equipment changes in 2020 to better meet our operational goals:

- Downgrade single axle roll off truck (#39) from the street division fleet
- Upgrade flatbed watering truck #408 from the forestry division fleet
- Upgrade chipper #462 from the forestry division fleet

Truck 39

Truck #39 is a 2007 single axle roll off truck that is used as a plow truck and a forestry chipper box truck in the winter. This truck currently has a hook lift mounted on the chassis that is used to switch between a stainless-steel V-box salt spreader and a 12-foot chipper box for hauling chipped brush.

The change-over process between the salt spreader and chipper box is very time consuming. Not only does it take several hours to empty and change out the boxes, but this changeover also causes a lot of stress and damage to the frame of the truck in the process. In addition, the use of the truck as a chipper truck is difficult in the winter with the wing plow installed on the side of the truck and the salt spreader gets damaged often while the truck is being used to haul materials.

We are proposing to change this truck to a dedicated single axle dump truck and eliminate the hook lift and additional chipper box features. The new truck design would include the dual auger front salters and live bottom RDS body that we have found to be very efficient when responding to emergency salting operations.

The estimated cost to replace truck #39 in like kind is \$272,300. The estimated cost to replace this truck with the proposed changes is \$220,300. This change would result in a savings of \$52,000.

Truck 408

Truck #408 is a 2008 flatbed truck with a water tank on the back that is used by the forestry crew to water flowers and trees. This truck does not have a hook lift or hoist controlled flatbed, so the water tank is permanently mounted onto the flatbed body.

This truck does not have an easily removable water tank, so it can't be setup with a box for hauling other materials. Therefore, this truck is only used during the growing season and is parked during the winter months.

We are proposing to change this truck to a hoist-controlled flatbed with a removable water tank and a removable chipper box. The new dual-purpose truck design would allow the truck to be used year-round and it would still be a non-CDL piece of equipment that our seasonal staff could operate.

The estimated cost to replace truck #408 in like kind is \$73,150. The estimated cost to replace this truck with the proposed changes is \$93,150. This change would result in a cost increase of \$20,000.

Chipper 462

Chipper #462 is a 2008 15-inch capacity brush chipper that is used by the forestry crew to grind branches and brush. This is the smallest chipper in our fleet and it does not allow for the disposal of large portions of logs, which requires our crew to do more hand cutting and limbing of branches and trees.

The proposed replacement would be an 18-inch capacity chipper. The larger capacity will improve the efficiency of our tree removal operations, which is very important now with the increased tree removals related to the Emerald Ash Borer. Whole trees can be chipped, drastically reducing the time required to process trees. Safety is also significantly improved with the reduction of sawing and hand feeding of limbs into the chipper. The larger chipper will also function very efficiently for smaller pruning operations.

The estimated cost to replace chipper #462 in like kind is \$68,930. The estimated cost to replace this chipper with the proposed changes is \$87,000. This change would result in a cost increase of \$18,070.

Cost Analysis

Equipment	Recommendation	Like Kind	Proposed
39	Downgrade	\$272,309	\$220,309
408	Upgrade	\$73,150	\$93,150
462	Upgrade	\$68,930	\$87,000
TOTAL		\$414,389	\$400,459

These three equipment changes will result in a savings of approximately \$13,930 and will better help us meet our operational goals. Thank you for your consideration.