



OAKLANDS FARM SOLAR PARK

Applicant: Oaklands Farm Solar Ltd

Environmental Statement

Chapter 4 - Figures 4.11 – 4.15c

January 2024

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Revision: -

Planning Act 2008

Infrastructure Planning (Application: Prescribed Forms and Procedure) Regulations 2009 - 5(2)(a)

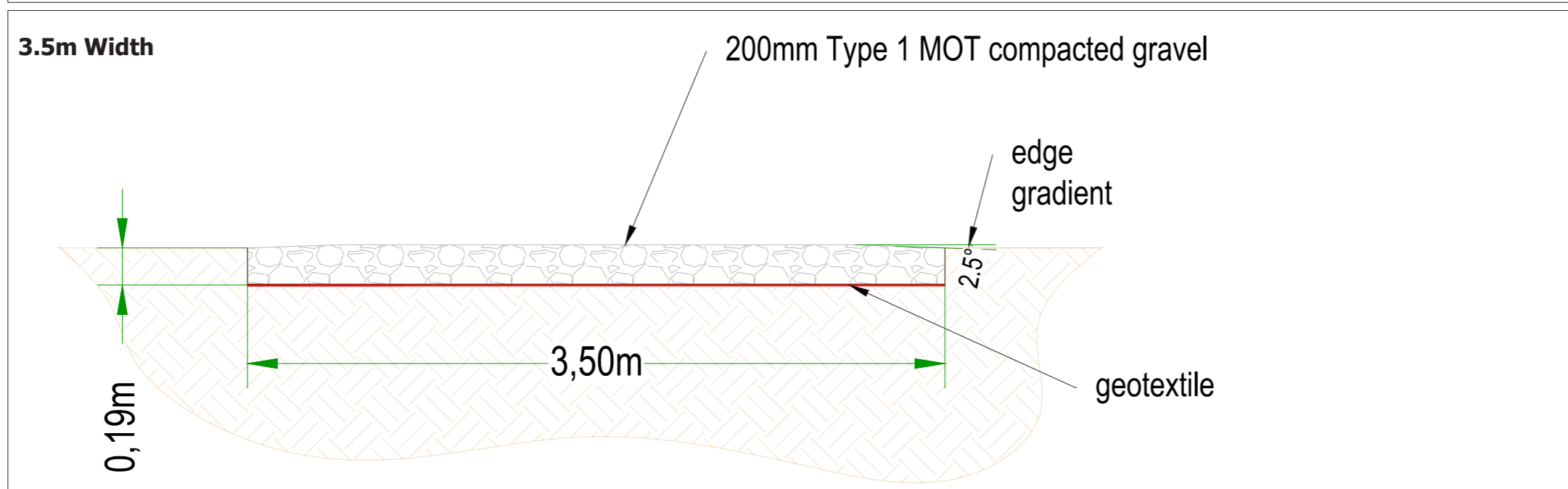
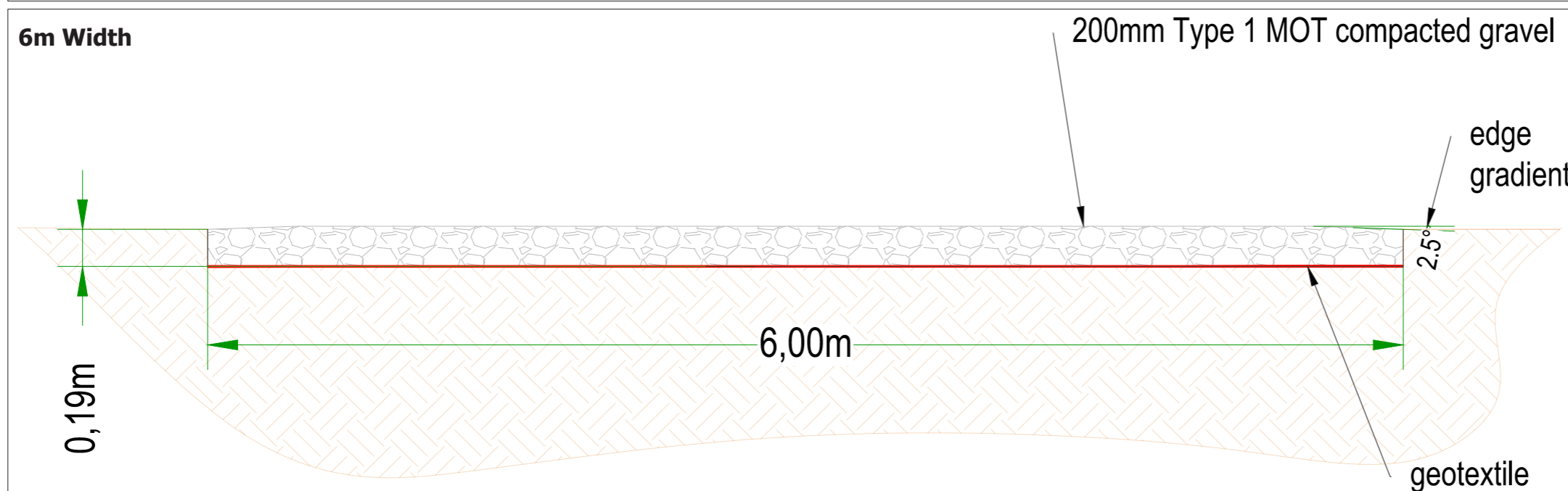
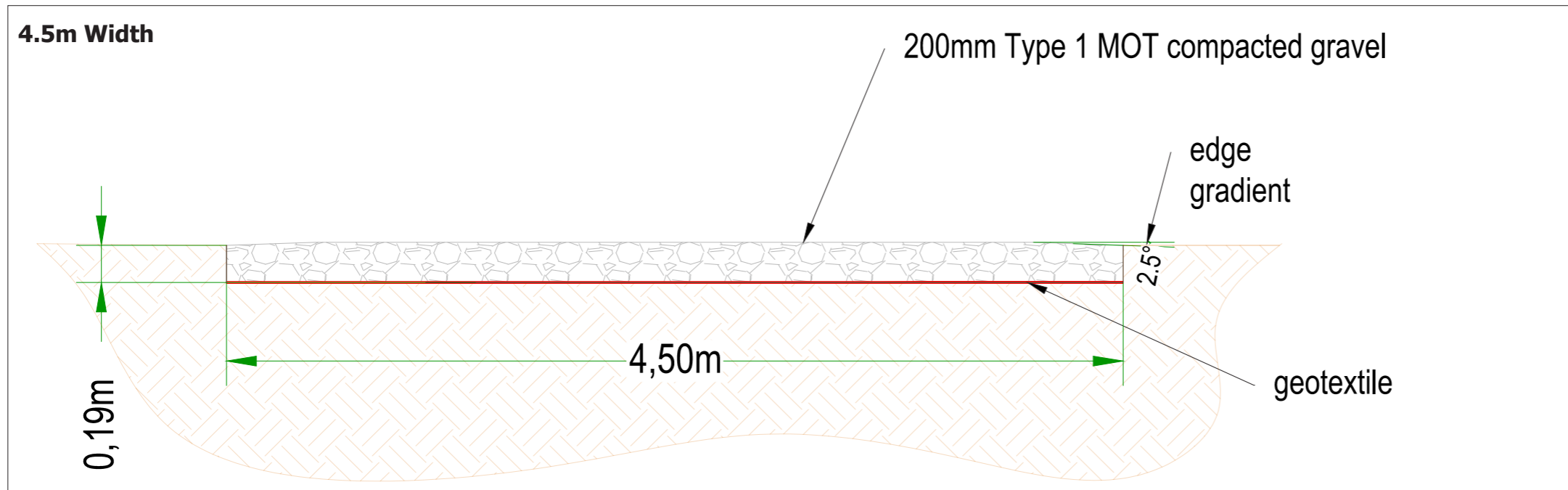
**Oaklands Farm Solar
Park - Environmental
Statement Volume 2**
Chapter 4: Project
Description Figures
4.11 to 4.15

Final report
Prepared by LUC
November 2024

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Figure 4.11: Indicative Access Track
Cross Sections (4.5m/6m/3.5m)

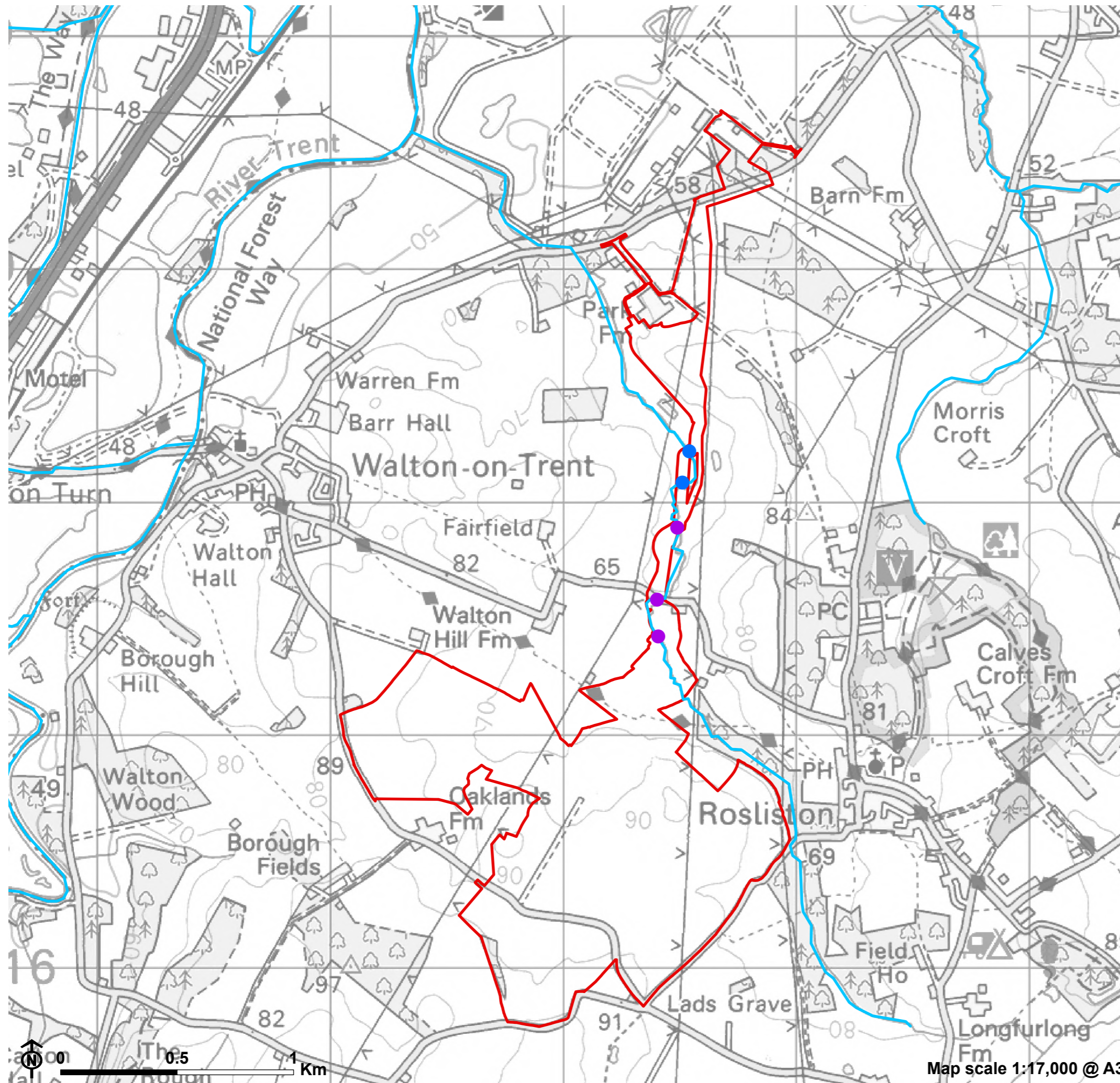


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Figure 4.12: Watercourse crossing



Order Limits / Site Boundary

Watercourse

Watercourse crossing

Cable

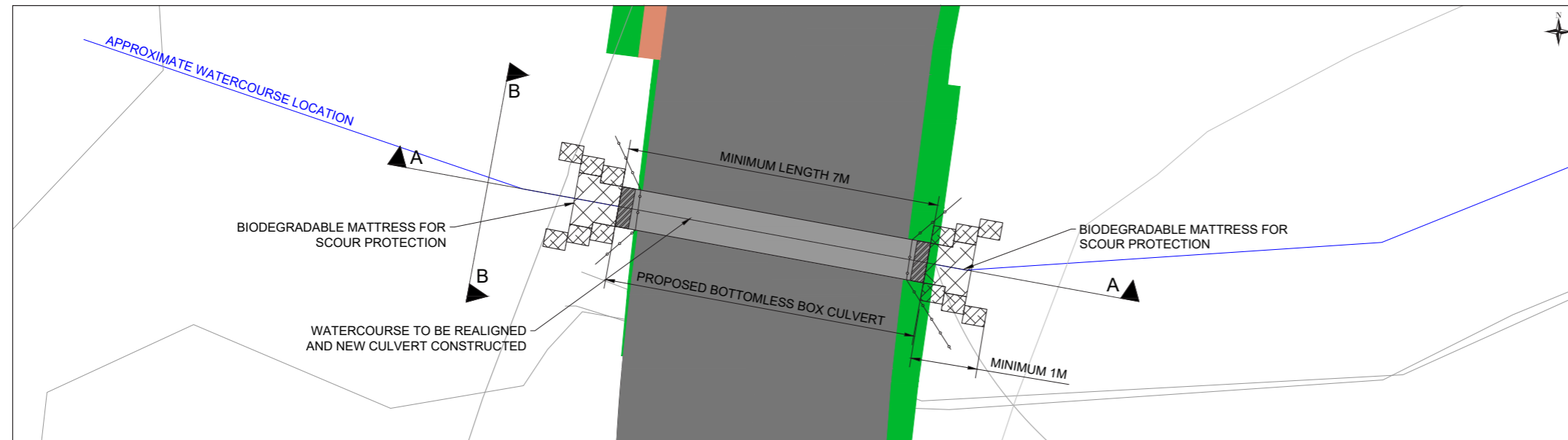
Cable and track

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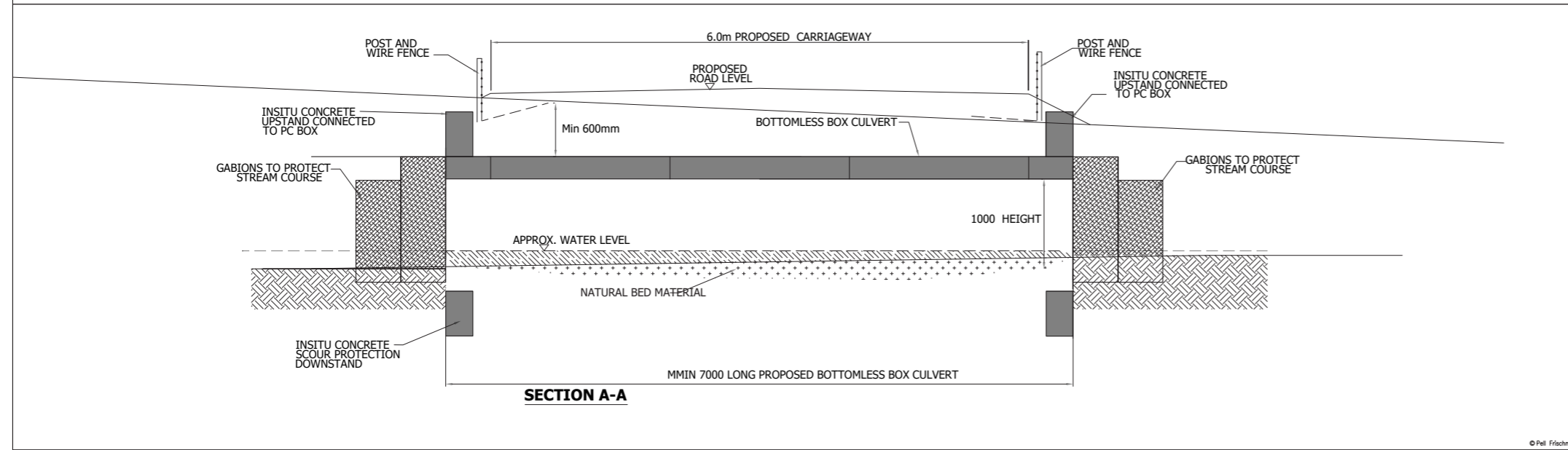
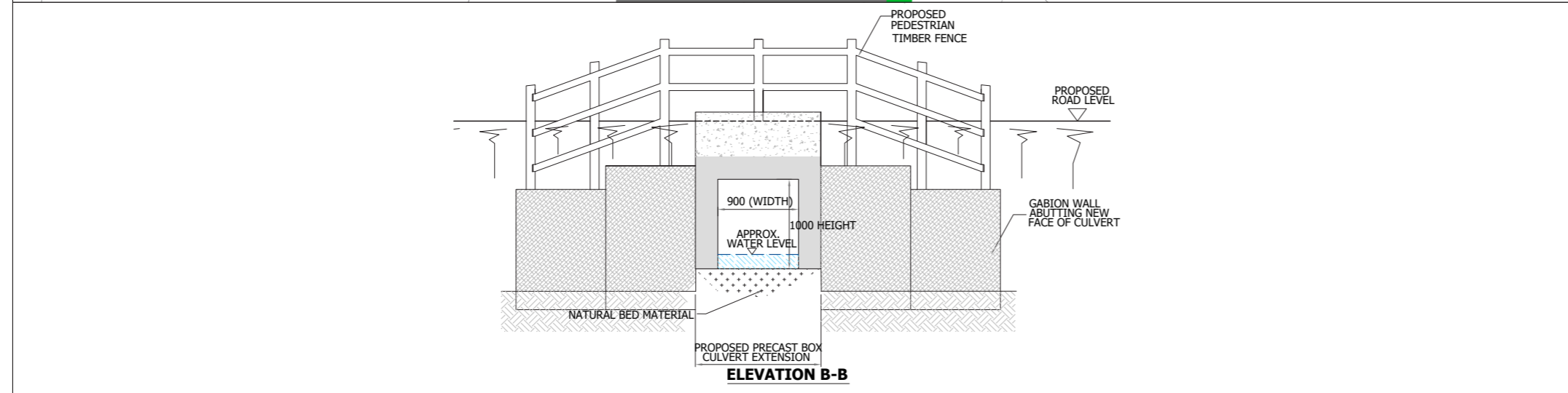


Figure 4.13: Indicative Watercourse Crossing Reinforcement



NOTE:

1. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATION FOR HIGHWAY WORKS AND THE TURBINE MANUFACTURERS STANDARDS AND ALL RELEVANT DRAWINGS WITHIN THE PROJECT DESIGN PACKAGE.
2. ALL WORKS TO BE EXECUTED IN ACCORDANCE WITH THE DMRB, THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, DESIGN MANUAL FOR ROADS AND BRIDGES, AND TRAFFIC SIGNS MANUAL.
3. ALL DIMENSIONS ARE IN METRES UNLESS STATED OTHERWISE. ALL LEVELS ARE IN METRES AND RELATE TO ORDNANCE DATUM.
4. DO NOT SCALE FROM ANY DRAWING. WORK TO FIGURED DIMENSIONS ONLY. ANY DISCREPANCIES IN DIMENSIONS ARE TO BE REFERRED TO THE DESIGNER BEFORE WORK IS PUT TO HAND.
5. ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARING ANY WORKING DRAWINGS OR COMMENCING ON SITE.
6. ALL WORKS BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND SAFETY AT WORK ACT ARE SATISFIED.
7. ALL WORKS ARE TO BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENT OF THE STATUTORY AUTHORITIES AND CONSTRUCTION DESIGN MANAGEMENT REGULATIONS.



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Figure 4.14: Indicative Underground Cabling Installation



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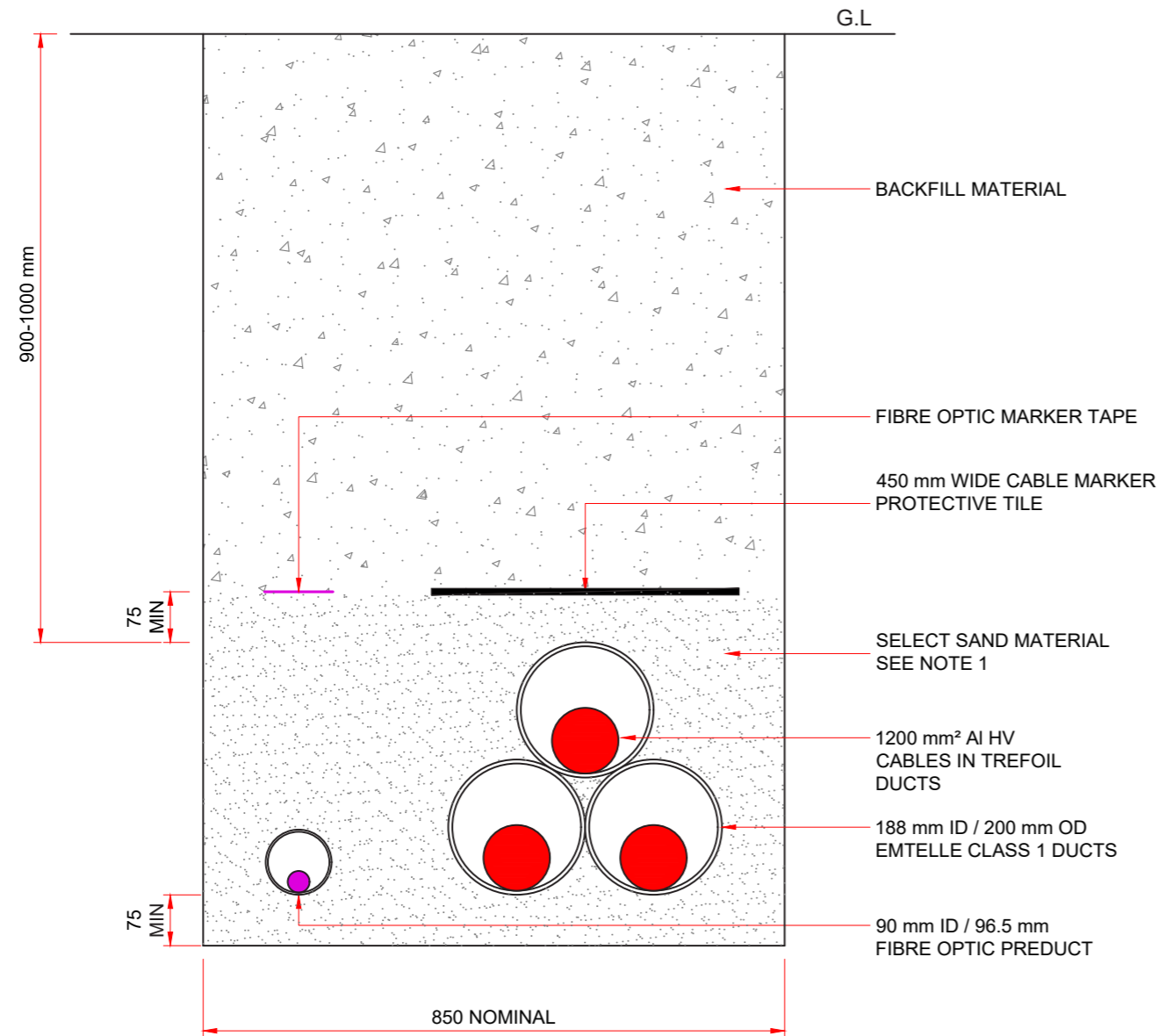




Figure 4.15a: 132 kV Cable Trench Sections (Option A)

NOTES

1. CABLE SURROUND MATERIAL SPECIFIED TO ENA TS 97-1 REQUIREMENTS



132 kV 1200 mm² IN TREFOIL
DUCTS
TRENCH SECTION DETAIL
OPTION A

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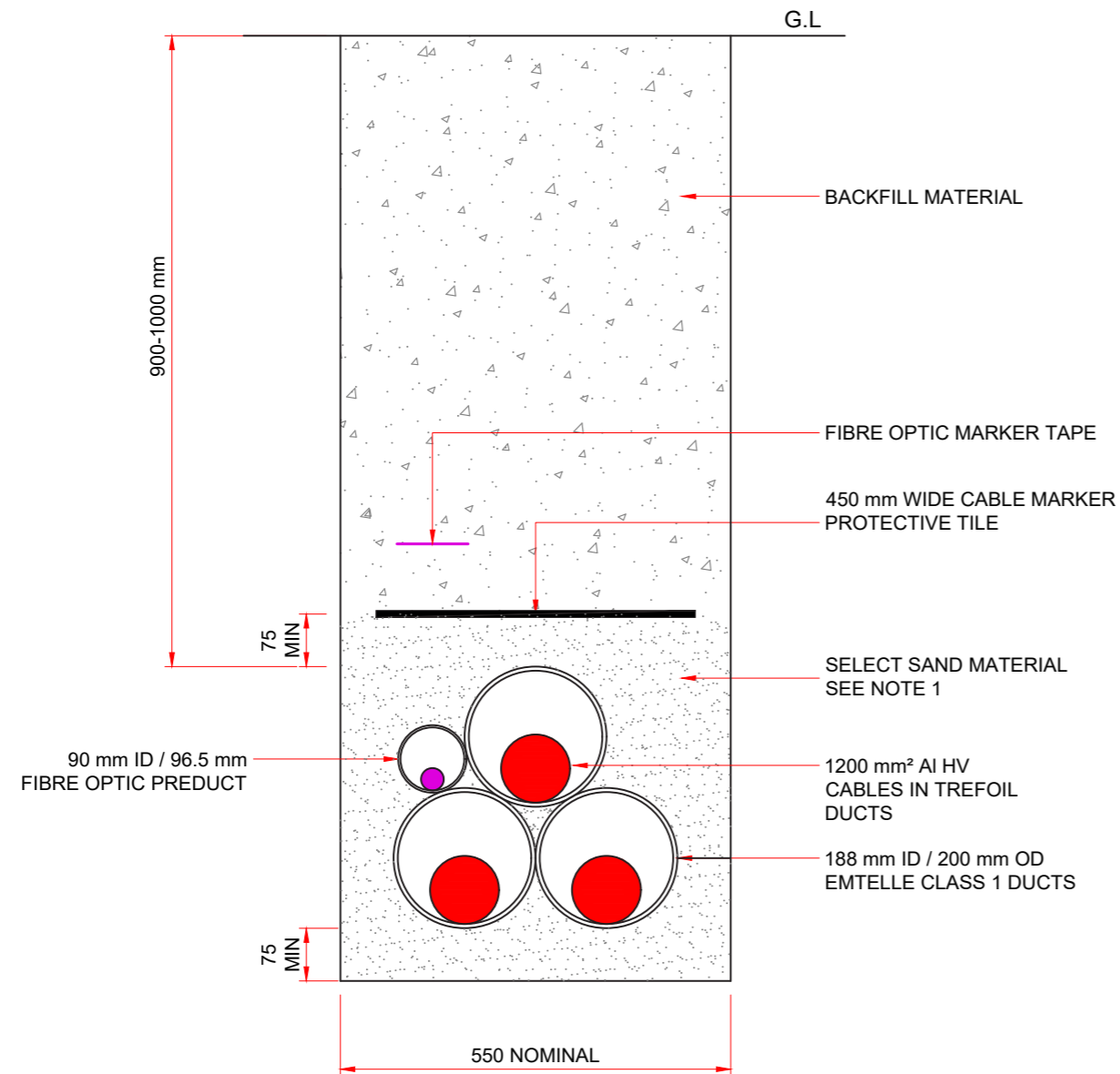




Figure 4.15b: 132 kV Cable Trench Sections (Option B)

NOTES

1. CABLE SURROUND MATERIAL SPECIFIED TO ENA TS 97-1 REQUIREMENTS



**132 kV 1200 mm² IN TREFOIL
DUCTS
TRENCH SECTION DETAIL
OPTION B**

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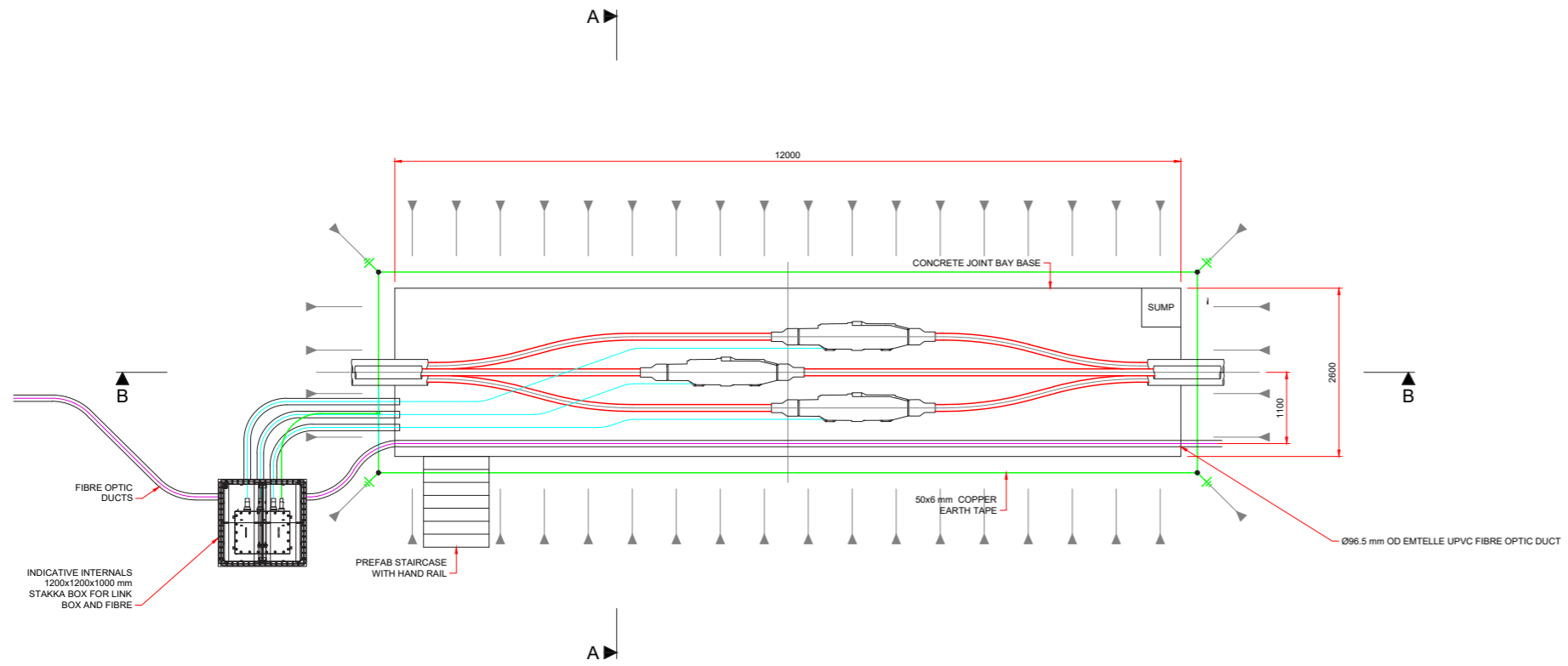


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Figure 4.15c: 132kV Joint Bay Details

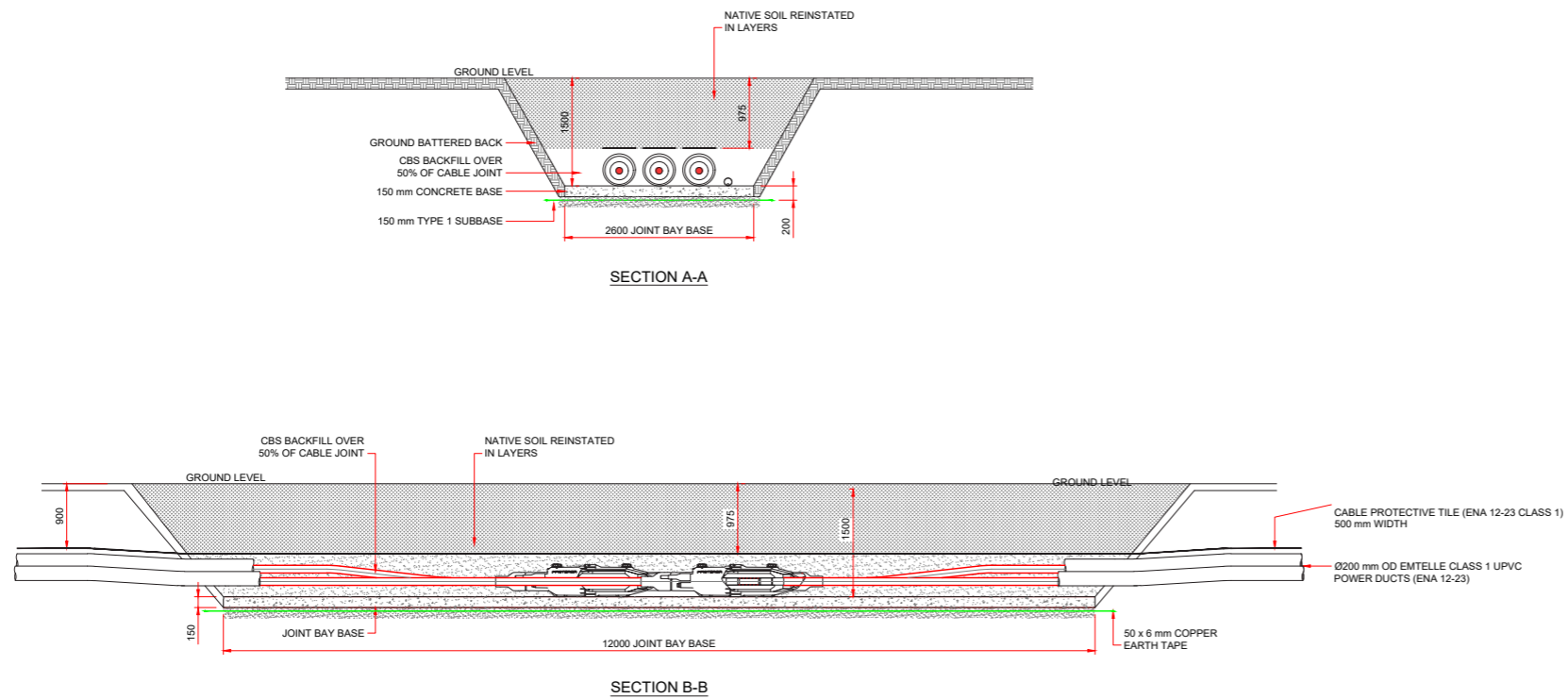


NOTES:

1. JOINT BAY EARTH RESISTANCE TO ACHIEVE BELOW 10 Ω, TBC BY CABLE MANUFACTURER
2. REFER TO CABLE MANUFACTURER CABLE DESIGN REPORT FOR BACKFILL THERMAL CONDUCTIVITY REQUIREMENTS FOR SEPARATION, DEPTH AND THERMAL CONDUCTIVITY OF BACKFILL.
3. 300 mm BARE CU CONDUCTORS TO BE INSTALLED AND CONNECTED TO EACH CORNER OF THE JOINT BAY TO A LENGTH OF 15 m
4. CONDUCTORS TO BE CAD WELD TO THE CORNERS OF THE EXISTING 50x6 mm EARTH MAT.
5. CONDUCTOR TO BE INSTALLED TO A DEPTH OF 600 mm
6. DIMENSIONS ARE INDICATIVE AND CAN BE ALTERED AS PER SPECIFIC REQUIREMENTS.

LEGEND:

- 50x6 mm COPPER EARTH TAPE
- 300 mm² CONCENTRIC BONDING LEADS IN 150 mm ID FLEXIBLE DUCTING
- FIBRE OPTIC CABLE
- EARTH ROD LOCATION



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