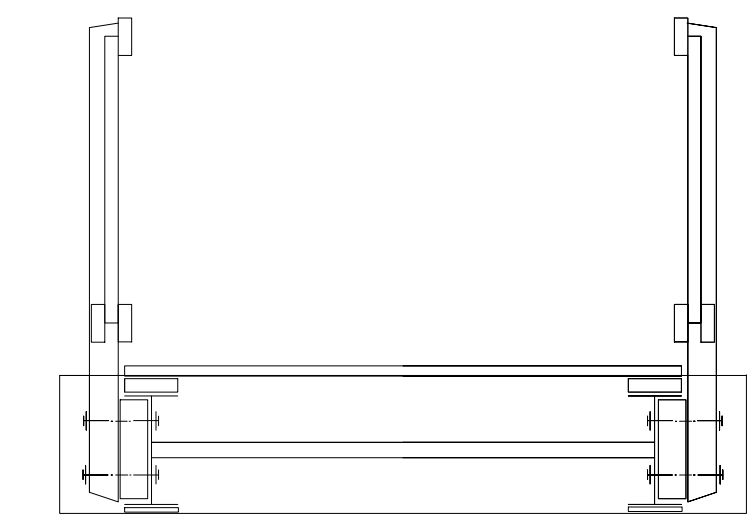
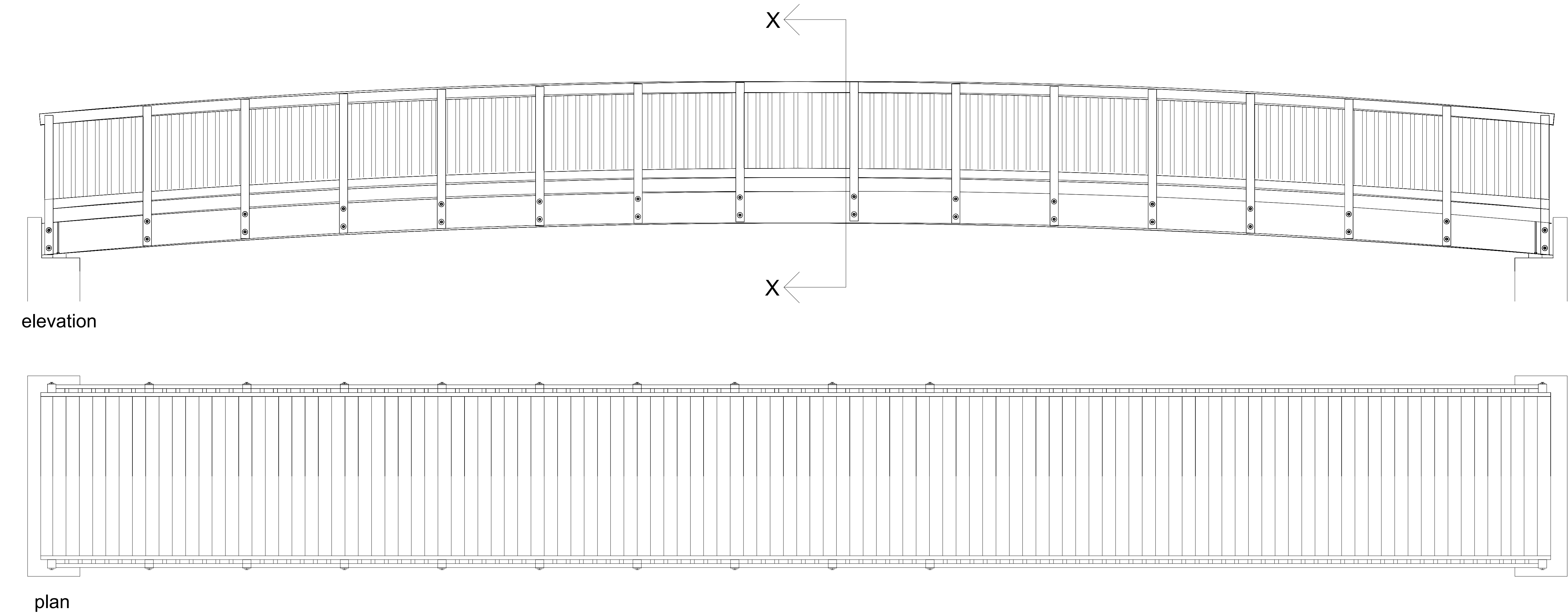
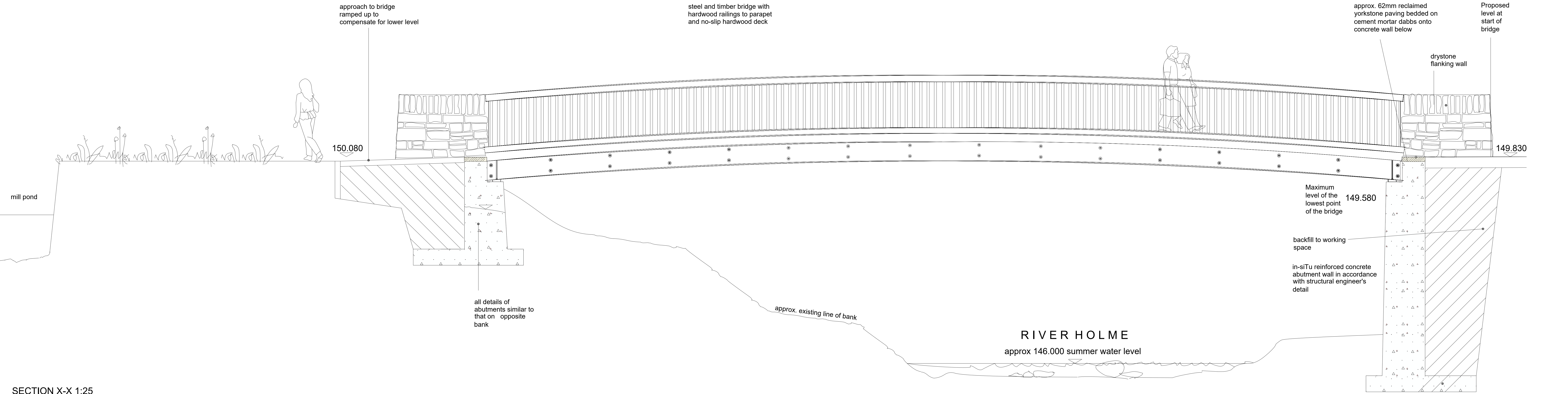




Specification for Pedestrian Footbridge:

Overall Length : 17.3m

Clear width between parapets : 1.8m

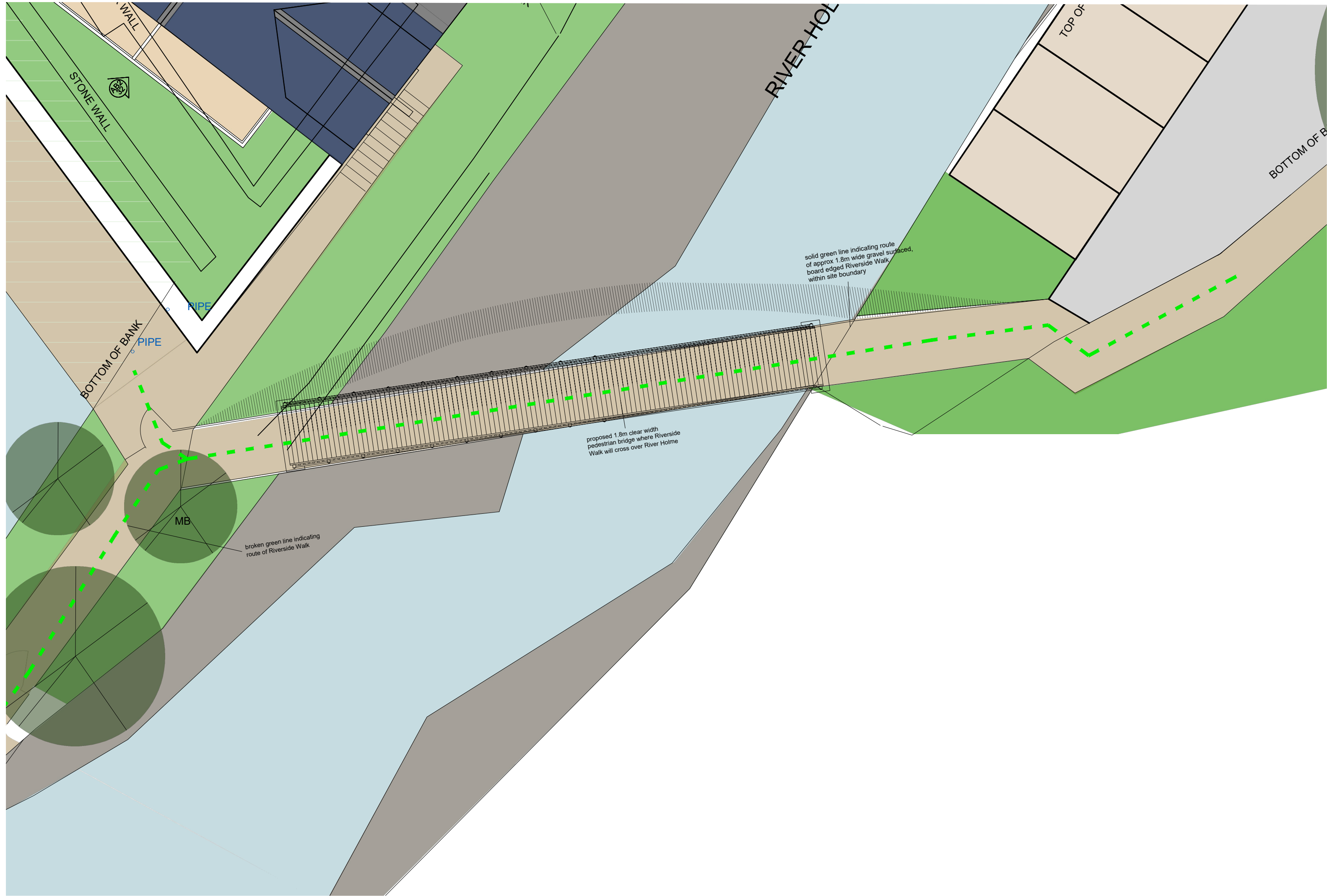
Structural form: Cambered steel universal main beams grade S355 J2 G3 to BS EN 10025 including holding down brackets and bearers all with hot dipped galvanized finish.

Parapet: Height 1.15m vertical infills at max 110mm spacing, European Redwood supplied from sustainable managed sources.

Deck: European Redwood - incorporating two factory applied non slip inserts comprising a polyurethane resin base with aggregate overlay strips of resin/bauxite inserted into grooves of deck. In compliance with the requirements of BD 29/04, Design Manual for Roads and Bridges; Design criteria for footbridges - Part 8, to achieve a mean corrected pendulum test value of 45 units.

Timber Protective System: All softwood to be vacuum/pressure treated in accordance with BS:EN 351-1 for Hazard Class 4 as defined in BSEN 335-1 for a desired service life of 30 years with preservative tested in accordance with BS EN 599-1

Design: All design work for the proprietary bridge will undertaken by Chartered Civil and Structural Engineers experienced in bridgework design. The structure will be designed for a vertical uniformly distributed live load of 5kN/m2. A point load of 3kN will be considered acting on a 200mm x 200mm square in accordance with BS EN 1991-2:2003 Cl 5.2.3 (2) - (note this is a departure from BS EN 1991-2:2003 Cl 5.3.2.2(1)) All steelwork designed in accordance with Eurocode 3 for ultimate limit state. Vibration will be checked in accordance with BD 37/01 Appendix B using the simplified method of deriving maximum vertical acceleration only and checked to BD 49/01 but with no allowance for wind tunnel testing. Abutment walls and foundations formed with in-situ reinforced concrete to BS 8500-2 with ribbed bar reinforcement to BS 4449 and reinforcing fabric to BS 4483. Final design of the abutments and foundations to be in accordance with Consulting Civil and Structural Engineers



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ACUMEN DESIGNERS & ARCHITECTS				
acumenarchitects.co.uk 01484 546 000 Headrow House, Old Leeds Road, Huddersfield, HD1 1SQ				
Client ELISTON HOMES				