

Liverpool City Centre Connectivity (LCCC)
The Strand – Phase 1

Redeveloping one of 'Liverpool's busiest roads'

£13.9m

/ Project value

July 2020

/ The project commenced

October 2021

/ The project was completed

The Strand is one of Liverpool's busiest roads, running parallel to the River Mersey and passing many of the city's most recognisable landmarks including the Liver Buildings and Royal Albert Docks. The project proposes extensive redevelopment of the highway to improve links and refocus efforts on making walking and cycling the predominant mode of travel throughout the city centre.

The brief

As part of the wider LCCC scheme funded by Liverpool City Council and Liverpool City Region, this scheme was split into two phases. Phase 1 involved works from Bath Street to James Street. The associated works involved removal of several junctions, replacement of footways, a lane reduction in both directions, an addition of a two-way segregated cycle lane, a new SuDS system as well as over 100 trees planted.



"We are delighted to have delivered the first phase of this flagship highways project, which will radically transform Liverpool's city centre's transport links and enhance the city's major routes, benefiting motorists, cyclists and pedestrians alike."

Dave Brown
GRAHAM Civil Engineering
Highways Director

“GRAHAM constructed the project without any reportable accident and were rated exemplary in regular site safety audits, including COVID-19 welfare and site management arrangements. Effective and timely engagement by their dedicated liaison officer helped overcome technical challenges, minimising programme and cost impact.”

Amev in ICE Award Submission

The challenges

The Strand Redevelopment Scheme has proven to be a real challenge in terms of stakeholder management. The area is comprised of some of Liverpool's most beloved buildings, landmarks and venues, all within a relatively busy pedestrian area. The Strand itself is one of the busiest roads in Liverpool, acting as a central artery through the city and has potential to cause disruption. When dealing with uncharted services and utilities there were significant challenges working with ducting and pipes criss-crossing the site. After discovering a high-pressure sludge main had been incorrectly located on the technical drawings, the site incurred several delays and redesigns.

The solution

The project was delivered without needing to adjust or divert any underground services and also provided underground infrastructure for future use, combining economic benefits and protection from future excavations, including Electric Vehicle charging infrastructure and 'Dig Once' fibre ducting. By simplifying the network and improving key junctions, the project has reduced the number of traffic lanes and narrowed the space occupied by carriageways without introducing traffic delays and queuing. This has removed the division between the city centre and the waterfront and improved road connections. The new layout provides safe and inclusive crossing facilities, public realm and attractive public spaces. An additional solution towards the project delivery was slowing down the works around the high-pressure sludge main to ensure it sustained no damage or turning the pipe off altogether so the work in its close proximity could be safely completed.

Outputs & Benefits

Sustainable Drainage System (SuDS): 130 trees were planted forming part of the Sustainable Drainage System providing irrigation, improved storm resilience, increased biodiversity and reduction of air pollution.

Urban Green Up Project: The innovative SuDS drainage technology was completed in collaboration with the local university, the Mersey Forest and the Urban Green Up project.

Waste Management: We recycled or reused all of the 105,140t of waste that the site produced.

Social Value: Throughout the project the percentage of local labour didn't fall below 81%. This is a testament to our ambition to employing local people wherever possible.



For more information on how we're delivering lasting impact:

+44 (0) 28 9268 9500

info@graham.co.uk

graham.co.uk

GRAHAM