Project Number: 1983
Project Name: Charles Street
Date: 26 June 2026

DeSimone

Water Main Protection Statement

Proposed Residential Development, Charles Street, Manchester (M1 7DE)

Planning Application Number 138808/FO/2023

This statement has been submitted to demonstrate how the planning condition, submitted by United Utilities, pertaining to the protection of the water main on the site boundary has been met.

Within the site boundary at Charles Street, there is an existing United Utilities (UU) water main. The proposed development involves the installation of a new sewer connection which crosses underneath the water main and the construction of a residential high-rise building close to the water main alignment. As such, consideration has been given to how the water main could be affected during both construction phase works and following completion of the development.

Protection During Construction Phase Works

United Utilities have confirmed the position, depth, and alignment of the existing water main before any excavation or intrusive works take place close to the asset. The exact location of the water main has been verified on site through a GPR survey against United Utilities assests records.

Construction work near to the water main will take place in-line with UU guidance and following best practice. Excavation work close to the water main including the crossing point where the new sewer connection passes underneath will be completed by using a controlled method of working. Mechanical excavation will not take place close to the water main and hand-digging will be used where necessary to prevent accidental strikes and over-loading.

At the point where the sewer connection crosses underneath the water main, there will be sufficient headroom and lateral clearance to ensure no load is transferred across or to undermine the water main. Temporary works such as shoring or trench support will be designed so the water main is fully supported at all times. Excavation works, plant, materials or temporary works will not directly load the water main in any way.

Sleeving, bridging or protection slabs will be provided where needed to protect the water main from accidental damage during the construction phase. All relevant site staff will be made aware of the water main and its presence. Exclusion zones will be implemented where necessary.

We have discussed with United Utilities, the proposed development and construction works including excavation works close to the water main and sewer connection crossing underneath. United Utilities have confirmed they have no objections to the construction of the proposed development provided that suitable protection is in place and standard working methods are applied.

Protection Following Completion of Development Works

The layout of the building and associated foundations have been designed to ensure they do not impose restrictions or excess loading on the water main upon completion. Sufficient clearance has been allowed around the water main to allow for future access, inspection, maintenance, repair should it be required in the future.

No permanent structures, pipework or obstructions will be placed directly above the water main without prior agreement from United Utilities. Finished ground levels and surfacing materials have been designed to allow easy access to the water main and will not overload the asset.

The connection sewer crossing underneath the water main has been designed to ensure it does not impose any risk of long term settlement, vibration or movement which could negatively impact the water main following completion.

DeSimone

Conclusion

We have designed and reviewed the proposed development to ensure the United Utilities water main located on the site boundary is protected during construction and upon completion of the development. Suitable mitigation measures will be implemented to prevent damage to the water main and will follow UU guidelines/instructions and best practice standards.

Signed for and on behalf of the Civil Engineer

Name: Ethan Worrall



Chartered Status: IEng MICE

Company: DeSimone Consulting Engineers
Date: 26/06/26