

MetroWest*

Portishead Branch Line (MetroWest Phase 1)

TR040011

Applicant: North Somerset District Council

2.22 Avon Road Underbridge

General Arrangement Proposed Sheets 1 and 2 and Avon Road Underbridge Embankment Regrades

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o) Planning Act 2008

Author: Arup

Date: November 2019

















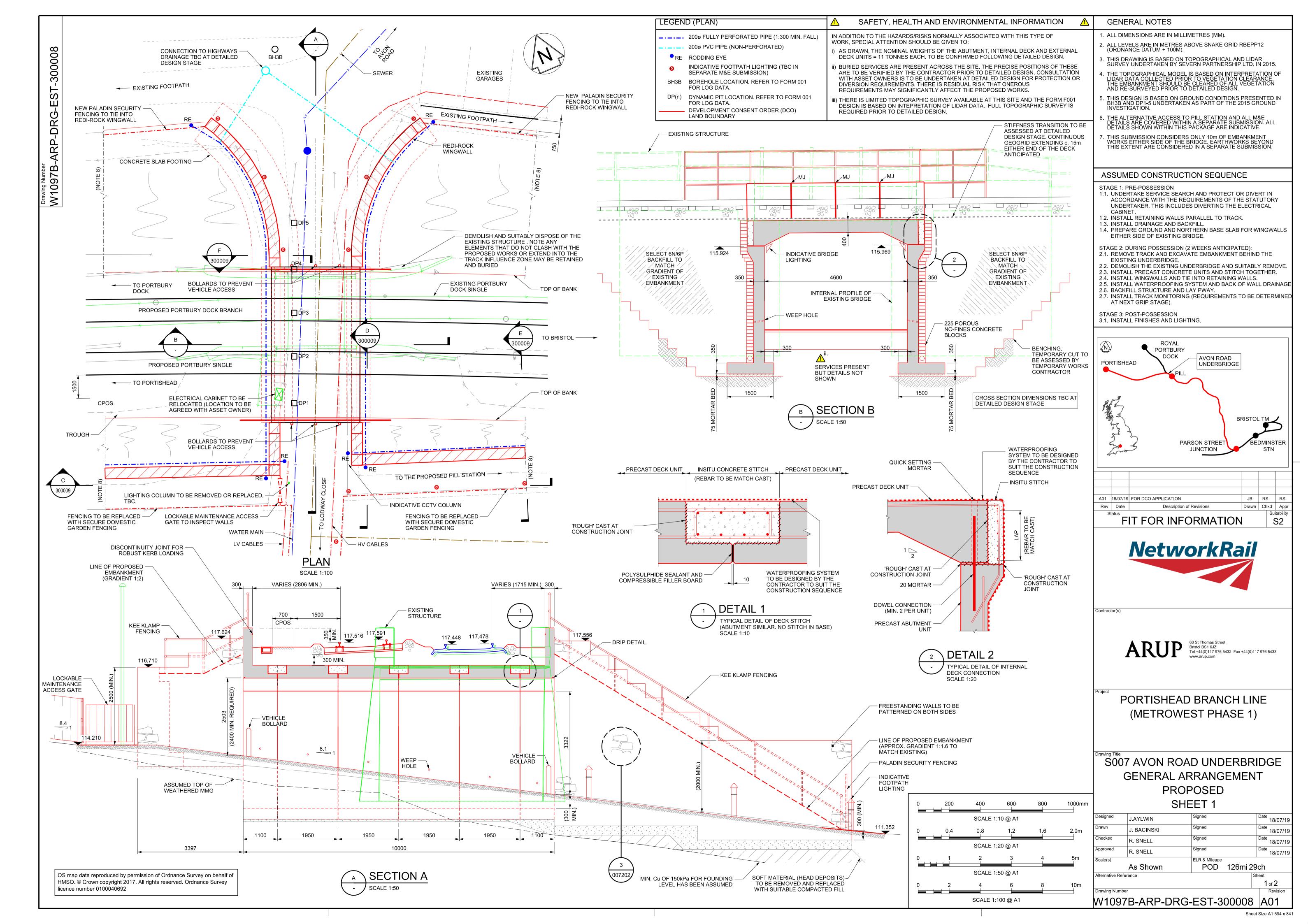


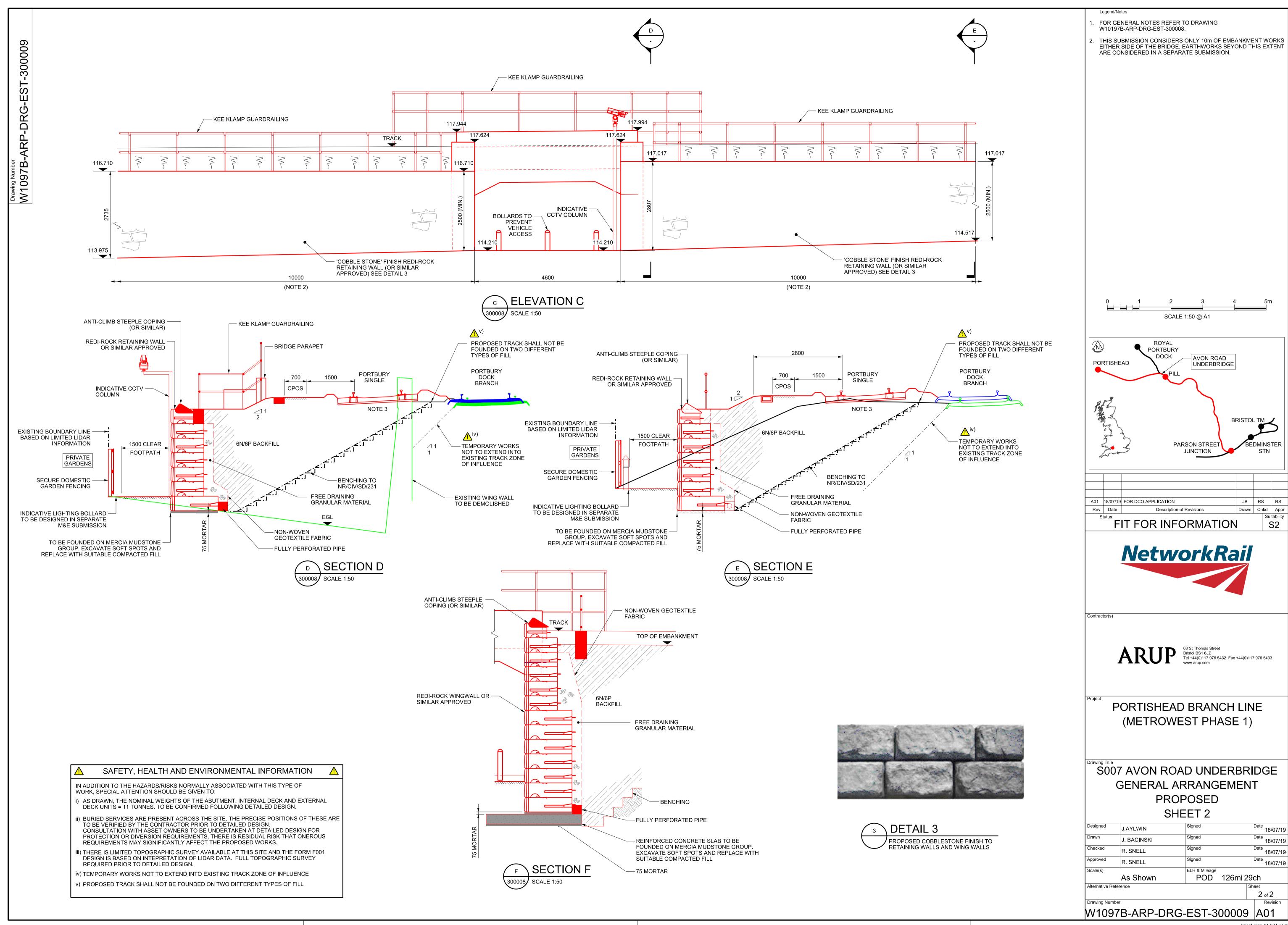


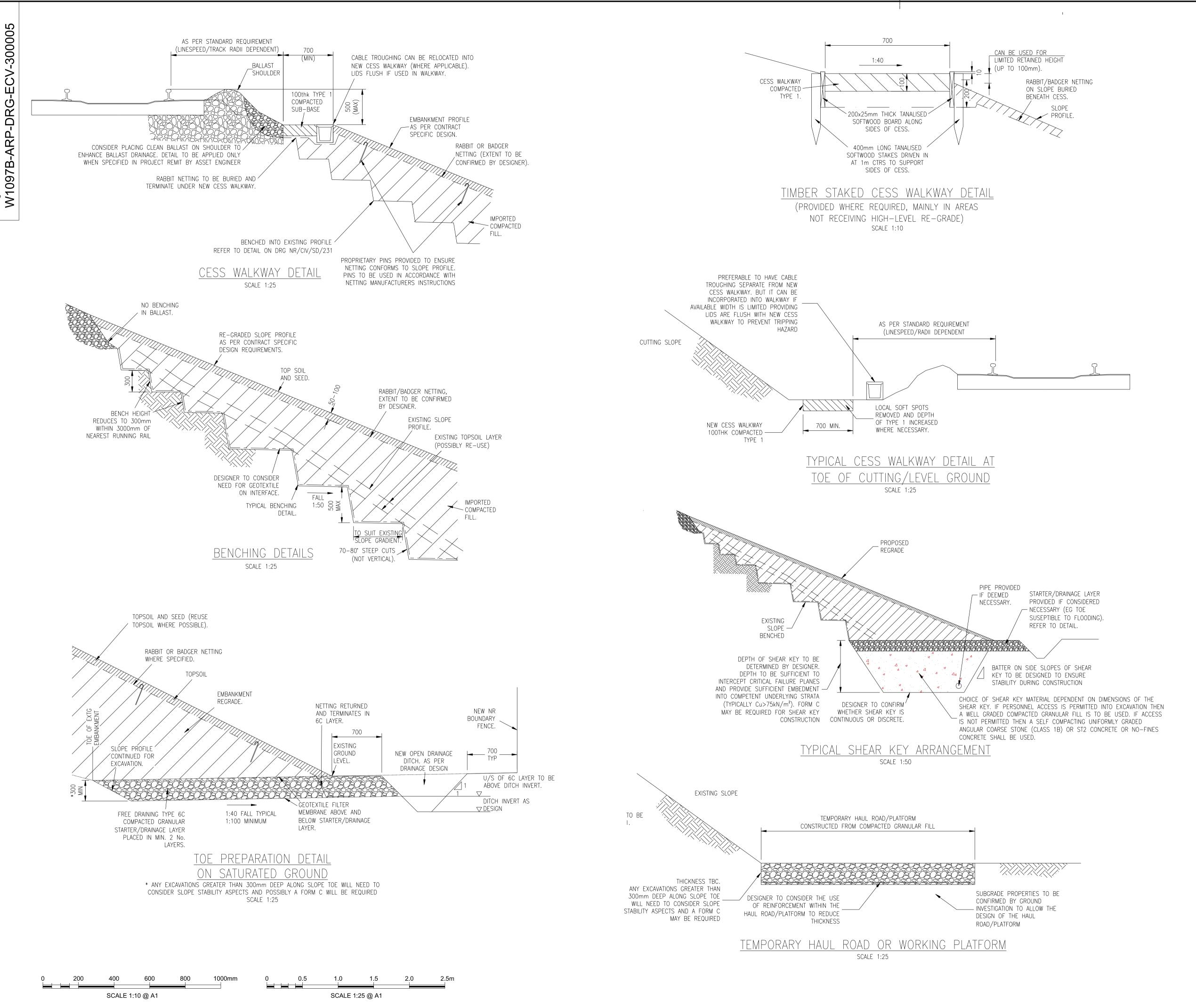
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2.22	Avon Road Underbridge General Arrangement Proposed (Sheet 1 & 2)*	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)	W1097B-ARP-DRG-EST-300008-9 Rev A01
	Avon Road Underbridge Embankment Regrades	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, regulation 5(2)(o)	W1097B-ARP-DRG-ECV-300005 Rev A01

^{*} The footpath to the station has been removed from scope, and there are no longer plans to provide CCTV as shown on drawings W1097B-ARP-DRG-EST-300008 and W1097B-ARP-DRG-EST-300009







1. THIS DRAWING IS BASED ON NETWORK RAIL STANDARD DRAWING NR/CIV/SD/230.

- <u>B</u> <u>SPECIFICATION</u>
- B2 ALL WORKS TO BE IN ACCORDANCE WITH NETWORK
 RAIL COMPANY STANDARD NR/L3/CIV/140 MODEL
 CLAUSES FOR SPECIFYING CIVIL ENGINEERING WORKS.
 IN PARTICULAR SECTION 50 : GENERAL REQUIREMENTS
 FOR EARTHWORKS AND EXCAVATIONS.
- B3 GRANULAR FILL SHALL HAVE A MINIMUM CHARACTERISTIC PHI VALUE OF 35° TO PROVIDE SUFFICIENT RESISTANCE AGAINST NEAR—SURFACE SHALLOW FAILURES, FOR SLOPE GRADIENTS UP TO 1V IN 2H. TYPICALLY GRANULAR FILL SHALL BE CLASS 1A IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAYS WORKS.
- WHEN USING COHESIVE FILL THE CHARACTERISTIC UNDRAINED AND DRAINED PARAMETERS SHALL BE CONFIRMED PRIOR TO DEFINING THE DESIGN SLOPE GRADIENTS, TO ENSURE SHALLOW AND DEEP—SEATED STABILITY. IT IS ENVISAGED SITE—WON COHESIVE FILL OF POOR ENGINEERING VALUE SHALL BE ONLY BE USED AT THE TOE OF EXISTING SLOPES WHERE THEY WILL ONLY ENHANCE THE GLOBAL STABILITY OF THE SLOPE, SUBJECT TO THE NECESSARY DESIGN TO ENSURE ITS OWN STABILITY. DESIGNER TO CONSIDER SOIL—MIXING AND/OR BLENDING TO IMPROVE THE ENGINEERING PROPERTIES OF ANY SITE—WON MATERIAL.
- B5 TYPICALLY COHESIVE FILL SHALL BE CLASS 2C IN ACCORDANCE WITH THE SPECIFICATION FOR HIGHWAYS WORKS
- FILL, SITE-WON MATERIAL, AND/OR SOIL-MIXED MATERIAL SHALL BE CONFIRMED BY APPROPRIATE SAMPLING AND LABORATORY TESTING IN ACCORDANCE WITH EN-1997. PRIOR TO ACCEPTANCE THE CLASSIFICATION, STRENGTH AND COMPACTION PROPERTIES SHALL BE CONFIRMED.

 LIVE AND SURCHARGE LOADS ARE TO BE APPLIED IN ACCORDANCE WITH SECTION 15 OF NETWORK RAIL COMPANY STANDARD NR/L3/CIV/071: GEOTECHNICAL DESIGN.
- B7 ALL GEOTEXTILES TO COMPLY WITH NETWORK RAIL SPECIFICATION NR/SP/TRK/010. NEEDLE PUNCHED
- B8 SEED MIX TO BE CONFIRMED BY CONTRACTOR.

 TYPICALLY A DENSE GRASS MIX OF LOW MAINTENANCE
 IS DESIRED FOR NETWORK RAIL EMBANKMENTS. TIME
 OF YEAR AND THE SITUATION OF THE SITE TO BE
 CONSIDERED WHEN SPECIFYING SEED MIX.
- B9 DESIGNER TO CONSIDER REQUIREMENT FOR GEOTEXTILE IN BENCHING. IT IS IMPORTANT GOOD CONTACT IS MADE BETWEEN THE EXISTING SLOPE AND PLACED FILL WHICH MAY BE REDUCED BY THE INCLUSION OF A GEOTEXTILE. GEOTEXTILES ARE PROVIDED TO PRESERVE DRAINAGE LAYERS OR REINFORCING A GRANULAR LAYER.

A01 23/07/19 FOR DCO APPLICATION JB RS RS

Rev Date Description of Revisions Drawn Chkd Appr

Status

FIT FOR INFORMATION S2



Contractor(s)



PORTISHEAD BRANCH LINE (METROWEST PHASE 1)

AVON ROAD UNDERBRIDGE
EMBANKMENT REGRADES

Designed	NETWORK RAIL	Signed	Date 23/07/19
Drawn	J. BACINSKI	Signed	Date 23/07/19
Checked	R. SNELL	Signed	Date 23/07/19
Approved	R. SNELL	Signed	Date 23/07/19
Scale(s)	•	ELR & Mileage	•
	As Shown	POD 12	P6M 30CH

Drawing Number

W1097B-ARP-DRG-ECV-300005 A01

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