

APOLLO ACCESS PLATFORMS

STANDARD AND BESPOKE ACCESS PLATFORM SOLUTIONS



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Acton Grange Viaduct

The Acton Grange Viaduct built in 1893 passes over the Manchester Ship Canal.

Apollo Cradles were approached to create a solution for painting and coating the bridge.

Platforms had to be mobile to be moved out of the path of oncoming ships at short notice.

Dimensioned drawings of the bridge were created in AutoCAD to thoroughly evaluate the requirements of the job with bespoke solutions created for the customer.

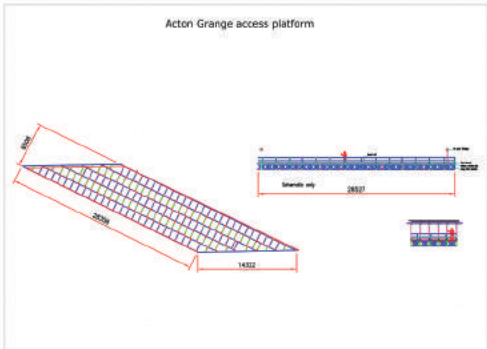
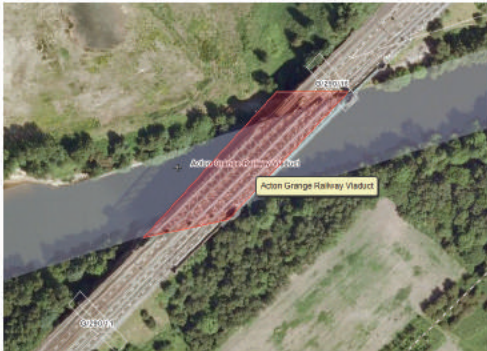
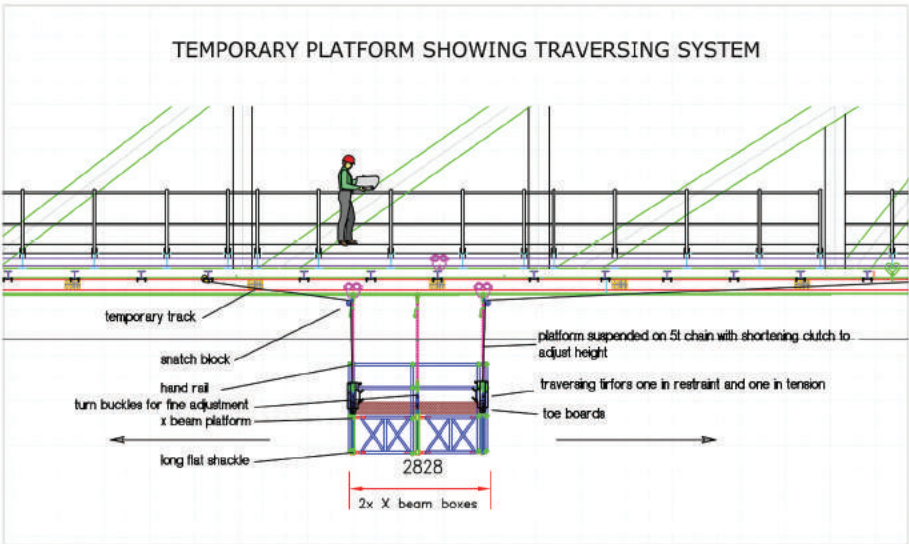
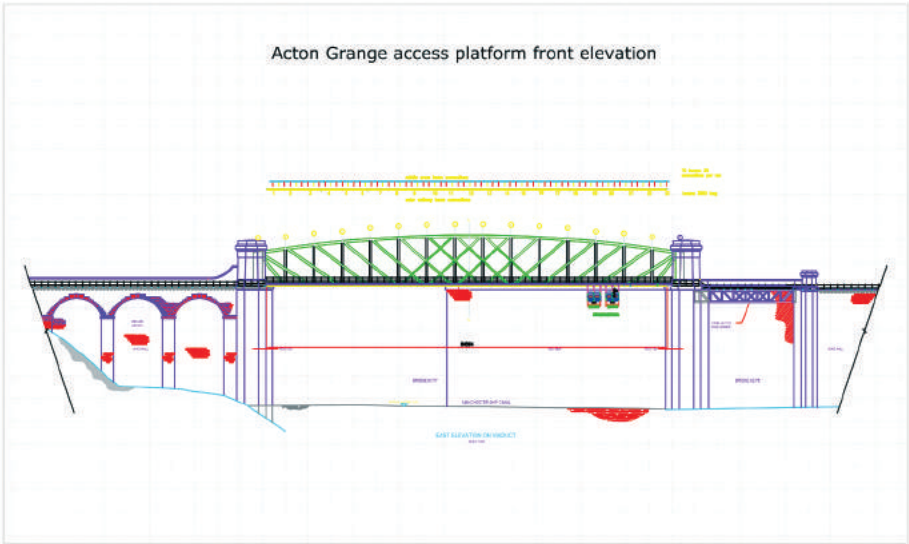
Project Scope:

Installation and hire of Apollo X-Beam platforms used during the painting and coating of the bridge.
(Raising access platform from pontoon to suspended working position on bridge).

Apollo Scope:

Cradles used to install runway beams to allow Apollo X-Beam platforms to be mobile to maintain canal traffic flow.

Design & Development



Installation & Use



Avonmouth Bridge

The Avonmouth Bridge is a road bridge which carries the M5 motorway over the river Avon into Somerset.

With the bridge approaching its 40th anniversary since it first opened, the bearings had to either be replaced or repaired.

On two areas under the bridge there was a risk of flooding so access wasn't able to come from ground level.

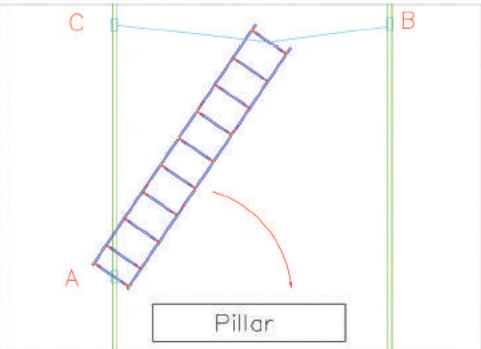
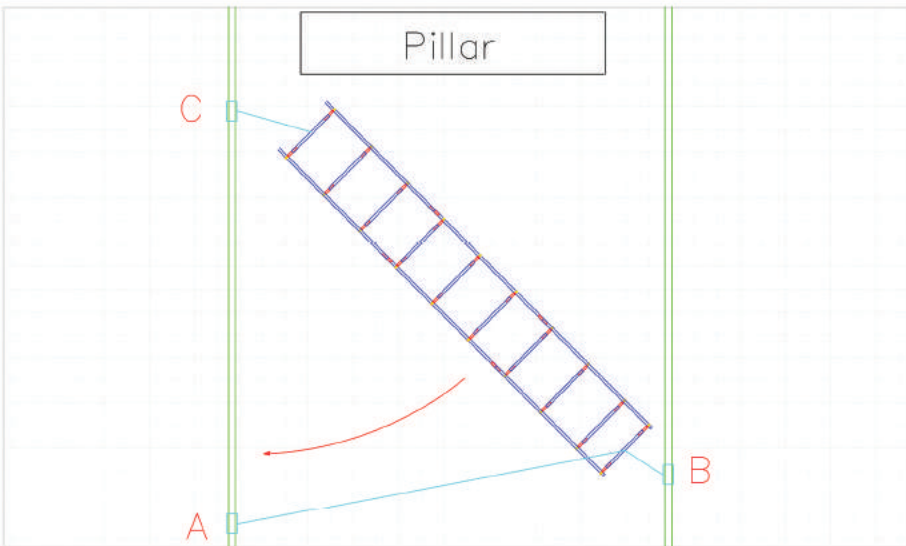
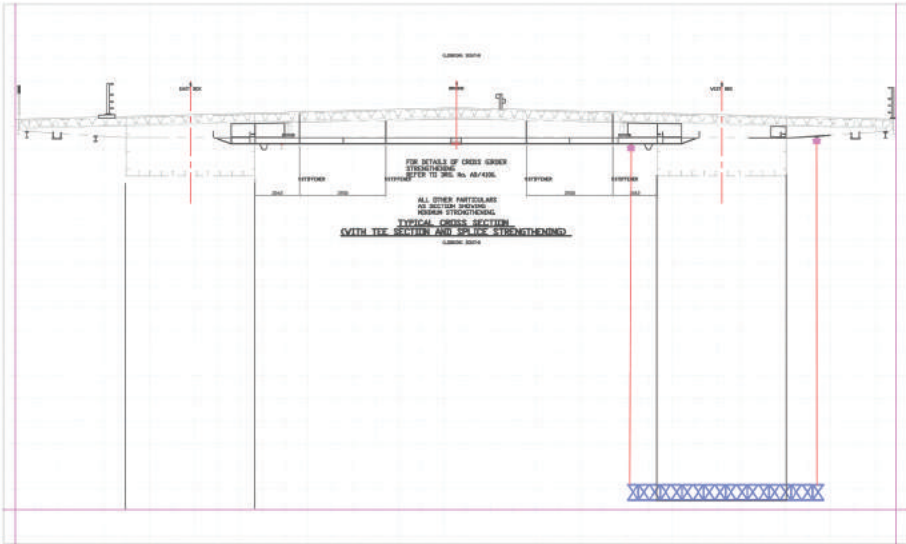
We designed and installed Apollo X-Beam platforms that were suspended from under the bridge so they didn't have to rely on the variable ground conditions.

Project Scope:
Repairs, maintenance, refurbishment and replacement of bearings in pillars.

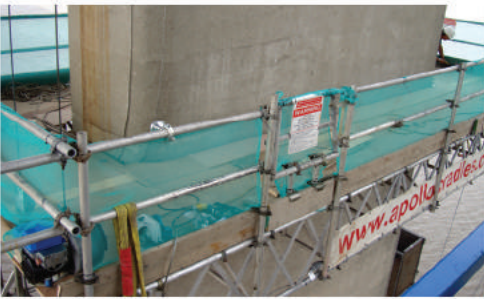
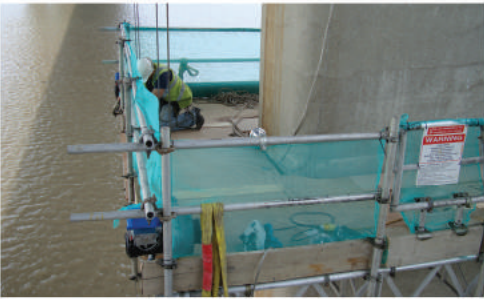
Apollo Scope:
Erection of lightweight aluminium Apollo X-Beam platform to access bearings.

Additional Points:
Apollo X-Beam system is suspended from the bridge structure.
Platform can be raised and lowered as required by users.

Design & Development



Installation & Use



Belvedere Chimney

We were approached to design and manufacture a double deck circular platform to clad the Belvedere Riverside Resource Recovery Centre chimney and its aerofoil.

The aerofoil was clad with two separate but matching platforms which travelled upwards fixing the sheeting rails, before travelling back down to fix the cladding materials which were delivered to the platforms by hoist.

Project Scope:

Cradles and platforms used for fitting, cladding and sheeting of chimney.

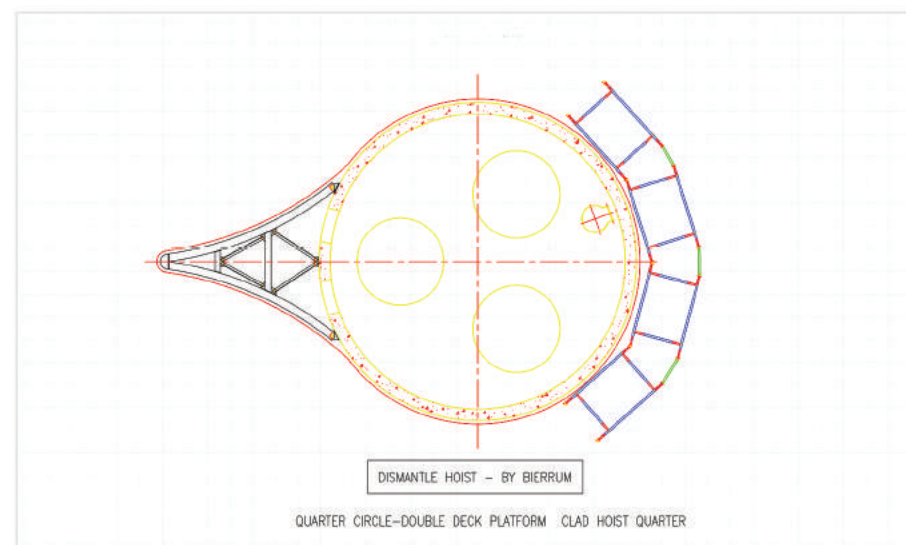
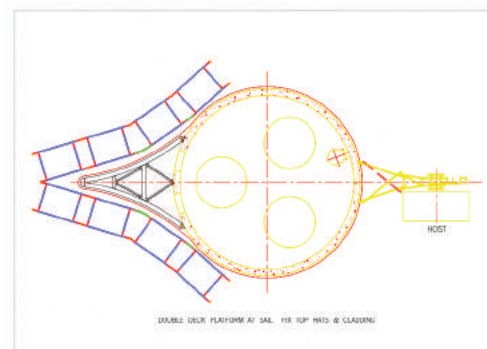
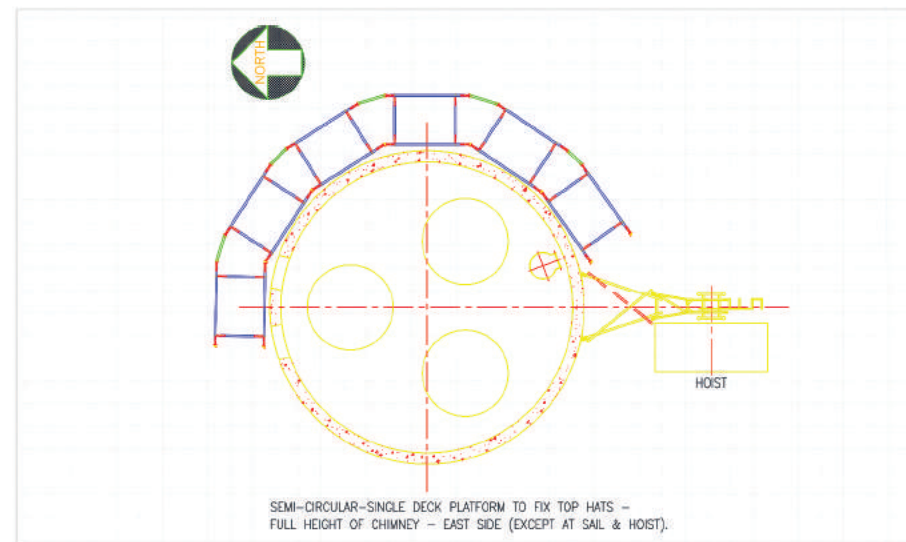
Apollo Scope:

Manufacture, installation, hire and supply of circular platform and suspended double decker cradles.

Additional Points:

Double decker cradles providing two working platforms at the heights required.

Design & Development



Installation & Use



Erskine Bridge

Erskine Bridge is a cable-stayed box girder bridge spanning the River Clyde in west central Scotland, connecting West Dunbartonshire with Renfrewshire.

We designed a platform for this project that could be mobile without using the existing runway beams which were being replaced.

Our method used a leading platform which removed the existing beams while another followed behind with the purpose of fixing new ones.

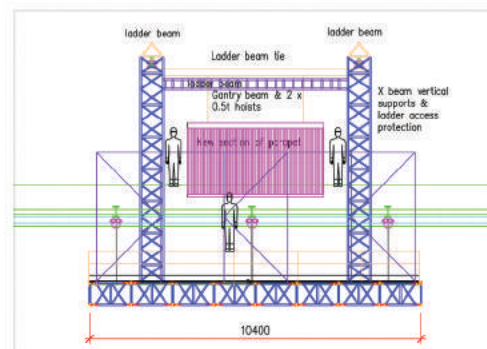
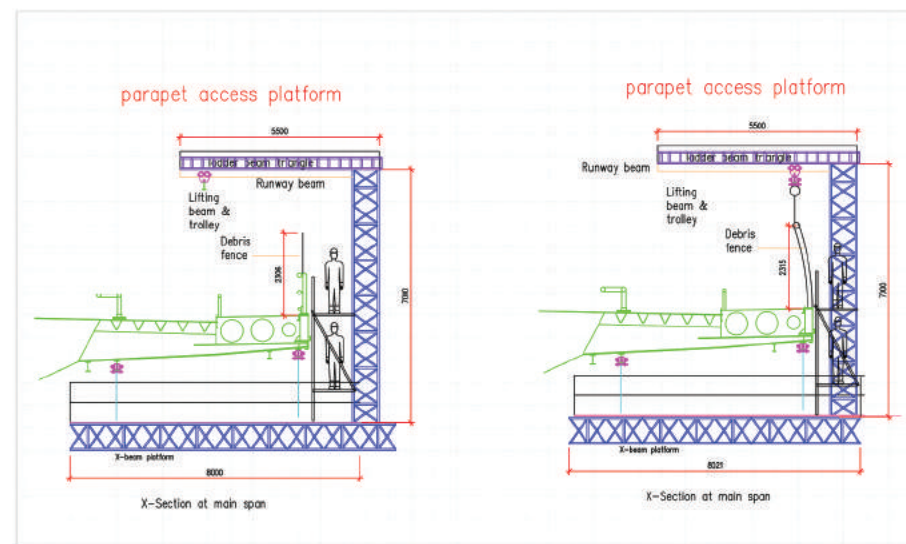
Project Scope:

Runway beam replacement and painting.

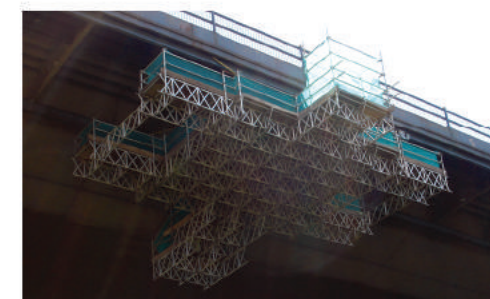
Apollo Scope:

Installation and hire of lightweight aluminium mobile access system that can be moved by the user.

Design & Development



Installation & Use



Euston Park Endurance

The Al Maktoum family (one of the seven ruling families of the United Arab Emirates) organised the FEI World Endurance Championships, a 100 mile horse race through Euston Park and the Suffolk countryside which required the erection of a start/finish gantry.

Apollo were approached and we used our 1500mm X-Beam system to form the 30 metre wide gantry which was then clad with advertising boards, flags and a digital timing clock.

We were invited to the event but had to decline due to existing work commitments.

Project Scope:

Installation of 30 metre wide start/finish gantry for FEI World Endurance Championships.

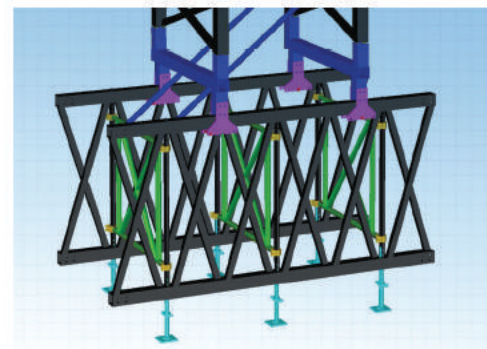
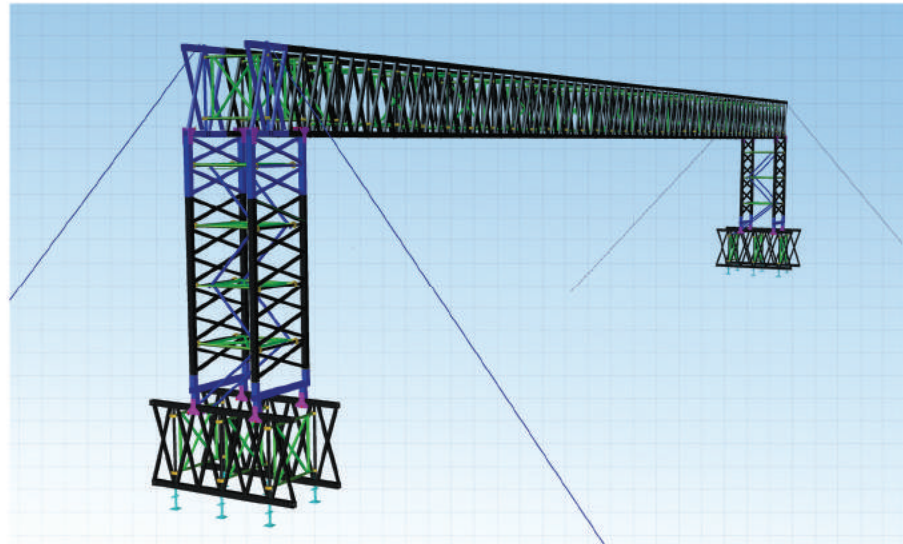
Apollo Scope:

Gantry formed using Apollo 1500mm X-Beams before being delivered and erected in required location.

Additional Points:

X-Beams fully covered with advertising boards and flags for the event.

Design & Development



Installation & Use



Forth Road Bridge

Platforms of three different sizes were installed for separate areas of the bridge which were suspended from the runway beams being replaced. Stoppers were fitted near our trolleys to fix the platforms in position while the intermediate beams were removed.

New beams were then introduced and tested before the platform was moved to the following position with the process then repeated.

A feeder platform collected new steel from the stockyard and delivered the old steel back to the stockyard.

This platform was fitted with on-board generators and winches which enabled it to be lifted from the ground with its load and travel along the length of the bridge to deliver its load to the work area.

Project Scope:

Replacement of bridge runway beams.

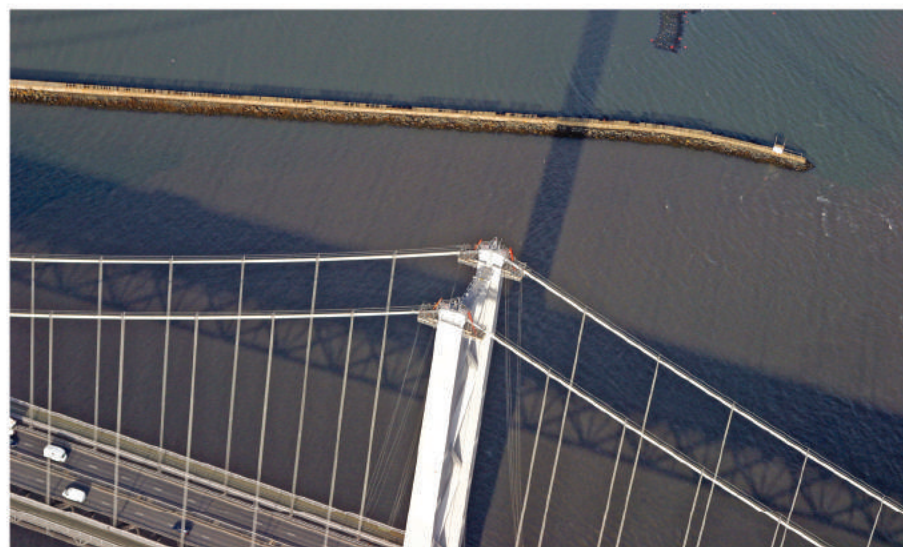
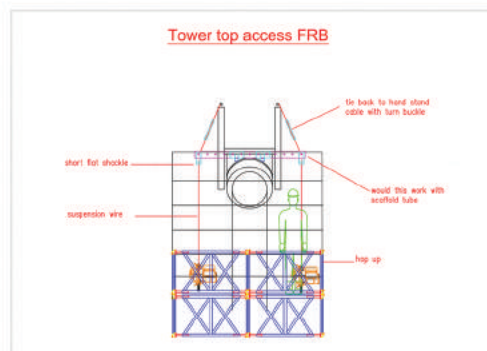
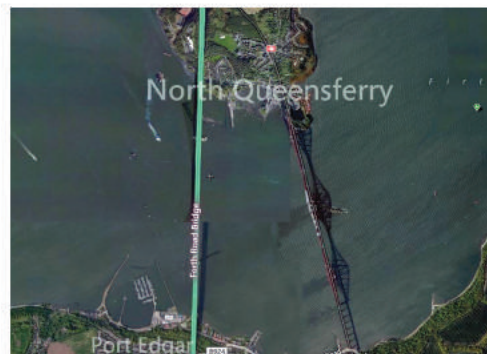
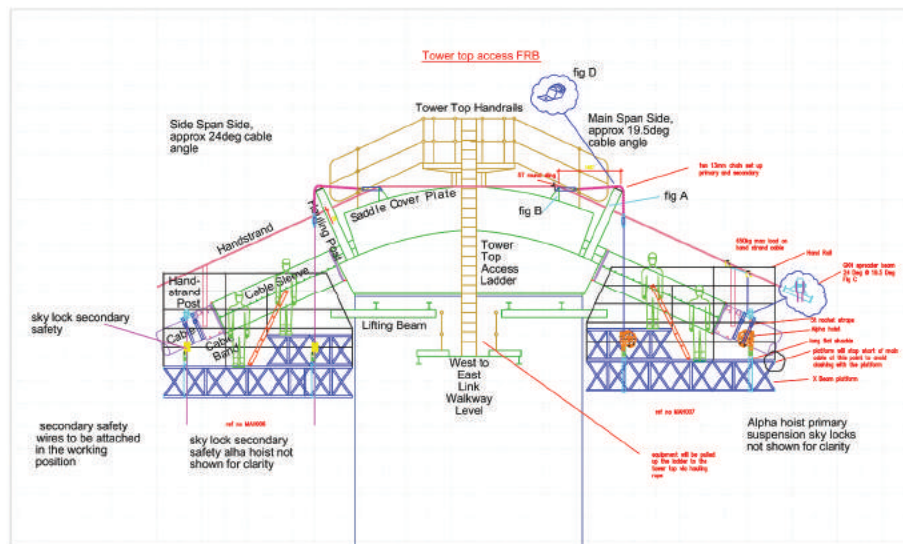
Apollo Scope:

Platforms of different sizes required for different areas of bridge.

Additional Points:

Feeder platform with on-board generators and winches required to deliver and take away steel.

Design & Development



Installation & Use



Hammersmith Bridge

The Grade II listed Hammersmith Suspension Bridge which crosses the River Thames in West London has had frequent tests done by Apollo on its permanent runway beam.

The bridge has long suffered structural problems and has been closed for lengthy periods on several occasions due to the weight and volume of road traffic now common in inner London, which the bridge was not originally designed to support.

After conducting tests we identified a problem with the runway beam after it was hit by a boat. This was corrected by replacing part of the beam and changing all the bolts.

Project Scope:

Repair of accident damage to Hammersmith Bridge, West London.

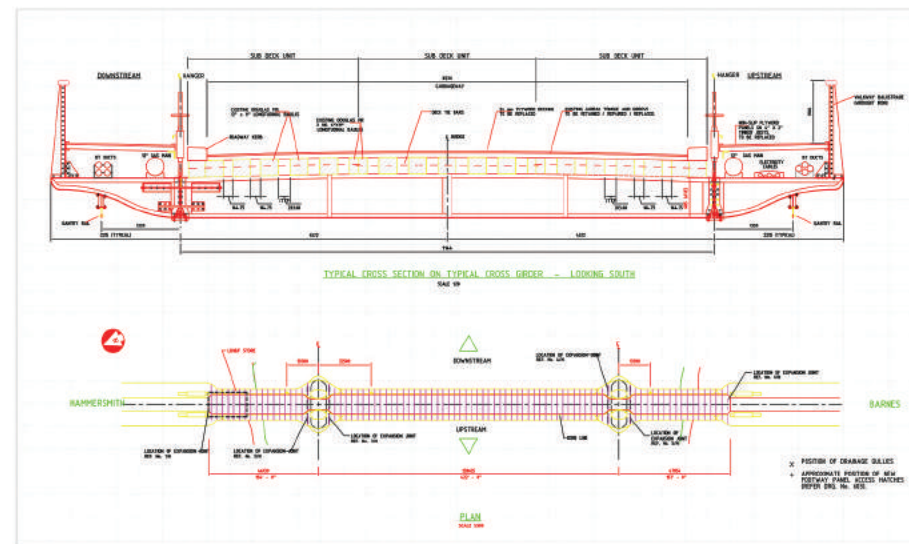
Apollo Scope:

Hire, delivery and installation of track and 12 metre cradle underneath bridge on push trolleys for mobility and maximum coverage beneath the bridge.

Additional Points:

Working over water (River Thames).
Cradle position movement required.

Design & Development



Installation & Use



Heysham Power Station

The drum screens at Heysham Power Station required repairs to the concrete beams which weighed approximately 13,000kg each, with an additional problem that they required supporting to prevent them from collapse during the repair.

Apollo designed and manufactured a solution using 1500mm X-Beams installed to support the weight of the concrete beams and also suspend the working cradles.

Due to the tight confines of the project, the component parts were pre-assembled before being craned into position. A total of eight cradles were installed and handed over in just three days. As a result the client was delighted with our solution to the problem and the performance of our expert team.

Project Scope:

Repairs to drum screen concrete beams.

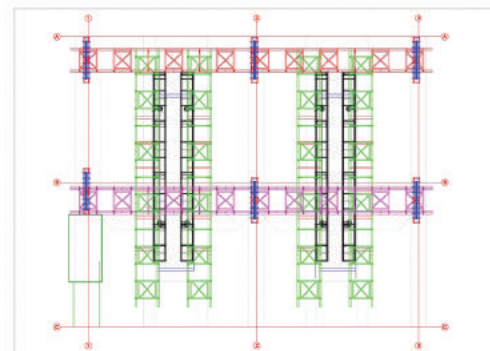
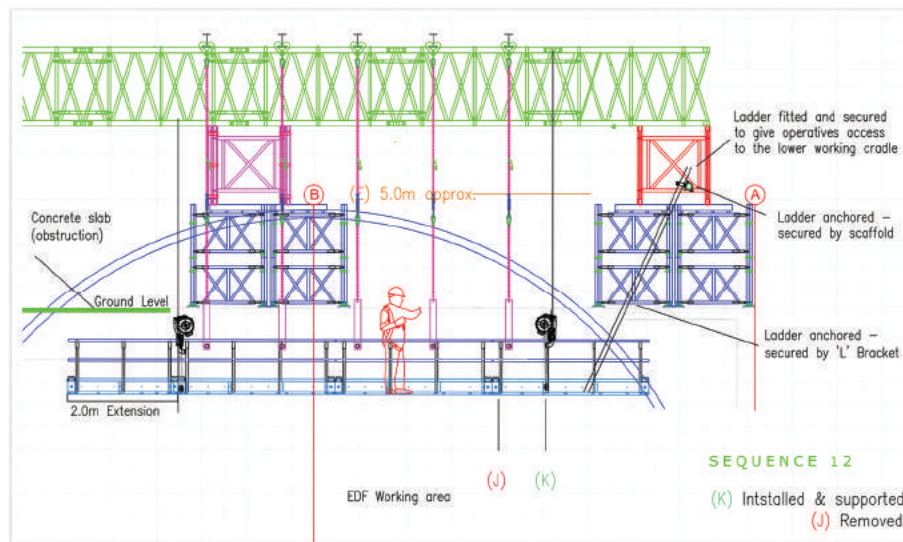
Apollo Scope:

1500mm Apollo X-Beams installed to support the weight of the concrete beams and suspend the cradles. Eight cradles installed.

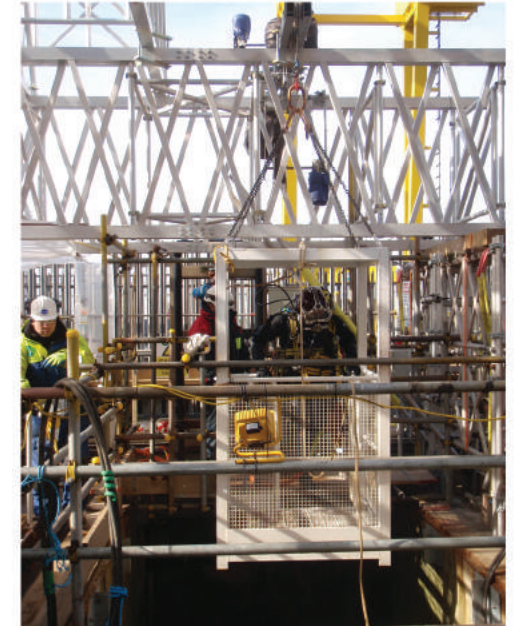
Additional Points:

Concrete beams approximately 13,000kg each.

Design & Development



Installation & Use



Hunterston Jetty (Phase 1)

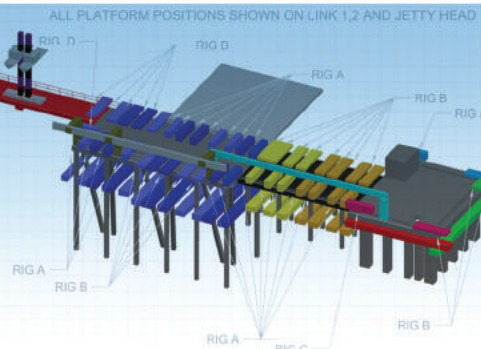
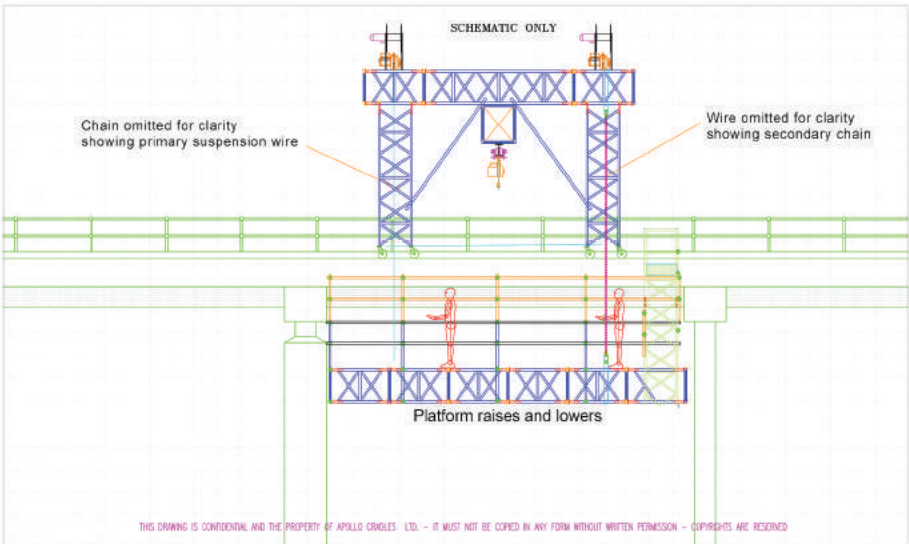
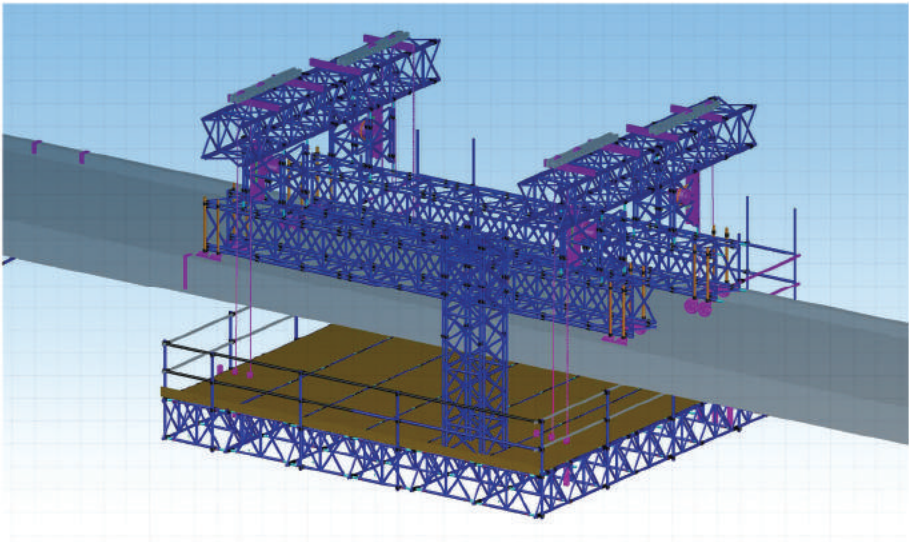
The intake jetty at Hunterston Nuclear Power Station in North Ayrshire, Scotland was in need of concrete repairs to the soffit.

Previous attempts to repair the soffit using conventional scaffolding had been unsuccessful as stormy weather had demolished the scaffolding.

Apollo were then approached to create a workable solution. We were asked to provide a number of 9x7.8 metre platforms that could be lowered into a working position and then raised during rough seas, combined with the ability for quick removal should a storm be forecast.

- Project Scope:**
Refurbishment and concrete repairs to jetty soffit.
Provide access and containment to underside of jetty for blasters.
- Apollo Scope:**
Creation of bespoke platforms to be raised, lowered and removed as required.
- Additional Points:**
Platforms built up on land in safe working area then craned onto pontoon.

Design & Development



Installation & Use



Hunterston Jetty (Phase 2)

Phase 2 of the Hunterston Nuclear Power Station project involved the repair of the jetty legs.

The programme was very tight as we were working to avoid the bad weather season.

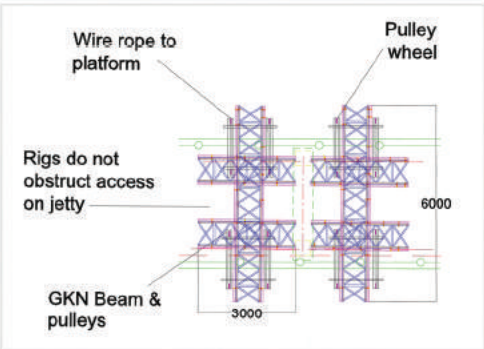
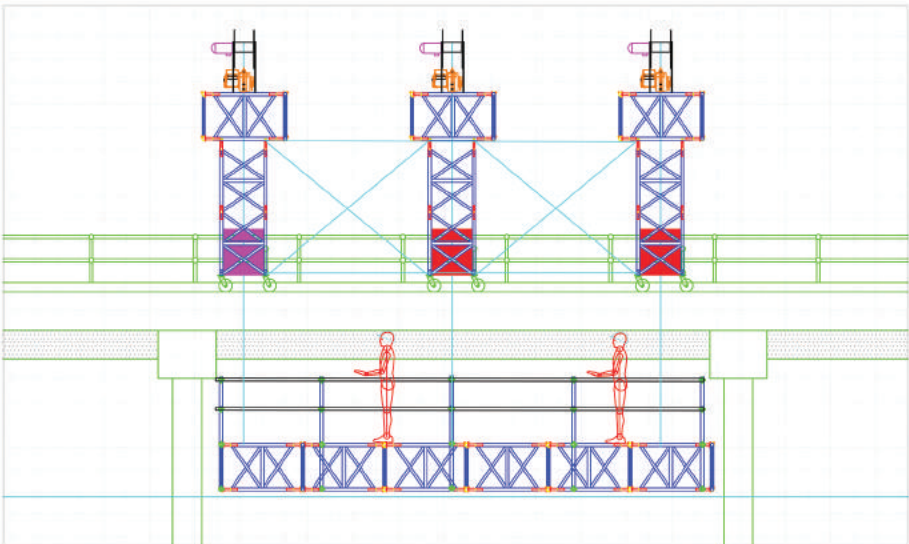
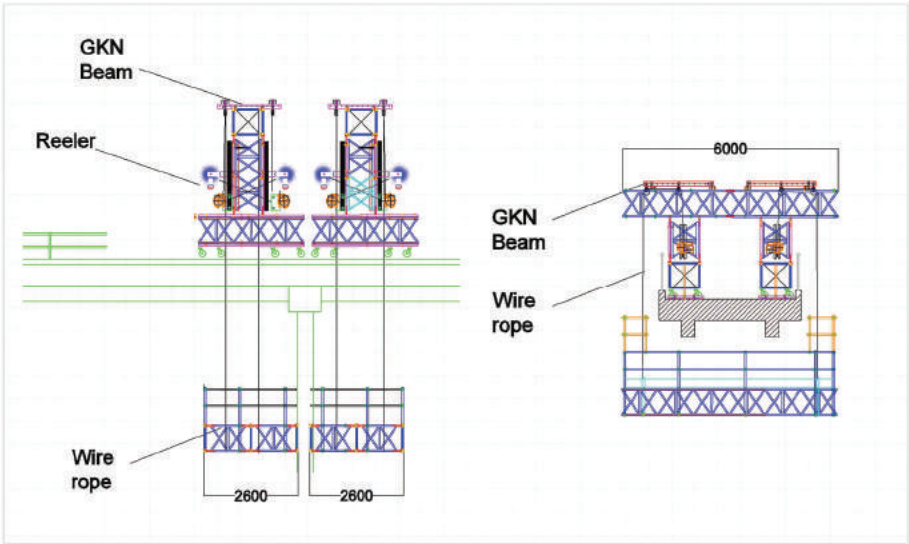
Apollo supplied 24 platforms that could all raise and lower at the press of a button and could also be removed in two days if required. In addition, some platforms had to be adapted at short notice as further repairs were required on the soffits.

All went to programme and another successful job pleased our client.

Project Scope:
Repair of jetty legs, provide access and containment to underside of jetty for repair.

Apollo Scope:
24 automated platforms supplied. These platforms raised and lowered at the touch of a button and could be removed in two days if bad weather was forecast.

Design & Development



Installation & Use



Nene Thorpe Bridge

Nene Thorpe bridge in Peterborough required concrete repairs.

The canal which flows under the bridge has leisure boats travelling back and forth along it, so the platform needed the ability to move out of the way at short notice.

Apollo designed bracketry which would enable the fitment of a runway beam to the bridge to allow the platform to move more easily.

The resulting platform of 26x2.6 metres was fitted with wings on each end to help distribute the loadings on the track.

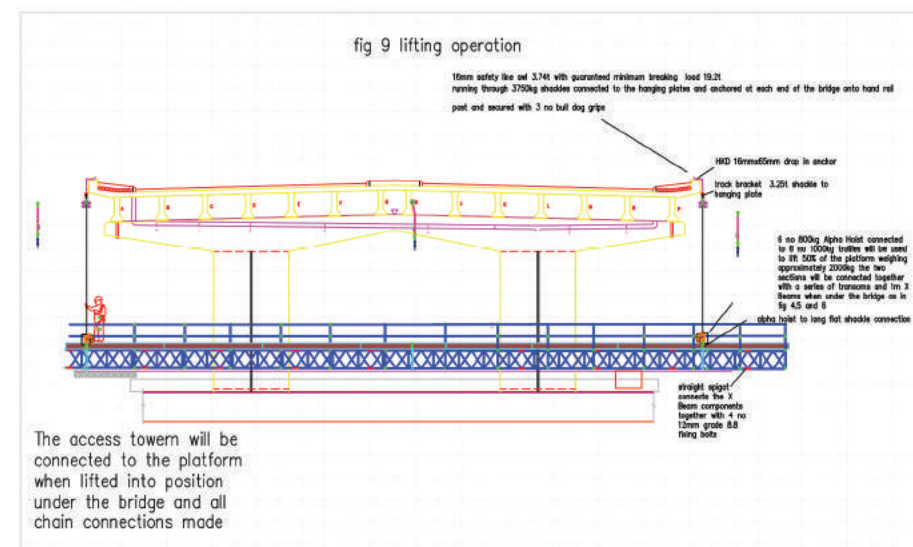
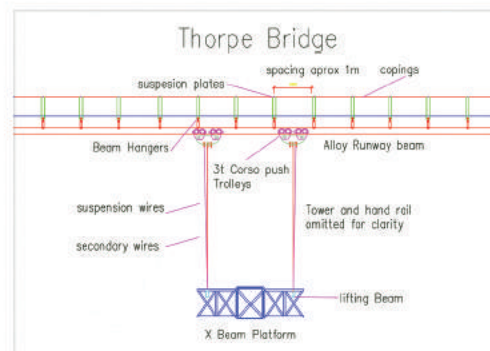
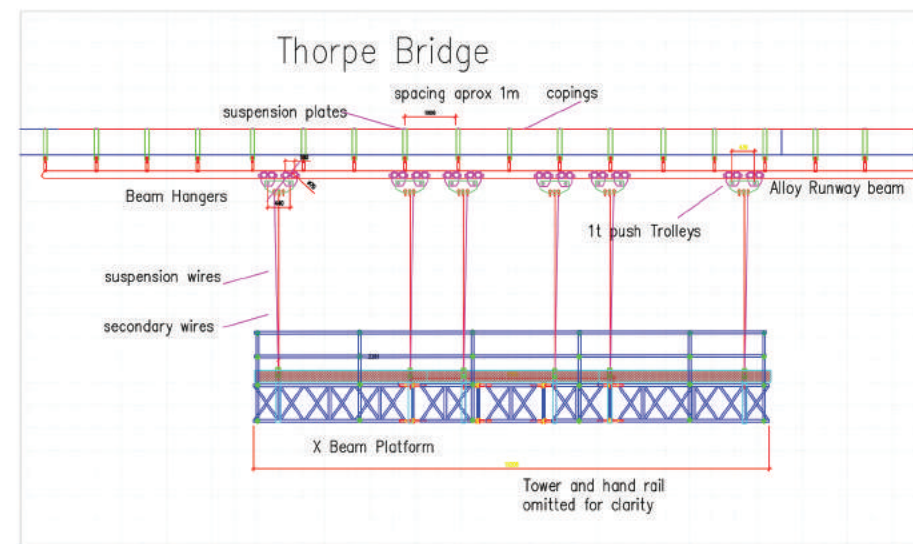
Project Scope:

Access required to perform concrete repairs to bridge.

Apollo Scope:

Hire and installation of Apollo X-Beam platform on trolleys to allow platform to be re-positioned by the user.

Design & Development



Installation & Use



PD Ports

The PD Ports facility in Teeside has a 512 metre long quayside where container ships load and unload. The concrete beams under the quayside were in desperate need of repair.

Apollo's scope was to provide access to four work packages at one time and reposition to the remaining six when the works were complete.

Due to tides, the access would be underwater twice each day, so we had to think out of the box for a solution.

We chose a method using wire ropes called a catenary wire system with stagings which allowed water to pass through.

Both our client and PD Ports were highly delighted with the solution we provided and the increased productivity it offered to the job.

Project Scope:

Repair to concrete beams under quayside.

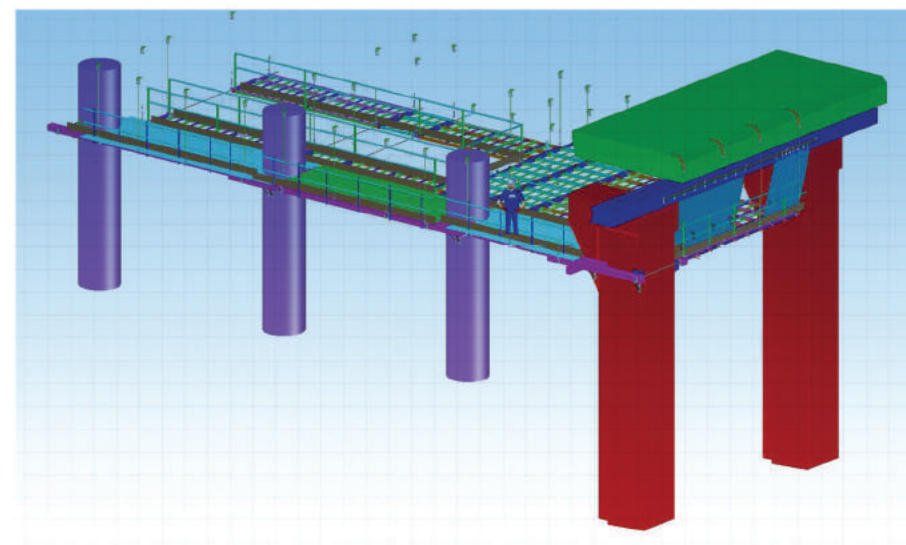
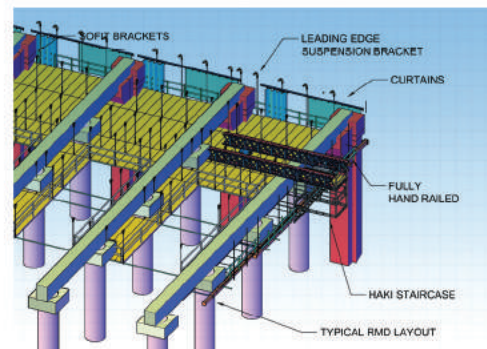
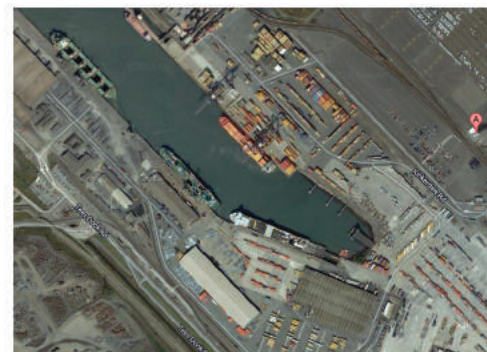
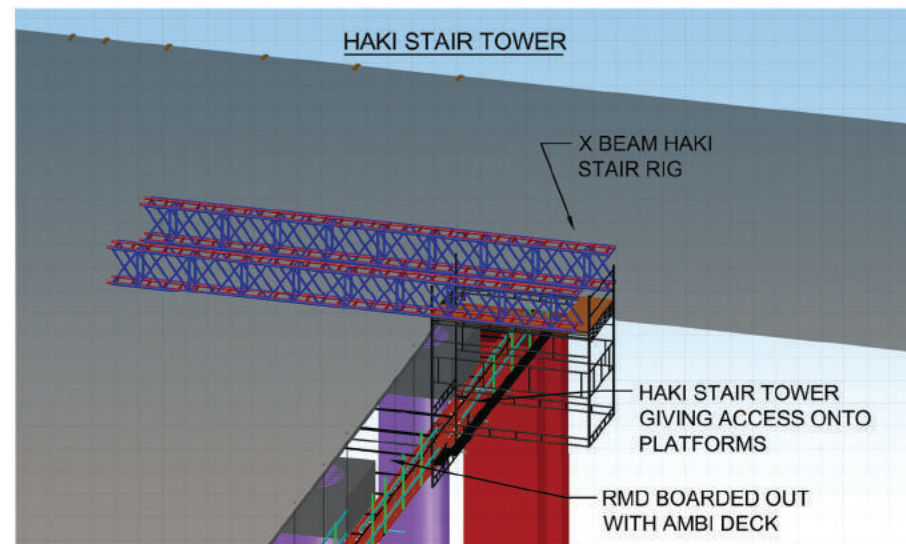
Apollo Scope:

Access to four work packages required at one time.

Additional Points:

Access underwater twice each day, meant incorporating a catenary wire system.

Design & Development



Installation & Use



Runcorn Rail Bridge

Runcorn Rail Bridge crosses both the river Mersey and the Manchester ship canal.

Some of the ships which pass under it nearly touch the bridge, so with this in mind, Apollo's scope was to provide a mobile platform which would enable safe access to blast and paint the underside of the bridge with the ability to be moved out of the way at an hour's notice.

We manufactured the hanging brackets and fixed a runway beam to enable the 14x6.5 metre platform to be moved out of the way within the one hour notice period.

Project Scope:

Cradles used for installing track-way and fixing suspension points, X-Beam platform installed underneath bridge to traverse so maintenance works can be carried out.

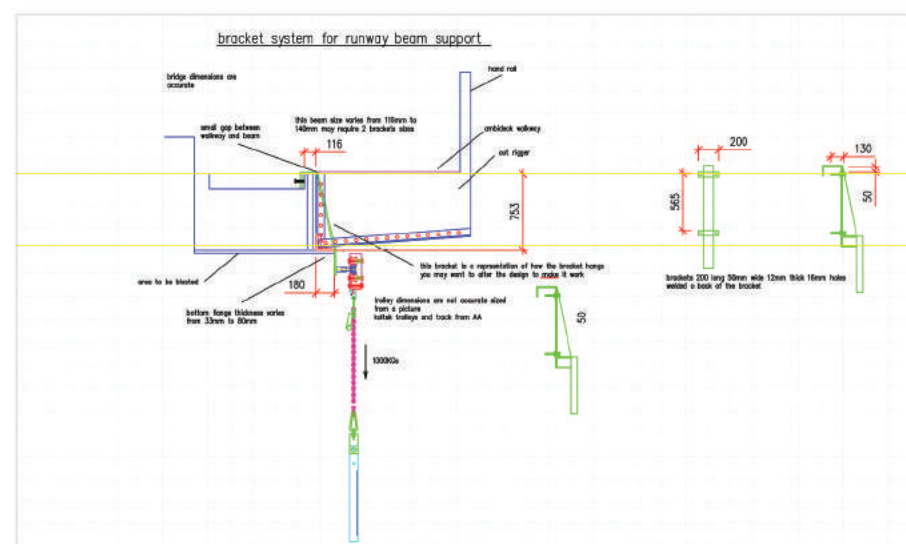
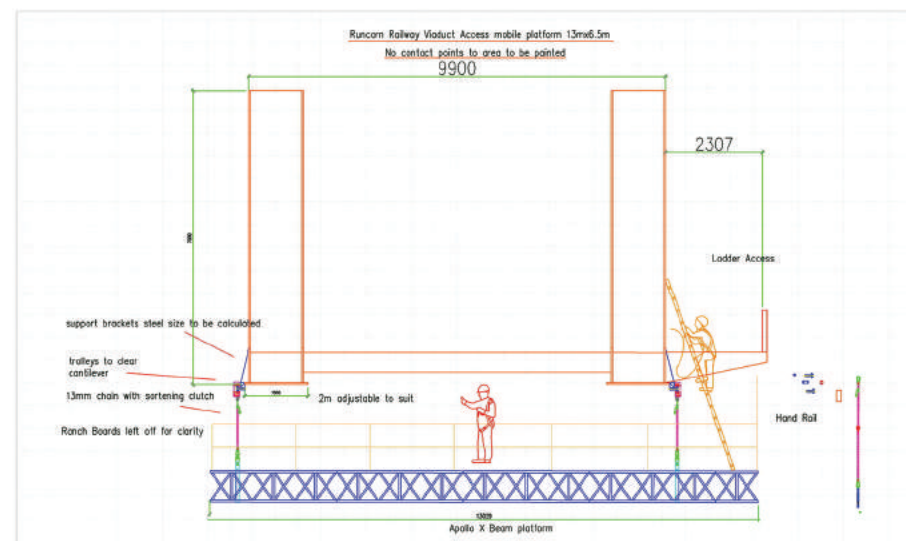
Apollo Scope:

Mobile suspended access beneath bridge for blast and painting maintenance.

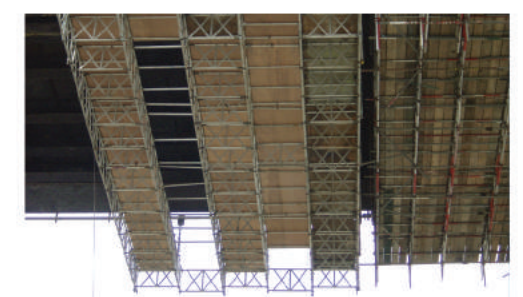
Additional Points:

Suspended on beams to provide platform mobility and painting maintenance.

Design & Development



Installation & Use



Standedge Tunnel Shafts

The construction shafts at Standedge canal and railway tunnels which penetrate the Pennines between Diggle in Greater Manchester and Marsden in West Yorkshire required re-lining and pressure pointing, due to brickwork deterioration through water ingress, since their construction in the 1800s.

Apollo designed and built bespoke circular platforms to suit the shaft diameters which were fitted with electric winches.

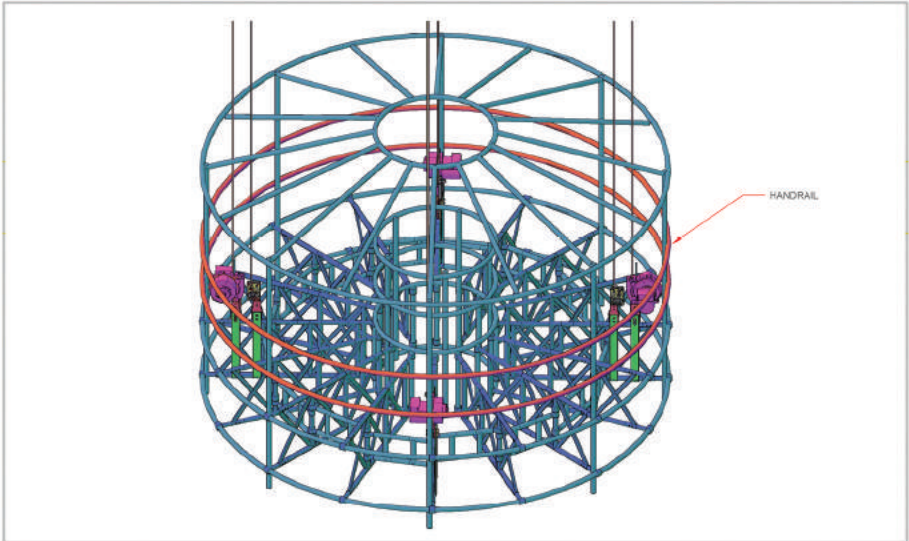
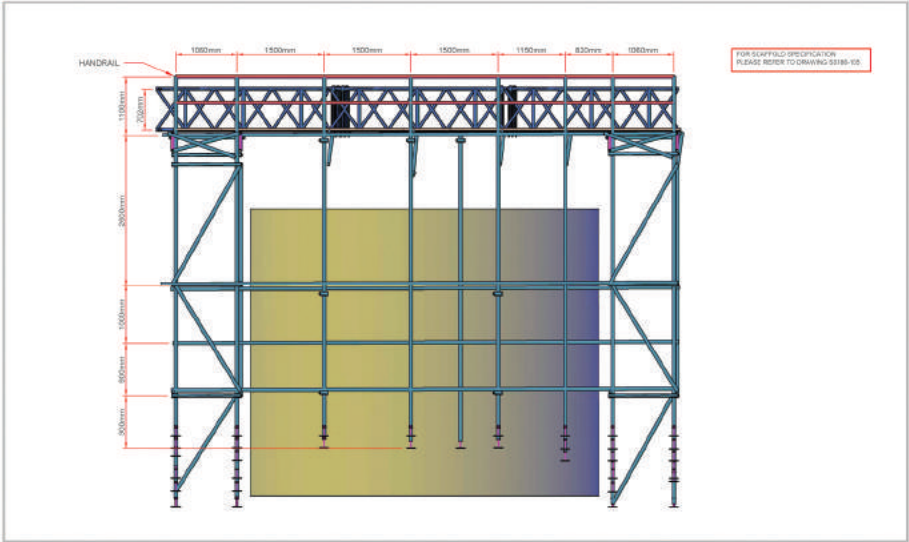
This enabled the platforms to travel up and down the 500ft deep shafts, giving the workforce full access to the shaft linings.

Project Scope:
To provide access for brickwork repair of 500ft deep shafts.

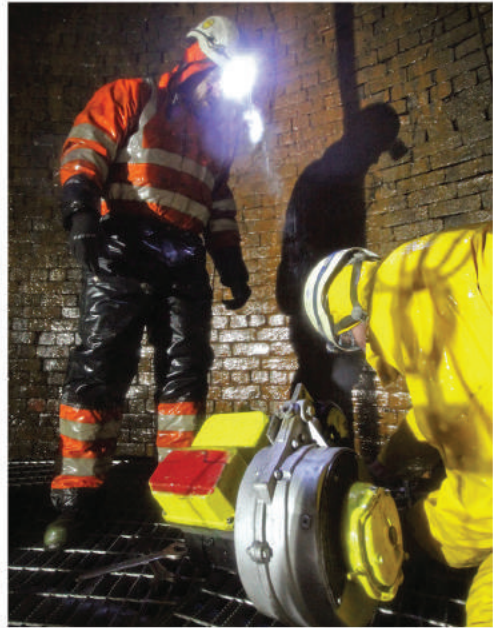
Apollo Scope:
Creation of bespoke circular platforms which could be raised and lowered as required at the touch of a button.

Additional Points:
Apollo X-beams mounted across the top of the shafts to attach the platform wires.
Wires threaded through cores in the shaft caps and dropped down to the platform.

Design & Development



Installation & Use



Introducing the FallArrescue

FallArrescue Fall Arrest and Rescue

The “FallArrescue” is a system developed exclusively for Apollo Cradles Ltd by Getmie Safe Ltd, specialists in rescue from height.

Should the user experience a fall, the device will automatically arrest the fall by locking onto the safety rope.

The second element “rescue” is fully automatic and requires no intervention from additional persons or independent rescue teams.

Watch the FallArrescue in action: www.apollocradles.com



Bespoke Systems Available

Working from the standard Sky Stage modular platform, Apollo can design and manufacture systems to suit most requirements:

- ❑ Multi-Deck Cradles
- ❑ Telescopic Platforms
- ❑ Circular Platforms
- ❑ Mobile Dance Floors

Simply contact us for a survey of the project and we will provide a fully costed plan for the solution...

