

NDOT's Performance-Based Maintenance Contracting Program

NDOT's approach to highway maintenance contracting has evolved in recent years. In 2010, NDOT initiated a study to evaluate alternative methods for the delivery of its highway maintenance program and find ways to provide more efficient and economical maintenance. The result was Halcrow Inc.'s report "Cost and Benefit Study Associated with Outsourcing Roadway Maintenance Activities." This report discovered that NDOT is already contracting over 35% of its routine and capital improvement maintenance operations. It also identified potential opportunities for contracting maintenance activities.

The State of Nevada has developed a pilot program to use the Performance-Based Maintenance Contracting method to contract out selected maintenance activities. This contracting method is based on achieving predetermined goals. The program will be monitored for quality, efficiency and benefits to the State.

NDOT will continue to work with our industry partners to provide cost effective contracting solutions in today's challenging economic environment.



What is Highway Maintenance?

Highway maintenance is defined as the preservation of roadway facilities in a safe and useable condition. NDOT's maintenance work, exclusive of architectural services, are categorized into three areas:

- (1) **Routine maintenance**—work needed on a daily basis to repair damage to the highway system and perform operational activities which keep the traveling public moving in a safe and efficient manner. Examples are crack filling, striping, concrete repair, and culvert cleaning.
- (2) **Capital improvement**—work that will slow down the deterioration or extend the life of the highway system. Examples are chip seal, Cold In-Place Recycle, Microsurfacing, bridge maintenance, slope flattening, and guardrail installation.
- (3) **Emergency activities**—work needed due to accidents and natural disasters to stabilize and remediate travel ways and damaged structures. Examples are snow removal, traffic incident cleanup, flood damage repair, and guardrail repair.



Prepared by:
Nevada Department of Transportation
Maintenance and Asset Management Division

1263 South Stewart Street
Carson City, NV. 89712
(775) 888-7000

www.nevadadot.com

CONTRACT MAINTENANCE ON NEVADA HIGHWAYS 2011



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NDOT CONTRACT MAINTENANCE

Milestones by Program Area and Time Interval

Program Area	Contract Work Awarded by Fiscal Year	Near-Term: 2011-2012	Longer-Term: 2013-2014
NDOT Maintenance Contracts	FY2009 Total \$17,718,000 FY2010 Total \$18,882,000 FY2011 Total \$40,161,000	Implement the Maintenance Achievement Program to measure outcomes of maintenance activities. Advertise a project to perform condition assessments.	
Street Sweeping and Debris Pickup		Advertise contracts for performance-based sweeping contracts for selected principal arterial routes and highways.	Outsource more sweeping (or larger scale) work.
Striping and Pavement Marking		Advertise a performance-based striping contract.	Advertise more striping and pavement marking contracts.
Signs and Sign Lighting		Advertise a contract to inventory highway signs and capture their retroreflectivity levels.	Advertise contract(s) to replace sign lighting and update signs to meet new retroreflectivity requirements.
Drop Inlets Surface Drains		Advertise a contract to clean drop inlets, trench drains, and bridge drains (potential to combine with sweeping contract).	
Roadway Lighting		Advertise a contract to re-lamp high mast lighting on Interstate routes.	Contract to replace existing roadway lighting fixtures with LED fixtures to save maintenance and energy cost.
Culvert and Guardrail		Advertise a contract to clean culverts and repair guardrails.	
“Fence-to-Fence” Contract Maintenance			Investigate the feasibility of “Fence-to-Fence” Contract Maintenance. This includes all routine maintenance activities within the highway.

