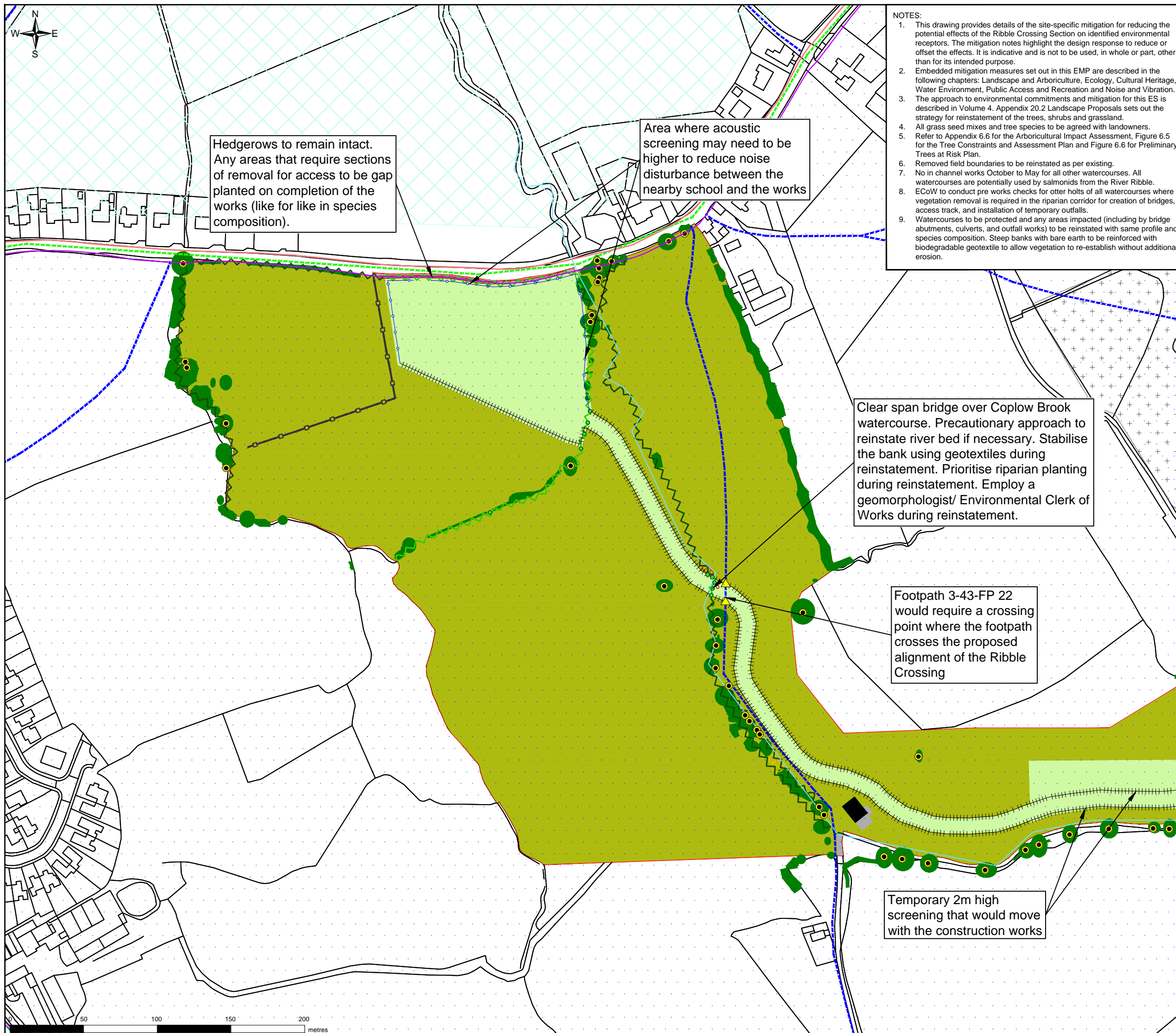


FIGURE 20.1



- NOTES:
1. This drawing provides details of the site-specific mitigation for reducing the potential effects of the Ribble Crossing Section on identified environmental receptors. The mitigation notes highlight the design response to reduce or offset the effects. It is indicative and is not to be used, in whole or part, other than for its intended purpose.
 2. Embedded mitigation measures set out in this EMP are described in the following chapters: Landscape and Arboriculture, Ecology, Cultural Heritage, Water Environment, Public Access and Recreation and Noise and Vibration.
 3. The approach to environmental commitments and mitigation for this ES is described in Volume 4. Appendix 20.2 Landscape Proposals sets out the strategy for reinstatement of the trees, shrubs and grassland.
 4. All grass seed mixes and tree species to be agreed with landowners.
 5. Refer to Appendix 6.6 for the Arboricultural Impact Assessment, Figure 6.5 for the Tree Constraints and Assessment Plan and Figure 6.6 for Preliminary Trees at Risk Plan.
 6. Removed field boundaries to be reinstated as per existing.
 7. No in channel works October to May for all other watercourses. All watercourses are potentially used by salmonids from the River Ribble.
 8. ECoW to conduct pre works checks for otter holts of all watercourses where vegetation removal is required in the riparian corridor for creation of bridges, access track, and installation of temporary outfalls.
 9. Watercourses to be protected and any areas impacted (including by bridge abutments, culverts, and outfall works) to be reinstated with same profile and species composition. Steep banks with bare earth to be reinforced with biodegradable geotextile to allow vegetation to re-establish without additional erosion.

- Legend
- Planning Application Boundary
 - Existing watercourse (to be retained)
 - Existing building (to be retained)
 - Existing track / hardstanding (to be retained / reinstated)
 - Existing PRoW (to be retained)
 - Existing NCN Route 90 (to be retained)
 - Existing vegetation (to be retained)
 - Existing vegetation (to be removed)
 - Existing vegetation (at risk of removal)
 - Existing grassland (to be retained)
 - Existing hedgerow (to be retained)
 - Existing fence (to be retained)
 - Area of Outstanding Natural Beauty
 - Existing important bird area
 - Existing Biological Heritage Site (BHS)
 - Existing Local Geodiversity Site
 - Bat roost potential tree
 - Proposed tree
 - Proposed reinstated grassland
 - Proposed hedgerow
 - Proposed temporary PRoW access gate
 - Proposed 2.4m high screening fence
 - Proposed 2m high temporary screening during construction (to be moved to follow location of the construction works)

Hedgerows to remain intact. Any areas that require sections of removal for access to be gap planted on completion of the works (like for like in species composition).

Area where acoustic screening may need to be higher to reduce noise disturbance between the nearby school and the works

Clear span bridge over Coplow Brook watercourse. Precautionary approach to reinstate river bed if necessary. Stabilise the bank using geotextiles during reinstatement. Prioritise riparian planting during reinstatement. Employ a geomorphologist/ Environmental Clerk of Works during reinstatement.

Footpath 3-43-FP 22 would require a crossing point where the footpath crosses the proposed alignment of the Ribble Crossing

Temporary 2m high screening that would move with the construction works

0	JE	NF	DB	Final Issue	27/05/2021
VERSION	AUTH	CHKD	REVD	REASON FOR ISSUE	DATE



UNITED UTILITIES WATER LIMITED
 HAWESWATER AQUEDUCT RESILIENCE PROGRAMME
 ENVIRONMENTAL MASTERPLAN
 PAGE 1 OF 2

SCALE 1: 2,500	SHEET SIZE A3
DRAWING NUMBER LCC_RVBC-BO-RC-FIG-020-001	REVISION 0

The copyright of this document, which contains information of a proprietary nature, is vested in United Utilities Water Limited. The content of this document may not be used for purposes other than that for which it has been supplied and may not be reproduced, either wholly or in part, in any way whatsoever. It may not be used by, or its contents divulged to any other person whatsoever without the prior written permission of United Utilities Water Limited. Copyright Acknowledgement: Use of Ordnance Survey map data sanctioned by the controller of H.M. Stationery Office. OS Licence Number 100019326. Crown copyright reserved. Unauthorised production infringes copyright.