Isiah Leggett, County Executive

KEEPING MONTGOMERY MOVING

Arthur Holmes, Jr., Director, MCDOT

MCDOT NEWS

News from the Montgomery County Department of Transportation, Division of Highway Services

Rock Creek Manor Permanent Patching Project

Project to Begin Soon, Work to Include Full-Depth Patching

PURPOSE

This newsletter is to inform you of the upcoming full-depth patching project in the Rock Creek Manor community. This pavement system preservation project employs long term strategies to preserve and enhance the physical and operating conditions of the roadway system as it exists and assures a system serviceable for many years. This project falls under the County's Permanent Patching Program.

INTRODUCTION

The Montgomery County Department of Transportation's (MCDOT) Division of Highway Services (DHS) maintains over 5,085 lane miles of streets and highways in the county's transportation system. As part of our pavement system preservation efforts, MCDOT initiated a new Pavement Management System in 2008. At that time, MCDOT concluded a complete condition inventory of all County roads, identifying and rating the condition of each. This new system has enabled the development of County-wide road resurfacing schedules based on a formula based objective rating system coupled with budgetary parameters. Part of Montgomery County's Pavement Management System includes structural permanent patching, which is a cost effective interim solution to maintain roadway structural integrity based on current funding allocations.

SCOPE OF PROJECT

Overall, the pavement condition in the Rock Creek Manor subdivision was generally rated as fair, with some areas described as needing more attention. This rating meets the criteria for roadway preservation using Hot Mix Asphalt (HMA) full-depth patching.

PROJECT WORK PLAN

You may have noticed paint markings that outline areas for pavement replacement, such as those shown in the picture below. The markings enable us to estimate the quantity of asphalt needed for full depth patching and provide the locations of the distressed pavement. Crews will excavate the distressed pavement with a roadway milling machine.

Typical paint markings

Full Depth Patching

Areas of pavement distress are excavated and replaced with hot mix asphalt. This method is used in isolated areas where pavement failures extend through the road base. Full depth patching restores the pavement's structural integrity and capacity to support vehicle loads. Further, patching will prevent water from infiltrating through the pavement and into the underlying road base, exacerbating the degree and extent of pavement deterioration. Failing pavement conditions are dynamic in nature and will worsen, nearly exponentially, under conditions such as harsh winters and wet summers. Patching with HMA will yield a service life of between 15 - 20 years.

There are two phases to full-depth patching:

First, the pavement is excavated and HMA base material is installed in 2 layers and compacted with a steel-wheeled roller. The patch is left approximately one-and-one-half (1 ½) inches below the existing road surface to allow room for a layer of smooth surface HMA to be applied at a later time (within a few days).

Second, the surface HMA is placed either by machine or by hand, depending on the size of the patch, into the one-and-one-half (1 ½) inch depression left by the base asphalt work. The asphalt is then compacted using a steel-wheeled roller. The final surface of the patch will match the level of the existing roadway and provide for a smooth ride.

SCHEDULE

This project is expected to start on or about the week of July 5, 2011 and should be completed within two to three weeks, weather permitting. Work hours will be between 7 am and 5 pm, Monday through Friday.

IMPACTS

Continuous traffic will be maintained at all times utilizing lane closures and/or alternating one-way traffic patterns. However, minor traffic delays may be experienced as our flaggers manually direct traffic safely through the construction zone. Minor traffic delays may also be experienced as we move our equipment around from one patch to another.

Street patching may necessitate temporary lane closures and parking restrictions. Signs will be posted identifying such restrictions. Access to residences will be available at all times; however, minor delays may be experienced as workers restrict traffic from freshly placed hot mix asphalt.

Generally speaking this work is best characterized as noisy and disruptive. However, MCDOT staff will take all necessary steps to mitigate any inconveniences this work may cause.

Quality control for the entire project will be managed by County inspection staff to ensure that the project meets contract specifications.

Thank you for your cooperation as we work to improve the Rock Creek Manor community for residents and users.

Roadway Milling Machine

Excavating

Loading

Compacting the sub-grade

New asphalt is placed and compacted

MONTGOMERY COUNTY, MARYLAND
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY SERVICES
100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878
(240) 777-6000 www.montgomerycountymd.gov/mcdot

KEEPING MONTGOMERY MOVING

MCDOT NEWS No. 2011.30

NOTICE OF ROCK CREEK MANOR PERMANENT PATCHING PROJECT

SAFETY NOTICE

Please drive gently and safely through the work site and kindly remember that while repair work is underway, personnel and construction vehicles will be moving around the site. Some materials may be stored in the area. Please use caution when walking or driving through the construction zone. Children may be attracted to the noise and machinery, so we ask that you please keep all children under close supervision at all times, even after the work is completed for the day. Also, please follow the direction of flaggers and temporary signs and traffic control devices. We appreciate your patience and cooperation while we make these much needed improvements to the infrastructure.

IMPORTANT MCDOT CONTACTS

Project Manager:

James Kisner 240-777-7631

Patching Contractor:

D & F Construction 301-516-8460

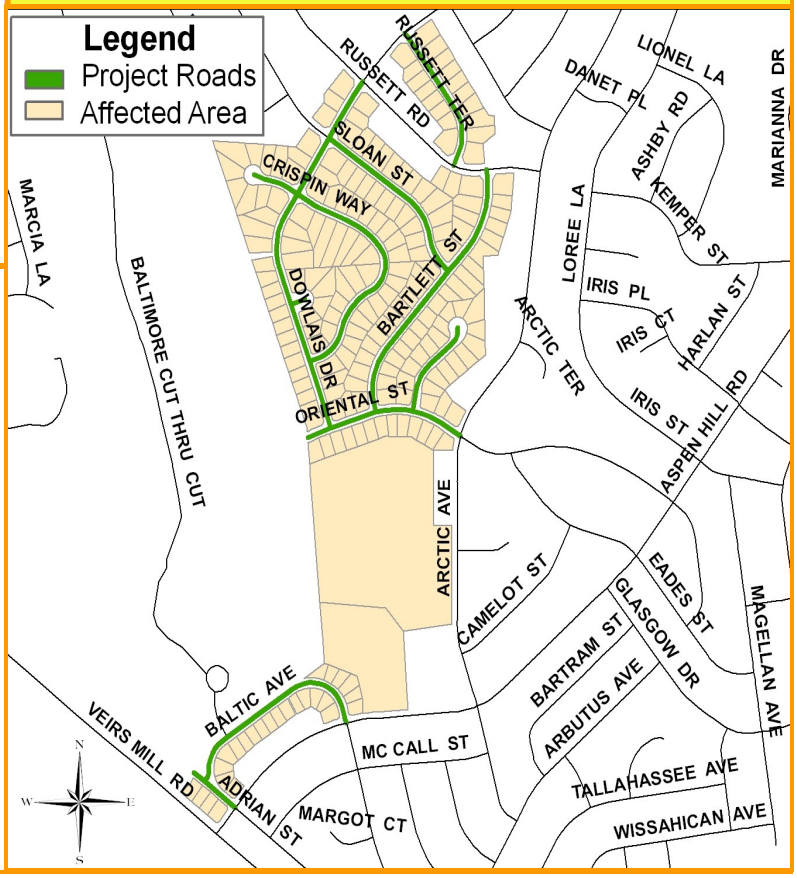
DHS Customer Service Center:

240-777-6000 FAX: 240-777-7670

DHS Email:

mcdot.highway@montgomerycountymd.gov

Web site:
http://www.montgomerycountymd.gov/hwytmpl.asp?url=/content/dot/highway/index.asp

On the map, click on the **Silver Spring Service Area**, where information is available describing the roadway evaluations and patching processes.

Permanent Patching Project Limits