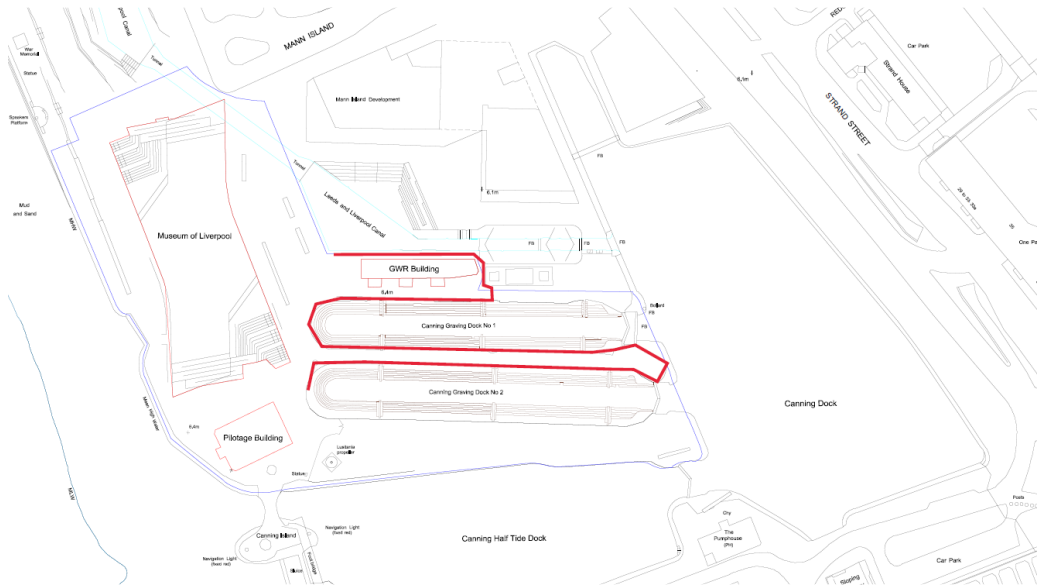


APPENDIX C

General Scope of Works

The package of works within this tender are all located within the Canning Dock area of NMLs estate as shown below (Drawing also attached in Appendix D):



The Contractor is deemed to have read all documentation in relation to the proposed scope of works, visited site where possible and taken into account all site conditions. The Contractor will be responsible for the installation throughout but will allow the Client or their appointed representative full access throughout to comment on installation and standard of workmanship.

The tendering Contractor shall include an element of flexibility in their tender process to allow for changes in equipment specification or availability.

All materials and workmanship used in the installation shall be of the best of respective skills and must in every case conform to the appropriate British Standards Specifications and any appropriate Standards and Codes of Practice.

Materials and Workmanship shall be to the full satisfaction of the Client or their appointed representatives. Once the specification has been approved no other materials shall be used without prior approval by the Client or their appointed Representative.

Builders Work in Connection

The Contractor shall allow in their tender for all builders works required and any making good.

Site Records and as Fitted Drawings

Where applicable the Contractor shall keep a set of contract drawings on site and mark them up to record the installations as actually fitted. These record drawings shall be available for the Client and

their appointed representatives at all times. On completion of the installation the Contractor shall use the record drawings to produce an accurate set of “As Fitted” drawings for inclusion in the Health and Safety File.

Operating and Maintenance Instructions

Where applicable the Contractor shall issue to the Client or their appointed representative a copy of the manuals and instructions for operating and maintaining all installed equipment and materials. These manuals should be submitted in a PDF format and adhere to a recognisable format and structure including, but not exclusive, of the following information:

- A technical description of the systems and materials installed, written to ensure that the Clients staff and contractors fully understand the scope of what has been installed
- A technical description for the mode of operation of any systems installed
- A list of all manufacturers and types of materials used
- A complete set of any manufacturers technical leaflets, catalogues and operating and maintenance instructions
- A copy of all “As Fitted” drawings
- A copy of all test certificates
- Any associated emergency shut down and start up procedures as applicable

Testing and Commissioning

The Contractor shall include for the complete testing and final commissioning of all installations which must be completed to the satisfaction of the Client or their appointed representative.

CDM requirements

The Contractor will be appointed as the Principal Contractor under the CDM Regulations 2015.

Welfare and storage can be arranged within the current NML estate.

Standards and Regulations

The installations should conform with all applicable standards and regulations. Where proposed, any ground fixings additional to the existing would require Listed Building Consent from Liverpool City Council.

Detailed Scope of Works

Detailed below are the individual elements of work that comprise the whole tender package:

Installation of perimeter barriers

The site is currently barriered off using a mixture of Herras, pedestrian and in some areas no fencing.

The Contractor will remove existing fencing and install black powder coated pedestrian barriers with suitable ground fixings to the perimeter of the dock areas to prevent unauthorised access to the dry

docks and Canning Dock. Currently there are pedestrian barriers in situ for approximately three quarters of the length of the current central quayside with ground fixings. The top end of the of central quayside is currently without any barriers to the dock edge and new barriers require installing.

All barriers need to be installed in a manner that prevents unauthorised movement of the barriers and provides suitable structural integrity/rigidity. Barriers are required for approximately 603m of length. Where required gates for access to containers should be included in the fence line.

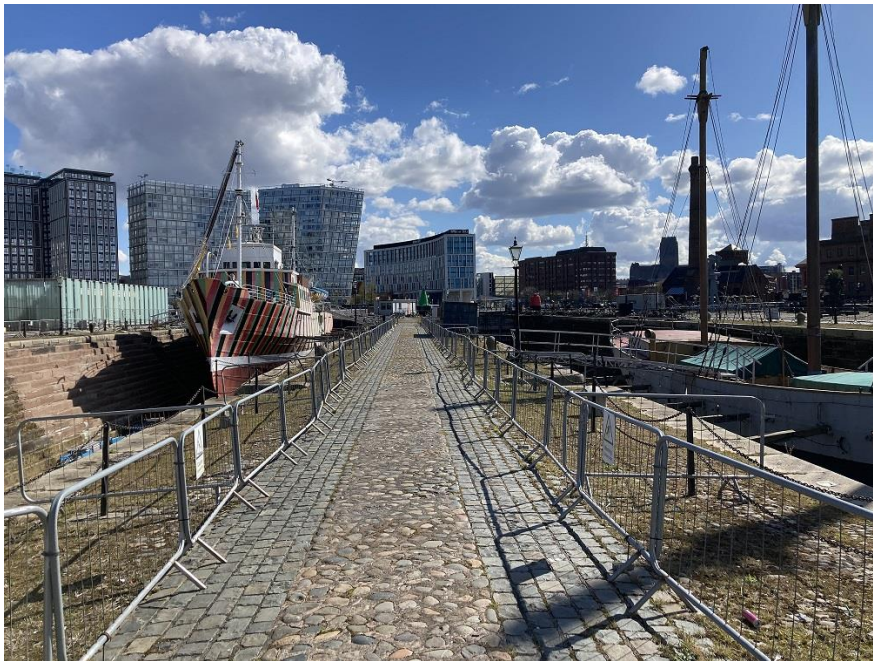


Figure 1 Central Quayside and barriers



Figure 2 Current ground fixings

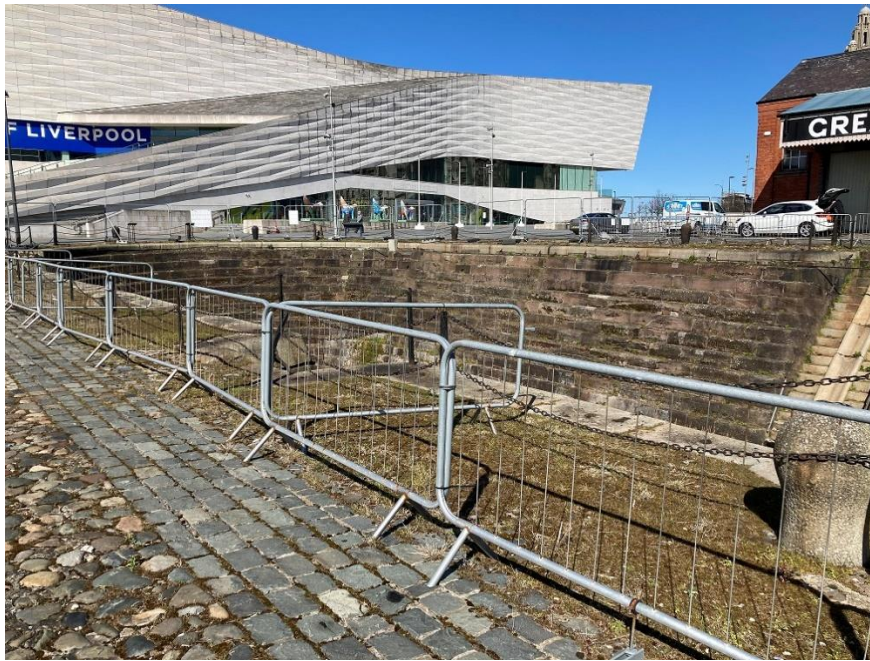


Figure 3 Current bracing



Figure 4 Existing North Quayside



Figure 5 Black barriers installed to South Quayside

Installation access gates/fences

It is intended that the top end of the Central quayside remains for NML staff use only. As such, a suitable gate and fence system is required to be installed to the quayside at approximately the end of the Edmund Gardiner ship. Any such system should minimise the requirements for ground fixings.

The top end of the North Quayside currently sits outside of NML ownership, as such a suitable gate and fence system would be required to prevent unauthorised access to this area.

Currently NML suffers from significant instances of trespass via the area between the Great Western Railway Building and the sub-station. As such it is proposed to install a fixed high level fence to restrict potential access via this area. Fencing is also required to prevent unauthorised access to the rear of the Great Western Railway building.



Figure 6 Top of Central Quayside

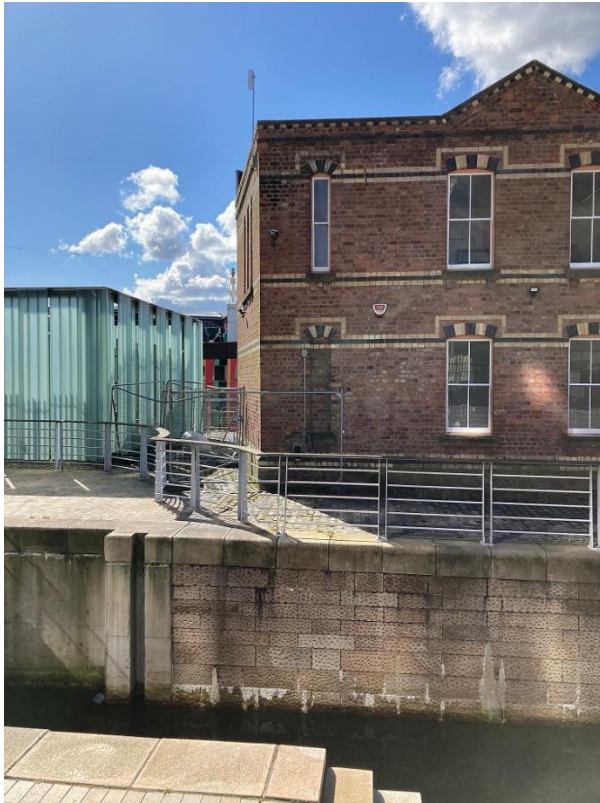


Figure 7 Current fencing to Great Western Railway Building

Installation of lighting to existing lamp columns

Currently there are nine existing heritage lamp standards within the site. It is not known as to the operational status of these lighting columns. As such it is proposed to install new lighting either within the current heritage lighting heads or via new LED lighting units attached to the columns as per the installation previously undertaken to the South Quayside.



Figure 8 Existing heritage lamp standards



Figure 9 LED Lighting installed to South Quayside

Cleaning and making good of floor surfaces

The current floor surfaces are cobbled setts with significant moss growth and unevenness. The contractor is required to clean the surfaces and where required repair broken/missing or significantly uneven setts.



Figure 10 Existing Floor condition

Repair and repaint existing storage containers

There are currently two storage containers located within the quayside site being used by NMLs Shipkeeping function. Both containers are to be prepped and repainted in a suitable paint for a marine environment in a colour of NMLs choice. The larger of the two containers also requires the fabrication and installation of new doors.



Figure 11 Existing Containers

Repair and cladding of existing Portacabin

Located at the top end of the central quayside is a Portacabin unit which is currently utilised for woodworking by the Shipkeeping function. It is proposed that the Portacabin is repaired, where required, and overclad in a timber cladding to reduce its visual impact



Figure 12 Existing Portacabin and potential cladding option

Installation of security cages to tar boiler and electrical location cabinets

There is a heritage tar boiler located on the central quayside. To prevent potential accidents it is proposed to install a cage to the top of the boiler, as per cages previously installed on the South quayside

In addition, there are 3 electrical location cabinets which require cages installing to prevent unauthorised access.



Figure 13 Tar Boiler and example cage

Removal of debris from site

There are various items of redundant equipment and materials that require removal from site in addition to any waste generated through the delivery of these works.