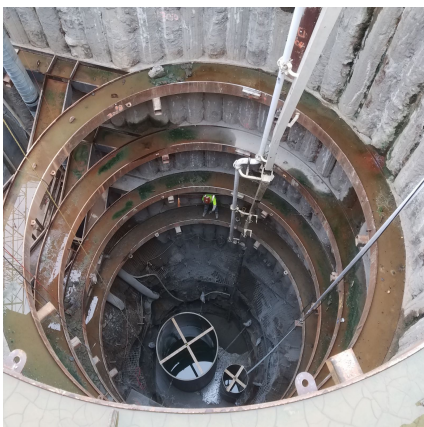


Division PR-B - CSO-021 Diversion Facilities - Drop Shaft Washington, D.C.



PROJECT OVERVIEW AND CHALLENGES

Bradshaw was contracted to install a drop shaft in rock on a small footprint bordered by the Kennedy Center for the Performing Arts, the Potomac River and the Theodore Roosevelt Bridge. The drop shaft contained two 108" sanitary sewer interceptors which will eventually be connected to DC Water's large diameter combined sewer overflow mitigation tunnels currently being constructed. The Kennedy Center's renovation will open long before DC Water's tunnels are ready for the flow, so the sewer infrastructure was installed during the renovation. The drop shaft was through rock requiring drill-and-blast excavation in close proximity to very sensitive adjacent structures and under extreme security of the Nation's Capital. Through intense coordination between the project team and local regulatory authorities, the five blasts were completed safely and without disruption to Washington, DC.



PROJECT INFORMATION - 571

OWNER:

DC Water & Sewer Authority
DC Clean Rivers Project
202-787-4460

ENGINEER:

Jacobs & Associates
202-787-4678

CONTRACTOR:

James G. Davis Construction /
Corman Construction

COMPLETION DATE:

10/25/2017

GEOLOGY:

Gneiss

EXCAVATION METHOD:

Blasting

MINING DIMENSIONS:

40 VF x 23' Ø

FINAL LINING:

Rock Bolts with Shotcrete
48" and 120" FRP Drop Pipes

FOR MORE INFORMATION:

Todd Brown, Project Manager
410-970-8300
tbrown@bradshawcc.com
Refer to Project 571