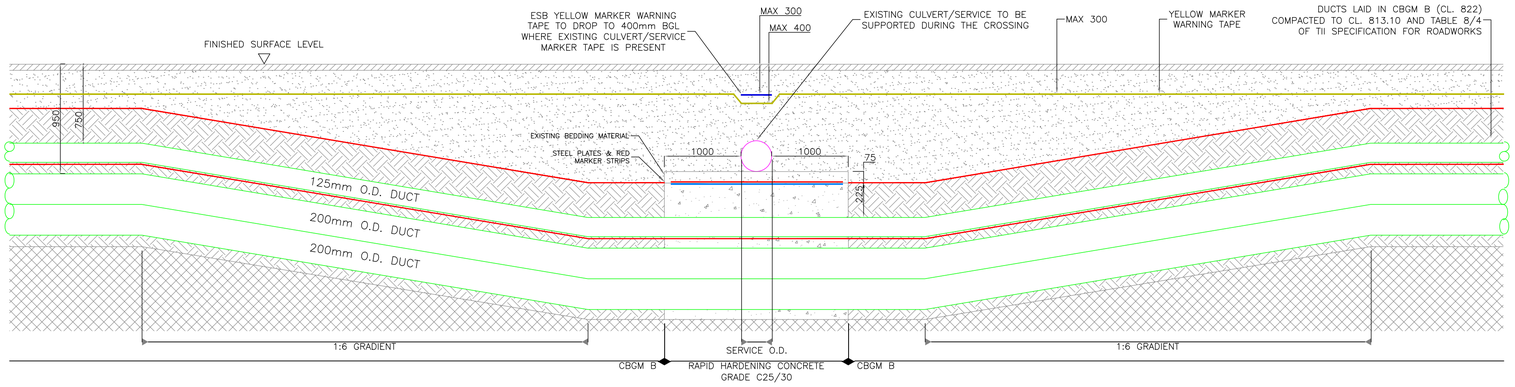
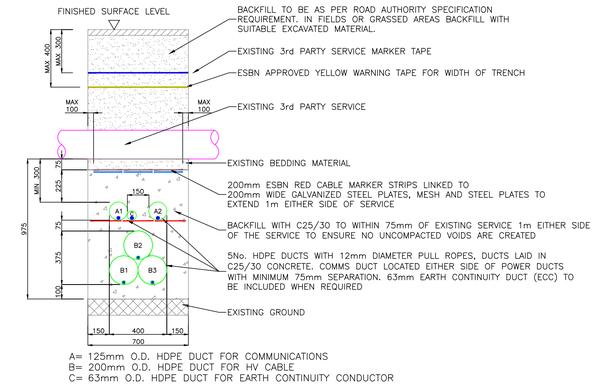
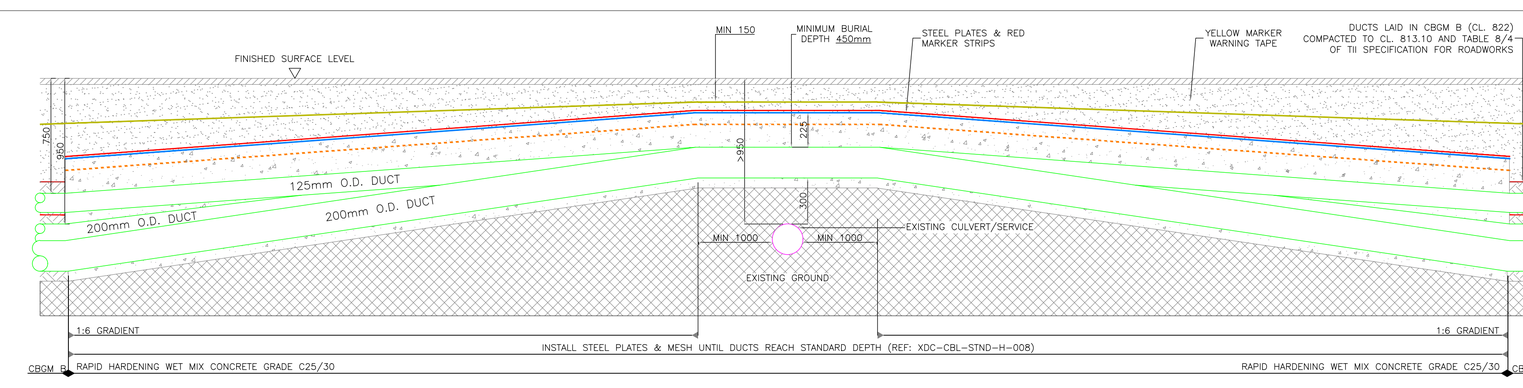


STANDARD 220KV CABLE - STANDARD 3RD PARTY CROSSING 200mm BELOW IN TREFOIL FORMATION

SCALE 1:100

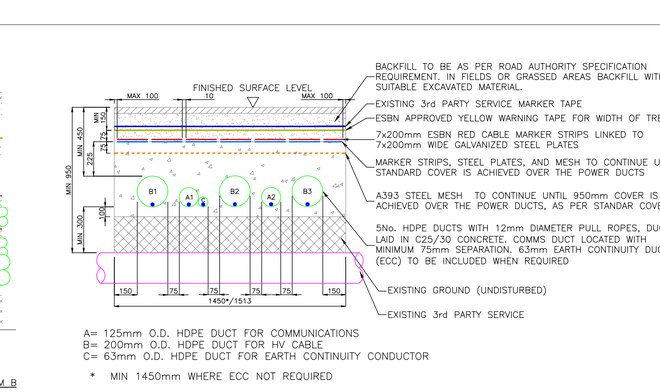


A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 200mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR



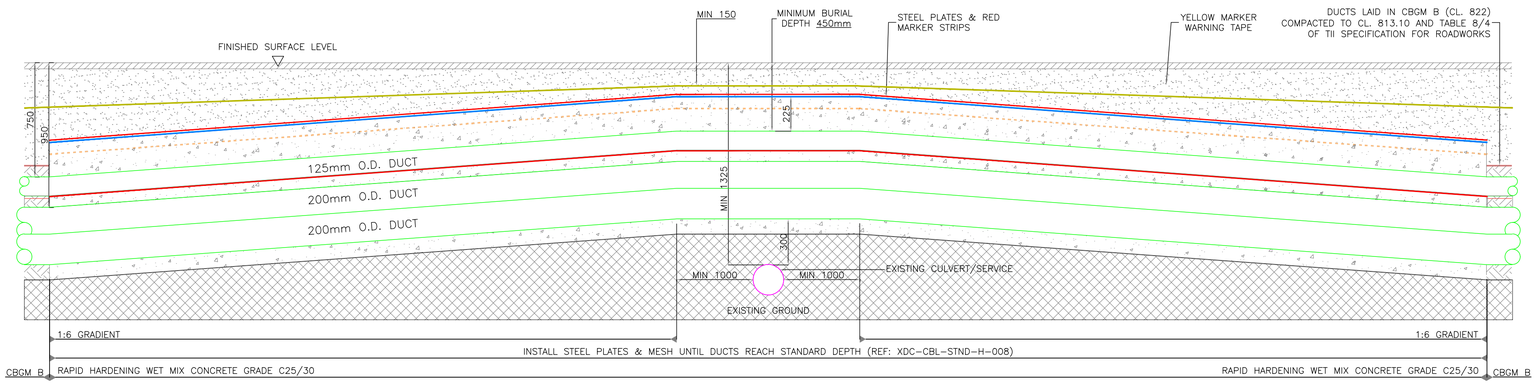
STANDARD 220KV CABLE - STANDARD 3RD PARTY CROSSING 200mm BELOW IN FULL FLAT FORMATION

SCALE 1:100



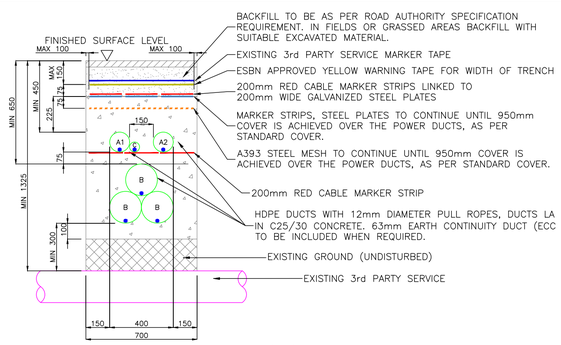
A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 200mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* MIN 1450mm WHERE ECC NOT REQUIRED



STANDARD 220KV CABLE - STANDARD 3RD PARTY CROSSING 200mm ABOVE IN TREFOIL FORMATION 200 OD HV DUCTS

SCALE 1:100



A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 200mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

STANDARD 220KV CABLE - STANDARD 3RD PARTY CROSSING 200mm ABOVE IN FULL FLAT FORMATION 200 OD HV DUCTS

SCALE 1:100

A= 125mm O.D. HDPE DUCT FOR COMMUNICATIONS
B= 200mm O.D. HDPE DUCT FOR HV CABLE
C= 63mm O.D. HDPE DUCT FOR EARTH CONTINUITY CONDUCTOR

* MIN 1450mm WHERE ECC NOT REQUIRED

NOTES:

1. MEASUREMENTS SHOWN ARE IN MM, UNLESS INDICATED OTHERWISE
2. ALL PRODUCTS AND MATERIALS TO BE UTILIZED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH FUNCTIONAL SPECIFICATION, ESBN STANDARDS, TII SPECIFICATION FOR ROAD WORKS AND ALL RELEVANT IRISH (EUROPEAN) AND BRITISH STANDARDS.
3. 300mm MINIMUM VERTICAL AND HORIZONTAL CLEARANCES TO BE OBSERVED BETWEEN CABLE DUCTS AND THIRD PARTY SERVICES (e.g. GAS PIPES, WATER MAINS, CULVERTS, etc.) IN THE CASE OF HIGH RISK 3rd PARTY SERVICES, GREATER CLEARANCES MAY BE REQUIRED. DESIGNER TO CONSULT WITH RELEVANT AUTHORITIES FOR CLEARANCE REQUIRED.
4. 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.
5. THE MINIMUM CLEARANCE BETWEEN ALL HV AND COMMUNICATION DUCTS IS 75mm. (CABLE RATING CALCULATIONS TO BE PROVIDED FOR ACCEPTANCE).
6. THIS DRAWING IS TO BE USED TO AID THE PROJECT SPECIFIC CONSTRUCTION DESIGN PRODUCTION.
7. TEMPLATES 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.
8. MINIMUM SPACING BETWEEN POWER DUCTS TO BE CONFIRMED WITH RATING CALCULATIONS.
9. MAINTAIN 100mm OF EXISTING SERVICE
10. EXISTING SERVICE MARKER TAPE IS NOT PRESENT, THE ESBN YELLOW MARKER TAPE SHOULD BE INSTALLED AT MAXIMUM 300mm BELOW FINISHED SURFACE LEVEL.

LEGEND

- RED MARKER STRIP
- YELLOW MARKER WARNING TAPE
- EXISTING SERVICE MARKER STRIP
- 6mm GALVANISED STEEL PLATE
- ORANGE MARKER A393 STEEL MESH#
- DUCT
- CULVERT
- RAPID HARDENING WET CONCRETE C25/30
- CBGM B (CL. 822), COMPACTED TO CL. 813.10
- BACKFILL TO BE AS PER ROAD AUTHORITY SPECIFICATION REQUIREMENT. IN FIELDS OR GRAS AREAS BACKFILL WITH SUITABLE EXCAVATED MATE
- EXISTING GROUND

PROJECT TITLE: **Ballydermot Wind Farm, Co. Offaly and Co. Kildare**

DRAWING TITLE: **220kV Grid Connection Culvert Crossing**

PROJECT No.:	DRAWING No.:	SCALE:	
250708	250708-43	1: 20	@ A1
DRAWN BY: QO	CHECKED BY: RO	DATE: 23.10.2026	REVISION: P03

Email: info@www.mkoireland.ieWebsite: www.mkoireland.ie