5816 Georgia Avenue NW

Photo from https://soapstoneapts.com/

Greening Urban provided engineering services in support of a private commercial apartment building project developed by PETRA at 5816 Georgia Avenue NW. This designed and built project entailed the demolition of five buildings and the construction of a six-story apartment building. The design required planning for the disconnection of all existing utilities, and for new water, sanitary, fire prevention, and storm drainage systems.

As the project area exceeded 5,000 square feet of ground disturbance, stormwater had to be managed on-site with no overflow to adjacent private properties. The GU stormwater management system design included several green roofs, a bioretention facility, and two permeable pavement systems. Collectively, these systems provided enough capacity to meet the stringent District of Columbia stormwater management requirements. The approved design allowed some sheet flow to the adjacent public alley.

An especially challenging design problem involved the relocation of an air relief valve that was part of a 30-inch water main. Extensive coordination with the DC Water and Sewer Authority and the District Department of Transportation resolved technical and boundary issues and allowed the project to proceed.

The site had some recognized soil contamination resulting from prior industrial uses. This influenced the infiltration rates; Greening Urban designs met DOEE concerns and alleviated potential delays.

Location
5816 Georgia Ave. NW
Washington, DC

Start Date
January 26, 2021

Completion Date
July 27, 2023

Developer
PETRA Development

Construction Cost
$1 Million

The project is in the District's Combined Sewer System (CSS) area. The Greening Urban design manages most of the stormwater on-site, reducing the demand on the DC Water tunnel that stores urban stormwater run-off.

greening urban
SUSTAINABLE SOLUTIONS