

AUSTIN STREET AREA – SEWER REHABILITATION FACT SHEET

The City of Newton Department of Public Works is making repairs to the wastewater collection system to upgrade aging infrastructure and improve service. As part of these repairs, excavate and replace and trenchless rehabilitations of sewer infrastructure will be performed on Austin Street, Newtonville Avenue, and Walnut Street between Austin Street and Newtonville Avenue. See below for a summary of excavate and replace and trenchless rehabilitation work.

Phase One: Excavate and Replace – August 1st to August 12th, 2016

As described in GVC Construction's July 20th, 2016 notification, a section of sewer on Austin Street, between 46 Austin Street and 76 Austin Street, will be excavated and replaced between August 1st and August 12th, 2016. Working hours will be from 10:30 PM to 6:30 AM. A temporary road closure/detour will be in place each night at this location to protect vehicular and pedestrian traffic from entering the area of excavation. Like most construction projects, some noise levels are expected to be above ambient levels for this phase of work and crews will be working to keep noise to a minimum.

Phase Two: Trenchless Rehabilitations – Dates to be Determined

Following excavation and replacement of the section of sewer on Austin Street, between 46 Austin Street and 76 Austin Street, the sewer and sewer manholes on Austin Street between Elmwood Park and Walnut Street, Newtonville Avenue between Walnut Street and Harvard Street, and Walnut Street between Austin Street and Newtonville Avenue, will be rehabilitated trenchlessly (without excavation). Trenchless rehabilitation will include installation of cured-in-place pipe (CIPP), testing and grouting of sewer services, and cementitious lining of sewer manholes. Trenchless rehabilitation will be performed between the hours of 7:00 AM and 5:00 PM. This work is part of a larger rehabilitation project; with similar rehabilitations being performed throughout the City of Newton. See below for a typical sequence of the trenchless rehabilitations. Two (2) manhole frames and covers will also be replaced on Newtonville Avenue. This work will require minor excavation (approximately 12-inches deep) at each location. When the dates and times of construction for phase two are known, the City of Newton will be notifying the public at: <http://www.newtonma.gov/gov/dpw/water/default.asp>

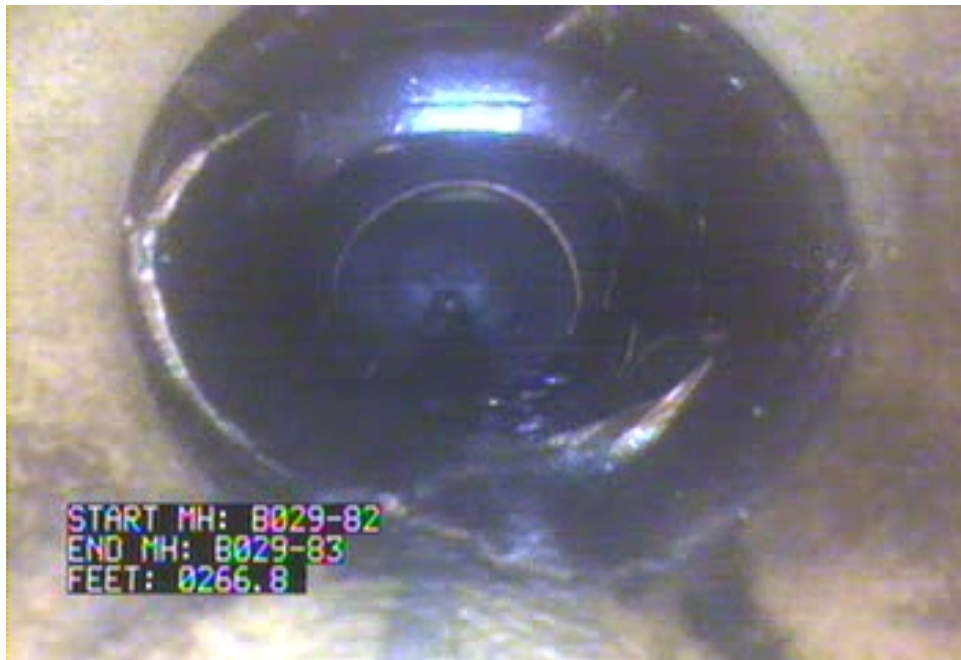
Anticipated Trenchless Rehabilitation Sequence and Construction Time

- Clean and television inspect 2,215 linear feet of sewer mains to measure for CIPP liners; approximately two (2) working days.
- Install 2,215 linear feet of CIPP; approximately four (4) working days.
 - Affected properties will be notified of interruption of service one (1) week prior to and again one (1) day before the lining operation; and will be notified of reinstated service. See page 2 of this document for additional information regarding the CIPP installation process.
- Test and grout 46 reinstated service connections at the sewer main; approximately six (6) working days.
- Grout and cement line 13 sewer manholes; approximately six (6) working days.
- Replace two (2) manhole frames and covers on Newtonville Avenue; approximately (1) working day.

Cured-in-Place Pipe (CIPP)

CIPP is used to rehabilitate pipelines that are leaking or require a structural repair. CIPP creates a jointless, seamless, corrosion-resistant pipe within the existing sewer pipe. CIPP is installed through existing sewer manholes located in streets and sewer easements. A resin-saturated felt tube is inverted into the sewer pipe through existing sewer manholes. Once the liner is in place it is cured using hot water or steam. Once cured, the CIPP is hard like a new PVC pipe. Sewer service laterals are restored internally with robotically controlled cutting equipment. No excavation is required for CIPP installation. CIPP is a more cost-effective and less disruptive method of repairing sewer pipes than excavation and replacement. See CIPP installation photos below.

Pre-CIPP Installation



Bypassing



CIPP Inversion





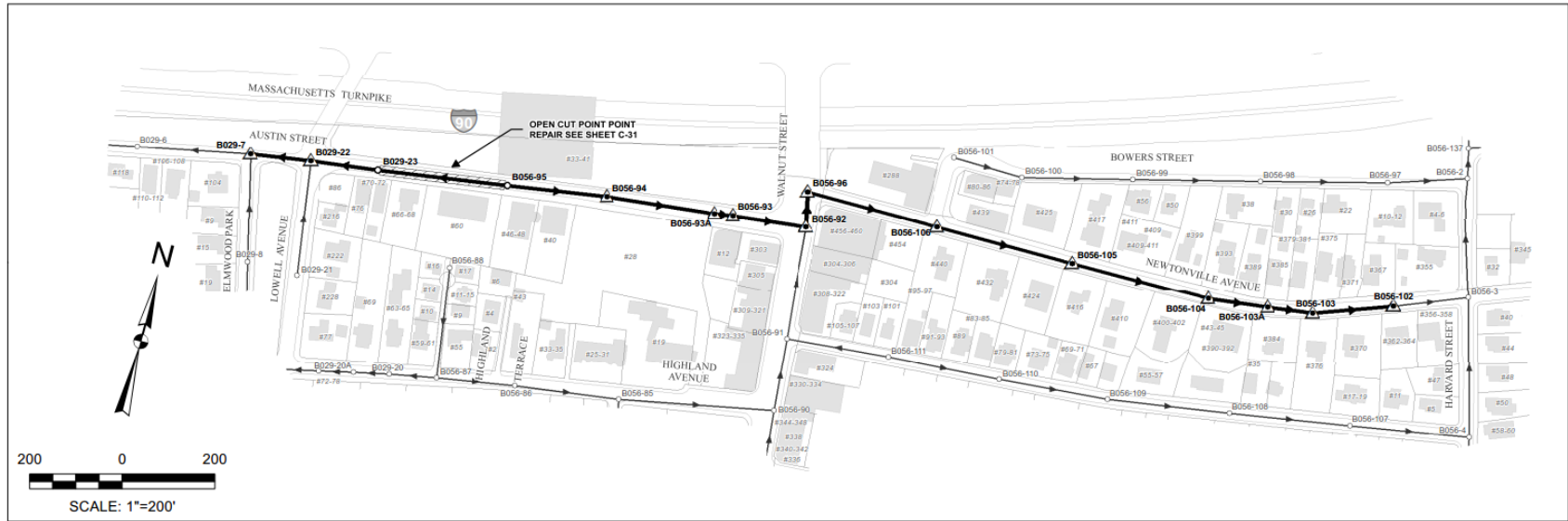
Post-CIPP Installation



Warranty Re-Test Inspection

Warranty re-test inspection will be completed spring 2018. Warranty re-test inspection will include inspecting the rehabilitated manholes, cleaning and television inspecting the CIPP, and re-testing of the reinstated service connections. Warranty re-test inspection will take approximately five (5) working days.

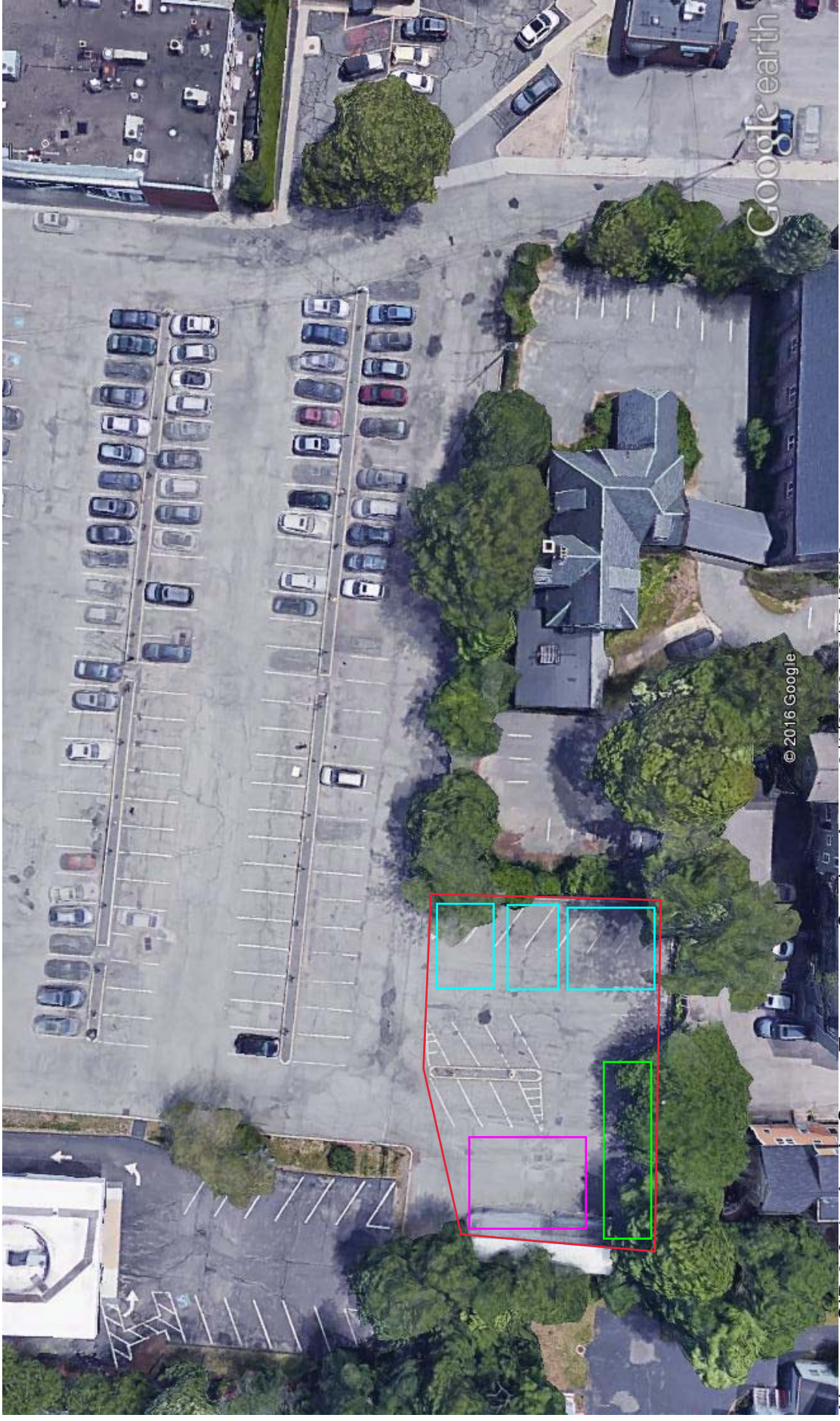
Map of Austin Street Area – SEWER REHABILITATION





Newton CIP 3 & 4 - Austin Street Excavation - Temporary Staging Area - 8/1/2016 - 8/12/2016

1. Red indicates area where GVC proposes to stage equipment and materials during the duration of the Austin Street sewer repair.
2. Indicates approximate location of sanitary sewer pipe replacement.
3. See sketch below for blown-up image of proposed staging area.



Newton CIP 3 & 4 - Austin Street Temporary Staging Area - 8/1/2016 - 8/12/2016

- 1. Red indicates limits of temporary staging area.
- 2. Light Blue indicates stockpiles of crushed stone, imported gravel, surplus soil.
- 3. Green indicates location of piping and pre-cast drain manhole materials.
- 4. Pink indicates location of John Deere 220 Wheeled Excavator & Volvo L90 Loader.