

CITY OF SOMERVILLE, MASSACHUSETTS

DEPARTMENT OF PUBLIC WORKS JOSEPH A. CURTATONE MAYOR

STAN KOTY Commissioner

RICK WILLETTE Director of Operations

April 24, 2014

TO:

Ald. Heuston

FROM:

Melissa A. Miguel, P.E. W

Acting Director of Engineering

Re:

Order No. 22

2013 Ward 2 Sewer/Drain Cleaning and TV Inspection

National Water Main Construction Company has been contracted with the City of Somerville to perform sewer and drain line cleaning and television inspection in two sections of the City including the area of Ward 2 along Washington Street between Beacon Street and the Argenziano School, Dane Street between Somerville Avenue and Washington Street and Dane Avenue between Dane Street and Washington Street. Catch basin laterals along Dane Avenue were also cleaned in an attempt to minimize flooding in that area. Work commenced on July 8, 2013 and was completed on October 3, 2013 in this area.

The cleaning and inspection operation revealed debris in the lines ranging in depth from 6" – 18" (pipe sizes varied from 8" to 30") as well as the presence of boulders and other obstructions. These depths represent an approximate reduction in pipe capacity of 30% - 50% and the presence of boulders can reduce capacity even further. Approximately two hundred and twenty (220) tons of debris was removed from the system in the areas indicated above. It's encouraging that we have been able to remove this debris from the system. It's even more encouraging that the system appears to be structurally sound in this area. While cleaning these mains won't solve the long-term flooding in this portion of the City, restoring the capacity of these mains will help to improve overall conditions in the area.

I have recently added cleaning and TV inspection to the scope of work for Kingman Road and Clark Street. It should be noted that the GLX project will be redirecting stormwater flow away from the Kingman Road/Clark Street area where it currently exits the railroad corridor. The proposed design will collect stormwater from the corridor and the new Union Square station and detain it in tanks that are under the station platform and in the corridor. (See attached plans) The proposed discharge will be at the intersection of Linden Street and Charlestown Ave.

Under existing conditions, although some stormwater runs off the corridor, the drainage in the corridor from Medford Street generally runs in surface swales under the Prospect Street bridge to a low point at Kingman Road. It then enters a catch basin at the end of Kingman.

In the proposed condition, all the drainage within the proposed railroad right-of-way from Medford Street to Prospect Street and from the proposed Union Square Station will be collected in sub-drains, detained and then is discharged to the Linden St storm system at a mitigated rate.

Cc: Stan Koty, DPW Commissioner





