AN AUTOMATED PARKING SOLUTIONS CASE STUDY:

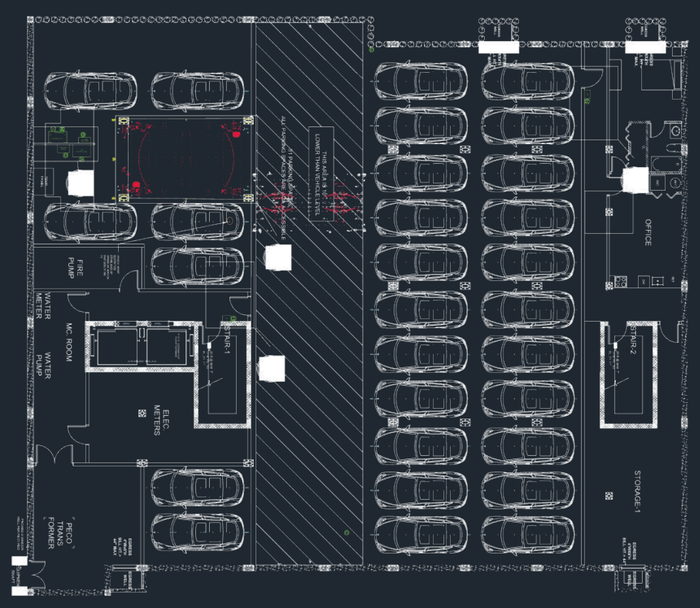
4211 SUITES

Philadelphia, PA

OUR AUTOMATED PARKING SYSTEM NEARLY TRIPLED THE DEVELOPER'S UNIT COUNT: COMPLETELY TRANSFORMING THE PRO FORMA

Our collaboration with developer Phillip Zhao brought 4211 Chestnut Street to life as a modern, amenity-rich community designed for student housing and short-term stays. The project seamlessly integrates smart design, contemporary living, and urban convenience, delivering an elevated residential experience in the heart of University City.

To address limited space and the demand for convenient, secure parking, the development features a fully automated parking system provided by Westfalia Technologies, Inc. This technology-forward solution efficiently stores and retrieves vehicles, maximizing land use while offering residents and guests a seamless parking experience. The system's compact footprint and high reliability made it the perfect fit for this urban infill project.



6500
SQUARE FEET BASE AREA

29
PARKING SPACES

ABOUT THE CUSTOMER

4211 Suites is a modern student housing and short-term stay development located in Philadelphia. Designed to meet the needs of a dynamic, urban population, the project combines contemporary living with smart infrastructure to enhance the resident experience.

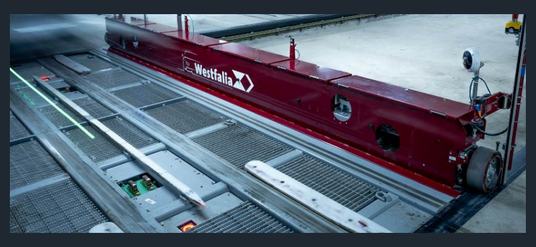
CHALLENGE

The developer faced a significant challenge: the original design allowed for only 11 conventional parking spaces within a single below-grade level. Due to zoning requirements mandating a 3:1 unit-to-parking ratio, this limitation capped the project at just 33 units.

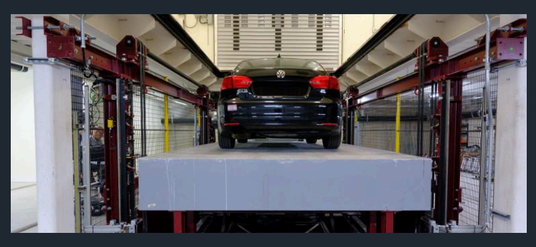
SOLUTION

Westfalia Technologies, Inc. was brought on board to re-imagine the parking solution. Utilizing their automated parking technology, it transformed the same space to accommodate 29 parking spaces, nearly tripling the original capacity. As a result, the developer was able to increase the total unit count to over 90, unlocking the full potential of the site without expanding the building footprint.

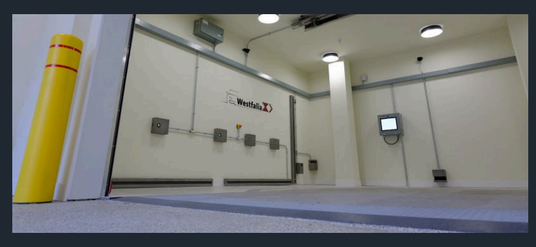
SMARTER INFRASTRUCTURE THAT GIVES SPACE BACK



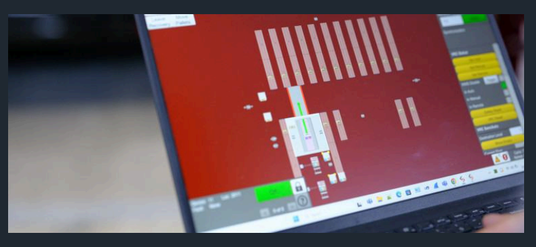
1 Transfer Car (T-Car) with Satellite®



1 Vertical Lift



1 Transfer Area (Bay)



Savanna.NET Parking Control System (PCS)

"WESTFALIA, IT'S LIKE A FAMILY, EVERYBODY IS JUST GREAT, I HIGHLY RECOMMEND TO ANY FUTURE DEVELOPERS"

PHILLIP ZHAO - DEVELOPER

TRIPLING PARKING CAPACITY

RESULTS

The successful implementation of Westfalia's automated parking system at 4211 Suites has added significant value to the development, both operationally and experientially. The system has streamlined the parking process for residents and short-term guests, offering a fast, user-friendly solution in a high-density urban environment.

BENEFITS

Space Optimization:

Achieved maximize parking and dwelling capacity with our innovative design.

Enhanced Security:

Vehicles are securely stored in an inaccessible basement storage area

Increased Property Value:

The integration of advanced parking technology supports a premium living / rental experience.

Tripling Unit Count:

With the optimization of an automated design we were able to add 3 times as many spaces as a conventional design would allow.