

**Project:** *City of Strongsville, City Wide Signal Upgrade Project  
CUY-42-0.00 (PID 14943)*

**Owner:** City of Strongsville, Ohio

**Contact:** Mr. Kenneth Mikula, P.E.  
City Engineer  
City of Strongsville  
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**Construction Value:** \$2.3 million

**Description:** This project was the modernization and coordination of traffic signals at 31 intersections along the corridors of Pearl Road (US 42), Royalton Road (SR 82), and other various locations. The project included the upgrade of traffic signal hardware including vehicular signal heads, mast arm signal supports, pedestrian signals, traffic controllers, vehicular and pedestrian detectors and emergency vehicle preemption. The project also included the installation of a “closed loop” traffic responsive computer system and hard wire communication cable. A 6 pair shielded copper cable was specified for communication between master and local controllers.

This construction project was an efficiency project funded with a Federal grant under the CMAQ (Congestion Mitigation, Air Quality) program at a cost of \$2.3 million.

This project coordinated the timing of traffic signals in two (2) arterial streets systems to provide efficient traffic flows, reduce congestion and add to the improvement in air quality for the region. The computerized signal system measures traffic volumes, congestion and speeds and makes automatic commands to implement signal timing.