



- 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.
 - Permanent drainage features designed for no flooding during a 1 in 200-year event with a 48% climate change allowance in accordance with SEP's peak rainfall intensity allowances by river basin region.
 - The location and layout of attenuation basins are subject to detail design and review of platform level and ground conditions information.
 - 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.
 - Permanent access road design is indicative only and is to be reviewed at the next stage of design.
 - 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

- PERMANENT ACCESS ROAD
- TEMPORARY LAYDOWN AREAS
- PERMEABLE PLATFORM
- PROPOSED SURFACE WATER DRAINAGE
- PROPOSED FILTER DRAINS WITH 225Ø PERFORATED PIPES
- PROPOSED ACO CHANNEL DRAIN AT BELLMOUTH
- OVERLAND FLOW ROUTES
- PERMANENT SURFACE WATER NETWORK OUTFALL
- PERMANENT SWALES
- EXISTING MANMADE DITCH TO BE DIVERTED
- EXISTING WATERCOURSE WITH 10m BUFFER
- RED LINE BOUNDARY
- EARTHWORKS CUT
- EARTHWORKS FILL
- NEW STORNOWAY PORT AUTHORITY ROAD
- ATTENUATION BASIN
- TRACK FOR MAINTENANCE

Reference drawings

109647-MMD-ARNI-XX-DR-CE-0004 - TEMPORARY DRAINAGE LAYOUT					
BACKGROUND MAPPING INFORMATION HAS BEEN REPRODUCED FROM THE ORDNANCE SURVEY BY PERMISSION OF ORDNANCE SURVEY OF THE CONTROLLER OF HER MAJESTY'S STATIONERY OFFICE. © CROWN COPYRIGHT ORDNANCE SURVEY, BLUESKY INTERNATIONAL LTD @ SSE - 0100022432.					
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	09/10/2024	OGL	SECOND ISSUE	ARD	RMcG
P01	16/09/24	SMcG	FIRST ISSUE	ARD	RMcG
Rev	Date	Drawn	Description	Ch'k'd	App'd

Status Stamp

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 Permanent Drainage Layout

Attenuation Basin Reference	Catchment Reference	Total Catchment Area (ha)	Percentage of Impermeable Area	Impermeable Area (ha)	Total Impermeable Area	Required Pond Volume (m3)	Greenfield Runoff (1:2 yr) (l/s)
AT-01	HVDC Converter Station	8.59	57%	4.9	5.19	4124	115.6
	Permanent Road	0.2	100%	0.2			
	Earthworks	0.42	21%	0.09			
AT-02	AC Substation	6.36	47%	2.99	3.44	2081	96.4
	Permanent Road	0.2	100%	0.2			
	Earthworks	0.12	21%	0.25			