

MWC1081 – Friog Lower Wall Method Statement

Band 1 Marine Licence Method Statement

A number of minor work remits have been requested by Network Rail to repair and maintain a section of wall situated beneath the railway line between Llynngwrl in the south and Fairbourne in the north, known as Friog Lower Wall.

There are a number of areas on the wall that require work and stretch over a distance of 1 mile 258 yards.

Start point: Lat: 52.67578, Long: -4.07742

End point: Lat: 52.68684, Long: -4.05757

The work remits consist of the following:

- Minor re-pointing to the wall
- Fill, repair and protect voids in stonework
- A tidal flap valve to be replaced and sealed with TAB marker installed
- Minor concrete repairs to apron and undermined wall base
- Install TAB markers to stone wall
- Remove seaweed attached to wall

Methods of Working

1. Access:

Note - This applies to all remits at Friog Lower Wall.

- Park at access point on landward side close to railway infrastructure.
- Access onto the beach through pedestrian access.
- Use a hand trolley to transport tools and materials to works location.
- Walk to designated point where watchman is on the beach to keep an eye on the tide.
- Personnel to carry out works at wall and return back to access point before the tide comes in.

2. Re-pointing:

1. Marine grade cement to be mixed using a bucket and paddle mixer placed on a trolley, over a plant nappy to catch any arisings, should they spill from bucket/paddle mixer.
2. Staff to take care when mixing and applying cement so as not to spill any material.
3. Grinder will be used to grind out open joints. Any vegetation growing within joints will be removed by hand. The joints will then be repointed using the Sika marine grade grout.
4. Tools will be battery powered to avoid using and bringing fuel onto the beach.

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3. Replace missing stone/block work from wall with new stones.

1. Chisel out and grind around the stone joint and place new (like-for-like) stone into void.
2. Trowel in the pre-mixed marine grade grout to seal and fill void.

4. Installing new Tab Markers

Tab markers used to display information on rail infrastructure such as engineers' line reference and mileage for location purposes.

1. A hole will be drilled into the concrete block work sections of wall.
2. An industrial rawl plug will then be inserted and the tab marker fixed into the face with screws and marine grade resin to fully secure.
3. These works will use hand tools only.

5. Concrete repairs to apron and undermined sections of the wall.

1. A centre line will be marked and dowel bars drilled along this at even spacing's.
2. Lacer bars will be steel tied top and bottom allowing for sufficient concrete cover.
3. A wooden shutter will be installed to match the dimensions of the existing apron.
4. Fast set marine grade concrete will be mixed in in buckets on the wheeled trolley.
5. The concrete will be placed in the shutter using a tremmie, so as not to spill concrete during installation and finished to match the existing apron.
6. Once cured concrete shutters will be removed and taken away from site.

For the undermined sections, as above after hand excavating the area to remove any debris before shuttering and infilling with marine grade concrete.

6. Replace and install new tidal flap valve.

1. The old flap valve will be cut-off and removed from site.
2. Scrape and make the wall surface good (i.e. usable) for attaching new valve.
3. Drill and fix new valve using anchor bolts.
4. A marine grade sealant then applied around new bolts to secure tidal flap valve in place.
5. These works will use hand tools only.

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7. Removing Seaweed from face of wall

1. All identified areas covered in seaweed – scrape by hand using long handled tools or where seaweed difficult to reach and remove, a small Kärcher pressure washer will be used.
2. A 20 litre water drum will be used at any one time to minimise water used and water run-off
3. A small generator to power the pressure washer will be required, but this will be placed within a plant nappy on the hand trolley. It will be refuelled away from the beach, landward above MHWS.

Friog Lower Wall Photographs



Example of repointing
required within red line

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