

Verde at Greenbelt Station Parking Structure



Project: Verde at Greenbelt Station Parking Structure

Location: Greenbelt, MD

Owner: Atapco Properties, Inc.

Architect: Gate 17 Architecture, LLC

Engineer: Gate 17 Architecture, LLC

General Contractor: Lend Lease

Design of the Verde at Greenbelt Station parking structure offered numerous challenges even during the bid process, as features including precast planters hung off the spandrels, separate cornice pieces, and a non-repetitive mix of architectural colors and textures were added to the design. Shockey's flexibility and expertise in handling complex parking structure projects ensured that the changes were quickly and seamlessly incorporated into the estimating process, and a price and schedule were developed that would meet the Owner's budget and overall construction schedule, as well as aesthetic vision for the Verde at Greenbelt Station residential community.

For the four-story, one-bay parking structure located in Greenbelt, Maryland, The Shockey Precast Group manufactured 524 pieces of precast, including 141,606 SF of 12' x 30" deep double tees. Shockey also produced and erected flat slabs, shear walls with architectural finish, wall panels with architectural finish, stairs, columns, inverted t-beams, horizontal rampwalls, architectural rampwall parapets, and architectural cornices. The 200,849 SF parking structure features the use of multiple colors and finishes, including tan, red, and grey, acid wash, brick form liner, and thin brick.

The site's location adjacent to railroad tracks also presented challenges for Shockey, especially in terms of precast erection logistics. To absorb some of the sound on the side of the parking structure facing the railroad tracks, Shockey incorporated quadratic diffusers as sound attenuation measures. To comply with requirements for LEED certification, the parking structure's design included a solar array mounted on top of the structure. Shockey engineers worked with the project team to address potential load issues created by the addition of the solar array. Additional challenges included coordination of the residential buildings with construction of the parking structure. Shockey worked with the project team

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to provide recommendations and to develop solutions that would ensure smooth project flow. Onsite meetings and Go-To meetings were also utilized to maximize project plans. Although the Verde at Greenbelt Station Parking Structure project presented complex challenges from design through erection, The Shockey Precast Group worked closely with the Owner and the project team to ensure open communication, customer satisfaction, and successful project completion.