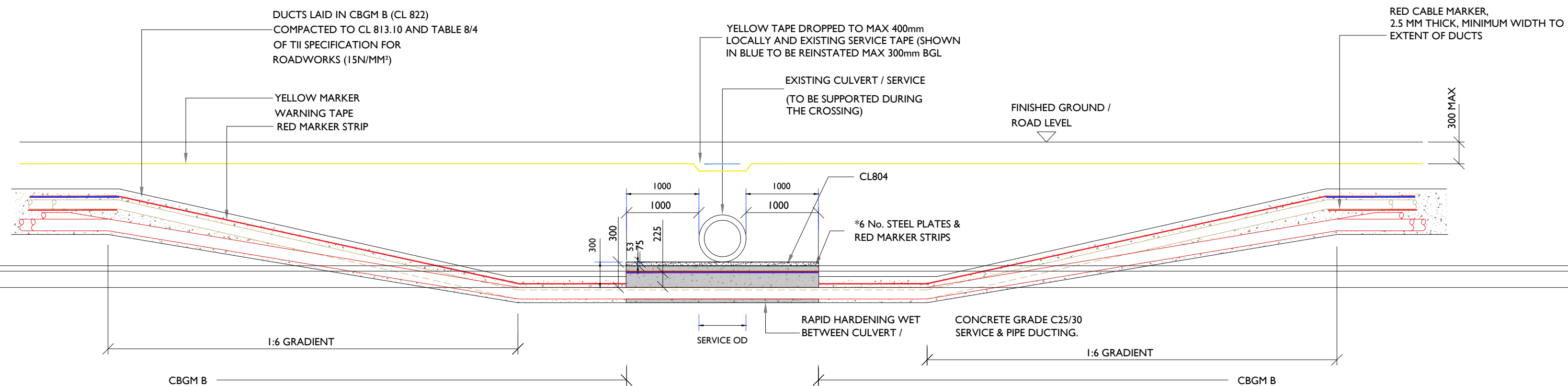
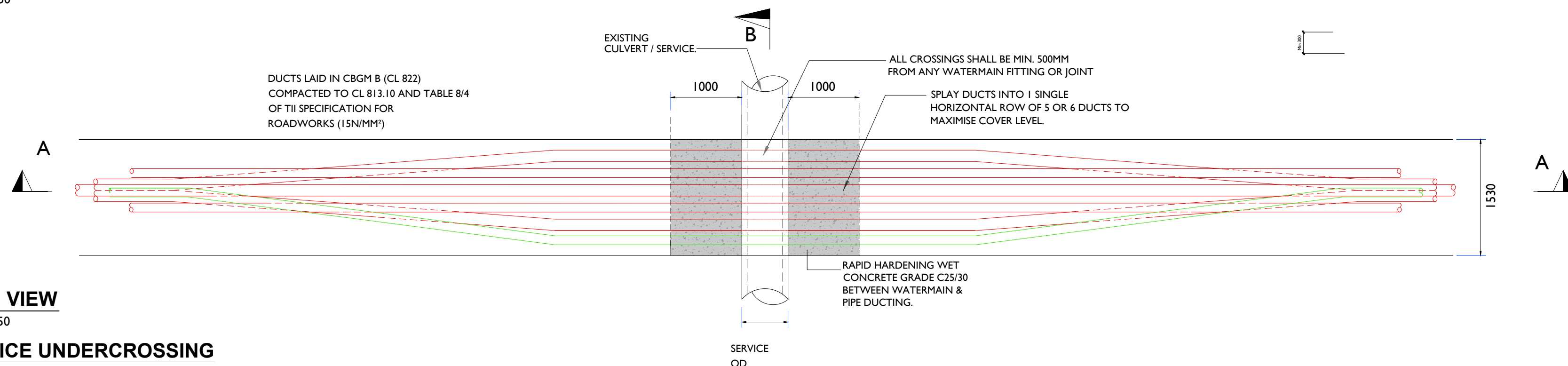




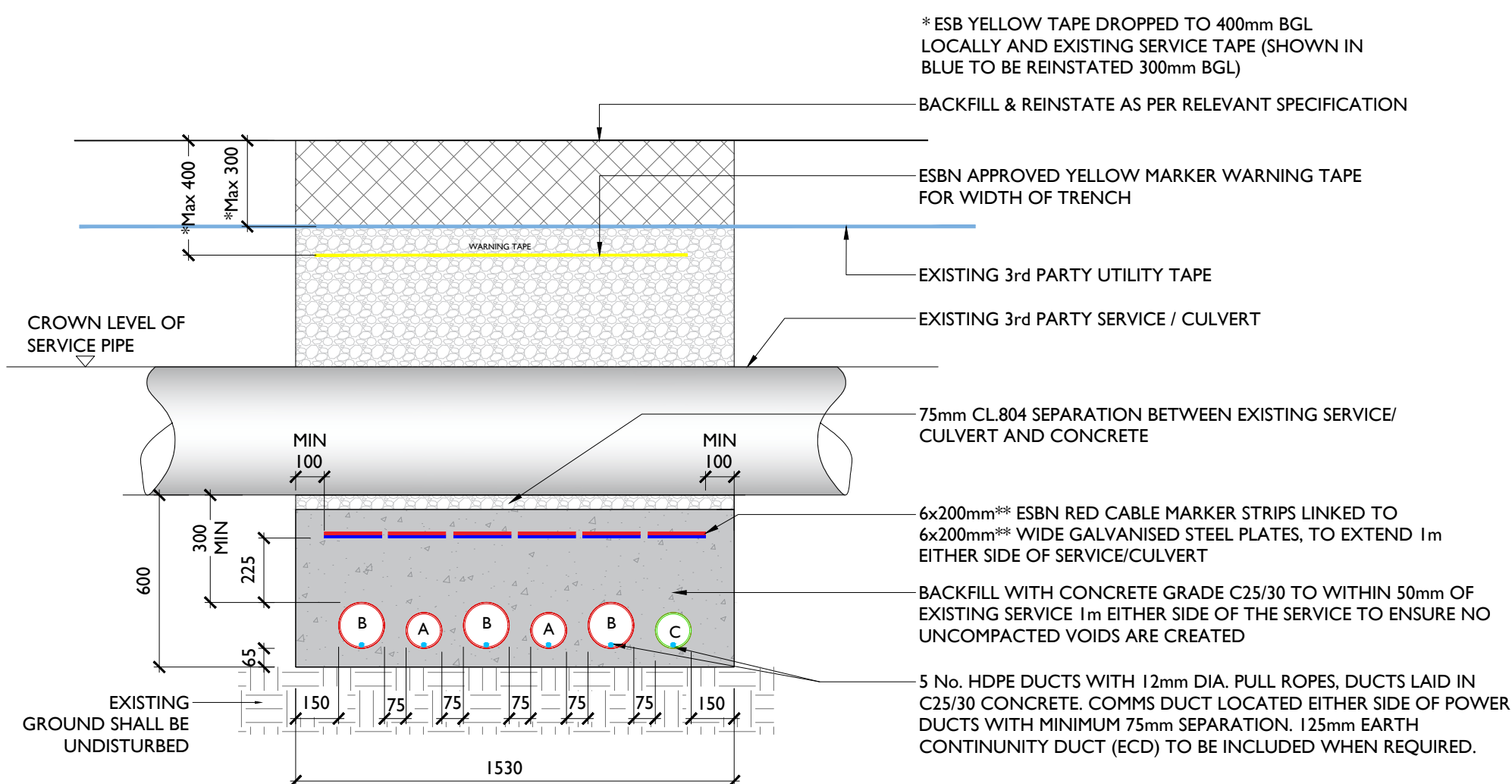
SECTION A-A
SCALE 1:50



PLAN VIEW

SCALE 1:50

SERVICE UNDERCROSSING



SECTION B-B
SCALE: 1:20

* ESB YELLOW TAPE DROPPED TO 400mm BGL
LOCALLY AND EXISTING SERVICE TAPE (SHOWN IN
BLUE TO BE REINSTATED 300mm BGL)

— BACKFILL & REINSTATE AS PER RELEVANT SPECIFICATION

—ESBN APPROVED YELLOW MARKER WARNING TAPE
FOR WIDTH OF TRENCH

— EXISTING 3rd PARTY UTILITY TAPE

—EXISTING 3rd PARTY SERVICE / CULVERT

— 75mm CL.804 SEPARATION BETWEEN EXISTING SERVICE/
CULVERT AND CONCRETE

— 6x200mm** ESBN RED CABLE MARKER STRIPS LINKED TO
6x200mm** WIDE GALVANISED STEEL PLATES, TO EXTEND 1m
EITHER SIDE OF SERVICE/CULVERT

— BACKFILL WITH CONCRETE GRADE C25/30 TO WITHIN 50mm OF EXISTING SERVICE 1m EITHER SIDE OF THE SERVICE TO ENSURE NO UNCOMPACTED VOIDS ARE CREATED

— 5 No. HDPE DUCTS WITH 12mm DIA. PULL ROPES, DUCTS LAID IN C25/30 CONCRETE. COMMS DUCT LOCATED EITHER SIDE OF POWER DUCTS WITH MINIMUM 75mm SEPARATION. 125mm EARTH CONTINUITY DUCT (ECD) TO BE INCLUDED WHEN REQUIRED.

A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
C = 125mm: ECC (EARTH CONTINUITY CONDUCTOR) DUCT.

** 5 x 200mm STEEL PLATES & RED MARKER WHERE ECC IS NOT REQUIRED
 *** MIN 1330 WHERE ECC IS NOT REQUIRED
 **** ALL EXISTING SERVICES WITH COVERS LESS THAN MIN. DIMENSIONS ABOVE
 SHALL BE CROSSED BY UNDERCROSSING METHOD

GENERAL NOTES

1. This drawing is subject to Design approval and is not to be used for construction.
2. This drawing is to be read in conjunction with all other relevant documentation.
3. Do not scale from this drawing use only printed dimensions
4. All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
5. No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
6. Hand dig only within 500mm of existing services.
7. If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
8. For standard trench cross section drawings and minimum horizontal separation to existing services, see 05773-DR-119a (TREFOIL) and 05773-DR-124 (FLAT).
9. Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
10. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
11. **ESB's preference is to cross under existing services where possible.**
12. Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015)
13. The Contractor is responsible for the design and construction of all temporary works. The Contractor shall appoint a temporary works designer, and submit temporary works design to PSDP for review.
14. 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
15. Replace existing service marker tape over Yellow marker tape.
16. The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
17. The Contractor shall record detailed as-built information as per the specification. At all crossing locations these records shall include photographic evidence clearly demonstrating that minimum service clearances and duct separations have been achieved.

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PROJECT

Lissinagroagh Wind Farm 110kV Grid Connection

CLIENT

FuturEnergy Ireland

CONSULTANTS

TOBIN
CONSULTING ENGINEERS

NOTES: -

LEGEND: -

- | | |
|---|--|
|  | 160mm Ø HDPE
POWER DUCT WITH
12mm DIAMETER PULL ROPE |
|  | 125mm Ø HDPE
COMMUNICATION DUCT WITH
12mm DIAMETER PULL ROPE |
|  | 125mm Ø HDPE
EARTH CONTINUITY CONDUCTOR
WITH 12mm DIAMETER PULL ROPE |
|  | RED MARKER STRIP OR
STEEL PLATES |
|  | YELLOW MARKER
WARNING TAPE |
|  | 6mm GALVANISED STEEL
PLATE |
|  | EXISTING SERVICE TAPE |

ISSUE/REVISION

P02	21.04.26	Issued for Planning
P01	20.04.26	Issued for Planning
P00	12.01.26	Issued for Planning
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-773

SHEET TITLE

Crossing through Existing
Culverts/Services Undercrossing

SHEET NUMBER

05773-DR-126