Stott Lane Car Park

- Single deck car park
- 385 spaces
- Foundationless
- Portable for relocation
- Installation of attenuation tanks and drainage
- 50 year structural design life



Case St	udy		
PROJECT	Salford Royal Car Park		
TOMER	Salford Royal Hospital NHS Trust		
OCATION	Salford		
NTRACT	JCT 2016 D&B	anni in the second	
PLETION	October 2022		
RATION	20 weeks		
LUE	£2.7m		



Q Need

The land on which hospital and public sector buildings occupy is limited and valuable. Expansions to hospital buildings and wards create a greater need for car parking capacity. Surface level car parks use valuable land space, Octavius' challenge is to release that land and increase parking provision.

The construction of a new intermediate care ward at Salford Hospital resulted in loss of circa 100 spaces on the campus. Additional car parking spaces were needed to meet the capacity demand created by the expansion. Salford Hospital awarded Octavius the contract based on our history of building modular steel framed car parks within the public and private sector.



The Octavius modular system is around 30% cheaper than traditional pre-cast concrete construction. This system provides a solution that is both cost effective and efficient in design.

Working with the Trust, Octavius were instructed to erect a single deck on to the existing surface car park. Adding a deck on to the existing car park, improves both the at grade layout and maximises the number of spaces in the land available.



The deck layout utilised our standard modular bay system, bay sizes were 5m x 5m. Following in-depth site investigations, the ground was suitable to hold our patented foundation plate, meaning the deck could be erected without the need for piling. This saves the client around 25% on programme, and subsequent costs. To support controlling costs the client selected our standard mesh cladding to be installed on the upper deck, and Zuccini lighting throughout.

Improvements were made to the drainage system, installing attenuation tanks to reduce the off-site water flow. This improvement reduced the risk of flooding downstream and restored the land to the equivalent of a green field site.

The car park boasts 354 parking spaces, 6 of which were 7kWh EV spaces and 31 disabled spaces, all of which installed on the ground floor.

During construction, it was important to Octavius that we adopted the NHS safety culture, alonaside our own, of 'do no harm' to a working hospital. This meant that our site compound footprint was 6 parking spaces in total during all phases of construction and no additional space was used. In order to minimise disruption to the hospital we constructed the car park deck initially in a ushape in order to contain the concrete pump inside the decked footprint. This innovative approach meant that our construction took up minimal space, and there was little to no interface with the public and operations of the Hospital buildings. Another benefit was that the existing surface car park could still be operational for staff and visitor parking and access to the other car parks on the campus was not interrupted.







Case Study

The Octavius modular system is a quick, efficient, and cost-effective solution to transforming an existing area into revenue generating parking.

The flexible design means the system can be easily expanded or dismantled and removed to a new location to meet customer needs.

Compared with traditional pre-cast concrete car park builds, this steel framed modular system reduces costs and construction time by around 30%. Modular car parks with multiple intermediate supports provide the lowest material use and therefore the lowest potential cost and embodied carbon. Our car parks decrease carbon, increase parking functionality through our open plan design, and maximise flexibility within design.

Modular systems have an inherently lower foundation loading, and can even be foundation less using our patented system. The bay sizes allow for future rearrangement of the spaces, whether changing to disabled, EV, van or bike spaces.

Although the client opted for our most rudimentary system to control costs, the same efforts were paid towards quality design and quality delivery of the car park as with any Octavius constructs.

The car park is now operational and used as staff and visitor car parking, providing a much needed increase to parking capacity.

A key pillar of the Octavius business is Social Value. Whilst on site Octavius invested in the local children's football club, Salford Storm, providing football kits to the under 7's and under 14's teams. Octavius are still an official sponsor of these teams and happy to be displayed on their website. Social value is a key string in the Octavius bow. Octavius are committed to invest in the local communities in which we work in, no matter how big or small the project.

