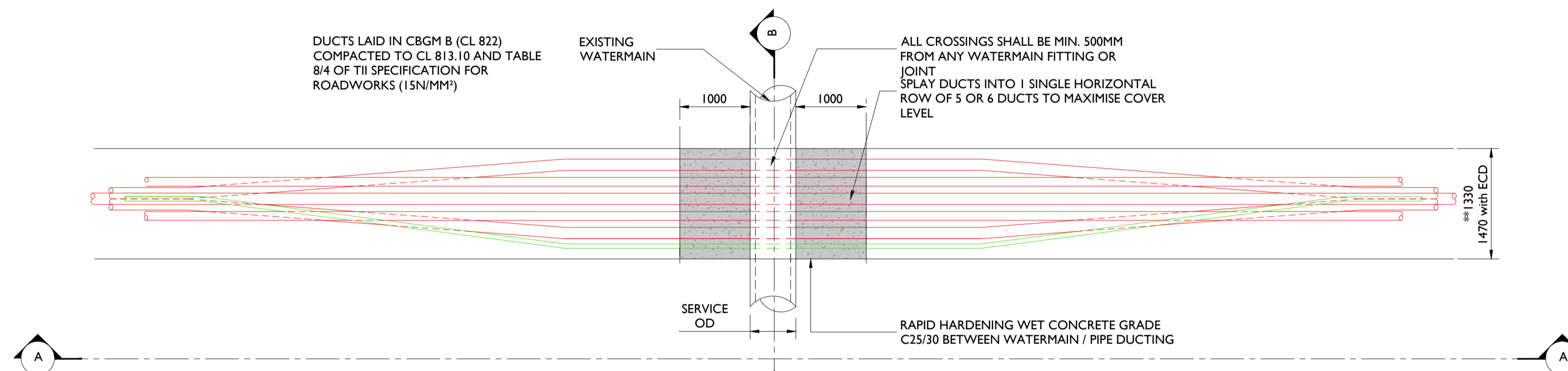


SECTION A-A

SCALE: 1:50

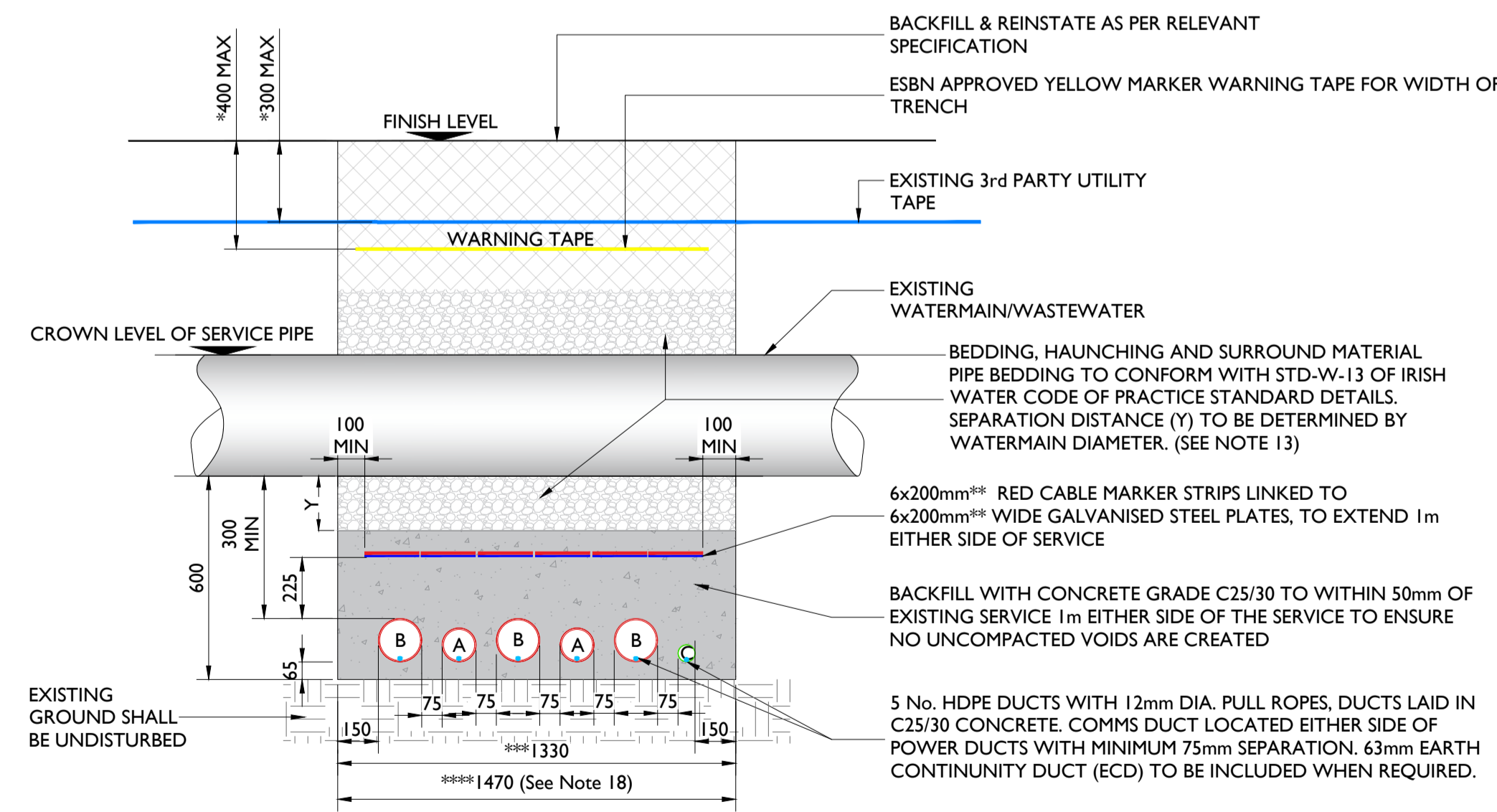


PLAN VIEW - WATERMAIN UNDERCROSSING

SCALE: 1:50

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 300100920-DR-230 (TREFOIL) WHERE DEPTHS EXCEED 2500MM TO THE TOP OF DUCT THE CONTRACTOR SHALL CONSULT THE CABLE SYSTEM DESIGN ENGINEER FOR PHASE SPACING REQUIREMENTS.
9. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015).
10. ESB'S PREFERENCE IS TO CROSS UNDER EXISTING SERVICES WHERE POSSIBLE.
11. BACKFILL AS PER GUIDELINES FOR THE OPENING, BACKFILLING AND REINSTATEMENT OF OPENINGS IN PUBLIC ROADS (2015)
12. 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.
13. AS PER W15 4-08-02 & IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14MM TO 5MM GRADED AGGREGATE OR 10MM SINGLE SIZED AGGREGATE.
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.
18. WHERE DUCT FOR EARTH CONTINUITY CONDUCTOR (ECC) IS REQUIRED FOR SINGLE POINT BONDED SECTIONS, ATTACH THE 63MM ECC DUCT TO THE A DUCT AND UPDATE THE TRENCH WIDTH ACCORDINGLY.



- ** 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

SECTION B-B

SCALE: 1:20

- A = 125mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 17.6 (COMMS)
- B = 160mm: OUTER DIAMETER HDPE APPROVED DUCT, SDR = 21.0 (POWER)
- C = 63mm: ECC (EARTH CONTINUITY CONDUCTOR) DUCT.

EXISTING WATERMAIN Ø	Y (mm)
<=300	300
>300	500

PROJECT

**Coom Green Energy Park
 110kV Grid Connection**

CLIENT

**Coom Green Energy
 Park Limited**

CONSULTANTS



NOTES: -

- This drawing is to be read in conjunction with relevant engineering drawings, specifications and reports.
- Dimensions are in millimeters, & coordinate system is ITM, unless noted otherwise.
- Drawings are not to be scaled use figured dimensions only.

LEGEND: -

- 160mm Ø HDPE POWER DUCT WITH 12mm DIAMETER PULL ROPE
- 125mm Ø HDPE COMMUNICATION DUCT WITH 12mm DIAMETER PULL ROPE
- 63mm 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

NO	DATE	DESCRIPTION
P2	13.03.26	Issued for Planning
P1	29.10.25	Issued for Planning
N1	02.04.25	Issued for Review
I/R	DATE	DESCRIPTION

PROJECT NUMBER

300-100920

SHEET TITLE

Trench Sections For Undercrossing
 Existing Watermain / Wastewater

SHEET NUMBER

300100920-DR-235

ISSUED FOR PLANNING
13.03.2026