



# Modular Car Park

Speaking to a specialist saves you time, cost and space



A recently completed Osborne/Siderpark car park as illustration only

# Issue

Adding a parking deck directly on an existing car park surface is the quickest and cheapest solution to increasing capacity. But the trick is to engineer the best solution in terms of entry and exit points, how long people use the spaces, traffic flow and disabled access. Alongside this are features like cladding, EV chargers, and PV cells.

In many cases client's go straight to an architect or consultant to design a car park but this approach may not give you the best options. You would never go to a GP to have knee surgery! So why go to a generalist designer for a very specialist parking solution. Here is an example of how early engagement with a modular car park specialist can shorten the procurement period, save cost, and potentially save land.

# Solution

The Client produced a layout for tender purposes. On receipt we re-engineered the proposal to produce two alternative options which provided the same number

of parking spaces. Both options had savings, either in terms of a smaller overall footprint or a smaller deck. Both saved cost over the initial design and one also freed up land for future development.

1. **Client's design** – a large deck area with a new at grade level car park to be formed to the west of the new car park.

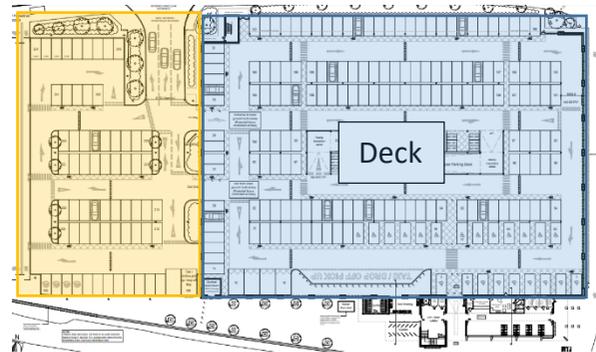


Figure 2 - Client Design

2. **Siderpark / Osborne alternative design 1** - same number of spaces, without the need to construct the at grade car park, freeing up land for further development



Figure 3 - Re-designed on smaller footprint

3. **Siderpark/Osborne alternative design 2** – same number of spaces but a 25% smaller deck area, meaning less costs for the car park structure.

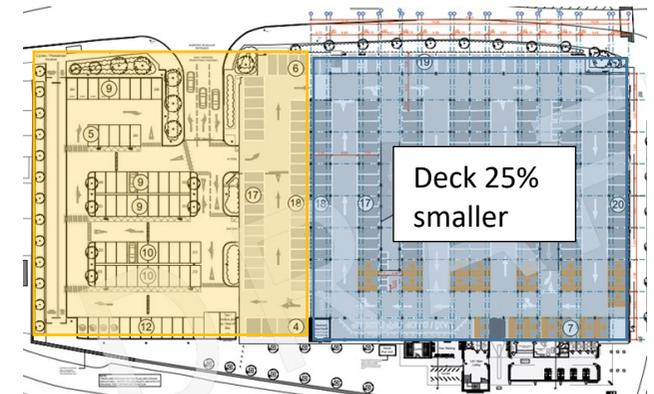


Figure 4 - Re-designed using the same footprint but 25% reduction in deck

# Outcome

Every car park is different, and the three solutions demonstrate that there are options within options. Efficiency is gained by understanding your requirements from the outset, then scoping the options, and designing only once.

If you have an existing at grade car park and need a single or double deck to increase capacity, then the best solution, in terms of cost and time, is a proprietary system. Early engagement with the system supplier and their in-house design team can deliver an optimum design which accommodates your specific aesthetic and operational requirements.

Systems like the Osborne/Siderpark offering can be designed to reduce the footprint, simplify traffic flow, and include bespoke cladding, EV charge points, lifts, photovoltaic cells, and lighting. The Osborne/Siderpark JV have their own in-house design and manufacturing capability and bring the expertise, resources, and assurance of a £200m highways and rail infrastructure business.

To discuss your requirements, please contact our Joint Venture Business Manager [Barry Goss](mailto:barry.goss@osborne.co.uk)



Figure 5 - Base plate founded on existing tarmac surface



Figure 6 - Delivery Team



Figure 7 - Aesthetic Design



Figure 8 - Optimum layout and traffic flow



Figure 9 - Well-lit accessible car park