

Project ref: HR8202

Project title: Aberdour Harbour Footbridge Replacement

Date: 27/09/2021

Please note that the below is a draft method statement and will be passed onto the appointed contractor for consideration.

1. Set up site compound and temporary access road into site.
2. Ensure that all mechanical plant is equipped with bio-degradable oil.
3. Install eel ladder upstream of culvert.
4. Install bunding system upstream of works location.
5. Install over pumping system, discharging downstream into the Firth of Forth.
6. Re-location of any fish, if required in works location.
7. All works below will be undertaken during periods of low tide.
8. Protective membranes and crash decks will be laid in the works area and over the existing riverbed to prevent any contamination to the environment. All site activities will be cleared and cleaned at the end of each day to prevent any contamination to the marine environment.
9. Take down boundary walls and set aside stone.
10. Mechanical excavation of East embankment using an excavator to remove boulders and remaining section of collapsed abutments. Boulders and sand to be stored in site compound for re-use.
11. Mechanical Excavation of East abutment using an excavator to allow for new abutment footing.
12. Diversion of Scottish Water outfall by installing new chambers and pipe to accommodate new abutments and wingwalls. Task will be undertaken with mechanical excavator and hand excavation.
13. Mechanically take down West abutment, footpath and embankment using an excavator. Sandstone to be set aside for re-use in site compound.
14. Excavation of West abutment using a mechanical excavator to allow for new abutment footing.
15. Installation of concrete screed footing for abutments and wingwall (both sides) using a rapid set concrete mix. Concrete to be pumped from site compound and into site.
16. Installation of pre-cast concrete wingwalls on East embankment using mechanical excavator.
17. Installation of Pre-cast concrete wingwalls on West embankment using mechanical excavator.

18. Installation of concrete shutter on East and West embankment for abutments. Shutters will be checked to ensure that they are watertight to prevent any contamination into the environment. The shutters will also contain a waterproof membrane to ensure that the timber is not damaged by the high tide.
19. Concrete pour for East and West abutments. Concrete to be pumped from the site compound and into the shutters. During this exercise the contractor shall regularly monitor the shutters to ensure that there is no leaks or potential spillages into the environment. Protective membranes shall be laid around the perimeter of the shutter to act as a precautionary measure.
20. Removal of concrete shuttering on both embankments. During this exercise, protective membranes will be placed around the perimeter of the shutter to catch any debris.
21. Reinstatement / back fill of excavated area to re-profile river embankments in and around the abutments. This exercise will be carried out using an excavator.
22. Manual Installation of grout bags on downstream West embankment.
 - a. Grout bags will be filled inside the site compound and transported to works area for manual installation. This will be with a small dumber.
 - b. Reinforcing bars to be installed through grout bags to add additional rigidity.
 - c. During this exercise protective membranes will be placed around the perimeter of the works location.
23. Installation of grout bags and rip rap on upstream East and West embankments following the same practice above
24. Backfilling and reinstatement of embankments behind grout bags using mechanical excavator.
25. Reinstatement of boundary walls up to footpath level. This will be undertaken by operatives and an excavator to remove the manual handling aspect.
26. Manual installation of sandstone face to abutments.
27. Reinstatement of footpath up to tar level using mechanical excavator.
28. Installation of FRP footbridge using mechanical excavator.
29. Manual and mechanical Installation of remaining boundary wall.
30. Reinstatement of West footpath and Scottish Power plant. Wheelbarrows of carriageway asphalt material will be transported by operatives from the harbour entrance and placed in the required location. Tar to be compacted and levelled with whacker plate.
31. Reinstatement of East footpath. Wheelbarrows of carriageway asphalt material will be transported by operatives from the site compound and placed in the required location. Tar to be compacted and levelled with whacker plate.

Appendix S3 – Method Statement
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32. Manual general re-pointing and masonry repairs to coastal wall.
33. Tidying up of site
34. Demobilising of site compound and temporary access road.