



TRACK WIDTH AS SPECIFIED

MINIMUM C/C SEPARATION SPECIFIED BY ELECTRICAL CALCULATION

MIN. 50mm THICK CLASS 6F2 OR SIMILAR APPROVED ON MIN. 350mm THICK QUARRY RUN

ACCESS TRACK DETAIL SUPERIMPOSED FOR CONTEXT; REFER TO DRG. 2441 FOR FULL DETAILS.

YELLOW MARKER WARNING TAPE: 500mm WIDE, ESB CODE: 2955092

UGMA (CL. 804 MATERIAL) BACKFILLED IN 150mm LAYERS AND COMPACTED IN ACCORDANCE WITH CL. 802

2 x 200mm WIDE RED CABLE MARKER STRIPS x 2.5mm THK.; ESB CODE: 2955101

PEAT DEPTH VARIES

1 x 400mm WIDE RED CABLE MARKER STRIP x 2.5mm THK.; ESB CODE: 2955103

CBGM B (CL 822), FULL TESTS REQUIRED. (15N/mm² AFTER 7 DAYS); COMPACTED TO CL.813.10 AND TABLE 8/4 OF TII SPECIFICATION FOR ROADWORKS (15N/MM² AFTER 7 DAYS)

95mm² CU STRANDED ELECTRODE IN 150mm MIN SURROUND OF SOIL

BASE OF PEAT (SOLID FORMATION LEVEL)

40/40 COMBI-GRID

TRENCH MAKEUP, ANNOTATION AND DIMENSIONS TYPICAL FOR BOTH SIDES OF THIS ARRANGEMENT, EXCEPT FOR THE COUNTERPOISE OF '95MM² CU STRANDED ELECTRODE IN 150MM MIN SURROUND OF SOIL' WHICH ONLY APPLIES TO CIRCUIT B (RHS).

IF PEAT IS PRESENT BENEATH THE PROPOSED CABLE TRENCH. FIRSTLY PROBE THE BOTTOM OF THE CABLE TRENCH IN LINE WITH BEST PRACTICE WITH FOLLOW UP WORKS CARRIED OUT WHICH INCLUDE BUT MAY NOT BE LIMITED TO: REMOVE PEAT LAYER TO STABLE FORMATION GROUND, REPLACE WITH WET LEANMIX CONCRETE, CONTINUE DUCT/TRENCH INSTALLATION. CONTACT ENGINEER IF DEPTHS GREATER THAN 2.5m FROM EXISTING ROAD LEVEL IS OBSERVED.

CIRCUIT A

CIRCUIT B

A = 125mm OUTER DIAMETER HDPE ESB APPROVED DUCT WITH 12mm DIAMETER PULL ROPES, SDR = 17.6, ESB CODE: 9317553
 B = 160mm OUTER DIAMETER HDPE ESB APPROVED DUCT WITH 12mm DIAMETER PULL ROPES, SDR = 21, ESB CODE: 9317709
 C = 63mm OUTER DIAMETER HDPE ESB APPROVED DUCT WITH 12mm DIAMETER PULL ROPES

TYPICAL DOUBLE 110kV CIRCUIT CABLE TRENCH

IN AREAS WITH PEAT UP TO 2m

SCALE 1:20

- NOTES:**
1. MARKER POSTS AS PER ESB NETWORKS SPECIFICATIONS TO BE PLACES AT EVERY WATER COURSE / CABLE CROSSINGS.
 2. TEMPLATES ARE TO BE USED TO MAINTAIN STANDARD TRENCH ARRANGEMENT WHEN LAYING THE DUCTS. 2 TEMPLATES TO BE USED EVERY 6m.
 3. A MINIMUM CLEARANCE OF 300mm FROM OUTERMOST POWER DUCT EDGE TO OTHER NORMAL SERVICE SHALL BE STRICTLY OBSERVED. A CLEARANCE OF 600mm FROM OUTER MOST POWER DUCT EDGE TO TRANSMISSION HIGH PRESSURE INFRASTRUCTURE SERVICES SHALL BE OBSERVED.
 4. ENSURE THAT THERE IS A MINIMUM HORIZONTAL DISTANCE OF 500mm FROM THE EDGE OF THE CABLE TRENCH TO BOTTOM OF AN EXISTING EMBANKMENT.
 5. ENSURE THAT THERE IS A MINIMUM HORIZONTAL DISTANCE OF 1000mm FROM THE EDGE OF THE CABLE TRENCH TO THE EDGE OF AN EXISTING ROADSIDE DRAIN.

P02	03.09.2024	ISSUED FOR INFORMATION	S.S.	I.B.	
P01	16.05.2024	ISSUED FOR INFORMATION	D.C.	I.B.	
REV	DATE	DESCRIPTION	BY	APP	
CLIENT					
NORTH KILDARE WF LTD					

MWP
 ENGINEERING AND ENVIRONMENTAL CONSULTANTS
 CORK | TRALEE | LONDON | LIMERICK
 mwp.ie

PROJECT:
DREHID SUBSTATION

TITLE:
DOUBLE 110kV CIRCUIT, TREFOIL DUCTS ARRANGEMENT, SECTION FOR PEAT LESS THAN 2m DEEP

DRAWN: S.M.	CHECKED: D.C.	APPROVED: I.B.
PROJECT NUMBER: 23727	DATE: MAY 2024	SCALE @ A3: 1:20
STATUS DESCRIPTION FOR INFORMATION		STATUS: S2
DRAWING NUMBER: 23727 - MWP -GR- 00 -DR-C- 2421		REV: P02