



DETAILED METHOD STATEMENT & RAMS

Protection of 18" Trunk Water Main

Project: McDonald's Drive-Thru, Heads of the Valleys Road, Merthyr Tydfil

Contractor: Trojan Construction Management Ltd

Water Authority: Dŵr Cymru Welsh Water (WMD0003935)

1. PURPOSE

To define robust, site-specific methodology and control measures to protect the existing 18" CI trunk water main during all construction activities. Diversion of the 8" main is undertaken separately by Dŵr Cymru Welsh Water.

2. RESPONSIBILITIES

Dŵr Cymru Welsh Water will undertake all works to the 8" main diversion, including installation, commissioning and connections. Trojan Construction Management Ltd will not undertake any works to live water mains and is responsible solely for protection of the 18" trunk main during all construction phases.

3. PROTECTION CORRIDOR

A minimum 3.0m wide protection corridor (1.5m either side of confirmed centreline) shall be established. This corridor will be clearly marked on site and communicated through inductions and daily briefings.

4. PLANT & LOADING CONTROLS

Tracked plant up to 30 tonnes may only cross the corridor using approved load-spreading measures (e.g. track mats or temporary stone platforms). No plant exceeding 13 tonnes shall operate directly over the main without such protection. No storage of materials or equipment is permitted within the corridor.



5. EXCAVATION CONTROLS

No mechanical excavation within 1.0m of the main. Hand digging only within this zone. Trial holes will confirm depth prior to works. No undermining permitted.

6. WORKING PLATFORM / CROSSING DETAIL

Where crossings are required, a temporary working platform shall be installed consisting of geotextile membrane and minimum 300mm selected stone to distribute load. Additional protection (steel plates or concrete slabs) to be used where required.

7. VIBRATION & GROUND STABILITY

No high-vibration compaction within 3m of the main. Low-impact techniques only. Ground condition monitored for movement.

8. TEMPORARY SUPPORT

If the main is exposed, it shall be supported using timber or engineered supports. Exposure will be minimised and supervised.

9. MONITORING & SUPERVISION

Daily inspections by site management. Protection measures maintained at all times. Immediate stop-work procedure if risk identified.

10. INTERFACE WITH WELSH WATER

Full cooperation with Welsh Water works. Access provided. No interference with their operations. All live works controlled by Welsh Water.

11. EMERGENCY PROCEDURE

Cease work, evacuate area, notify Welsh Water immediately in event of risk or damage. Prevent further loading or movement.



12. COMPLIANCE WITH PLANNING CONDITION

Measures are implemented prior to development and maintained throughout all works, ensuring full protection of the 18” trunk main in accordance with planning requirements.

13. CONCLUSION

This methodology provides a robust and engineered approach to protecting the 18” trunk main throughout construction, ensuring zero impact to the asset.