



## Rippling Brook Drive Patching Project

### Full-Depth Permanent Pavement Patching to Begin Soon

#### PURPOSE

This newsletter is to inform you of the upcoming full-depth permanent pavement patching of Rippling Brook Drive. 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 ensures a system serviceable.

#### BACKGROUND

The Montgomery County Department of Transportation, (MCDOT) Division of Highway Services (DHS) maintains nearly 5,200 lane miles of streets and highways using various methods of routine maintenance, pavement preservation, and repaving depending on the level of pavement deterioration present. A survey of county roads is conducted every two years to assess the pavement condition of each road within the county.

A Pavement Condition Index (PCI) is then calculated for each road segment. Using this PCI data, MCDOT determines the appropriate repair strategy for each road given available funding. Part of Montgomery County's Pavement Management System includes structural pavement 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 conditions in your community were 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 permanent pavement patching.



Typical survey paint markings

#### PROJECT WORK PLAN

You may have noticed paint markings that outline areas for pavement replacement. The markings enable us to estimate the quantity of asphalt needed for full-depth patching and provide the locations of the distressed pavement.



Milling machine patch excavating

#### Full-Depth Permanent 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, which exacerbates 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. Then, HMA base material is replaced and compacted. The patch is left below the existing road surface to allow room for a layer of smooth surface HMA to be applied at a later time (within one to two days, weather pending.)

Second, the surface HMA is placed, into the depression left by the base asphalt work. The final surface of the patch will match the level of the existing roadway and provide for a smooth ride.



New patch is flush with existing pavement

#### SCHEDULE

The patching project is scheduled to begin in the summer of 2018, and will be completed within three to four weeks, weather permitting. Work hours are from 7 am to 5 pm, Monday through Friday.

#### IMPACTS

Street patching will necessitate daily short-term parking restrictions. "No Parking" signs will be posted to notify residents of the planned dates for patching and resurfacing. Parking restrictions are only valid from 7 am to 5 pm. Please pay close attention to the dates on the signs as weather may delay the planned work. Our intent is to maintain continuous traffic at all times utilizing lane closures and/or alternating one-way traffic patterns. However, minor traffic delays and brief daily road closures may be experienced if deemed necessary. Signs will be posted identifying such restrictions.



**SHOULD THE POLICE TOW YOUR VEHICLE, CONTACT THE POLICE NON-EMERGENCY NUMBER (301-279-8000)**

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.

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

*Thank you for your cooperation as we work to improve the county infrastructure for residents and users!*



## MONTGOMERY COUNTY, MARYLAND

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAY SERVICES

100 EDISON PARK DRIVE, 4TH FLOOR, GAITHERSBURG, MD 20878

240-777-ROAD (7623)

[www.montgomerycountymd.gov/DOT-Highway/](http://www.montgomerycountymd.gov/DOT-Highway/)

### KEEPING MONTGOMERY MOVING

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# NOTICE OF RIPPLING BROOK DRIVE 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 flagmen and temporary signs and traffic control devices. We appreciate your patience and cooperation while we make these much-needed improvements to the infrastructure. *If, for some reason, you have a medical condition or another issue that may be impacted by the construction activities, please alert the Project Manager listed below or Josh Faust, Public Outreach Manager, at 240-777-7642.*

#### DIVISION OF HIGHWAY SERVICES

Richard C. Dorsey  
Division Chief

Randy Paugh, Chief  
Pavement Management Section

**Project Manager:** James E. McBride 240-777-7603

**Program Manager:** Donald Noble 240-777-7601

Should your questions be of a more general nature, please contact the  
MC311 Call Center by dialing 311 or 240-777-0311

**DHS Email:** [mcdot.highway@montgomerycountymd.gov](mailto:mcdot.highway@montgomerycountymd.gov)

**DHS Website:** [www.montgomerycountymd.gov/DOT-Highway/](http://www.montgomerycountymd.gov/DOT-Highway/)

On the county map, click on the **Colesville Service Area**, where you will  
find additional roadway maintenance projects scheduled in your area.

