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**Project:** Waterloo OSD  
**Author:** Craig Furness

**Project No:** 18445B  
**Reviewer:** George Andrianakos

## TECHNICAL MEMORANDUM

### METRO QUARTER DEVELOPMENT | CONSTRUCTION ADJACENT WATERLOO CONGREGATIONAL CHURCH

The Waterloo Metro Quarter site comprises land to the west of Cope Street, east of Botany Road, south of Raglan Street and north of Wellington Street. The heritage-listed Waterloo Congregational Church at 103–105 Botany Road is within this street block but does not form a part of the Waterloo Metro Quarter site boundaries. Building 2 which includes a 2 level basement is located 14m to the north of the church. Building 3 is located to the south of the church and does not contain a basement and will not require excavation near the church. Buildings 2 and 3 are supported on pile foundations, which will be founded on bedrock.

Landscaping works are proposed adjacent the church which involve the construction of low (less than 1m) retaining walls, planter beds and paving works.

The church is a solid masonry structure with a timber framed floor and roof structure. Due to the age of the building we would expect the church to be founded on high level concrete or stone footings.

#### **Impact of Development on church**

The basement for building 2 is located 14m from the church building. Construction will require the excavation for the basement and piling works. Due to the distance of the church from the basement and the soft soils present on the site vibration is not likely to be an issue and would be within safe limits to prevent damage. A vibration monitoring plan should be established in consultation with the project's geotechnical consultant.

Building 3 is supported on pile foundations and will not induce any loads or movements onto the church. Drilling of the piles will be through soft sands/clays and will induce minimal vibrations that will be monitored during construction.

The landscaping works around church will include the construction of small retaining wall structures of less than a 1m high. These will require the construction of footings near the church buildings. The footings for these walls will be shallow and will not undermine or disturb the churches footings. Excavations for these will either be by hand or with small excavators due to the limited access available to this zone. The construction methods or the proposed footings should not impact on the church building.

A detailed dilapidation report of the church and surrounds should be prepared prior to works commencing on site. The report would provide a record of existing conditions prior to commencement of works.

In conclusion we do not believe the construction of the Waterloo Metro Quarter will have an adverse effect on the Waterloo Congregational Church.

Should you have any questions please contact the undersigned.

Yours faithfully

**ROBERT BIRD GROUP PTY LTD**



**CRAIG FURNESS**

Principal