



City of College Park



Memorandum

Date	December 9, 2023
To:	Stanley D Hawthorne, City Manager
From:	Emmanuel Adediran, Public Works Director, Timothy Lewis, Water Superintendent
Subject:	Emergency Sewer Main Replacement

Summary

During the excavation for a new 8-inch (") sewer pipeline by a contractor on West Fayetteville Road, aimed at constructing a sanitary sewer for a new housing project, an unexpected 18-inch hole was discovered on the side wall at the bottom of the manhole (SCA383). Consequently, the initial plan to rehabilitate the manhole is no longer feasible. Subsequent inspection revealed that the entire section of the 8" West Fayetteville sanitary sewer pipe, extending towards Phoenix Boulevard, had collapsed, hindering standard Closed Circuit Television Video (CCTV) inspection. The sanitary sewer manhole is presently in a state of heightened distress, teetering on the edge of failure. Urgent restoration is essential to prevent the potential hazards of a sanitary sewer spill and backups, posing a substantial risk to public health, public relations and opening the door to punitive measures from State agencies.

Discussion

During the excavation for the tie-in of a new 8" sanitary sewer pipeline on West Fayetteville Road, part of the construction project related to a new housing project, an unexpected discovery disrupted the original plan. At the bottom of the side wall manhole, a substantial 18-inch hole was found, prompting a reassessment of the initial intent to rehabilitate the manhole (SCA383). The erosion of the channel bottom raised concerns about potential infiltration into the ground.

In response to this information, the Public Works Director, the City Engineer, and the Chief Building Officer visited the site for an assessment. The comprehensive evaluation revealed that the entire section of the 8" West Fayetteville Sanitary Sewer pipe, extending towards the intersection with Phoenix Boulevard, had collapsed. Although a typical response would involve a CCTV (Closed Circuit Television Video) inspection to assess the sewer pipe's condition, the collapsed state obstructed the CCTV camera from traversing through. Notably, the sanitary sewer manhole under discussion exhibited an increased level of distress, indicating imminent failure. Metals & Materials Engineers, L.L.C

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Commented [SH1]: Is "SCA" an acronym for something?
This how we identify the city's manhole with letters and number

Commented [SH2]: Spell out initial use of acronym.
Closed Circuit Television Video

(MME), the vendor for the City, attempted to conduct a CCTV Inspection. However, due to the poor condition of the sanitary sewer main, MME could not complete the inspection using CCTV. MME tried to enter via manholes SCA382, SCA383, SCA381, and SCA380, without any success, as these manholes are damaged, and connecting pipes are partially collapsed.

Immediate restoration is crucial due to the potential risk of a sanitary sewer spill and the obstruction causing backups. This situation poses a substantial threat to public health and public relations, carrying the possibility of adverse publicity, as well as the potential for punitive measures from State agencies. The sewer line is set to be put into full service in January 2024 with a 300-unit housing project coming online. Therefore, it is imperative to address this issue promptly, as higher loading could complicate the bypassing process for construction. After significant deliberation, City staff has determined that this needs to be treated as an emergency.

The proposed plan includes the reconstruction of an 8-inch sewer main along the same alignment as the collapsed pipe on West Fayetteville Road by removing and replacing it. Additionally, new manholes will need to be rebuilt to channel the flow. Due to the increased loading at the intersection of West Fayetteville and Phoenix Boulevard from feeding lines, there is a proposal to increase the size of the pipe from 8 inches to 12 inches in anticipation of handling the increased volume. Furthermore, another 250-unit housing complex is expected to be constructed on West Fayetteville Road by the end of 2024. The current pipe along the sidewalk on Phoenix Boulevard has sustained significant damage and collapse, mainly attributed to tree roots. The proposed replacement involves a new pipe running eastward on Phoenix Boulevard, connecting at Manhole [SCA379]. The chosen materials for this replacement are either Vitrified Clay Pipe (VCP) or Cement Coated Mortar Lined (CMCL) pipe.

An emergency purchase is defined as the immediate procurement of goods and/or services that arises unexpectedly and poses a threat to public health, safety, property, or the welfare of the community.

This structure is designed to strike a balance between the imperative for prompt responses during emergencies and the critical need to uphold transparency and accountability in the procurement process. Within defined monetary thresholds, the Purchasing Division is empowered to endorse emergency purchases. Moreover, the City Manager is authorized to approve purchases up to \$10,000. Nevertheless, in cases where the amount exceeds this limit, any purchase sanctioned by the City Manager necessitates ratification by the Mayor and Council at the subsequent scheduled meeting.

Procurement of Services

The Public Works Department through the Purchasing Division will solicit proposals from qualified vendors to perform the emergency, unscheduled work. Bids will be sought from these vendors to determine the lowest responsive bidder. The funding for this project will be allocated from account Number 505 designated for 4400-52-5800.