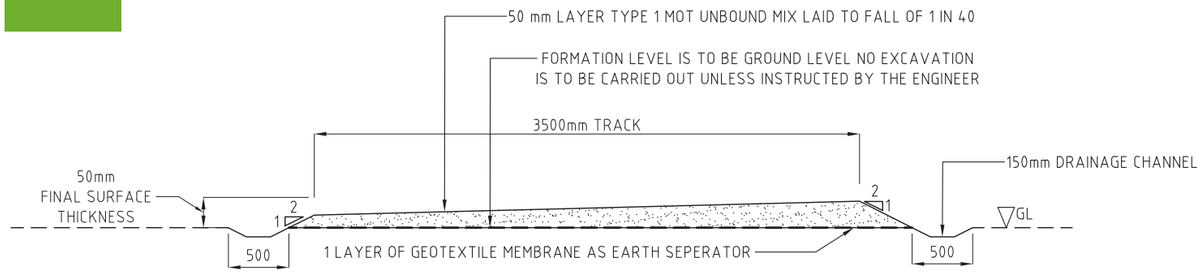
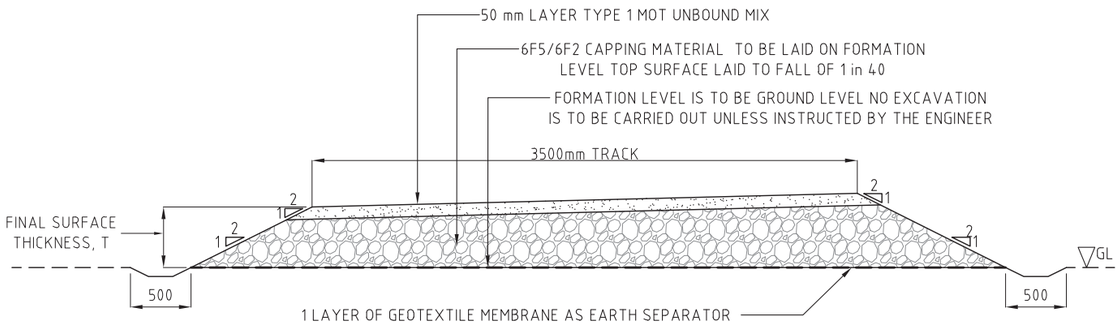
Scottish & Southern Electricity Networks

TRANSMISSION

LUC



DETAIL 1:
TYPICAL SECTION THROUGH FLOATING ACCESS TRACK IF SUBGRADE CBR VALUE IS GREATER THAN 10



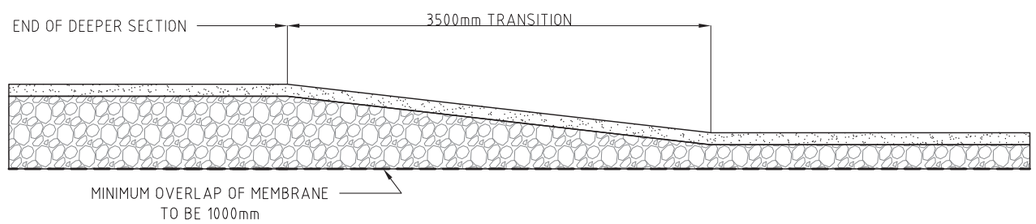
DETAIL 2:
TYPICAL SECTION THROUGH FLOATING ACCESS TRACK

TABLE 1 ACCESS TRACK THICKNESS DESIGN			
SUB-GRADE CBR VALUE	DCP (mm/blow)	TOTAL THICKNESS (T)	DETAIL No.
BETWEEN 1.5 TO 2.5	150 > DCP > 92 _	400mm	2
BETWEEN 2.5 TO 3.5	92 > DCP > 68 _	300mm	
BETWEEN 3.5 TO 5	68 > DCP > 48 _	200mm	
BETWEEN 5 TO 10	48 > DCP > 26 _	100mm	
GREATER THAN 10	DCP < 25	SURFACE GRADING & 50mm STONE WEARING COURSE ONLY	1

MAXIMUM PERMISSIBLE LAYER STIFFNESS IS CONSIDERED 100MPa
DCP = DYNAMIC CONE PENETROMETER READING

NOTES:

1. DCP TO BE CARRIED-OUT ALONG THE TRACK AT EVERY 100M INTERVAL.
2. FOR ACCESS TRACK WITH SPAN LESS THAN 100M, A MINIMUM OF 2NO. DCP TEST BE CARRIED-OUT, IDEALLY AT EACH END.
3. DESIGN OFFICE TO BE CONSULTED WHEN SITE IS ENVIRONMENTALLY RESTRICTED SUCH AS SSSI, RAMSAR, AND WHEN DCP READING EXCEEDS 150MM/BLOW.



TYPICAL TRANSITION BETWEEN FLOATING TRACKS OF DIFFERENT DEPTHS

Project No: LT455
Project: Kintore to Tealing 400 kV Overhead Line

Title:

Typical Access Track Cross Sections (Indicative)

Drawn by: MS Date: 18/03/2025

Drawing: 3.6.1

Scottish & Southern Electricity Networks

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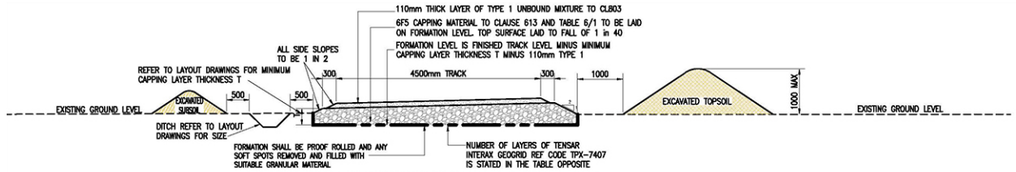
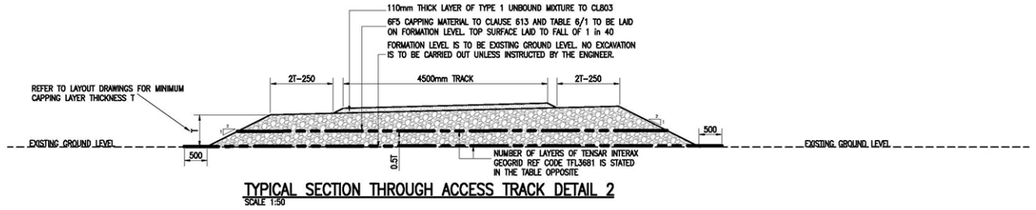


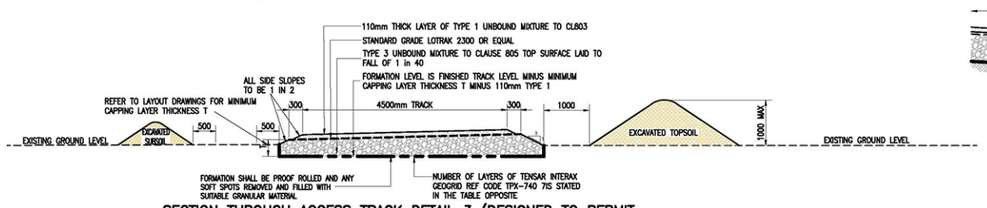
TYPICAL SECTION THROUGH ACCESS TRACK DETAIL 1

SCALE 1:50



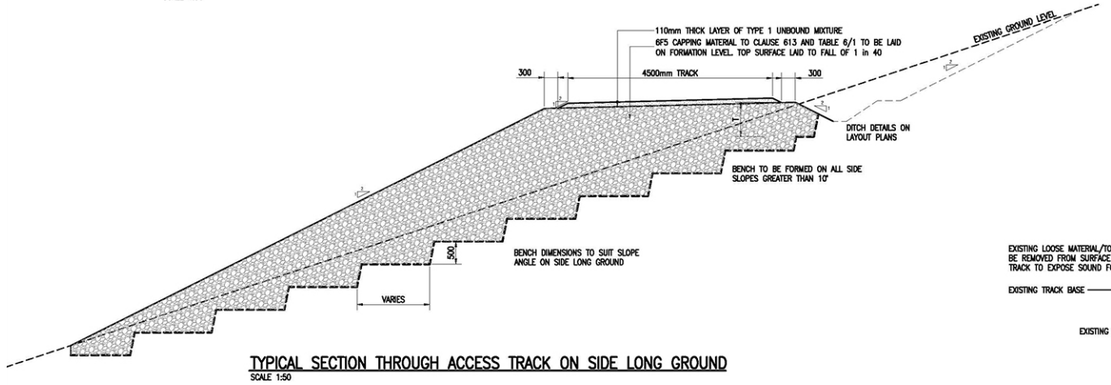
TYPICAL SECTION THROUGH ACCESS TRACK DETAIL 2

SCALE 1:50



SECTION THROUGH ACCESS TRACK DETAIL 3 (DESIGNED TO PERMIT GROUND WATER TO FLOW BELOW ACCESS TRACK FOR GWDTE AREAS

SCALE 1:50



TYPICAL SECTION THROUGH ACCESS TRACK ON SIDE LONG GROUND

SCALE 1:50

CBR VALUE	SUBGRADE SURFACE MODULUS (MPa)	TRACK TYPE	CRANE 16.5t AXLE LOADS			TENSAR INTERAX GEOGRID REF CODE	LOTRAK STANDARD GRADE 2300
			STABILISED DEPTH T (mm)	NUMBER OF GEOGRID LAYERS	NON-STABILISED DEPTH T (mm)		
0.5	11	2	900	3	1670	TQH-9687	
1.0	18	2	345	1	910	TQH-9687	
1.5	23	2	295	1	710	TQH-9687	
2.0	27	1	300	1	670	TFY-0722	
2.5	32	1	270	1	635	TFY-0722	
3.0	36	1	245	1	605	TFY-0722	
4.0	43	1	225	1	540	TFY-0722	
5.0	49	1	225	1	470	TFY-0722	
6.0	55	1	225	1	380	TFY-0722	
7.0	61	1	225	1	290	TFY-0722	
8.0	67	1	225	n/a	225		Y
9.0	72	1	225	n/a	225		Y
10.0	77	1	225	n/a	225		Y

IF DEPTH OF TOPSOIL IS GREATER THAN THE DEPTH OF MATERIAL T THE THICKNESS IS TO BE INCREASED TO MATCH THE DEPTH OF TOPSOIL

ALL TRACKS HAVE A 110mm THICK LAYER OF TYPE 1 UNBOUND MIXTURE TO CL 803 RUNNING SURFACE

ALL TRACKS OVER AREAS OF PEAT TO BE TYPE 2

CALCULATED USING TENSAR'S HEAVY HAUL ROAD SOFTWARE

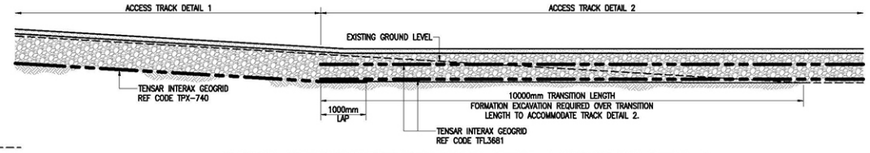
CLAY SOIL WITH A LOW PLASTICITY

VEHICLES ASSESSED

CRANE 150t WITH FIVE AXLES 16.5t PER AXLE

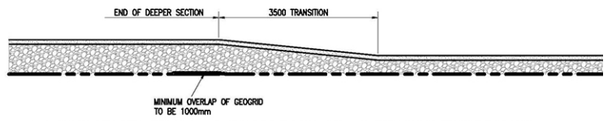
30t LORRY

6m³ CONCRETE MIXER



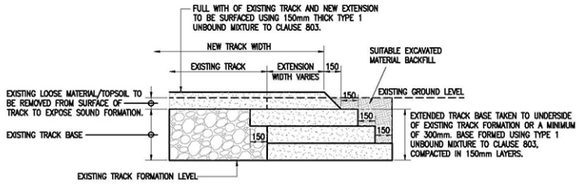
TYPICAL TRANSITION BETWEEN TRACK DETAIL 1 AND TRACK DETAIL 2

SCALE 1:50



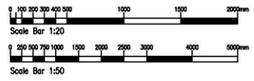
TYPICAL TRANSITION BETWEEN TRACK DETAIL 1 OF DIFFERENT DEPTHS

SCALE 1:50



TYPICAL DETAIL THROUGH TRACK WIDENING

SCALE 1:20



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Project: Kintore to Tealing 400 kV Overhead Line

Title:

Typical Access Track
Cross Sections (indicative)

Drawn by: MS Date: 18/03/2025

Drawing: 3.6.2