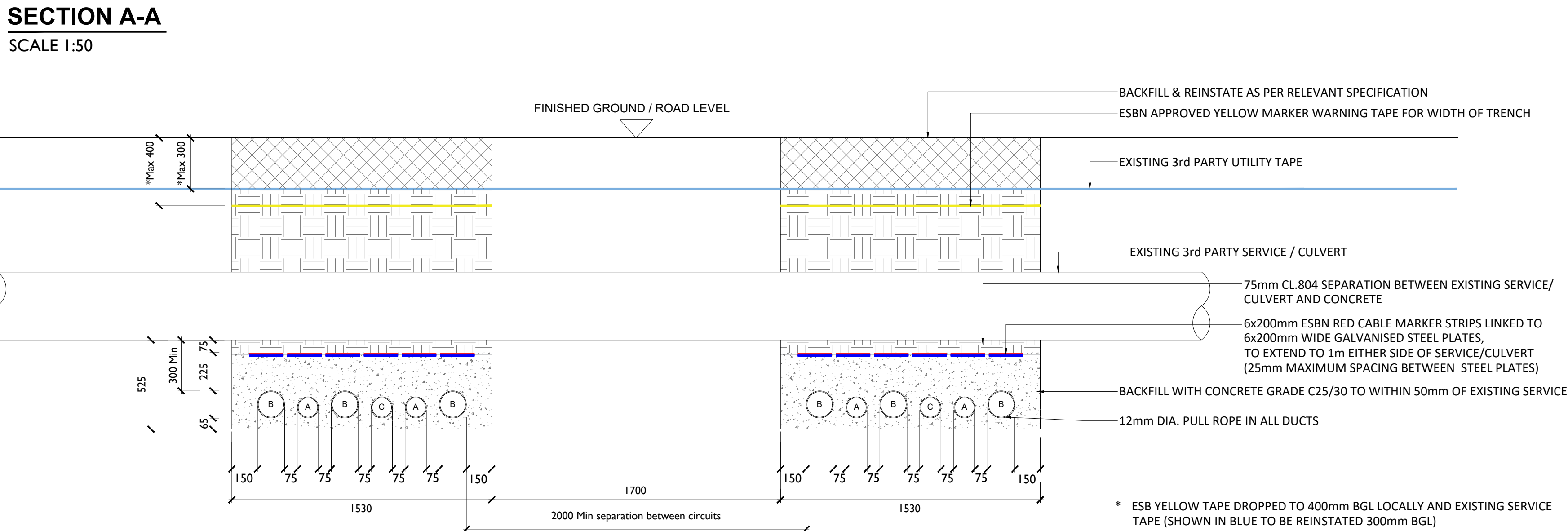
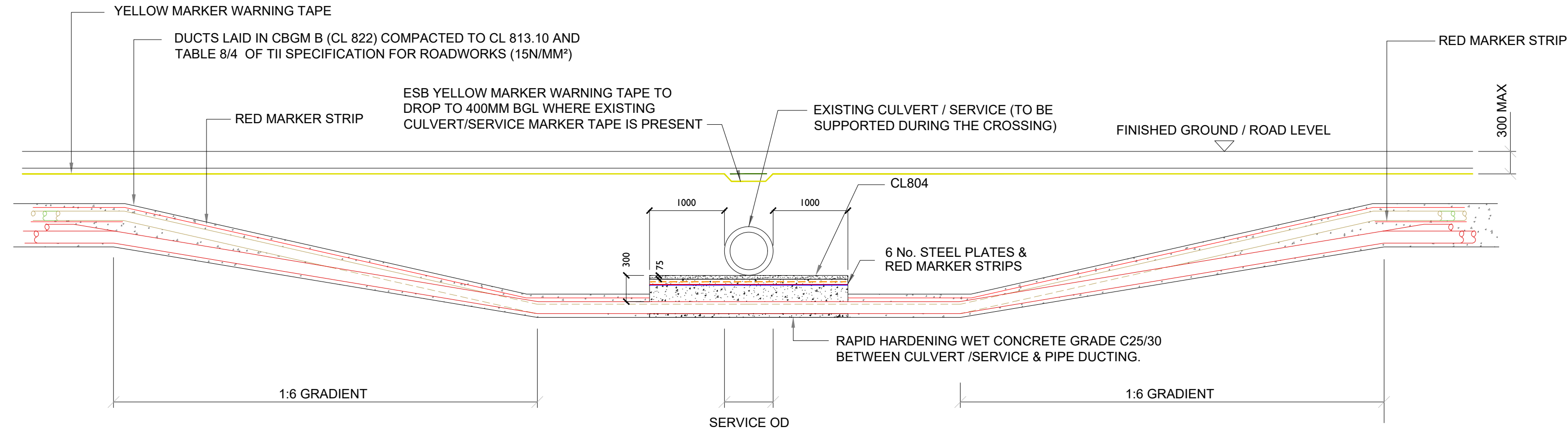
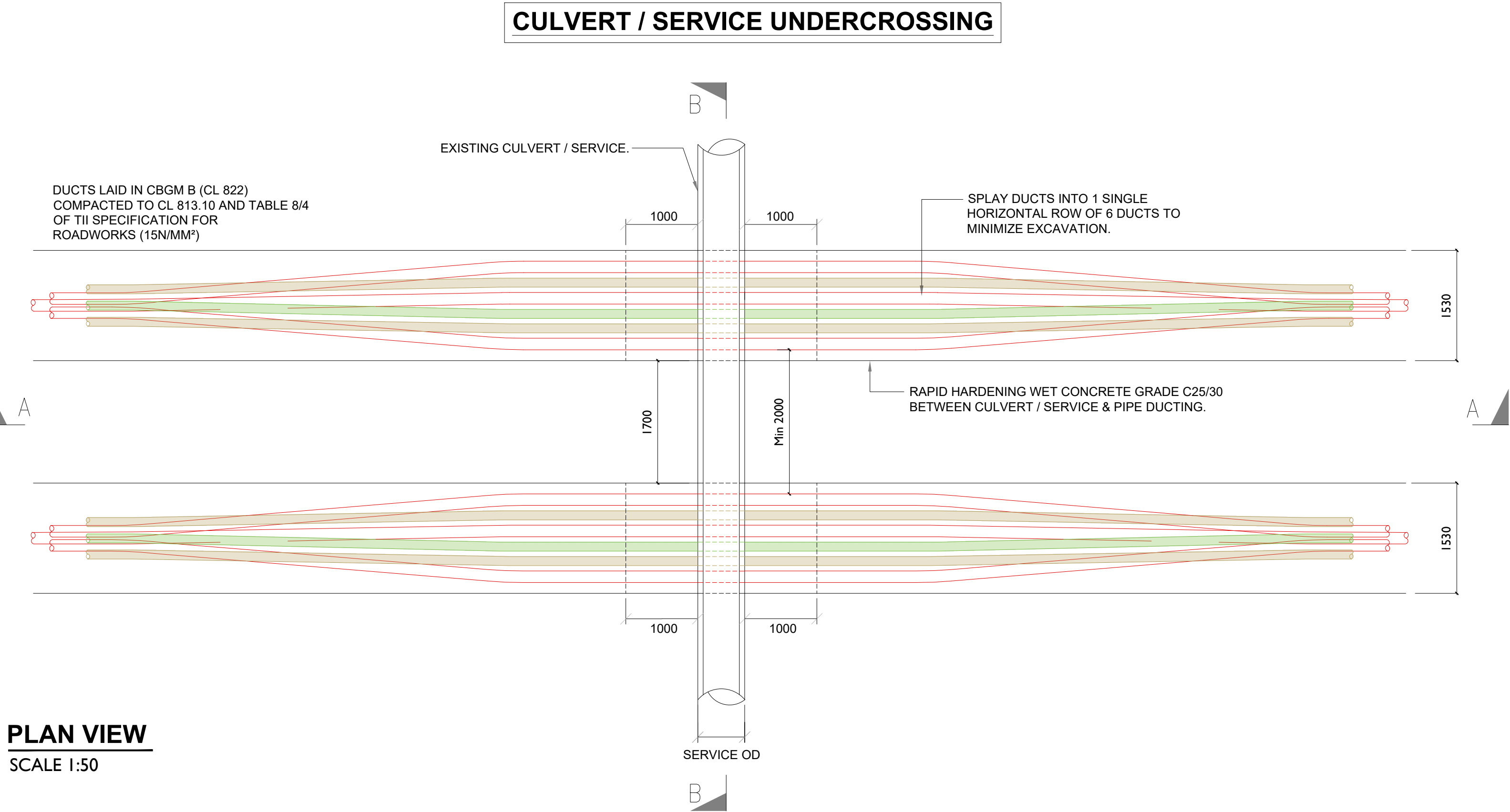


ISO A1 594mm x 841mm

Project Management Initials: Designer: LP Checked: BR Approved: AC



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

A = 125mm OUTER DIAMETER HDPE ESB APPROVED COMMS DUCT, SDR=17.6
B = 160mm OUTER DIAMETER HDPE ESB APPROVED POWER DUCT, SDR= 21
C = 125mm: Outer Diameter HDPE ESB Approved Duct, SDR=17.6 (Power)
Duct to be used for Earth Continuity Conductor (ECC), all dimensions in millimeters

- GENERAL NOTES**
- This drawing is subject to ESB design approval and is not to be used for construction.
 - This drawing is to be read in conjunction with all other relevant documentation.
 - Do not scale from this drawing use only printed dimensions
 - All dimensions are in millimetres, all chainages, levels and co-ordinates are in metres unless defined otherwise.
 - No excavation shall commence until the Contractor has consulted up to date services drawings and carried out an Electromagnetic Locator (EML) Scan.
 - Hand dig only within 500mm of existing services.
 - If compacting CBGM B could cause damage to the culvert / service below, use rapid hardening cement grade C25/30 following engineers prior approval.
 - For standard trench cross section drawings and minimum horizontal separation to existing services, see 051021-DR-121 (TREFOIL) Where depths exceed 2500mm to the top of duct the Contractor shall consult the cable system design engineer for phase spacing requirements.
 - Backfill as per guidelines for the opening, backfilling and reinstatement of openings in public roads (2015).
 - ESB's preference is to cross under existing services where possible.**
 - 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.
 - 225mm minimum concrete over ducts where they transition from standard cross section and where they are at less than standard cover to ground level.
 - Replace existing service marker tape over ESB yellow marker tape.
 - The owner of the existing utility being crossed must be consulted in advance of works commencing as per their guidelines.
 - 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.

tli GROUP

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PROJECT

Shancloon 110kV Substation

CLIENT

RWE

CONSULTANTS

NOTES: -

- See notes in drawing window

- 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 12mm DIAMETER PULL ROPE
 - RED MARKER STRIP OR STEEL PLATES
 - YELLOW MARKER WARNING TAPE
 - 6mm GALVANISED STEEL PLATE
 - EXISTING SERVICE TAPE

ISSUE/REVISION		
P00	18.10.24	Issued for Planning
N0	12.04.24	Issued for Information
I/R	DATE	DESCRIPTION

PROJECT NUMBER

05-1021

SHEET TITLE

Typical Trench Sections for Crossing Under Existing Culverts/Services

SHEET NUMBER

051021-DR-117