



CECA North West members delivered the infrastructure projects vital to our quality of life throughout the COVID-19 pandemic.



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Project: Liverpool Waters – Stanley Dock Tobacco Warehouse New Development

Client: Excalon/Vital Energi

Contractor: V J Donegan & Co Ltd

Value: £600,000

V J Donegan & Co Ltd were approached by Excalon to provide a constructable solution for laying 2 710mm dia. renewable heat pump pipes across Great Howard Street. Donegan's solution included: construction of a drive pit by pre-driving steel sheet piles, a reception pit, an insertion trench using pre-driven steel sheet piles to the back of the drive pit to facilitate the insertion of the 2 710mm dia. renewable heat pump pipes, twin 1200mm dia. tunnels 32.50m long by pipejacking, using a tunnelling machine incorporating a backactor, and threading 2 no. 710mm dia. renewable heat pump pipes through the tunnels.



Project: Moor Lane, Croston Client: United Utilities Contractor Bethell

Value £2.7m

The project at Moor Road involved undertaking the design and build of a storm water attenuation tank and the upsizing of the sewer network including all associated M&E pumping works within the new tank. The location was prone to repeat flooding which was an ongoing issue for residents. The narrowness of the road and the presence of both underground and overground services meant that our team opted for a trenchless method of construction for the new gravity sewer. The collaborative approach brought the client six months of savings on design and construction proposals with significant cost efficiencies established.



Project: Schofield Street Footbridge Client: Rochdale Council Contractor: Taziker

Value: £233,000

The project by was to design, build and install a custom-made footbridge. As the previous footbridge had been closed to the public, the adjacent road bridge was subsequently closed to vehicles in order to provide the pedestrians with a safe way to cross the railway line. The bridge was constructed in three sections, which allowed for efficient transportation and erection. Glass Reinforced Plastic (GRP) was used as an alternative to the original deck design which was originally a concrete slab. By using this material, Taziker reduced the final weight by 10 tonnes and rationalised the amount of steel required enabling a more efficient, carbon-friendly solution with a longer maintenance lifespan.



Project: Mills Hill Station AFA works Client: Network Rail

Contractor: Story Contracting Ltd

Value: £4.5m

Between August 2019 and December 2020, Story Contracting carried out Access For All (AFA) works at Mills Hill Station on behalf of Network Rail. The station serves the communities of Chadderton and Middleton, with access to Manchester, Oldham and beyond. Though the station has an annual footfall of approximately 340,000 passengers, it was inaccessible to passengers with limited mobility. Story Contracting were commissioned to improve the station's accessibility. The scope of the engineering works included the construction of stepped access and a lift on the west side of the station, and a ramp and stepped access on the east side.



Project: A55/A494 Interchange Concrete Carriageway Resurfacing Client: North and Mid Wales Trunk Road Agent (NMWTRA) Contractor: Tarmac

Value: £3.5m

Tarmac were appointed as Principal Contractor to resurface a 3.4km stretch of the westbound carriageway between the A494 St. David's Interchange and the A55 junction 33A. Tarmac and its partners geared up the required resources to undertake this ambitious £3.5m project in less than 1 month. Due to the sensitive nature of the route, it was agreed that works would be undertaken under carriageway closures with a diversion route to enable maximum outputs, ensuring the shortest possible overall programme duration. The works involved planing and re-surfacing 78,700m2 of the eastbound and westbound existing concrete carriageway, overlayed with 50mm of asphalt, crack induced at 6m.



Project: MerseyRail Power Supply Upgrade Value: c. £3,000,000 Client: Volker Rail

Contractor: Pod-Trak

To support the introduction of new trains across the MerseyRail Network, additional power supplies were required to meet the demands of the new rolling stock. Pod-Trak were engaged by the Principal Contractor Volker Rail to carry out the civil engineering works associated with new DNO's and Substations at Birkenhead North, Westfloat, Bromborough and Hillside along with lineside cable routes. With additional measures put in place for the safety of our staff and others, all works continued through the pandemic and will be completed late 2021.

Project: New Brighton Aids to Navigation Replacement

Client: Wirral Metropolitan Borough Council

Contractor: Southbay Civil Engineering Limited

Value: £720,000

The initial proposed design retained the existing tripod arrangement of installing 3no. tubular steel piles. However, due to a restricted budget, and the need to install the piles within a tidal environment, Southbay Civil Engineering Limited together with the council successfully developed an alternative design. This design involved replacing the tripod arrangement with a single 508mm diameter, concrete filled monopile. In delivering the project, significant planning was required in relation to the transportation of materials to the require locations.



Project: Highways England M6 junction 19 Improvement scheme

Contractor: AmeySRM

Client: Highways England

Value: £43 million

AmeySRM, a joint venture between Amey and Sir Robert McAlpine, is delivering the M6 junction 19 Improvement scheme in partnership with Highways England. In March 2020, AmeySRM began the construction of a new bridge across the centre of the existing junction roundabout, linking the M6 with the A556 in both directions. Improvements are also being made to local roads with the installation of new traffic signals just south of the roundabout and a dedicated crossing being created for pedestrians and cyclists. Once completed later this year, the new link road and crossing point will improve connections across the junction, provide quicker and more reliable journeys and make the network safer.





Project: Boulderstones Bridge Reconstruction, Crewe, Cheshire.

Client: Network Rail

Contractor: J. Murphy & Sons Ltd

Value: £5.7m

Phase 1 comprised the temporary diversion of existing services which passed over the existing bridge. During a 27hr blockade, a 750t crane removed the bridge's pre-tensioned PCC beams and multi postsupport columns. Phase 2 involved 19 SFA piles on the low level and 24 SFA on the upper level of both embankments. During a 9-day blockade, a 500t crane situated on the closed off highway lifted over 40 Pre-Cast and Pre-Stressed concrete sections. In-situ concrete pours also took place to stitch the structure together to form the new bridge. The reconstruction is part of the Railway Upgrade Plan bringing the bridge up to modern standards and will make the railway crossing safer, more reliable and requiring less maintenance in future.



Project: Area 10 - M53 Moreton North Bridge

Client: Highways England

Contractor: Concrete Repairs Ltd (CRL)

Value: £2.17m

CRL have recently completed a project in the Area 10 Highways England region as principal contractor for the Moreton M53 North scheme - a bridge deck replacement project. The recent works on the scheme have comprised of the removal and demolition of the existing central span of Moreton North Bridge located on the M53 Junction 2 motorway. The previous structure was constructed in the 1970s with the central span comprising of nine concrete hollow box sections and a 200mm concrete deck and 100mm surfacing.

Project: Area 10 - M53 Moreton North Bridge

Client: Highways England

Contractor: Aggregate Industries

Value: £80k

Highways England Engineers approached Aggregate Industries to supply and support them during difficult circumstances and deliver three key schemes. Aggregate Industries had implemented strict, contact-free, social distance control measures that enabled them to continue working. Its Area 10 team responded promptly, providing a fast-track programme/pricing process that preserved HE's commitment to deliver a safe, efficient service that maintained connectivity and mitigated severe delays. The works were delivered in two shifts, (half the time originally planned), comprising hard shoulder planing/resurfacing; ensuring the road opened to traffic before Easter.



Project: Radcliffe & Redvales Flood Defences Phase 2 Client: Environment Agency Contractor: BAM Nuttall and Mott MacDonald (BMMJV) Value: £20m

This is a BMMJV Design & Build contract to construct over 2km of new flood defences on the River Irwell protecting 870 Homes in the Radcliffe & Redvales area of Bury. Works include 1km of sheet piled wall defences installed with leader-rig vibratory and Giken Supercrush silent methods. The remainder of the defences are mixed designs of in-situ and pre-cast gravity walls or interlocking pre-cast block walls. A new floodplain area has been created by placing a bentonite clay liner against an existing rail embankment. Works on Harveys Gate Bridge which crosses the Irwell at the downstream end of the defences on each side. While keeping the bridge open the upstream parapet will be raised to meet the surrounding defences.





Project: A57 Hyde Road Pinchpoint Removal Client Manchester City Council Contractor: Eric Wright Civil Engineering Ltd (EWCE) Value: £3m A long awaited project to remove a notorious traffic pinchpoint and

accident spot by removing a Victorian bridge carrying the Fallowfield Loop Cycleway and retaining wall, and replacing it with new structures, dualling the carriageway whilst keeping the A57 open. COVID-19 modified working arrangements; EWCE demonstrated to the client that they could work safely. EWCE's tender had scored best on social-value provision, and despite the pandemic, EWCE provided an Engineering apprenticeship, work placement, recruited local labour and Community Liaison Officer. A £10,000 donation was made to charity Read-Manchester.



Project: Joiners Square Roundabout

Client: City of Stoke-on-Trent

Contractor: Galliford Try

Value: £2.5m

The roundabout at Joiners Square was redesigned in order to increase capacity through the junction. The works include earthworks, drainage, ducting, kerbing, construction of new footway and carriageway, alteration to existing footway and carriageway, ironworks, controlled pedestrian crossing installation, roadmarkings and architectural landscaping to the roundabout itself. The scheme involved extensive liaison with Statutory Undertakers to ensure all service diversions were co-ordinated in a phased approach. In addition, public and business liaison was paramount to mitigate disruption to both the surrounding businesses and travelling public.

CECA North West's services include:

- Expert legal, training & development, HR and taxation advice as well as access to transport, rail and health & safety specialists
- Assistance with tenders and procurement, and support with social value requirements and quality submissions
- Commercial and contractual support and mentoring
- Support with schools and colleges liaison, links with universities, work experience, and free advertising for vacancies
- Research into workload visibility
- Seminars and training

To find out how CECA NW can help you, please contact:

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- Schools & Colleges, Recruitment & Foundations Group: JACQUELINE VAIL: jacquelinevail@ceca.co.uk
- Transport initiatives and pipeline research: CHRIS JACKSON: chrisjackson@ceca.co.uk
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- Bid support, market intelligence, public affairs: GUY LAWSON: guy.lawson@cecanw.co.uk



REGIONS & DEVOLVED NATIONS

CECA members are supported by a network of six regional offices across England, a national office in Westminster, and offices in the devolved nations of Scotland and Wales.

CECA's regions and devolved nations are:

- CECA Scotland
- CECA North West
- CECA North East
- CECA Yorkshire & The Humber
- CECA Wales
- CECA Midlands
- CECA Southern
- CECA South West





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Cover: The photograph, courtesy of Eric Wright Civil Engineering, shows the UK's first stainless steel bridge, at Pooley Bridge, Cumbria.