



Precast Concrete Surge Tank Vault

# GLEN MILL ROAD PUMPING STATION

## Surge Tank Vault Installation Project

Rockville, Maryland

The project consists of the manufacture and installation of a precast concrete vault for the new hydro-pneumatic surge tank at the Glen Mill Pump Station. The surge tank is a critical piece of the surge suppression system that protects the City's 24-inch water transmission main and the Glen Mill Pump Station. The Glen Mill Pump Station has a capacity of 10 MGD and pumps through a 6-mile-long, 24" transmission main that operates at pressures up to 190 psi.

The surge tanks work in concert with air release valves, which protect the City transmission main from damaging pressure

surges that may occur during service disruptions such as power outages at the water treatment plant or the pump station.

The surge tank was installed in an underground precast concrete vault at the Glen Mill Pump Station to avoid visual impact on the adjacent residential community.

### PRECAST SOLUTION

Oldcastle Infrastructure manufactured the 12' wide x 25' long x 11'4" deep precast concrete tank vault at their Fredricksburg, VA precast plant.

### DESIGN & CONSTRUCTION TEAM

**General Contractor**  
CPP Construction

**Owner**  
The City of Rockville - Public Works

**Contract Amount**  
\$275,000

**Precaster**  
Oldcastle Infrastructure

**Manufacturing Facility**  
Oldcastle Infrastructure  
Fredricksburg, VA

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The 102 ton structure was designed in three pieces with a 3 way split slab and separate sump pit. The largest piece was the 37 ton base.

Oldcastle Infrastructure, Inc. and CPP Construction installed this in one afternoon using a 300 ton hydraulic crane.

### AWARD OF CONTRACT

February 6, 2012

### SCOPE OF WORK

#### Precast Structure

##### A. STRUCTURAL ENGINEERING

Detailed engineering:

Drawings:

Detailed drawings

##### B. Precast Concrete Product

Size:

Concrete:

Weight:

12' wide x 25' x 11'4" deep tank vault

5,000 psi concrete

Approximate finished weight: 102 Tons

##### C. Installation:

(3) Precast concrete components using a 300 ton hydraulic crane

### About Oldcastle Infrastructure

Oldcastle Infrastructure, A CRH Company, is the leading provider of building materials, products and services for infrastructure projects to several market sectors nationwide, including: Building Structures, Communications, Energy, Transportation and Water.

### For More Information Contact:

#### Oldcastle Infrastructure

Phone: 888.965.3227

Address: 5115 Massaponax Church Rd  
Fredricksburg, VA 22407

[oldcastleinfrastructure.com](http://oldcastleinfrastructure.com)