BRWRY, MANCHESTER

CIVIL & STRUCTURAL ENGINEERING

CDM RISK REGISTER FOR RETAINING WALL ADJACENT TO TRAFFIC BAY ON TRINITY WAY

Job no. **2211-11**
Ref: BRW-REN-ZZ-00-SH-S-02200
Rev: C01
Date: 13/05/2026

Reference No.	Event Considered	Risk	Risk Mitigation	Is Significant Risk Passed On?	How is Risk Communicated?	Status	Residual Risk. Suggested Action Required by Others
1	Striking buried services within Trinity Way Pavement	Construction obstruction / injury	Wall has been designed to not overrun the site boundary into the adopted pavement line, therefore minimising the impact on an existing services in the ground.	Y	Hazard note on renaisssance drawing BRW-REN-ZZ-00-SH-S-02200.	OPEN	Main contractor to scan ground prior to retaining wall base excavations commencing to ensure they are clear of existing services.
2	Undermining / overstressing retaining wall during construction.	Structural failure	Wall designed for 10kPa surcharge, suitable for highways loadings. This has been communicated on renaisssance drawing BRW-REN-ZZ-00-SH-S-02200.	Y	Hazard note on renaisssance drawing BRW-REN-ZZ-00-SH-S-02200.	OPEN	Main contractor to manage construction sequence to ensure wall is not surcharged during construction.
3	External services in ground adjacent to building.	Construction obstruction / injury	Size of the wall base minimised to reduce as much as possibe the excavtion required for the concrete base. Similiarly, the external below ground drainage levels have been optimised to be as shallow as possible.	Y	Hazard note on renaisssance drawing BRW-REN-ZZ-00-SH-S-02200.	OPEN	Main contractor to check relevant m&e drawings to check the presence of external services in the ground adjacent to Block E.
4	Sliding failure in the temporary construction phase.	Structural failure	Wall has been designed to resist sliding failure by utilising the passive soil resistance to the back of concrete shear key.	Y	Hazard note on renaisssance drawing BRW-REN-ZZ-00-SH-S-02200.	OPEN	Main contrcator to ensure non-loading zone at the top of the wall must be adopted until the material at the bottom of the wall is reinstated. Main contractor to develop construction sequence to ensure this constraint is complied with.
5	Excavation instability and undermining block e foundations during below ground drainage installation.	Excavation collapse	Deep excavation required to install below ground drainage, in close proximity to Block E.	Y	Hazard note on renaisssance drawing BRW-REN-ZZ-00-SH-S-02200.	OPEN	Main contractor to develop construction methodology with temporary works engineer. Temporary shoaring likely required. Main contrcator to develop construction methodology with temporary works engineer to ensure shoaring is not surcharged at the top of the wall during drainage installation.