



- ### Temporary Surface Water Drainage Notes
- The location and layout of attenuation basins are subject to detail design and review of platform level and ground conditions information.
  - Temporary drainage subject to geotechnical investigations and contractors temporary works design.
  - Temporary attenuation basins to be retained in permanent works.
  - Swales and attenuation basins to be established prior to any earthworks in order to maintain water quality standards.
  - Check dams to be installed at regular intervals along the swale system, spacing to be determined at detailed design stage.
  - All SuDS drainage systems (basins, filter drains, swales etc.) are to be constructed in accordance with CIRIA753, the SuDS manual 2016.
  - Pipes to be encased in concrete when cover < 1200mm under access roads.
  - All permanent drainage features shown to remain in the operational stage.
  - Swale widened to provide the required attenuation for temporary platform to allow a 1 in 2-year greenfield discharge rate into southern watercourse.
  - Check dams to be installed at regular intervals along the swale system, spacing to be determined at detailed design stage.
  - Rainfall landing within the pit, and any groundwater collected within it, shall be directed towards the main headwall and collected in a sump. This water will then be directed, either via pump or by gravity drainage, to a series of settlement management ponds and/or structures. These in turn will then discharge to soakaway trenches on the downslope side of the borrow pit.
  - Temporary borrow pit access roads are not shown at this stage and are to be refined at the next stage of design.

- ### Notes
- This drawing is for information only and should not be used for construction.
  - No unauthorised disclosure, storage or copying.
  - All spatial coordinates relate to the Ordnance Survey, British National Grid (OSGB36).
  - Levels are in metres and have been obtained from Cyberhawk Topographical Survey.
  - This drawing is to be read in conjunction with all relevant documents and drawings.
  - The site civils design has been completed in line with the requirements of the standardised HVDC converter station and AC substation compound design defined by SSEN. The site drainage and earthworks design, including the platform levels, may be optimised further following completion of the ground investigation and design development of the HVDC converter station and AC substation.

### Key to symbols

- TEMPORARY LAYDOWN AREAS
- PLATFORM AT FORMATION LEVEL
- ACCESS ROAD
- OVERLAND FLOW ROUTES
- PERMANENT SURFACE WATER NETWORK OUTFALL
- TEMPORARY SWALE OUTFALL
- TEMPORARY SWALES AND FOREBAYS FOR SILT REMOVAL
- ATTENUATION BASINS
- CUT-OFF DRAIN IN A PERIMETER GRAVEL-FILLED DRAINAGE DITCH, SHALLOW V-DITCH OR SIMILAR
- PERMANENT SWALES
- PROPOSED FILTER DRAINS WITH 225Ø PERFORATED PIPES
- PROPOSED ACO CHANNEL DRAIN AT BELLMOUTH
- EXISTING MANMADE DITCH TO BE FILLED
- EXISTING WATERCOURSE WITH 10m BUFFER
- RED LINE BOUNDARY
- NEW STORNOWAY PORT AUTHORITY ROAD
- EARTHWORKS CUT
- EARTHWORKS FILL
- TRACK FOR MAINTENANCE

### Reference drawings

109647-MMD-ARNI-XX-DR-CE-0003 - PERMANENT DRAINAGE LAYOUT

PO#	Date	OGL	Description	ARD	RMcG
P05	14/02/2025	OGL	FOR PLANNING SUBMISSION	ARD	RMcG
P04	04/02/2025	OGL	FOR PLANNING SUBMISSION	ARD	RMcG
P03	11/11/2024	OGL	CLIENT COMMENT UPDATE AND CHANGE	ARD	RMcG
IN LAYDOWN AREA 3 PLAN AREA					
P02	16/09/24	OGL	SECOND ISSUE	ARD	RMcG
P01	29/08/24	OGL	PRELIMINARY ISSUE	ARD	RMcG
Rev	Date	Drawn	Description	Ch'k'd	App'd

### FOR PLANNING SUBMISSION

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Client

Scottish & Southern  
Electricity Networks

Project Name: **LT14 Western Isles HVDC**

Site Name: **Arnish Moor**

Title: **Surface Water Temporary Drainage Layout**

Designed	Drawn	Dwg check	MMD Project Number	Scale at A1	Security
Euan Walker	Oscar Gomez Lopez	Anabel Ruiz-Diaz	109647	1:2500	STD
Eng check	Coordination	Approved			
Anabel Ruiz Diaz	Anabel Ruiz Diaz	Richard McGowan			ARD

MML Drawing Number	SSEN Drawing Number	Revision
109647-MMD-ARNI-XX-DR-CE-0004	TBC	P05

SWALE REERENCE	CATCHMENT SERVED	TOTAL CATCHMENT AREA (ha)	IMPERMEABLE AREA (ha)	ALLOWABLE DISCHARGE RATE (1 in 2-YEAR GREENFIELD RUNOFF RATE) (l/s)
SW-02	LAYDOWN AREA 2	4.00	2	56.7
SW-03	LAYDOWN AREA 3	2.05	1	22.9

