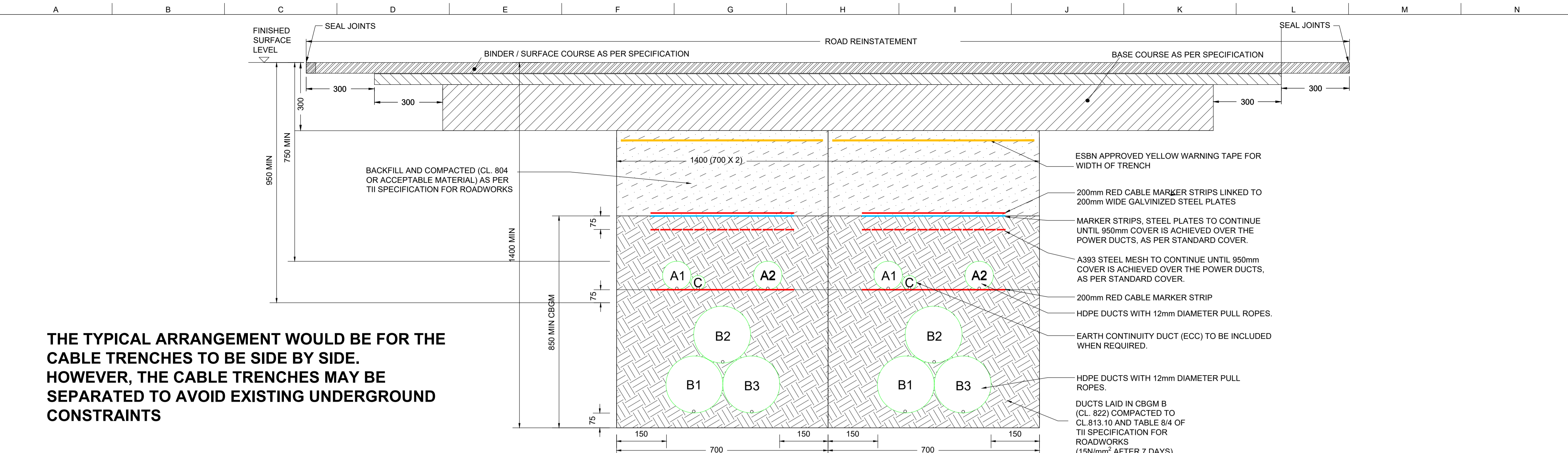
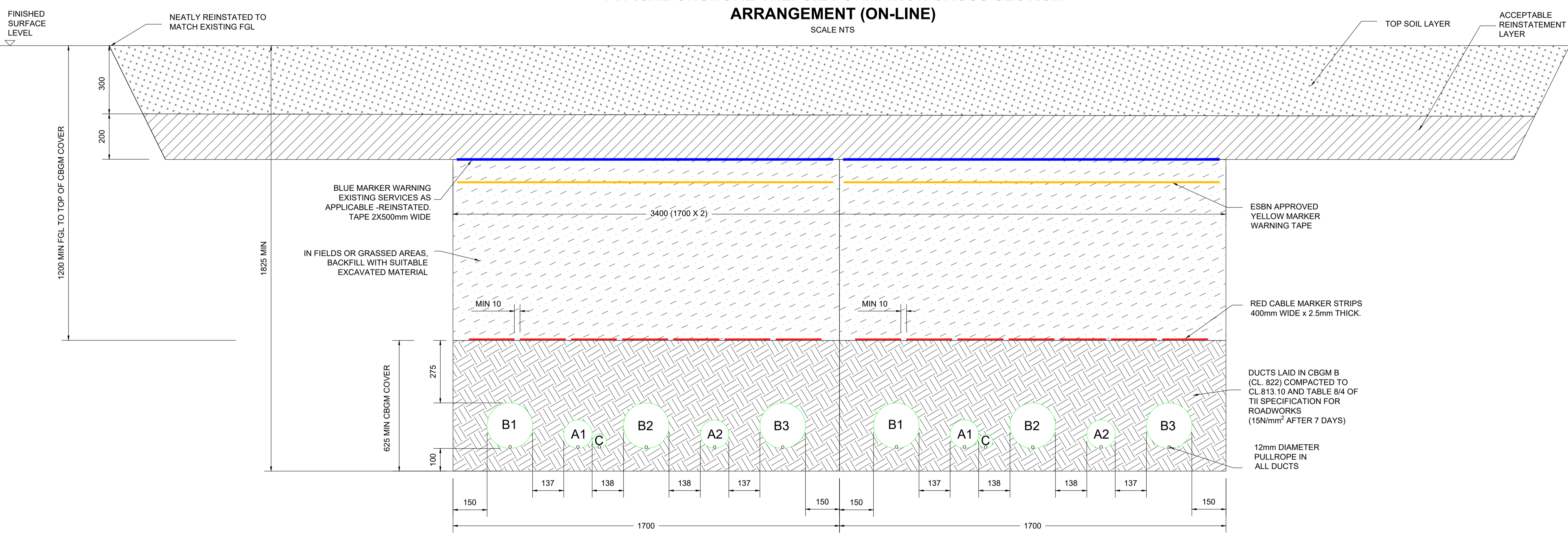


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TYPICAL ONSHORE TREFOIL FORMATION CROSS SECTION ARRANGEMENT (ON-LINE)
SCALE NTS

THE TYPICAL ARRANGEMENT WOULD BE FOR THE CABLE TRENCHES TO BE SIDE BY SIDE. HOWEVER, THE CABLE TRENCHES MAY BE SEPARATED TO AVOID EXISTING UNDERGROUND CONSTRAINTS



TYPICAL ONSHORE FULL FLAT FORMATION CROSS SECTION ARRANGEMENT (OFF-LINE)
SCALE NTS

THE TREFOIL FORMATION CAN ALSO BE UTILIZED OFF-LINE AND THE FULL FLAT FORMATION CAN ALSO BE UTILIZED ON-LINE

- NOTES:
- ALL PRODUCTS AND MATERIALS TO BE UTILIZED DURING CONSTRUCTION TO COMPLY WITH EIRGRID FUNCTIONAL SPECIFICATION, ESNB STANDARDS, TII SPECIFICATION FOR ROAD WORKS, AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
 - 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATERMANS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT EIRGRID AND 3rd PARTY SERVICE OWNERS FOR GUIDANCE.
 - STEEL PLATES MUST COVER DUCTS. NO OVERLAP IS REQUIRED HOWEVER STANDARD DIMENSIONS MAY RESULT IN AN OVERLAP. MAX SPACING OF 10mm TO BE MAINTAINED BETWEEN STEEL PLATES TO PREVENT THE TRANSFER OF STRAY CURRENT.
 - THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
 - TEMPLES ARE TO BE USED AT 3m INTERVALS DURING DUCT INSTALLATION IN CBGM. PRE-MADE 75mm WIDE CONCRETE SPACERS TO BE USED DURING DUCT INSTALLATION IN WET CONCRETE.
 - MINIMUM BURIAL DEPTH IS 450mm.
 - HAND DIG WITHIN 500mm OF EXISTING SERVICE.
 - 75mm MINIMUM SEPARATION IS TO BE MAINTAINED BETWEEN THE COMMUNICATIONS DUCTS AND POWER DUCTS WHEN CHANGING TRENCH FORMATION.
 - EXACT DUCT SPACING AND TRENCH WIDTHS TO BE CONFIRMED FOLLOWING THERMAL CALCULATIONS AND CONSULTATION WITH EIRGRID.

- GENERAL NOTES:
- REFER TO DRAWINGS 281240-ARP-ON-CR-DR-PL-1100 TO 1164 FOR PROPOSED ONSHORE CABLE ROUTE.
 - TYPICAL DETAILS BASED ON EIRGRID FUNCTIONAL SPECIFICATIONS. REFER TO OFD-SSS-526, OFD-SSS-527, OFD-SSS-528, OFD-SSS-528, OFD-SSS-529, OFD-SSS-530, OFD-SSS-531, & OFD-SSS-532.
 - REFER TO DRAWINGS 281240-ARP-ONS-XX-DR-PL-1166 FOR TYPICAL LAYOUT OF HORIZONTAL DIRECTIONAL DRILLING (HDD) COMPOUND.

Rev	Date	By	Chkd	Appd
C01	May 2024	EAM	RM	MD
D00	13.03.24	SB	RM	MD



Client
North Irish Sea Array Windfarm Ltd.
Project Title
North Irish Sea Array Offshore Windfarm



Drawing Title
TYPICAL CABLE TRENCH DETAILS

Scale at A1	AS INDICATED
Role	Civil
Suitability	A2 - Approved for Planning
Arup Job No	281240
Name	281240-ARP-ONS-XX-DR-PL-3000
Rev	C01

Key

A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS, SDR=17.6		RAPID HARDENING WET CONCRETE C25/30
B= 200mm O.D. HDPE DUCT FOR HV CABLE, SDR=21		CBGM B (CL. 822), COMPACTED TO CL 813.10
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR, SDR=17.6		BACKFILL COMPACTED (CL. 804 OR ACCEPTABLE MATERIAL)
		TOP SOIL
		ACCEPTABLE REINSTATEMENT MATERIAL