

# BCM Expertly Deliver Liverpool Street Station Platform Extensions and Renovations for MTR Elizabeth Line

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BCM has successfully completed the design and build of extensions to platforms 16 and 17 and taken platform 18 out of use as an operational platform at London's Liverpool Street Station, one of the top 5 busiest stations in the UK. These works have been implemented to increase capacity for MTR Elizabeth Line's new 205m Full Length Units (FLU) trains on the network.

These works have modernised parts of the station whilst increasing platform space making the area more pleasant for passengers when embarking and disembarking from the train. Moreover, the new 205m FLU trains will increase capacity by over 30 percent. This is crucial because over the next 25 years the demand for rail transport in the high peak hour towards London Liverpool Street is expected to grow between 40 and 60 per cent.

The key project deliverable was to complete the platform extensions and associated works by 31st May 2021 to ensure the client can fully introduce and operate its new rolling stock. This involved the management and interface of multiple contractors to deliver specialist activities such as modular platform

extensions, slab track installation, roof mounted OLE and multidisciplinary design.

The key challenge throughout this project was to complete this major piece of work with the given time available, which meant BCM had to do the majority of the works during the Christmas and Easter Holidays working round the clock having just 2, 10-day blockades. The strict deadline from the client promoted BCM to employ innovative programme management processes to ensure that programme risk was reduced and managed through mitigation and float management. BCM is pleased to say that the deadline was achieved due to extensive planning, having an adaptive mentality on site, and coming together as a team with the amazing partners that assisted it on this project.

Multiple contractors have been involved in this project including specialist contractors whose help made this project possible. As such, BCM has developed collaborative relationships with shared pain/gain in our contracts to promote positive working relationships.

Furthermore, this project has promoted a new client relationship with MTR Corporation Limited, which BCM hope to build and develop moving forward. It has been able to align its values and capability with MTR to deliver exceptional service and stronger relations.

Mike Sandy, representative for MTR voiced that: “The relationship between BCM and MTR has been fundamental to the success of the project. We have worked together as a team from start to finish ensuring we achieve the common goal and objectives of the project, which we were most importantly able to accomplish on time.”

The key deliverables for this project were:

- Site Surveys
- Site Set Up and Enabling Works
- Material Deliveries
- Management of access and possessions
- Installation of IVES slab track system
- Installation of new S&C and Permanent Way Modifications
- Installation of Platform Extension Access
- OLE Modifications
- S&T Modifications
- M&E Installations

- Civil Works installations
- Decommissioning Platform 18
- Testing and Commissioning

BCM is an award-winning SME, Principal Contractor and leading provider of design, civil & electrical engineering services to clients in the UK transport sector.

Its in-house capabilities, scale and supply chain partnerships allow it to deliver complex, multi-disciplinary projects.

It takes a dynamic, flexible approach to projects on a turnkey, consultancy, main contract, subcontract or resource supply basis to meet client needs time-efficiently and cost-effectively.

BCM says it has been a tremendous collaborative effort with MTR, its client, to deliver this project and says a big thank you to everyone involved from BCM, MTR, and its specialist supply chain, in giving up their Christmas and Easter celebrations to work tirelessly to achieve an outstanding result. For more information on BCM and their exciting work visit: <https://www.bcmconstruction.co.uk/>

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*Photo credit: BCM*