

**CITY OF KINGSTON**  
**Office of the City Engineer**  
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Ralph E. Swenson, P.E., City Engineer



Steven T. Noble, Mayor

8  
May 5, 2017

**MEMORANDUM**

To: City of Kingston Planning Board  
From: Ralph Swenson, PE, City Engineer   
Cc: Joe Chenier, Supt of Public Works  
Dan Gartenstein, Corporation Counsel  
Re: Sanitary Sewer Impacts, LANDMARK PLACE Project, 300 Flatbush Avenues  
Date: May 5, 2017

**BACKGROUND**

The applicant, RUPCO, has proposed to renovate and expand the facilities located at 300 Flatbush Avenue. They have set forth a sanitary sewer design flow of 8,170 gallons per day. This property was previously occupied by the County of Ulster. The buildings on the site are currently connected to the City of Kingston sanitary sewer on Flatbush Avenue.

In the initial stages of project review the applicant offered to re-direct the sanitary sewer flow from its current discharge into the Flatbush Avenue Sewer to another part of the City Sewer System due to my concerns regarding capacity and structural issues in the Flatbush and Foxhall Avenue Sewers, in particular between sanitary manhole #146 at Sheehan Court and sanitary manhole #170 at Downs Street. The section of sanitary sewer previously described incorporates several difficult flow geometries, a 120 degree bend at the intersection of Flatbush Avenue and two 90 degree bends at Downs Street.

The proposal involves LANDMARK PLACE installing a pump station and pumping to the sanitary sewer system in Clifton Avenue, which runs to the Lincoln Street Pump Station and thence to the East Chester Street Sanitary Sewer.

A site inspection with City representatives and the applicant's engineer was held at the Lincoln Street Pump Station on Thursday, April 13, 2017. At that time, Allan Winchell of DPW indicated that the pump run-times at the Lincoln Street Station were low, and he later forwarded the actual pump run-time data confirming this. The generator and other vital components at the Pump Station are in good working order. On that day, we opened the sanitary sewer manhole covers on Clifton Avenue (from Meade St. to Lincoln St.) to inspect the sewer flow through the manholes, and found the flow was generally unimpeded toward the Lincoln Street Pump Station. Other anecdotal information considered was the lack of maintenance operations performed along this same stretch of sewer by the Department of Public Works, an indication of uninterrupted service acceptable sewer condition.

Subsequent to our site inspection, City forces attempted to remotely inspect the previously described section of sanitary sewer on Clifton Avenue on two occasions, but experienced technical problems with the TV camera. On Friday, May 5th, the line was televised, by an outside contractor, from Meade Street to Lincoln Street.

The Clifton Avenue Sanitary Sewer starting at Meade Street, MH #7, downstream through MH #6 is only 6 inch diameter, even though city records indicated that it was 8 inch diameter. This section of pipe was observed to be in fair to poor condition. This pipe is Vitrified Clay Tile.

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The Clifton Avenue Sanitary Sewer pipe section between MH #6 and MH #5 at Lincoln Street was observed to be 8 inch diameter and in very good to excellent condition. This pipe is also Vitrified Clay Tile.



**CONCLUSIONS AND RECOMMENDATIONS**

It is my recommendation that the LANDMARK PLACE wastewater be directed away from the Flatbush Avenue Sanitary Sewer (as proposed) and pumped to Manhole #6 (approximately 280 ft. south of the Meade Street MH #7, and approximately 980 ft. south of Flatbush Avenue).

It is my conclusion that this approach is satisfactory and will not significantly impact the sanitary sewer system of the City of Kingston. It is my further conclusion that the Lincoln Street Pump Station has ample capacity to accommodate the additional flow of 8,170 gallons per day from the project.