

Green Infrastructure in Brooklyn at 650 Locations



This NYCDDC project aimed to construct Right-of-Way green infrastructures in NYC's combined sewer areas to collect and infiltrate stormwater runoff. The Applicant provided Resident Engineering Services, including design modifications, survey work, construction management, inspection, and final document preparation. The project was delivered below budget and ahead of schedule.

In total, the project constructed 443 Concrete Top Infiltration Basins, 38 Grass Top Infiltration Basins, 49 Combined Concrete and Grass Top Infiltration Basins, 66 Bioswales, 8 Type "D" Bioswales, 7 Green Strips, and 3 Rain Gardens.

The project utilized three technologies to reduce stormwater entering the City's sewer system, increasing street drainage capacity and reducing local flooding risk. By redirecting thousands of gallons of stormwater, these technologies minimized sewage overflow into local waterways during storms.

Constructing green infrastructure brings numerous social and economic benefits, such as creating a vibrant atmosphere, improving air quality, and enhancing aesthetics. Economically, it saved NYC money by reducing stormwater flow to the combined sewer system, lowering treatment costs.

Challenges included evaluating existing soil to design appropriately sized green infrastructure and adapting to changed conditions after contract documents had been prepared. The Applicant surveyed asset locations, coordinated with NYCDEP and private utility companies, and identified optimal asset locations to avoid conflicts.

The project exceeded client expectations, with residents pleased with the neighborhood's greening. Planting additional trees and vegetation improved infrastructure and aesthetics while reducing pollutants in local waterways. Our staff worked diligently with the community, addressing concerns and establishing personal relationships.