

# Livingston Street Roadway Reconstruction Utilizing Tire Shreds Tewksbury, Massachusetts

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In 2003, Cuoco & Cormier was awarded the ACE Award for Engineering Excellence by the American Council of Engineering Companies of Massachusetts. This award was given in recognition of the innovative design created by our staff for the reconstruction of Livingston Street in Tewksbury, Massachusetts. During this effort, our staff incorporated the use of shredded tires as base material for the roadway. This approach resolved a subsidence problem posed by local soils while also allowing the Town of Tewksbury to reduce construction costs by utilizing a readily available waste product that would otherwise have been sent to a landfill or incinerator.

The use of recycled materials enabled the community to qualify for approximately \$300,000 in grant funding from the U.S. Department of Transportation. The availability of federal funding offset municipal costs for the re-construction effort. In addition, by re-using the waste tires, the town avoided the need to pay for the disposal of the waste tires generated by local residents. This strategy created an additional cost savings for the community. Forward thinking enables us to envision non-traditional solutions that benefit both the client and the community.

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