



Project Profile

Transport for Greater Manchester TfGM Metrolink: Expansion of the network

Excalon is proud of its continuing involvement as a key contractor working with TfGM to expand the Metrolink tram network throughout Greater Manchester and improve transport in the region, which is integral to the Government's plans for Manchester and the proposed Northern Powerhouse.

Since 2008, Excalon has worked closely with TfGM, MPT, Manchester City Council, ENWL and other utility companies in diverting and relocating existing utilities equipment to provide a swept path for new lines and stops. as follows:

- New branch lines to Ashton-Under-Lyne, Rochdale, Oldham, East Didsbury and Manchester Airport
- Second City Crossing (2CC) through Manchester
- Multi-utility works for the Second City Crossing (See interactive case study on the website homepage)

TfGM Metrolink: New branch lines to Ashton-Under-Lyne, Rochdale, Oldham, East Didsbury and Manchester Airport

Between 2008 and 2014, Excalon diverted and relocated all the EHV, HV, LV and service electricity cables, substations and associated equipment necessary for the construction of the new branch lines.

The works, which included major installations of 132kV circuits to reinforce the electricity network, presented many challenges and obstacles, including crossing over major highways and junctions and crossing under motorways and rivers and were all undertaken successfully, ahead of schedule and within critical outage periods.

Client - TfGM/MPT/ENWL
Value - £9M
Duration -2008 - 2014

Services Provided:

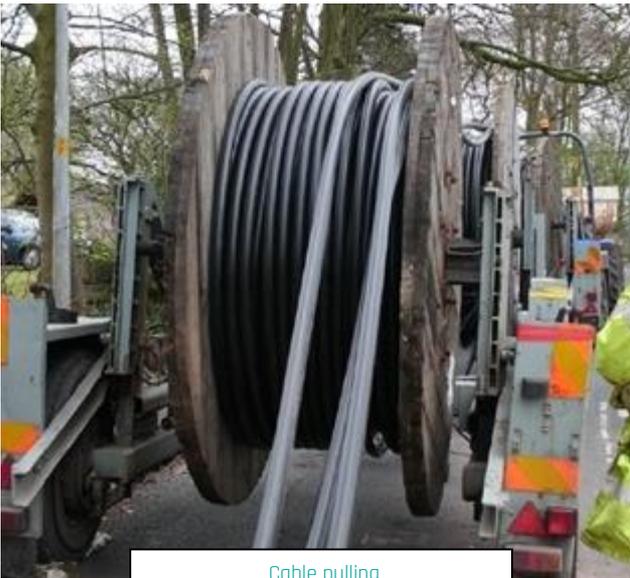
- Principal Contractor
- Project Management
- Stakeholder Management
- Site Management and Supervision
- Traffic Management
- Civil Works
- Directional Drilling Operations
- Installation of EHV/HV/LV and service electricity cables/ductings
- Jointing of cables
- Commissioning



Metrolink stop



Metrolink crossing road



Cable pulling

TfGM Metrolink: Second City Crossing (2CC) through Manchester

Commencing in 2013, Excalon has been diverting and relocating all EHV/HV/LV and service electricity cables, substations and associated equipment together with installing innovative 'multi-utility' ductings in the ground and providing global traffic management (for both pedestrian and vehicular traffic) as necessary for the ongoing construction of the Second City Crossing through the heart of Manchester City Centre.

At the planning stage of the Second City Crossing it was acknowledged that there would be major engineering difficulties caused by having to divert/relocate all the various utilities at the same time in the busy City Centre, where there would be severe congestion with unacceptable disruption and delays. To address these difficulties, Excalon was appointed to work closely with TfGM, MPT, Manchester City Council and all the utility companies to create and install innovative 'multi-utility' trenches/ductings and put in place appropriate global traffic management facilities.

The complexity of the diversionary and relocation works, being in the heart of the City Centre, through conservation areas, presented many other unique challenges and obstacles, which necessitated close cooperation with the client and all the key stakeholders (TfGM, MPT, MCC, all the utility companies, highway and street works inspectors, police, environment agency, heritage and archaeological personnel, owners and occupiers of commercial, retail and residential premises and others). The decision to install multi-utility ductings and provide associated global traffic management facilities has resulted in the works being undertaken successfully, on schedule and has kept disruption in the City Centre to a minimum.

Client - TfGM/MPT/ENWL/MCC/BT

Value - £5M

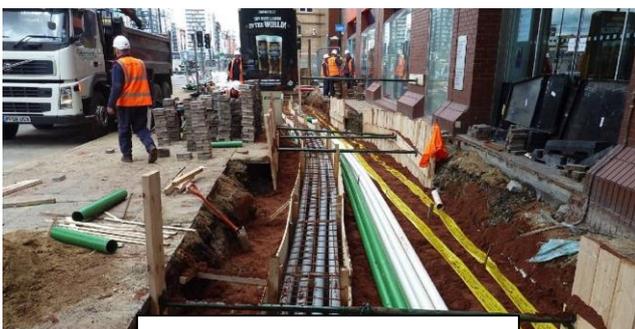
Duration - 2013 - 2016

Services Provided:

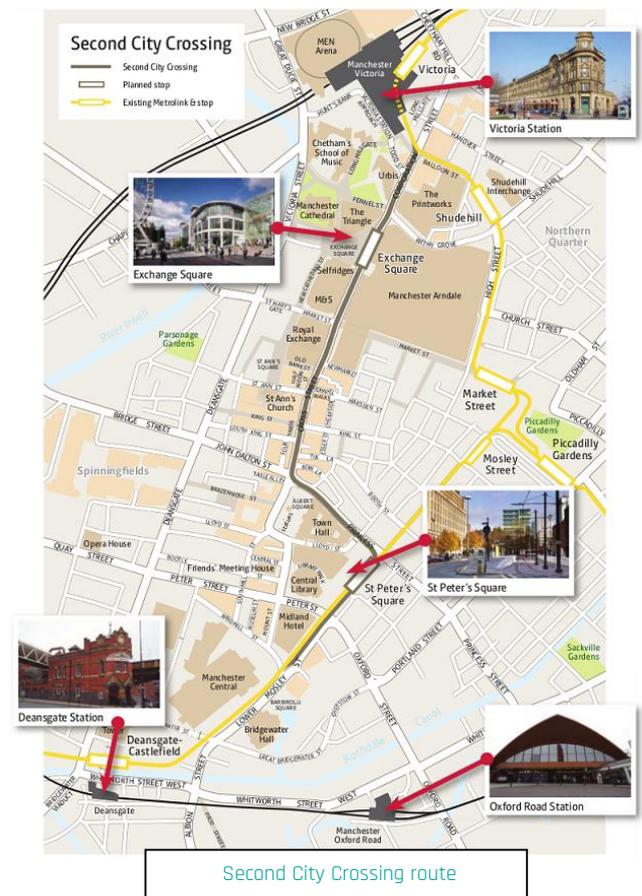
- Principal Contractor
- Project Management
- Stakeholder Management
- Site Management and Supervision
- Global Traffic Management
- Civil Works
- Installation of innovative multi-utility ductings
- Installation of EHV/HV/LV and service electricity cables/ductings
- Jointing of cables
- Installation of BT networks
- Commissioning



Albert Square, Manchester City Centre



Multi-utility ductings



Second City Crossing route

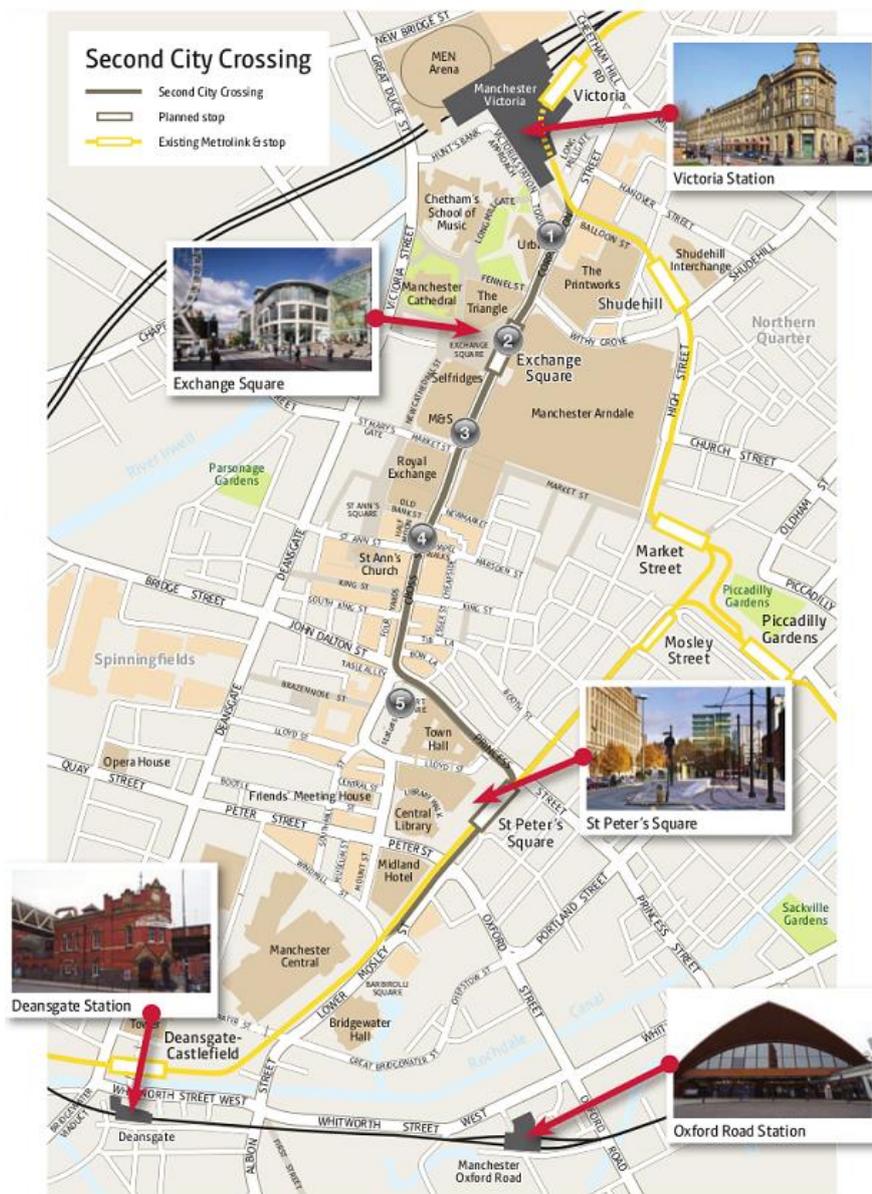
Metrolink Director Peter Cushing has commented:

"Excalon have successfully delivered an innovative multi-utility solution throughout Manchester City Centre as part of the overall utility diversion works required by Metrolink. This has been a challenging programme which has involved works within one of Manchester's busiest public open spaces; it has been delivered with collaboration, great care and professionalism"

TfGM Metrolink: "Multi-utility" works for the Second City Crossing (2CC) through Manchester

The "interactive map" below shows the route of the Second City Crossing and the "multi-utility" works in the various sections.

- Section 1 - Corporation Street/Todd Street
- Section 2 - Corporation Street/Selfridges department store
- Section 3 - Corporation Street/Market Street
- Section 4 - Cross Street/Chapel Walks/Cheapside/King Street
- Section 5 - Albert Square
- Section 6 - Princess Street/St Peters Square
- Section 7 - St Peters Square/Oxford Street



A separate interactive case study for the metrolink multi utility works is available on the website homepage.