



**To:** Dr. Mike Riggle  
Board of Education

**From:** Dr. R.J. Gravel

**Date:** Monday, December 12, 2016

**Re:** Surveillance Cameras and GPS Technology for District Shuttle Buses

**Recommendation**

It is recommended that the Board of Education direct the administration to coordinate the installation of surveillance cameras and GPS technology on all District shuttle buses, to be funded through surplus technology proceeds collected throughout FY2017.

**Background**

As part of the District’s review of student safety and security initiatives, it was requested that the Business and Technology Services departments investigate the possibility of adding cameras and GPS technology to our fleet of shuttle buses. After meeting with our student transportation provider, First Student, and potential hardware and system vendors, we have identified the costs associated with adding these two technology enhancements to our shuttle buses.

School	Qty. of Buses	Technology Enhancement		Estimated Cost
		Cameras	GPS	
Glenbrook North	3	\$4,500	\$3,300	\$7,800
Glenbrook Off-Campus	2	\$3,000	\$2,200	\$5,200
Glenbrook South	4	\$6,000	\$4,400	\$10,400
Camera: \$1,500 / Bus      GPS: \$1,100 / Bus				<b>\$23,400</b>

The total purchase cost of \$23,400 includes the actual cost of the equipment, and the installation of the equipment on each vehicle. Through our partnership with First Student, we were able to take advantage of their nationwide negotiated rates with two vendors: Seon (camera system) and Zonar Systems (GPS technology system). The rates negotiated by First Student include a substantial discount when compared to regular retail rates, which would not be available to the District independently.

From an overall Transportation Services perspective, it is important to note that all student transportation vehicles operated by First Student include GPS technology. While the primary function of GPS technology on student buses is to track and identify the location of a vehicle, the systems provide a wide range of additional information and services including:

- Increased driver accountability through the monitoring of speed and driving habits
- Records the time, date and location of all stops
- Provides the ability to monitor and track pre-trip activities (safety inspection) and post-trip activities (ex. confirming that students are not on the bus)
- Provides the ability to track student ridership by scanning student IDs prior to boarding the vehicle (for a small additional cost)

Additionally, beginning with the 2016-2017 school year, all student transportation vehicles operated by our transportation provider will include closed-circuit video surveillance cameras in addition to the GPS services previously described. The footage from these cameras will be stored for a period of time, and will be accessible to the District's administration for review on an as-needed basis. Through the use of enhanced camera technology, the footage will be accessible remotely at each school building, as opposed to needing to remove the hard drive from each bus prior to viewing.

#### *Project Funding*

Each year the Technology Services department reviews our equipment inventory and identifies resources that have reached the end of their identified life cycle. These resources are then individually reviewed and considered for potential uses within the district. If a resource is no longer usable by the district, it is disposed of in accordance with Board Policy 5060 (Disposal of Surplus Equipment). As of December 1, 2016, the District has received a total of \$156,784.80 from surplus equipment sale proceeds. After excluding \$37,500 in revenue which was collected from the sale of wireless network equipment, the District has received unanticipated revenue in the amount of \$119,284.80.

Given that this revenue was not anticipated or included in our current fiscal year's budget, it is recommended that these proceeds be used to fund the installation of surveillance cameras and GPS technology in District shuttle buses this spring.