



CONVEYANCE AND STORAGE TUNNEL



The Clean Water Project

(CWP) is a program that upgrades the MDC's wastewater infrastructure with more than \$2 billion of improvements designed to protect the health and safety of citizens during storm events and formally addresses a federal consent decree and a Connecticut DEEP consent order to achieve Federal Clean Water Act goals. With a total cost of approximately \$500 Million, the South Hartford Conveyance and Storage Tunnel (SHCST) is the largest component of the CWP.



WHAT IS IT?

The **South Hartford Conveyance and Storage Tunnel (SHCST)** is a four-mile long, deep rock tunnel constructed to convey and temporarily store excess wastewater and storm water from portions of South Hartford and West Hartford. The corridor will extend from the Hartford Water Pollution Control Facility to Talcott Road in West Hartford.



WHAT DOES IT DO?

During heavy rain events, the tunnel will store wastewater and stormwater, which will minimize sewage overflows into local waterways including the Connecticut River and Long Island Sound. These events occur about 50 times a year.

WHAT HAPPENS TO THE WATER?

The stored water will be processed at the Hartford Water Pollution Control Facility. After processing, the water is then released back into the Connecticut River, without any pollutants or nitrates.

WILL IT AFFECT ME?

At the surface, people should not hear or see the tunnel construction. There will be some minor disruption during construction, as several consolidation conduits and drop shaft facilities are constructed. These are needed to divert wastewater into the tunnel.

Where is the SHCST?

QUICK FACTS

4 miles in length

18 feet in diameter

↓ 200 feet average depth

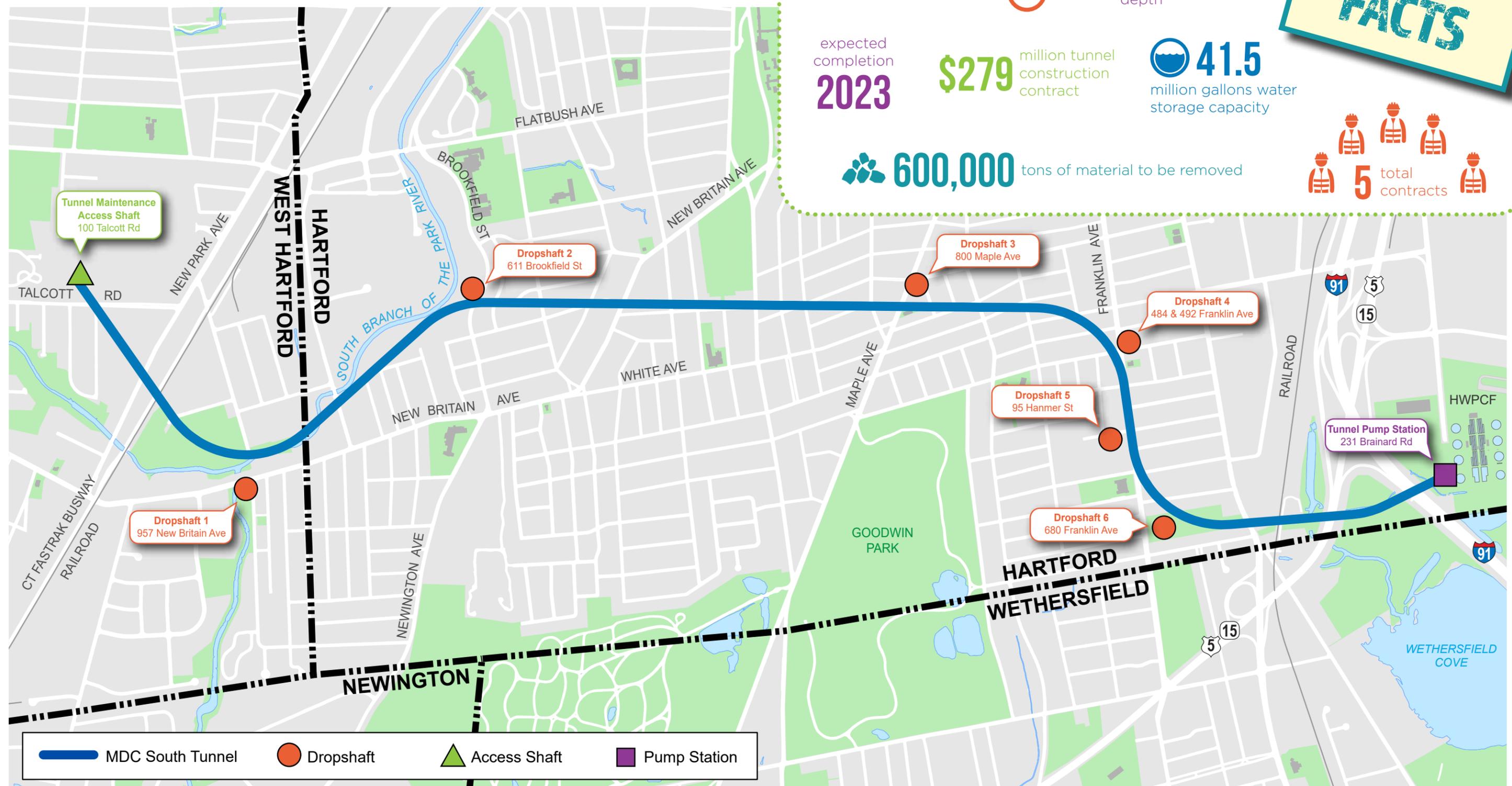
expected completion 2023

\$279 million tunnel construction contract

41.5 million gallons water storage capacity

600,000 tons of material to be removed

5 total contracts



TUNNEL BORING MACHINE



The SHCST is being dug with a tunnel boring machine (left). Traditionally, tunnel boring machines are given a name for good luck. The MDC partnered with Hartford's Environmental Sciences Magnet School, under which the tunnel will pass, to hold an essay contest to choose a name. The winning name was "Iris", which comes from the Greek word for "rainbow", and from the Greek goddess who personified the rainbow. The author stated that the tunnel will allow everyone to enjoy the "rainbow, which appears after the storm" as its function is to collect stormwater and wastewater during rain events.

GEOLOGIC PROFILE

