



Ralph E. Dunphy
Commissioner

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OFFICE OF THE CITY MANAGER

To: Robert W. Healy
City Manager

From: ~~Ralph E. Dunphy~~
Commissioner

Date: October 13, 1998

Subject: Council Order #074 dated 10/5/98
Re: Explanation of Ongoing Excavation
and Construction on Cambridge Street

The excavation and construction on Cambridge Street is part of the sewer separation project covered by Contract 2 of Phase VI of the sewer separation program in the City of Cambridge.

The scope of work for this project includes many more streets than Cambridge Street. Other streets included are:

- Broadway from Quincy St. to Highland
- Cambridge from Quincy to Camilla
- Side streets between Broadway and Harvard from Quincy to Merrill
- Side streets between Cambridge and Broadway from Quincy to Highland
- Side streets between Cambridge and Kirkland from Quincy to Camilla

This project, in conjunction with other City combined sewer separation projects, will significantly mitigate the Combined Sewer Overflows to the Charles River, storm flows to the North Charles Relief Sewer; and the combined wastewater flows to the new Deer Island wastewater treatment facility.

The project eliminates approximately 7,000 feet of combined sewers by constructing new storm drains and sanitary sewers, and the elimination of illicit connections. The project also includes the installation of new water mains to improve portable water supply.



All other utilities were given the opportunity to upgrade services to the entire community in the construction area. This included telecommunications, gas, and cable.

Project Schedule:

Notice to Proceed with Construction.	September 16, 1996
Original completion date	September 16, 1998
Current Completion Date	November 30, 1998

ADDITIONS TO SCOPE OF WORK SINCE START DATE

The following changes in the scope of work were made and increased the cost of the project by \$1.56 million. All of the changes were necessary to ensure sanitary, stormwater and other infrastructure improvements necessary to provide a reasonable level of service to the community. They include:

- Sidewalk rehabilitation throughout the project area.
- Installation of 70 additional catch basins and 1100 feet of service laterals to improve drainage in the project area
- Installation of 300 feet of 30-inch storm drain main from Quincy St. to the Harvard Underpass. This was originally scheduled to be part of the next contract. Completed at this time to prevent coming back next year.
- Installation of 90 feet of 42 inch storm drain to service the Harvard Yard area off of Quincy St.
- Sewer and storm drain re-lining, sewer line deflections and water main replacement on Sumner Road. Originally scheduled to be part of next contract. Completed at this time to eliminate returning to the neighborhood next year.
- Installation of a storm drain (700 feet of 30 inch and 300 feet of 24 inch line) on Cambridge St from Ellery St. to Highland Ave.

The addition of these changes to the scope of work has resulted in an additional 60 days to the time of the contract. The changes will reduce the amount of time for future contracts and will not require construction on a large scale to the neighborhood next year.

SOME STATISTICAL DATA OF WHAT WAS DONE

ITEM	FEET INSTALLED
Sanitary Sewer	7,000
Storm Drain	3,800
Water Line	6,500
Gas Lines	9,200
Sidewalk Rehabilitation	12,000

GENERIC DESCRIPTION OF ORDER OF WORK ON CAMBRIDGE STREET - FOR ILLUSTRATING TRIPS UP/DOWN THE STREET

1. Installation of 15" sewer from Quincy St. to Roberts Road on the North side of Cambridge St.
2. Concurrently with the installation of the 15" sewer, sanitary laterals from the buildings on the north side were tied into the new sewer.
3. Installation of 12" water line from Quincy St. to Camellia Ave. (north side of Cambridge St.)
Main line was installed.
Main line was disinfected and tested.
North side of Cambridge St. building services, and side street connections were made.
4. Installation of 2" plastic gas line from Quincy St. to Inman Square (north side of Cambridge St.).
Main line was installed.
Main line was tested.
North side of Cambridge St. building services, and side street connections were made.
5. Installed temporary overlay pavement, to improve rideability, from Quincy St. to Roberts Road.
6. Sanitary and storm drain lateral and service connections -
Install new drain services from the original combined sewer to the property lines, north and south side.
Disconnect sanitary laterals to the original combined sewer, from south side of Cambridge St. and connect to the new 15" sewer on the north side of Cambridge St.
7. Communication Cables -
Install fiber optics cable at several locations
Installation by more than one company

8. Gas company (capped or clipped) all services of the original gas main on the south side of Cambridge St. that were originally connected to the buildings and homes on the north side of Cambridge St. (this is a common safety precaution)
9. Sidewalk rehabilitation and reconstruction, on both sides of Cambridge St. from Quincy St. to Camellia Ave.
10. Replace original combined sewer from Ellery to Camellia Ave.
Install new sanitary and storm drain laterals on north side.
Install new sanitary and storm drain laterals on south side.
11. Installation of any remaining utilities.
Final pavement and installations of utility covers.
Final street markings.

The above is an attempt to illustrate the "trips" that it takes to complete all the work covered by this project. The above does not include the many trips up and down the street to clean, sweep, inspect lines, solve problems, etc.

The flow of traffic was maintained. There were delays!

All services to residents and businesses were maintained. The sewers worked. Other utility services were also maintained.

Finally, a more detailed report of events is planned as part of the Public Hearing scheduled for October 19, 1998.



CITY OF CAMBRIDGE
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EXECUTIVE DEPARTMENT
ROBERT W. HEALY
City Manager

RICHARD C. ROSSI
Deputy City Manager

October 19, 1998

To The Honorable, The City Council:

Please find attached a response to Council Order No. 74, dated September 28, 1998, regarding an explanation of ongoing excavation and construction on Cambridge Street, received from Public Works Commissioner Ralph Dunphy.

Very truly yours,

Robert W. Healy
City Manager

RWH/mec
Attachment

Consent Agenda #17

6545

Relative to Council Order #74
of 9/28/98 regarding an explanation
of ongoing excavation and construction
on Cambridge Street.

In City Council October 19, 1998

PLACED ON FILE