

**Key**

- Planning Red Line Boundary
- River Foss Reprofitting Works

**Existing Landscape Features**

- River Foss & Suburbs
- Existing waterbodies
- Existing Green space
- Trees / vegetation
- Existing trees to be removed
- Left bank reprofiling & in channel shallow berms
- Right bank reprofiling & in channel shallow berms
- Footpaths

**Proposed Landscape Works**

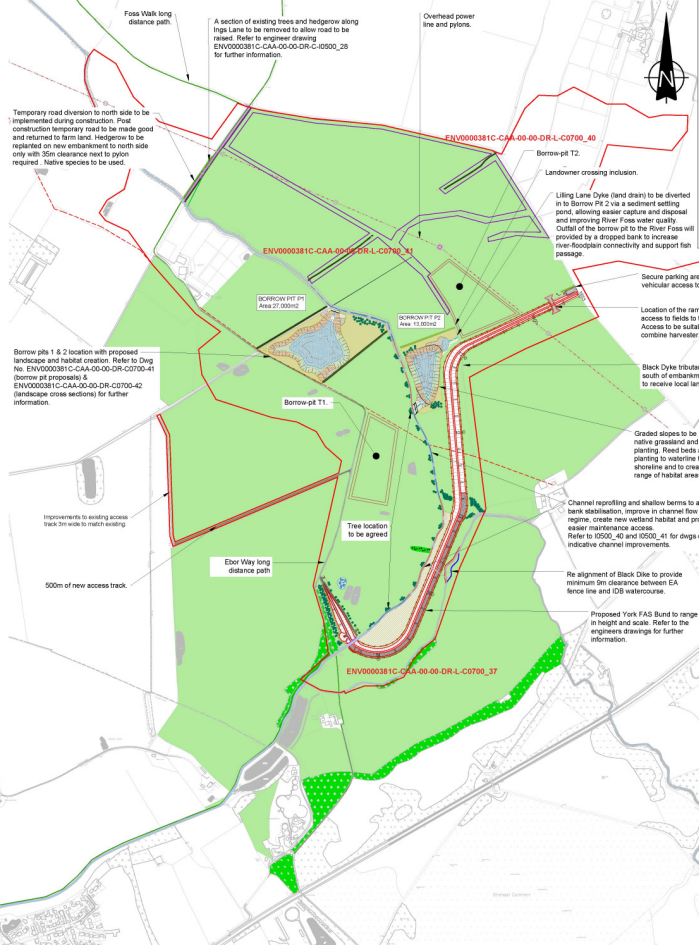
- Hard surface - tarmac/grassed stone
- Fencing

**Environmental Mitigation**

- Existing hedge line. See annotations for details
- Proposed hedge line to be planted using native species
- Proposed feathered tree planting to compensate for trees lost across the project
- Species rich grassland
- Shrubs - natural regeneration
- Marginal planting
- Marsh Grassland
- Road translocation
- Wetland Grass Mix
- Wetland
- Embankment
- Road / hedge/ path to be rebed / lined / Outlet
- Buffer strip for conservation hedgerows

**Notes**

- All proposed alignments up to date as of 08/02/2020
- All proposals are to be subject to utility checks



**Landscape Principles & Ecology Notes**

**Marsh and Reed areas with shallow pools, some of which will dry out in summer**

Marsh formed in this area will create scrub and wet grassland growing down to the larger deeper ponds. This will create a habitat for a diverse range of invertebrate and amphibian, following the existing natural pattern, much grass will extend along the depression. The shallow pools will provide amphibian and invertebrate habitat. The area will be managed for meadow and softwater species. This area will provide excellent cover for wading birds and other wildlife.

**Wetland pool with marginal habitat**

This shallow pool will provide for most birds water body for the site. Aquatic vegetation has been included through to the pond and this will help to control the growth of the area. The pool will be used to create a wide range of bird and insect habitats. It is intended to create a shallow margin to all ponds to encourage wading birds to feed and nest.

**Wet Features**

Techniques for bank diversification include bank reprofiling and bays changes in vegetation management and hedging regimes.

**Bank Diversification**

Techniques for bank diversification include bank reprofiling and bays changes in vegetation management and hedging regimes.

**Mitigation**

Mitigation measures for effects on habitats and species include:

- Compensatory habitat creation for any habitat lost.
- The retention and protection of wildlife habitats, the encouragement of biodiversity and healthy rivers.
- Mitigation against disturbance to flora and habitat during construction.
- To create a sustainable balance between the necessary flood defence and allow ecosystems to flourish in situ.

**Woodland - Broadleaved and Coniferous, Hedgerow, Hedgerow**

Removal of trees should be avoided wherever possible. Where trees are to be removed, they should be replaced with habitats of equal or greater value and which meet the same or greater biodiversity objectives. The removal of trees should be avoided wherever possible.

**Soil and Ground Mitigation**

Soil and ground will be protected from erosion and degradation during construction. Inspecting these aspects through removal or degradation would cause a net loss of biodiversity and reduce the habitat opportunity for protected species across the site. Replacement or replacement of any habitats which are degraded or lost with native species of equal or greater value.

**Avic and Invasive Species**

Fully restore any grazed habitats which are lost and/or degraded during construction.

**Species Mitigation**

All measures to avoid and/or mitigate impacts on protected species are outlined in the Environmental Statement.

**River and Channel Mitigation**

Generally increasing cover and sheltering opportunities within the channel and outer areas of the river will benefit the river. This may include bankside revegetation, avoiding increasing bank erosion or additional siltation.

The most effective methods of increasing in channel biodiversity is by the repositioning of bankside cover and the creation of aquatic habitats in order to create microhabitats.

Date Valid 12/02/2020

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**REVISED PLAN**

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION**

**CONSTRUCTION**

**MAINTENANCE / CLEANING**

**DECOMMISSIONING / DEMOLITION**

**REFERENCE DRAWINGS AND DOCUMENTS:**

- ENV000381C-CAA-00-00-DR-C0700\_36
- ENV000381C-CAA-00-00-DR-C0700\_37
- ENV000381C-CAA-00-00-DR-C0700\_40
- ENV000381C-CAA-00-00-DR-C0700\_41
- ENV000381C-CAA-00-00-DR-C0700\_42

**GENERAL NOTE:**

After engineering soils have been removed from the adjacent bank of the River Foss the borrow pits will be modified and shaped to improve and integrate better into the surrounding landscape. The water levels within the borrow pits will depend on the amount of soil brought to create the bank. This will only be known when construction begins.

The depth of the water bodies will be determined by the final construction design. The water levels should be linked to the surrounding groundwater levels and average water levels of the River Foss. Seasonal variations are likely to occur and this will also impact on the rights to the borrow pits from the River Foss. The water level will be used at the maximum height of the river in flood.

**Project Information**

**Client:** Environment Agency

**Project:** RIVER FOSS FLOOD STORAGE AREA

**Drawing:** LANDSCAPE MASTERPLAN

**Scale:** A1

Drawn	Checked	Approved
DS	DS	DS

**Project No:** C0502480

**Date:** 11/02/2020

**Project Title:** RIVER FOSS FLOOD STORAGE AREA

**Project No:** ENV000381C-CAA-00-00-DR-C0700\_36

**Sheet No:** P16

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