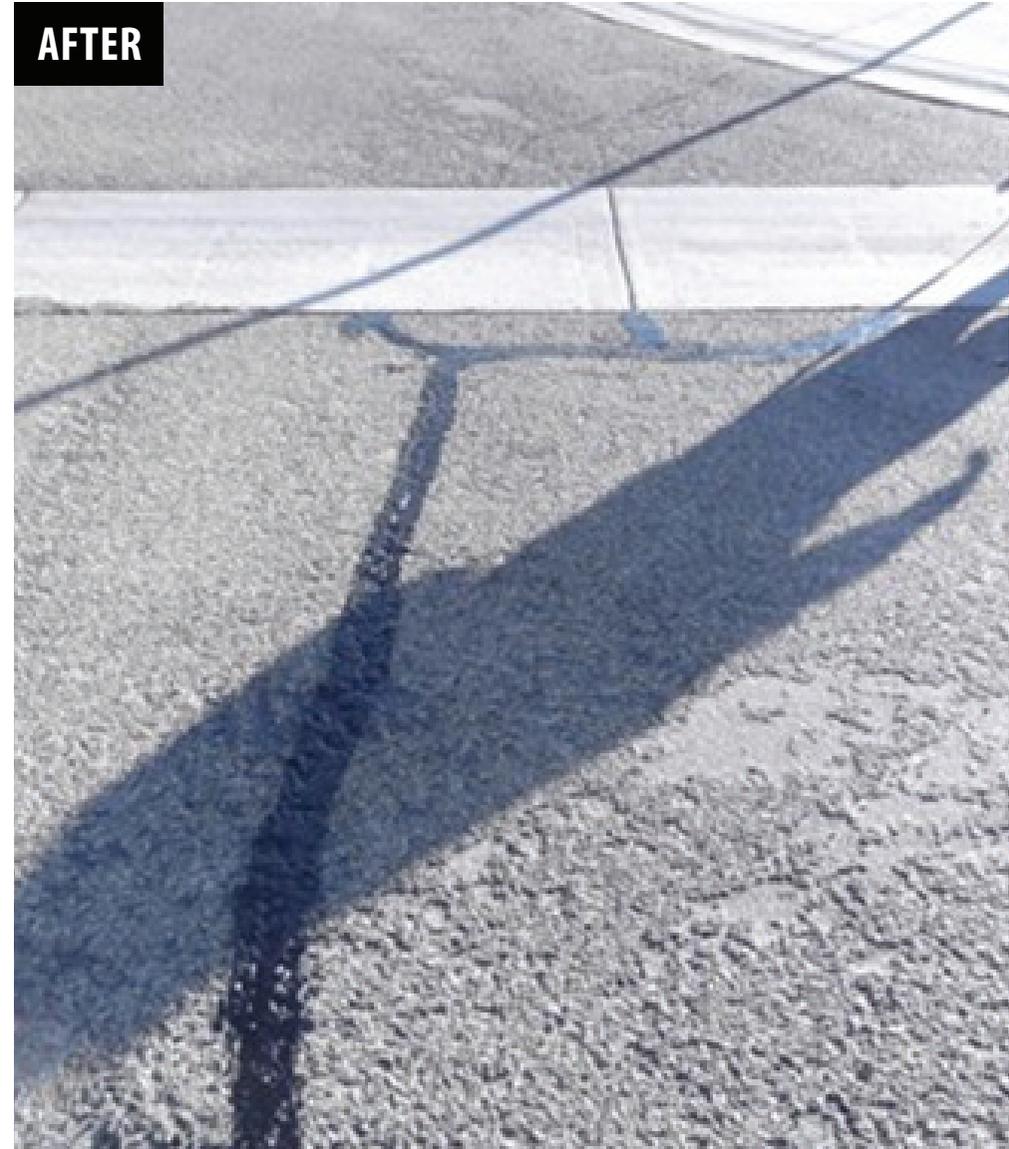


# **2016 | Outsourced Pavement Preservation Program Treatments**



# Crack Seal

**Crack Seal** is an application of hot liquid rubberized asphalt material placed into or above moderately sized pavement cracks. The treatment is used to prevent moisture infiltration in order to mitigate the occurrence of further distresses and reinforce the adjacent pavement.



# Concrete & Asphalt Repair

**Concrete repair** and **asphalt repair** include the limited full-depth removal and replacement of concrete or asphalt pavement, in order to address myriad pavement distresses, including spalling, pop-outs, and base failures.



# Micro Surfacing Seal

A **micro surfacing seal** is a mixture of relatively large aggregate, polymer modified emulsion, mineral filler and additives that are combined and applied to an existing pavement using a specialized mixing and paving machine. The treatment is used to reduce water penetration, correct minor surface irregularities, improve aesthetics and extend the useful life of underlying pavement.



# Fiber Reinforced Micro Surfacing Seal

A **micro surfacing seal** is a mixture of relatively large aggregate, polymer modified emulsion, mineral filler and additives that are combined and applied to an existing pavement using a specialized mixing and paving machine. The treatment is used to reduce water penetration, correct minor surface irregularities, improve aesthetics and extend the useful life of underlying pavement. Polyester or fiberglass fibers may be cut and added to the mix in order to enhance durability and better deter reflective cracking.

**BEFORE**



**AFTER**



# Preservative Seal

A **preservative seal** consists of the application of an emulsion specially formulated to penetrate, restore and preserve existing asphalt binders. By keeping the pavement flexible, it serves to seal against water intrusion, inhibit oxidation and improve aggregate retention.

**BEFORE**



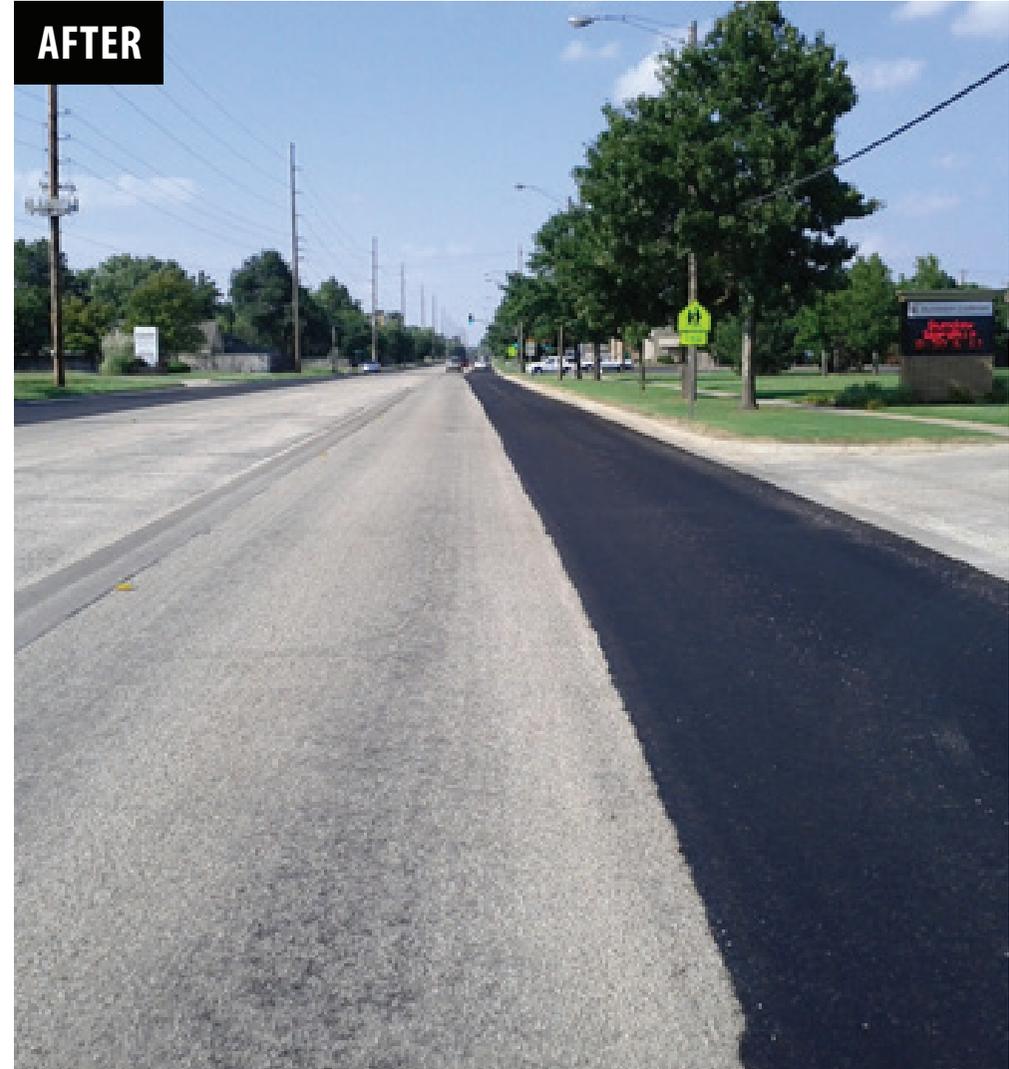
**AFTER**



# Scrub Seal

A **scrub seal** is constructed by spraying emulsified asphalt onto an existing pavement, dragging a broom across the surface to scrub the emulsified asphalt into the surface cracks, spreading aggregate over the emulsified asphalt, and rolling the surface with a roller. The treatment is used to quickly and affordably crack fill streets with extensive surface cracking.

\*All instances of scrub seal on this year's program will have a surface seal treatment applied over the top. Surface treatments will consist of micro surfacing seal, and fiber reinforced micro surfacing seal.



# Thermal Crack Repair

**Thermal crack repair** consists of repairing large cracks in full-depth asphalt pavements by removing the top two inches of pavement and installing a pavement interlayer reinforcement system beneath a new layer of asphalt. The interlayer reinforcement deters the crack from reflecting back through the renewed surface.

