

## Cold-in-Place Recycling

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### What it is

Cold-in-place recycling is a technique which consists of reusing the existing road material to create a new roadway surface. The old road is ground up, mixed with some additives, and immediately placed back down on the road. Additives are based off a specific mix design created in a lab, and typically no new asphalt mixture is required for this treatment. Within three weeks a new wearing surface will be put on top of the new road, typically a micro surface treatment or a 1 ½" hot mix asphalt (HMA) overlay and it will look very similar to a typical paved surface. All structures (catch basins, manholes, and water and gas gates) will have to be reset for this treatment. This is classified as rehabilitation/reconstruction.

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### Process

- A reclaiming machine is used to pulverize the existing asphalt pavement (wearing and base course only), while the sub-base is left untouched.
  - The old asphalt is mixed with cement, water, and other additives resulting in a stronger road base and is placed back down on the road.
  - Manholes and other utility valve covers are adjusted to final grade
  - Then a new layer of asphalt concrete or microsurfacing is applied on top of the new recycled binder layer within three (3) weeks.
  - Temporary traffic stripes and markings are placed as needed.
  - Several weeks later, permanent striping is replaced.
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### Impact to Residents

During the pulverizing process, full road closures will be in effect. After the old road is ground up, mixed with some additives, and immediately placed back down on the road, traffic will be allowed back on the road within 1-2 hours. During the asphalt overlay process or microsurfacing, roads will be closed again until the surface has cured. Special detours may be opened to accommodate traffic. Residents will be notified via door hanger notices at least 72 hours prior to construction. Vehicles may not be parked on affected roads on the day of the treatment application; however, they may be parked outside of the construction zone if you plan to use them that day. Coordinate with construction workers to determine an estimate time of when construction will take place across your property if you need to utilize your driveway. Residents with special needs may contact

the Town ([jcornier@concordma.gov](mailto:jcornier@concordma.gov)) beforehand to plan accordingly. All work is coordinated with transit and waste providers to minimize impacts to service.

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