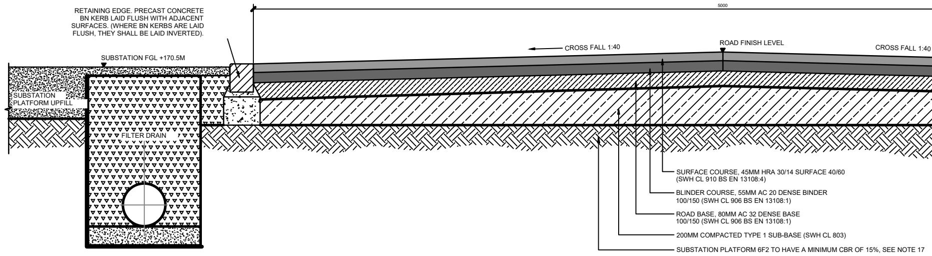


ASPHALT ROAD CROSS SECTION
1 : 10

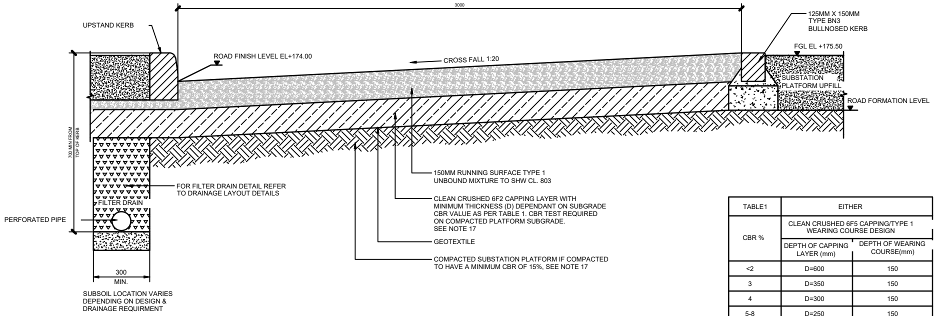
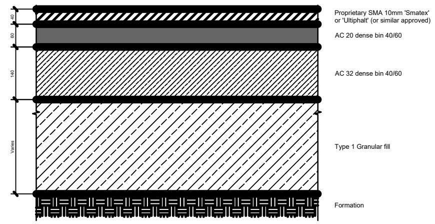


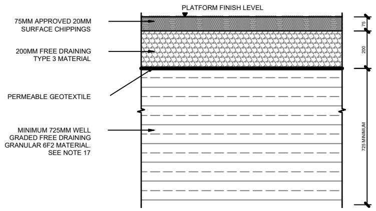
TABLE1	EITHER	
CBR %	CLEAN CRUSHED 6F5 CAPPING/TYPE 1 WEARING COURSE DESIGN	
	DEPTH OF CAPPING LAYER (mm)	DEPTH OF WEARING COURSE(mm)
<2	D=600	150
3	D=350	150
4	D=300	150
5-8	D=250	150
8-10	D=210	150
10-15	D=180	150
>15	-	150

TABLE 1 BASED ON DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB), PAVEMENT DESIGN CD225, DESIGN FOR NEW PAVEMENT FOUNDATIONS

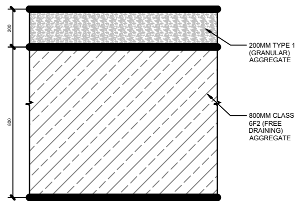
INTERNAL GRAVEL ROAD CROSS SECTION
1 : 10



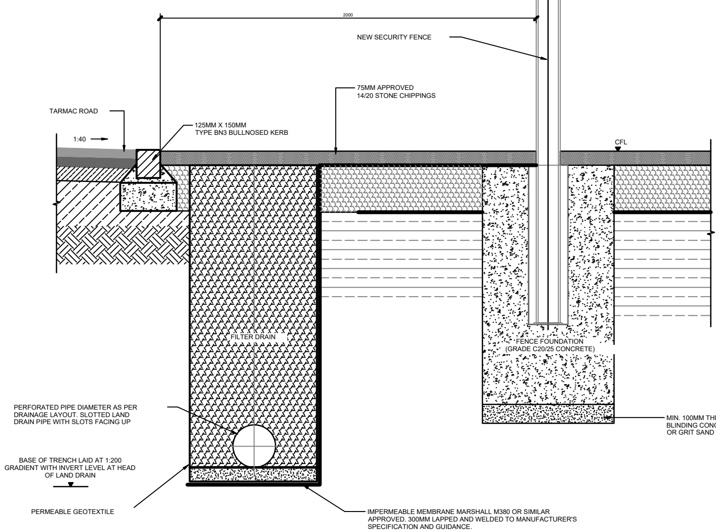
TYPICAL BELLMOUTH PAVEMENT
1 : 5

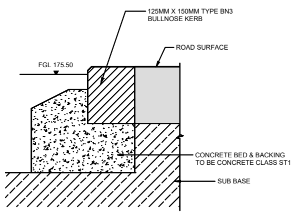


INDICATIVE PERMEABLE PLATFORM CONSTRUCTION DETAIL
1 : 10

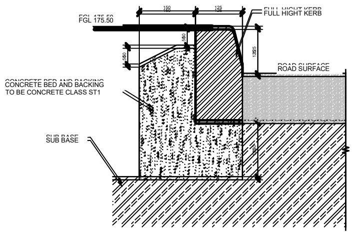


TEMPORARY ACCESS ROAD DETAIL
1 : 10





BULLNOSE KERB DETAIL
1 : 5



FULL HIGHT KERB DETAIL
1 : 5

FILTER DRAIN AND FENCE ARRANGEMENT TYPICAL SECTION DETAIL
1 : 10

NOTES:

1. All dimensions are in mm, unless otherwise stated.
2. All levels are above Ordinance Datum (AOD) in meters, unless noted otherwise.
3. Do not scale from this drawing, use stated dimensions only.
4. All dimensions are based upon preliminary equipment arrangement drawings
5. The contractor shall be responsible for the temporary stability of the works and any other buildings, structures, excavations or features affected by the works.
6. The contractor shall ensure no part of the works and any other buildings, structures or features affected by the works are over-stressed or damaged as a result of construction activities.
7. The contractor shall be responsible for verifying all existing dimensions / setting out on site. Any discrepancies are to be reported immediately to the engineer.
8. This drawing is intended for development purposes only and should not be used for construction.
9. The new platform makeup shall be designed and installed to meet the minimum requirements.
10. The new site platform shall connect to the existing platform makeup, ensuring continuity of any existing geogrid or other membranes if present. The contractors should consider the site earthing requirements when constructing the platform.
11. Any new platform extension should be leveled with the existing platform. For this design, the finished site level is considered as 175.5m. The contractor should verify this on-site.
12. The presence of any buried utilities should be verified in the next stage of design.
13. The new platform should be constructed using suitable imported granular fill. Prior to construction, any soft areas should be removed and replaced with compacted imported granular fill.
14. Preliminary logs from the recent Ground Investigation are the only available information at the moment. Any other site-specific information is still unknown and it will become available after the production of the Ground Investigation Report. Provisional assumptions have been made based upon existing information. This shall be verified in the next stage of design.
15. Shallow foundations have been assumed based on the existing substation as-built drawings and expected ground conditions and earthworks construction methodology. An allowable bearing pressure of not less than 100kN/M2 has been assumed for the presented preliminary foundation sizing. This will require to be reviewed and verified during detailed design, also taking account of the findings from the ground investigation and the final design of the earthworks.
16. All new civil elements and foundations are shown as indicative, and their sizes will be confirmed during the detailed design stage.
17. CBR tests to be carried out at 20m centres along the road centreline at formation level. Results to be passed to the SSE construction manager. Design CBR = 15%, SSE engineer to be informed prior to construction.

FOR INFORMATION ONLY

NOT FOR CONSTRUCTION

REV.	DATE:	DRWN:	CHKD:	APPVD:	DESCRIPTION:
00	03/06/25	IB	BR	KS	APPROVED FOR ISSUE

STATUS: PRELIMINARY DESIGN ONLY

CLIENT: Scottish & Southern Electricity Networks TRANSMISSION

PROJECT: LOCH NA CATHRACH

PROJECT NUMBER: LT000325 LOCATION: KNOCKNAGAEL

TITLE: KNOCKNAGAEL SUBSTATION EXTENSION ROAD DETAILS

DRAWN:	I.BIN	ENG CHECK:	B.RENTON
DESIGNER:	SSENT	COORDINATION:	
SCALE:	1:5 -1:10	APPROVED:	K.SMITH
DATE OF FIRST ISSUE:	03/06/2025	SECURITY:	INTERNAL

ORIGINATOR DRAWING NUMBER: LT325-KNOC2-0804-DR-0010

SHEET No: 01 of 01

CLIENT DRAWING NUMBER:

REV. No: 00

SCALE 1:5 0 100mm 200mm 300mm 400mm 500mm

SCALE 1:10 0 200mm 400mm 600mm 800mm 1000mm

01/05/2025 14:27:50 Autodesk Docs://100109116-001 - SUB Red John and Knocknagael/109116-MMD-KNOC-XX-M3-CE-0002.rvt