



Highway Maintenance Manual

Bureau of Highway Maintenance

Chapter 02 Administration

May 2016

Section 20 Eligible Costs

Subject 95 Automatic Vehicle Location – Global Positioning System (AVL-GPS) and Sensors

1.0 Cost Reimbursement and Invoicing ID and Activity Codes

Funding for the MDSS/AVL-GPS installation, maintenance, operation, and replacement is budgeted for under the following project IDs and activity codes for reimbursement purposes:

- 0072-01-65 Activity 75 (MDSS/AVL-GPS Operations and Maintenance)
- 0072-01-66 Activity 76 (MDSS/AVL-GPS Communications)

2.0 Cost Reimbursement and Invoicing of Equipment (Initial Installation)

Actual Cost - Minimal Equipment Configuration: In most cases, the initial installation will be completed by the equipment vendor unless the State Winter Maintenance Engineer provides prior approval for an alternative method of installation. Actual costs for equipment and labor to install the equipment will be invoiced to 0072-01-65 Activity 75 (MDSS/AVL-GPS Operations and Maintenance) or other project IDs as approved by the State Winter Maintenance Engineer. Initial setup will be detailed in a cost not to exceed supplemental provision for participant. Costs exceeding the supplemental agreement must be approved prior to completing work and must be detailed in an amendment to the initial supplemental provision.

The minimal configuration for all trucks AVL-GPS equipped used on the state maintained highways installed with AVL-GPS will include:

Equipment or Service
AVL-GPS Unit
Pavement Temp Sensor
Auger Sensor
Plow Sensor
Flow Sensor **
Gate Sensor ***
Cameras ****

**Not needed for all controller types

*** Needed for hopper, muni or flow and dump truck configurations

****Will be determined by WisDOT if needed

Rates: Established individual rates such as labor and fringe benefits will be used in conjunction with MDSS/AVL-GPS project ID 0072-01-65. Under the supplemental provision for initial installation, costs for administration and shop overhead are not eligible.

Optional Equipment: Optional equipment (wing sensor, underbody plow sensor, trucks data terminal, material presence sensor, and monitors) beyond the minimal configuration described above and approved for installation will be maintained throughout the life of the equipment. Optional equipment will be approved on a case-by-case basis by the State Winter Maintenance Engineer in the Bureau of Highway Maintenance in consultation with the regions.

Invoicing (initial installation only): All invoicing for initial installation of AVL-GPS costs shall be sent **directly** to the State Winter Maintenance Engineer in the Bureau of Highway Maintenance on a separate invoice and should not be included with regular monthly construction invoices to WisDOT regions. To avoid duplicate payments, all AVL-GPS initial installation invoices, including copies of all installation invoices generated by non-county entities, should be routed through the State Winter Maintenance Engineer in the Bureau of Highway Maintenance.

3.0 Cost Reimbursement and Invoicing of Equipment (Ongoing Equipment Maintenance)

Once the initial installation is completed under the original supplemental agreement and amendments, the ongoing maintenance and replacement costs shall also be charged to 0072-01-65 Activity 75 (MDSS/AVL-GPS Operations and Maintenance) with the following exceptions/changes:

Spending Limit: Costs for maintenance and equipment exceeding \$1000 shall be preapproved by the State Winter Maintenance Engineer in the Bureau of Highway Maintenance in consultation with the regions prior to doing said maintenance or purchasing any equipment.

Rates: Established individual rates such as labor and fringe benefits will be used in conjunction with MDSS/AVL-GPS project ID 0072-01-65. Administration and shop overhead are eligible expenses for ongoing maintenance and costs associated with replacement of originally installed equipment.

Invoicing: Invoicing of ongoing maintenance of AVL-GPS costs shall be included with regular monthly construction invoices to WisDOT regions. Include invoices for maintenance work performed by non-county entities.

Equipment Warranties: If the equipment is still under the manufacturer's warranty, it should be sent back to the vendor for replacement. Labor necessary to replace broken AVL-GPS equipment, whether under warranty or not, will be covered under this section.

4.0 Communications Costs

Ongoing communication costs including charges associated with annual fee, monthly fee, transmittal fee, server fee, WiFi data transfer shall be charged to 0072-01-66 Activity 76 (MDSS/AVL-GPS Communications).

Rates: Communication costs are considered a pass through cost and are not eligible for any labor, administration, shop overhead, or miscellaneous costs.

Invoicing: Invoicing for AVL-GPS communication costs should be included with regular monthly construction invoices to WisDOT regions.

Other costs: Costs for laptops are reimbursed through the administrative support rate and should not be invoiced to these projects.