



## Fox Hills West Phase V Residential Roadway Resurfacing Project

### Full-Width Roadway Micro-Surfacing to Begin Soon

#### PURPOSE

This newsletter is to inform you of the upcoming full-depth permanent patching and resurfacing of the Fox Hills West subdivision in Rockville. 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.

#### BACKGROUND

The Montgomery County Department of Transportation, (MCDOT) Division of Highway Services (DHS) maintains nearly 5,200 lane miles of streets using various methods of routine maintenance, pavement restoration and repaving depending on the level of pavement deterioration present. A bi-annual survey of these roads is conducted 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 with available funding.

Most notably, crack seals, asphalt patching, micro resurfacing, and hot mix asphalt overlays are chief among pavement restoration options. MCDOT is now developing County-wide maintenance strategies based on the countywide pavement assessment which uses both an objective rating system and budgetary parameters.

#### SCOPE OF PROJECT



Typical survey paint markings

MCDOT's most recent pavement assessment study notes that the relative condition of the pavement in the Fox Hills West community warrants inclusion in the Residential Resurfacing Program. Further, the study finds that the overall condition of the pavement within the area warrants a systematic approach of full-depth permanent patching followed by an application of micro surfacing; which is a thin-coat pavement treatment designed to seal and preserve the pavement. This combined treatment strategy will restore the roadway's structural capacity and integrity,

and will preserve the pavement while also enhancing its safety and aesthetic value.

#### PROJECT WORK PLAN

Typically, the roadways are prepared prior to micro surfacing. Below is the overall scope of micro resurfacing projects:

- 1. Conduct survey** - Identify areas of roadway in need of repair prior to resurfacing. You may notice paint markings that outline areas for pavement replacement, such as those shown in the picture above.
- 2. Full Depth Patching** - Prior to resurfacing, full depth asphalt patching of the pavement or other repairs may be necessary at selected locations. Full depth patching restores the pavement's structural integrity and capacity to support vehicle loads.



Patching may be necessary prior to resurfacing

- 3. Crack Sealing** - An additional step may be necessary to seal large cracks that may not require full depth patching. A flexible filler material is injected into the cracks and sealed with a special tool to prevent water infiltration into the pavement.
- 4. Micro Surfacing** - The final step in the pavement preservation process is the application of the micro surfacing material. It is a cold applied liquid material containing a light sand aggregate that preserves existing pavement deemed to be in relatively good condition. The material is uniformly machine applied and allowed to cure for several hours before opening to traffic. This Residential Road Preservation treatment enhances the existing pavement, fills cracks and small voids, and extends the life and serviceability of the pavement.

The micro surfacing material will cover the entire road surface, providing a uniform appearance and surface texture. A final sweeping, if needed, will remove any loose grit. Although some cracks may reappear after a year, the underlying crack seals prevent water from penetrating through the roadway.

- 5. Replace lane markings** - Lane markings will be replaced within one to two weeks where they existed prior to the resurfacing.

#### SCHEDULE

This project is scheduled to begin in mid-July 2017, and will take approximately 8 days to complete. Weather and operational requirements may affect the schedule. All work will be scheduled between the hours of 7 am and 5 pm, Monday through Friday.

#### IMPACTS

This project will necessitate No Parking restrictions within the construction zone. The No Parking signs will be updated daily. Alternating one-way traffic patterns will be used periodically and minor traffic delays may be experienced as flaggers manually direct traffic safely through the construction zone. Access to homes will be available at all times, however minor delays may be experienced as workers restrict traffic from driving on the freshly applied material. *Traffic will be restricted from driving on the micro surfacing material until it is fully cured, usually for 3-4 hours.* Driving on the freshly applied material will damage the material and may soil your vehicle and track onto your driveway. Orange traffic cones will be placed in the restricted lanes.

Street repair, preparation and resurfacing work is generally characterized by some noise and dust. However, MCDOT will do its best to keep the site in good housekeeping order.

*We apologize in advance for any unavoidable inconvenience and thank you for your cooperation and patience as we work to improve the County infrastructure for residents and users.*



Typical micro-surfacing operation

