### ARBORS PARKING GARAGE









## **Project Description**

New cast-in-place post-tensioned (PT) parking garage connected to residential building.

- 6- levels parking building
- 2 below-grade levels
- 4 above-grade levels
- Total area of approx. 173,000 sq.ft. (143,000 sf of elevated parking deck)

## **Design Features:**

- Unbonded PT System.
- 60 ft. by 27 ft. bays
- Design Live Load: Parking garage 40 psi.
  Stairs 100 psi
- Seismic Design Category B

Baltimore, MD

### **CAPABILITIES**

- Structural Design
- Post-tensioning

#### Developer:

**Somerset Construction Company** 

#### Architect:

KTGY Group, Inc., Architecture + Planning

General Contractor:

Whiting-turner

Project completion:

2011

Industry

Residential - Parking Garage

Project type:

**NEW CONSTRUCTION** 

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# **Full Project Description**

The Arbors at Baltimore Crossroads, located in Baltimore County, MD, is a multi-family residential structure consisted of four apartment buildings and one associated parking structure. This 1,000-acre mixed-use community is a LEED-certified property with 365 premiere luxury apartments and 586 parking spaces in the heart of White Marsh.

Kline designed the post-tensioned cast-in-place concrete parking garage. The garage consists of six levels, two below grade levels, and four above grade levels. The design incorporates 60 ft. by 27 ft. bays that provide an economical parking layout. To achieve economy and efficiency, encapsulated unbonded post-tensioning was used for the slabs and beams. Our team worked closely with the owner to deliver a durable and economical parking structure.

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