

# CFA Archaeology Ltd

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*Advice on Archaeology & Planning*

*Environmental Impact Assessment*

*Intpretation, Design & Display*

*Finds/ Environmental Analysis*

*Field Evaluation & Excavation*

*Historic Building Recording*

*Site & Landscape Survey*

*Geophysical Survey*

## **Arecleoch Windfarm Grid Connection Archaeological Mitigation Works**

**Report No. 1834**

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This document has been prepared in accordance with CFA Archaeology Ltd  
standard operating procedures.

### **Arecleoch Windfarm Grid Connection Archaeological Mitigation Works**

**Report No. 1834**

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## **1. INTRODUCTION**

### **1.1 General**

- 1.1.1 This report presents the results of archaeological mitigation works carried out along the route of a 132kV overhead line between Arecleoch Windfarm and the Mark Hill Collector Substation (NGR: NX 1821 8048 – NX 2376 8600) (Fig. 1). The work was carried out by CFA Archaeology Ltd (CFA) between August and October 2010 and was commissioned by Scottish Power Power Systems.

### **1.2 Background**

- 1.2.1 The Scottish Ministers have given consent for the construction of a 132kV overhead line connecting Arecleoch Windfarm and the Mark Hill Collector Substation. South Ayrshire Council, as advised by West of Scotland Archaeological Service (WoSAS), requested a programme of archaeological mitigation works as detailed in the Environmental Statement, to be undertaken prior to and during the construction of the grid connection. A Mitigation Strategy (MS) was produced by CFA and approved by WoSAS. A phased approach to the mitigation works was undertaken.

### **1.3 Objectives**

- 1.3.1 The objectives of the mitigation works were:

Phase 1a: Archaeological Work to be conducted during the construction period but before construction work commences in the specific locations:

- To survey Site 26.
- To conduct sample excavation of Site 21.
- Sites 3, 6, 9, 10, 11 and 12 need to be demarcated to prevent damage.
- Following felling walk-over survey is required to identify if Sites 30 a- i survive. If they do and they lie in close proximity to the construction locations they will be demarcated to prevent damage.
- To identify previously unknown archaeological sites within the areas proposed for deforestation.
- To assess the needs for watching briefs (Phase 1b) and further work (Phase 2).

Phase 1b: Archaeological monitoring during construction:

- To provide a watching brief during construction work at locations to be defined based upon the results of the Phase 1a survey and evaluation work (if required).
- To provide a watching brief during groundbreaking along the underground section of the cable, including any temporary access.
- To provide a watching brief during groundbreaking in the area of Site 26.

## **2. WORKING METHODS**

### **2.1 General**

- 2.1.1 CFA Archaeology Ltd follows the Institute for Archaeologists' Code of Conduct, Standards and Guidance where appropriate.

### **2.2 Detailed Survey**

- 2.2.1 The extent of Site 26 was recorded and a short written description was made of the width and wavelength of the rig. The site was surveyed using Thales DGPS surveying equipment. Colour slide and digital photographs were taken and written descriptions produced.

### **2.3 Sample Excavation**

- 2.3.1 Site 21 was to be crossed by a section of underground cable. Three 1m wide trenches were to be excavated across the walls of the enclosure in order to establish their likely date, nature, extent and condition. The cable was re-routed and crossed a putative extension of the enclosure, missing the actual enclosure. Three 1m wide trenches were excavated across the putative banks close to the cable trench crossing.
- 2.3.2 All excavation work was conducted by hand. All excavation and on-site recording was carried out according to standard CFA procedures. The location of the trenches were recorded by Thales DGPS.

### **2.4 Identification of Sites Within Areas of Proposed Deforestation**

- 2.4.1 Following tree felling, a walkover survey was conducted of the previously afforested areas to identify the presence or absence of Sites 30a – j and any previously unidentified sites. If sites were in close proximity to construction features they were to be visibly demarcated.
- 2.4.2 All sites identified were photographed, described and located using a Thales DGPS.

### **2.5 Watching Brief**

- 2.5.1 A watching brief was required where a section of the overhead line was undergrounded.

### **2.6 Demarcation**

- 2.6.1 Sites 3, 6, 9, 10, 11 and 12 required to be demarcated with a 10m buffer to prevent damage from construction.
- 2.6.2 A post construction site visit was undertaken to assess the final condition of the demarcated sites.

### **3. ARCHAEOLOGICAL RESULTS**

#### **3.1 Detailed Survey**

- 3.1.1 Site 26 was surveyed in September 2010. The mapped extent of the site is shown on Fig. 2.
- 3.1.2 Most of the rig-and-furrow is imperceptible on the ground, with the better preserved areas being to the north-west of the pylon route and at the edges, closer to the more boggy ground and in areas of greater slope. Occasional clearance cairns were present across the site (Fig. 3).
- 3.1.3 The rig-and-furrow, where preserved to the south-east of the pylon route, measured 2.5m from centre to centre, with a maximum height of 0.2m (Fig. 4). To the north-west of the pylon route the rig-and-furrow measured c.4m centre to centre with a maximum height of 0.1-0.2m.

#### **3.2 Sample Excavation**

- 3.2.1 The sample excavation at Site 21 was carried out during October 2010. Site 21 was re-surveyed and three trenches were excavated at the edge of the sections where the cable trench crossed the site (Fig. 5).
- 3.2.2 Site 21 comprises a rectangular enclosure measuring c.60m by 35m, aligned roughly SE to NW. The enclosure is grassed over. The enclosure is defined by low banks up to 1m high and 3m wide. The bank forming the north-east side of the enclosure extends beyond the enclosure to the south-east as a dry stone wall. It also extends c.16m to the north-west as a low bank, ending on the edge of a gorge falling to the stream. A possible second bank was visible running closely parallel to the north-west extension. The re-routed grid connector cable and access track both cut through these so sections were excavated across both to establish their character. The new cable route by-passed the main enclosure, missing it by c 3m (Fig. 9).
- 3.2.3 Topsoil (**001**) was up to 0.4m in depth. Natural subsoil (**000**) was orange sandy and gravelly clay with frequent angular volcanic stones and shattered bedrock outcropping.
- 3.2.4 Trenches 1 and 3 were excavated across the NW extension bank close to where the cable trench and an access track had cut through it. Both trenches showed the bank to be loosely constructed of rough angular stones (**002**, **003**), now overgrown with soil and rough grass (Fig. 6-8). The remains of the bank measured up to c.1.6m wide and 0.4m high. Loose stones were scattered downslope from the bank in both trenches, suggesting that the bank was higher at the time of use and has since eroded significantly. Much of the surface stone may have also have been robbed for use in repairing drystone walls.
- 3.2.5 Trench 2 was excavated across a low bank running parallel to the NW extension bank (Fig. 5). No structure was discerned and it is interpreted as a

natural feature, probably resulting from deposition of eroded stones from both the natural subsoil and from the extended bank.

### 3.3 Identification of Sites Within Areas of Proposed Deforestation

- 3.3.1 A post-felling walkover survey was undertaken along the felled wayleave in Arecleoch Forest and on Craiggannochie Hill during August 2010 in clear weather. The felled wayleave in each area had a thick surface covering of brash and mulch (Fig. 10) and the ground had been heavily disturbed by tree furrows. Previously identified sites are listed in Table 1.

Site	NGR	Description
1	223729 586080	Colmonell and Barr Parish boundary
30a	221355 582480	Scatter of stones c. 2.5m across in an area of plantation; disturbed clearance cairn.
30b	221345 582455	Circular enclosure c. 10m in diameter with turf and stone walls spread to 2m wide and 0.3-0.4m high, with a small annex to the north-west which underlies a dry stone wall. Located on a small knoll next to a stream.
30c	220760 582160	Clearance cairn disturbed by forestry ploughing.
30d	220700 582100	Trackway.
30e	220700 582020	Clearance cairn disturbed by forestry ploughing.
30f	220640 582040	Clearance cairn disturbed by forestry ploughing
30g	220600 581900	Group of eight clearance cairns disturbed by forestry ploughing, present within a c. 100m by 100m area.
30h	220520 581940	Rocky outcrop containing deep cupmarks that are probably natural.
30i	220540 582080	Cluster of seven clearance cairns, three damaged by forestry ploughing, with a damaged outlier c. 50m to the south-west.
30j	221360 582840	A cairn measuring c. 4.5m by 2.9m located on a low eminence, with a length of bank to the west that is intersected by the fence-line defining the edge of the plantation.

*Table 1. Previously identified sites*

- 3.3.2 Sites 30a and 30b were revealed outside of the wayleave and separated from it by a long dry stone wall. Both sites were as described in the gazetteer although both are heavily overgrown and compromised by forestry planting (Fig. 11). It was not considered necessary to demarcate these sites as they lay outside of the wayleave and were protected by the stone wall.
- 3.3.3 The recorded locations of Sites 30c, 30e and 30g lay within the cable route wayleave, which was covered by a thick layer of brash and mulch. The ground surface had previously been heavily disturbed by tree furrows. No surviving remains of these sites were found.



- 3.3.4 The recorded locations of Sites 30d, 30f, 30h and 30i lay mostly or wholly within impenetrable standing forest. Exploration of the forest edge revealed no standing remains. Occasional large stones were present in the brash but without any indication of having been part of a structure.
- 3.3.5 Site 30j lay on the edge of the forestry plantation and was found to be as described. It lay a considerable distance from the wayleave and so was under no threat from the development.
- 3.3.6 The former parish boundary (Site 1) lay within forestry on Craiggannochie Hill. There was no evidence of a built feature surviving within the cleared wayleave. The remaining alignment of the boundary lies within dense forestry.
- 3.3.7 No new sites were identified during the survey in Arecleoch Forest and Craiggannochie Hill.

### **3.4 Watching Brief**

- 3.4.1 The watching brief did not take place during the installation of the underground section of cable as the contractors did not inform CFA of their programme. The site was visited afterwards and the route of the cable trench was walked.

### **3.5 Demarcation**

- 3.5.1 Sites 3, 6, 9, 10, 11 and 12 required to be demarcated to prevent damage from construction.
- 3.5.2 It was not possible to mark off Site 3 as this bridge was in use, carrying a farm track over a burn (Fig. 12). This bridge was visited and photographed post construction and no damage had occurred.
- 3.5.3 Site 6, a probable quarry, was buried beneath the site compound and a passing place before it could be demarcated.
- 3.5.5 Site 10, a modern clearance heap containing wooden posts and wire, was pushed aside to make way for a wood pole (Fig. 13). This activity was recorded and no features of archaeological significance were recorded.
- 3.5.6 Sites 9 (a quarry) and 11 and 12 (clearance cairns) were unaffected by construction works.



#### **4. CONCLUSION**

- 4.1 A programme of archaeological mitigation works was carried out along the route of a 132kV overhead line between Arecleoch Windfarm and the Mark Hill Collector Substation. This work included walkover survey, detailed survey, sample excavation, and marking off.
- 4.2 The walkover survey identified the remains of sites 30a and 30b within Arecleoch Forest. No other remains were identified in the felled areas and are presumed to have been destroyed by forestry activities.
- 4.3 The sample excavation of Site 21 identified a linear stone built bank extending to the north-west from the main enclosure. A putative second bank was proven to be natural. The main enclosure was unaffected by the works.
- 4.4 The project archive, comprising all CFA record sheets, maps and reports, will be deposited with the National Monuments Record of Scotland (NMRS) and copies of reports will be lodged with Historic Scotland and the South Ayrshire Sites and Monuments Record.
- 4.5 A summary statement of the results of this excavation will be submitted for publication in *Discovery and Excavation in Scotland* (Appendix 4).

## APPENDIX 1: Context Register

Context No.	Trench No.	Description
000	All	Natural subsoil, orange sandy/gravelly clay with frequent angular stones and shattered bedrock outcroppings.
001	All	Topsoil up to 0.4m deep.
002	1	Stone and soil/turf bank of width 1.4m and height 0.4m. Directly overlies natural.
003	3	Stone and soil/turf bank of width 1.6m and height 0.45m. Directly overlies natural.

## APPENDIX 2: Photographic Register

### *Colour Slide Film 1*

Photo No.	Description	From
1	Registration	
2-3	Trench 1, section	SW
4-5	Trench 2 pre-ex with Site 21 visible in background	NW
6-7	Trench 2 section	NW
8-9	Trench 2 general	NE
10-11	Trench 3 pre-ex	NE
12-13	Trench 3 cleaned bank in plan	SW
14-15	Trench 3 section	NE
16-29	General views of Site 21	Various
30-31	Trench 1 backfilled	
32-33	Trench 2 backfilled	
34-35	Trench 3 backfilled	

### *Colour Slide Film 2*

Shot	Description	Taken From	Conditions
1-4	Site 26, good bit of R & F just SW of the cable route	NE	Overcast
5-8	Site 26, good bit of R & F just SE of the cable route	SW	Hazy bright
9-12	Site 26, good bit of R & F just SW of the cable route	NE	Hazy bright
13-14	Site 26, typical area to the SE of the pylons, R & F barely perceptible	NE	Hazy bright
15-16	Site 26, typical area to the SE of the pylons, R & F barely perceptible	SW	Hazy bright
17-18	Site 26, typical area to the SE of the pylons, R & F barely perceptible	SE	Hazy bright
19-20	Site 26, typical area to the SE of the pylons, R & F barely perceptible close-up	SW	Hazy bright
21-22	Kiln or other structure at NX 2144 8264	SW	Hazy bright

### *Digital – Walkover Survey*

No.	Description	From
1	Site 30 within cable route, general view	NE
2	General view of ground conditions, location of 30e	N
3	General view of ground conditions, location of 30e	E
4	General view of ground conditions, location of 30e	SW
5	Location of 30f within forest	SE
6	Location of 30h	E
7	General view of cable route, Site 30	SW
8	Location of 30h	E

9	General view of cable route, Site 30	NE
10	General view, location of 30g	SW
11	Location of 30c within forest	SE
16	Drystone wall along boundary of Site 30	NW
17	Site 30b	SW
18	Site 30b	S
19	Site 30a	W
20	Site 30a	NE
21	Site 30a	SW
22	Site 30a	S
23	Site 30j	SE
24	Site 30j detail	SE
25	Site 30j	S
26	Site 30j	SW
30	General view of cable wayleave at south-west of Site 30	SW
31	General view of cable wayleave at south-west near Site 28	SW
32	General view of cable wayleave at south-west near Site 28	NE
33	General view of cable wayleave at south-west near Site 28	N
39	Drystone wall along boundary of Site 30	W
40	Drystone wall along boundary of Site 30	W
41	Drystone wall along boundary of Site 30	NW
42	Drystone wall along boundary of Site 30	N
43	General view of works in Site 30	NE
46	View of south-west of cable route	N
47	View of south-west of cable route	NW
48	View of location of site 28	NE
49	View of location of site 28	SW
50	Northern boundary of Site 30	E
51	Northern boundary of Site 30	E
54	General view of ground cover, north-east end of cable route close to Sites 2-7	SW
55	General view of ground cover, north-east end of cable route close to Site 1	SW

### *Digital*

Shot	Description	Taken From	Conditions
1	View ENE from NX 2332 8941 on 29/9/10. Pylons not erected	WSW	Overcast
2	View W from NX 2332 8941 on 29/9/10. Pylons are erected	E	Overcast
3-4	Site 3 bridge	E	Overcast
5-7	East edge of the temporary compound showing Site 5 partly buried and the location of Site 4	N	Overcast
8-9	Compound area, general view	S	Overcast
10-12	Area of Site 6. Site buried either under compound or passing space	N	Overcast
13	General view of Site 7	S	Overcast
14-15	General view of Sites 9-10 area	NE	Overcast
16-18	Site 10	NNE & E	Overcast
19	Site 11 in reeds centre left	SW	Overcast
20	General view of pylons from between Sites 11 & 12	NNW	Overcast
21	Site 12 with the tree growing from it	NW	Overcast
22	View SW down through wood towards Site 18	SW	Overcast
23	View NE upslope through woods from close to Site 18	NNW	Overcast
24-25	View NW along cable route where it passes Site 18 which is on the left	NE SW SE	Overcast
26-29	End of cable route on the E side of the River Duisk	Various	Overcast
30	General view of the site compound from near Site 7	W	Overcast
31	General view of the area on the W of the track where Site 6	NW	Overcast

	may be		
32-33	General view of the track with the passing space on the right and the compound on the left (Site 6 locations)	N	Overcast
34-35	General views SW & NE from NX 2201 8329 just SW of the A719	NE & SW	Overcast
36-37	Site 21, 23, cable route & muddy adjacent track	NE	Overcast
38-39	Site 21, bank leading from N corner towards fence alongside Daltangan Burn	NW	Overcast
40	Site 23	NW	Overcast
41	Site 23, general view	S	Overcast
42-43	Site 23, with the cable route on left and view over River Duisk to the pylons beyond	SW	Overcast
44	Site 21, NW side of the enclosure and the bank leading to the stream valley on the left	SW	Overcast
45	Site 21, bank leading to the stream valley (cut by cable route)	SE	Overcast
46-47	Site 21, NE & SW enclosure banks crossed by a vehicle (not certainly a cable route vehicle)	NW	Overcast
48-49	Site 24 bridge	NE & SW	Overcast
50	View of cable route from Site 24 up to the start of the pylons within Site 26	N	Overcast
51-53	Panorama of pylons and cable trench	N	Overcast
54-56	Site 26, good bit of R & F just SW of the cable route	NE	Overcast
57-58	Site 26, good bit of R & F just SE of the cable route	SW	Hazy bright
59-61	Site 26, good bit of R & F just SW of the cable route	NE	Hazy bright
62-63	Site 26, typical area to the SE of the pylons, R & F barely perceptible	NE	Hazy bright
64-65	Site 26, typical area to the SE of the pylons, R & F barely perceptible	SW	Hazy bright
66-67	Site 26, typical area to the SE of the pylons, R & F barely perceptible	SE	Hazy bright
66	Site 26, typical area to the SE of the pylons, R & F barely perceptible close-up	SW	Hazy bright
69-74	Panorama of Site 26 from NX 2166 8282	NE, NW, SW	Hazy bright
75-77	Kiln or other structure at NX 2144 8264	SW	Hazy bright
78-80	Enclosure & cairns at NX 2145 8265	SSW	Hazy bright
81	Cairn stones overlying enclosure bank	SW	Hazy bright
82-83	As above, general views	NW	Hazy bright
84-85	General views of the kiln/enclosure/cairns area	SSW	Sunny
86	View SW from Site 26 into wooded area	NE	Sunny
87-89	General views of Site 26	SW	Sunny
90-91	Site 26, R & F to SW of wall dividing the site	NE	Sunny
92-93	Site 26, R & F to SW of wall dividing the site	SW	Sunny
94-97	Site 26, views of a clearance cairn on the slope of the Daltangan Burn which has been dug into recently. Toothed bucket marks and tracked vehicle tracks	NE	Sunny
98	Site 26, undamaged clearance cairn overlying rig & furrow on the slopes of the Daltangan Burn	NE	Sunny
99	Site 26, undamaged clearance cairn overlying rig & furrow on the slopes of the Daltangan Burn with the damaged cairn beyond	SW	Sunny
100-101	Site 26, undamaged clearance cairn overlying rig & furrow on the slopes of the Daltangan Burn	SW	Sunny
102	Site 26, general view of second damaged clearance cairn with the bridge Site 24 beyond	SW	Sunny
103-105	Site 26, close-up views of the second damaged clearance cairn	WSW	Sunny

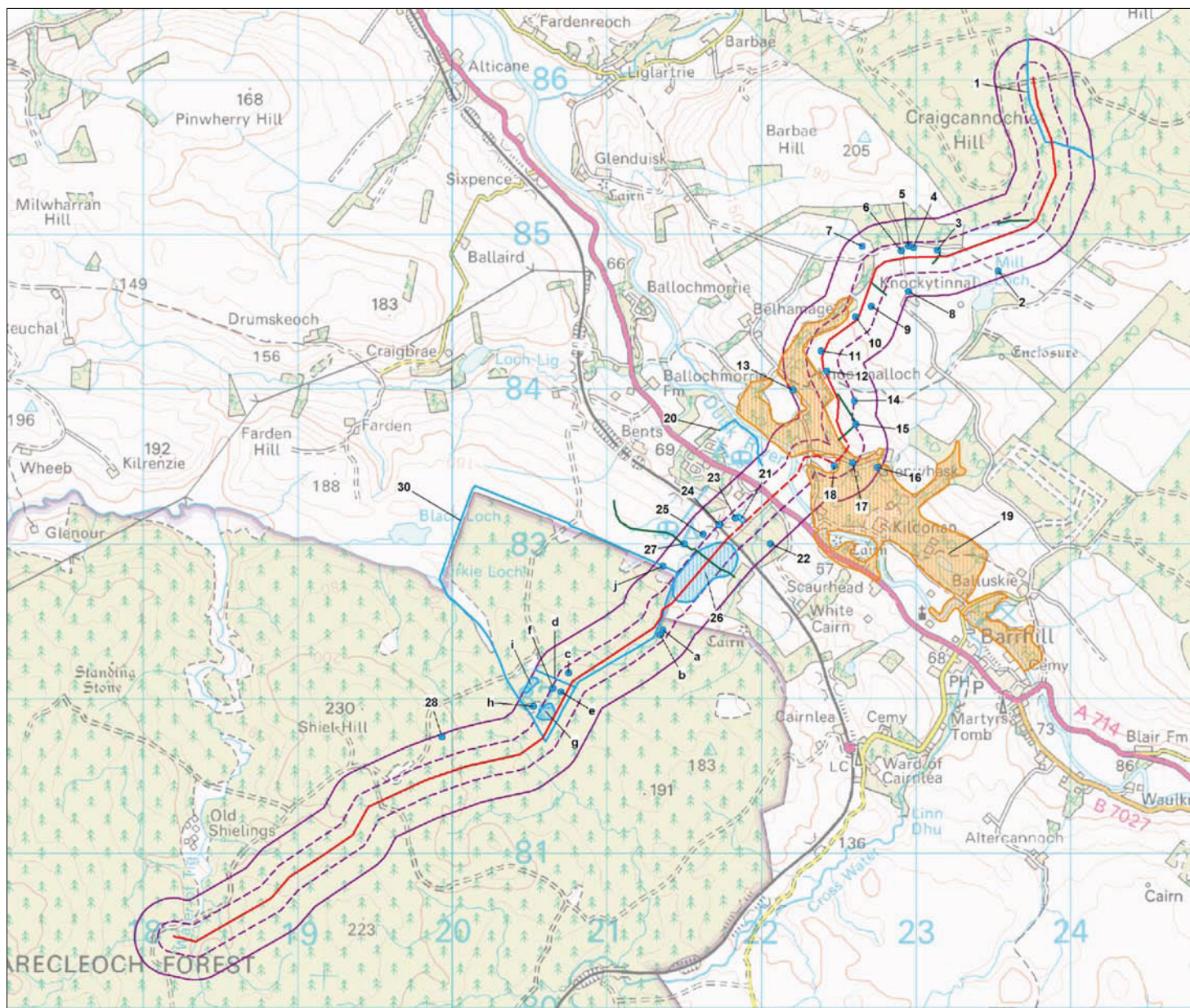
### APPENDIX 3: Field Drawings Register

Sheet No.	Drawing No.	Scale	Description
1	1	1:10	Trench 1 section
1	2	1:20	Trench 2 section
2	3	1:20	Trench 3 plan
2	4	1:20	Trench 3 Section

### APPENDIX 4: Discovery And Excavation In Scotland Entry

<b>LOCAL AUTHORITY:</b>	South Ayrshire
<b>PROJECT TITLE/SITE NAME:</b>	Arecleoch Windfarm Grid Connection
<b>PROJECT CODE:</b>	AREC
<b>PARISH:</b>	Colmonell
<b>NAME OF CONTRIBUTOR:</b>	Stuart Mitchell
<b>NAME OF ORGANISATION:</b>	CFA Archaeology Ltd
<b>TYPE(S) OF PROJECT:</b>	Evaluation, Survey
<b>NMRS NO(S):</b>	None
<b>SITE/MONUMENT TYPE(S):</b>	Rig-and-furrow, enclosure
<b>SIGNIFICANT FINDS:</b>	None
<b>NGR (2 letters, 6 figures)</b>	NX 1821 8048 – NX 2376 8600
<b>START DATE (this season)</b>	01-08-2010
<b>END DATE (this season)</b>	31-10-2010
<b>PREVIOUS WORK (incl. DES ref.)</b>	-
<b>MAIN (NARRATIVE) DESCRIPTION:</b> (May include information from other fields)	A programme of archaeological mitigation works was carried out along the route of a 132kV overhead line between Arecleoch Windfarm and the Mark Hill Collector Substation. This work included walkover survey, detailed survey, sample excavation, and marking off.
<b>PROPOSED FUTURE WORK:</b>	N/A
<b>CAPTION(S) FOR ILLUSTRS:</b>	N/A
<b>SPONSOR OR FUNDING BODY:</b>	Scottish Power Power Systems
<b>ADDRESS OF MAIN CONTRIBUTOR:</b>	The Old Engine House, Eskmills Park, Musselburgh, East Lothian, EH21 7PQ
<b>EMAIL ADDRESS:</b>	cfa@cfa-archaeology.co.uk
<b>ARCHIVE LOCATION (intended/deposited)</b>	National Monuments Record for Scotland (NMRS) South Ayrshire Sites and Monuments Record (SMR)





Key:



Fig. No:

1

Revision:

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Client:

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Power Systems

Title:

Overall Location Map

Project:

Arecleoch Windfarm Grid Connection

Scale:

1:40,000



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Figure 10: General view of felled area in Arecleoch Forest



Figure 11: Site 30a


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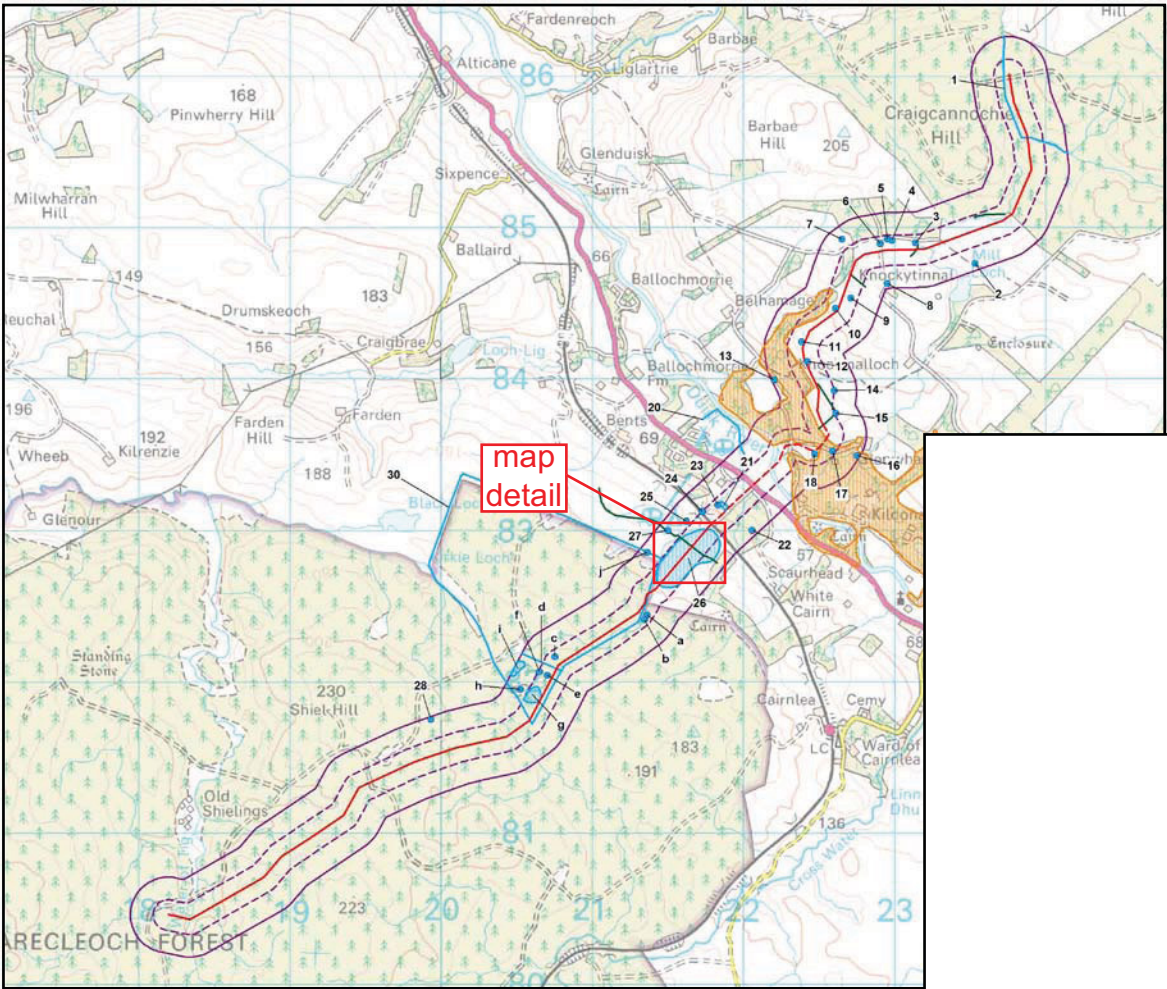
Figure 12: Site 3, bridge



Figure 13: Site 10, disturbed modern clearance heap

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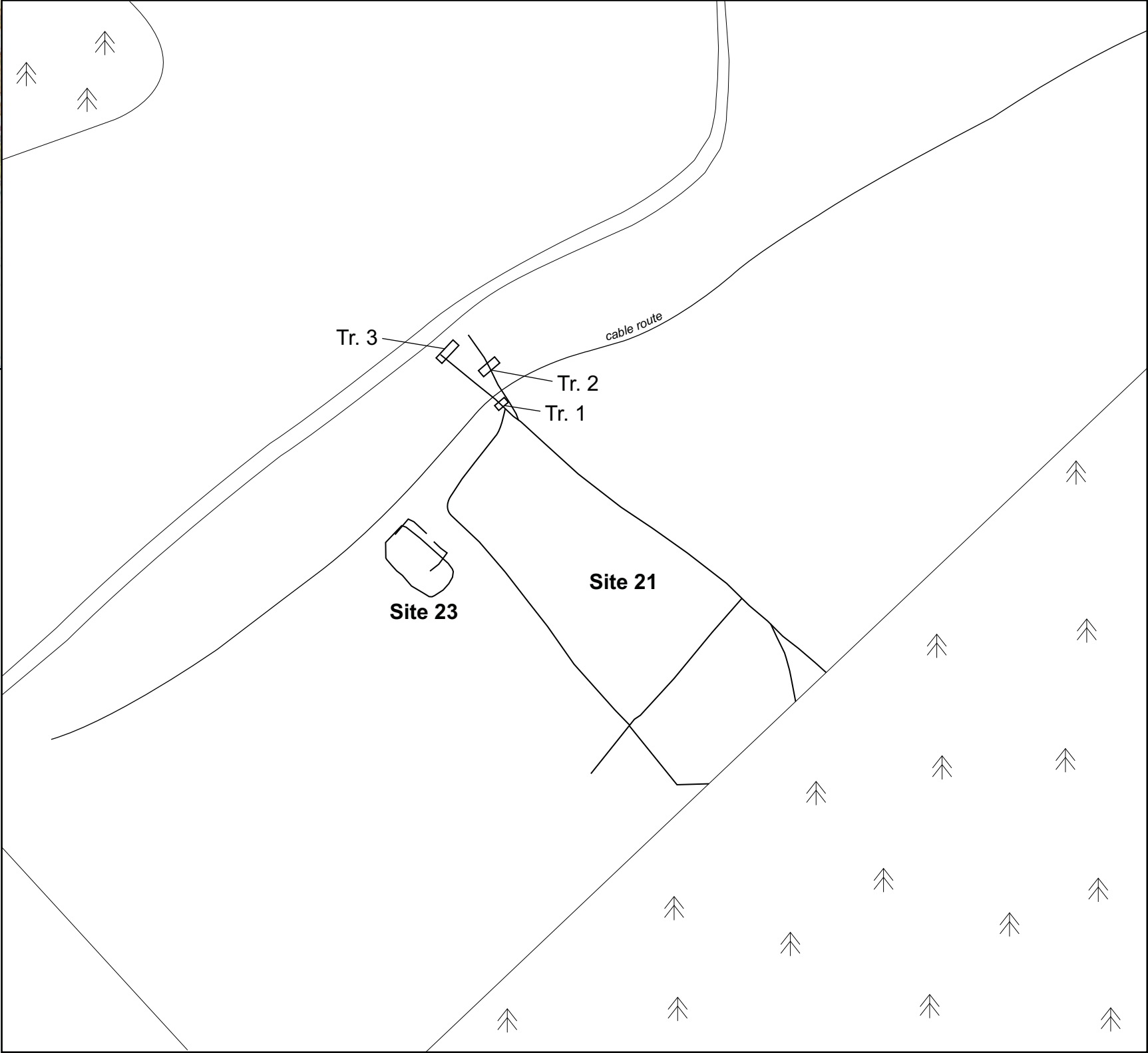
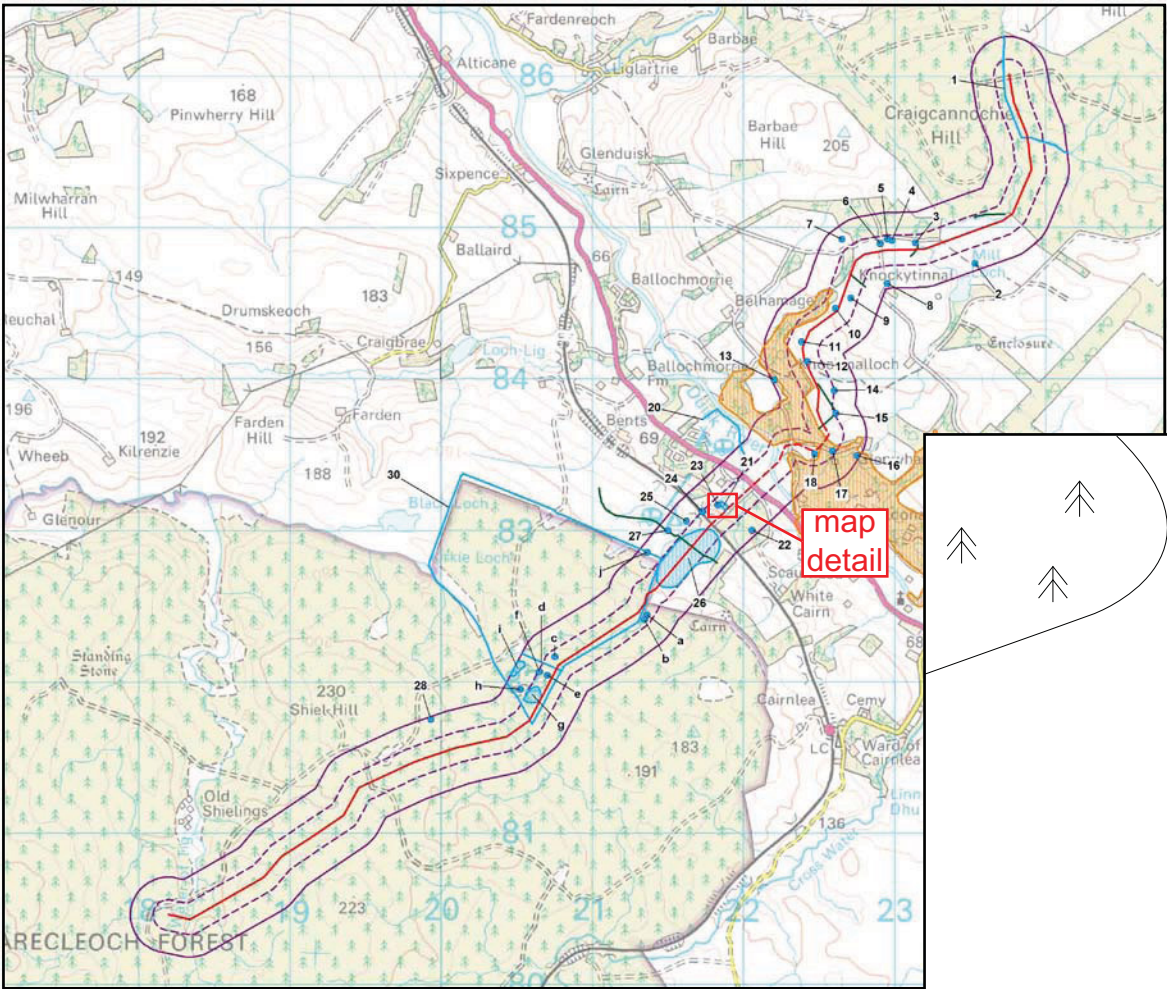
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Project:	Arecleoch Windfarm Grid Connection		
Scale:	1:2000 @ A3		
Client:	Scottish Power Power Systems		
Drawn by:	SW	Report No:	1834





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Fig. No:	5	Revision:	A
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Title:  
Location map and plan of Site 21  
trenches

Project:  
Arecleoch Windfarm Grid  
Connection

Scale:  
1:1000 @ A3



Client:  
Scottish Power Power Systems

Drawn by:	GC	Report No:	1834
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Key:

- stones
- roots

Fig. 6 Trench 1 SE-facing section

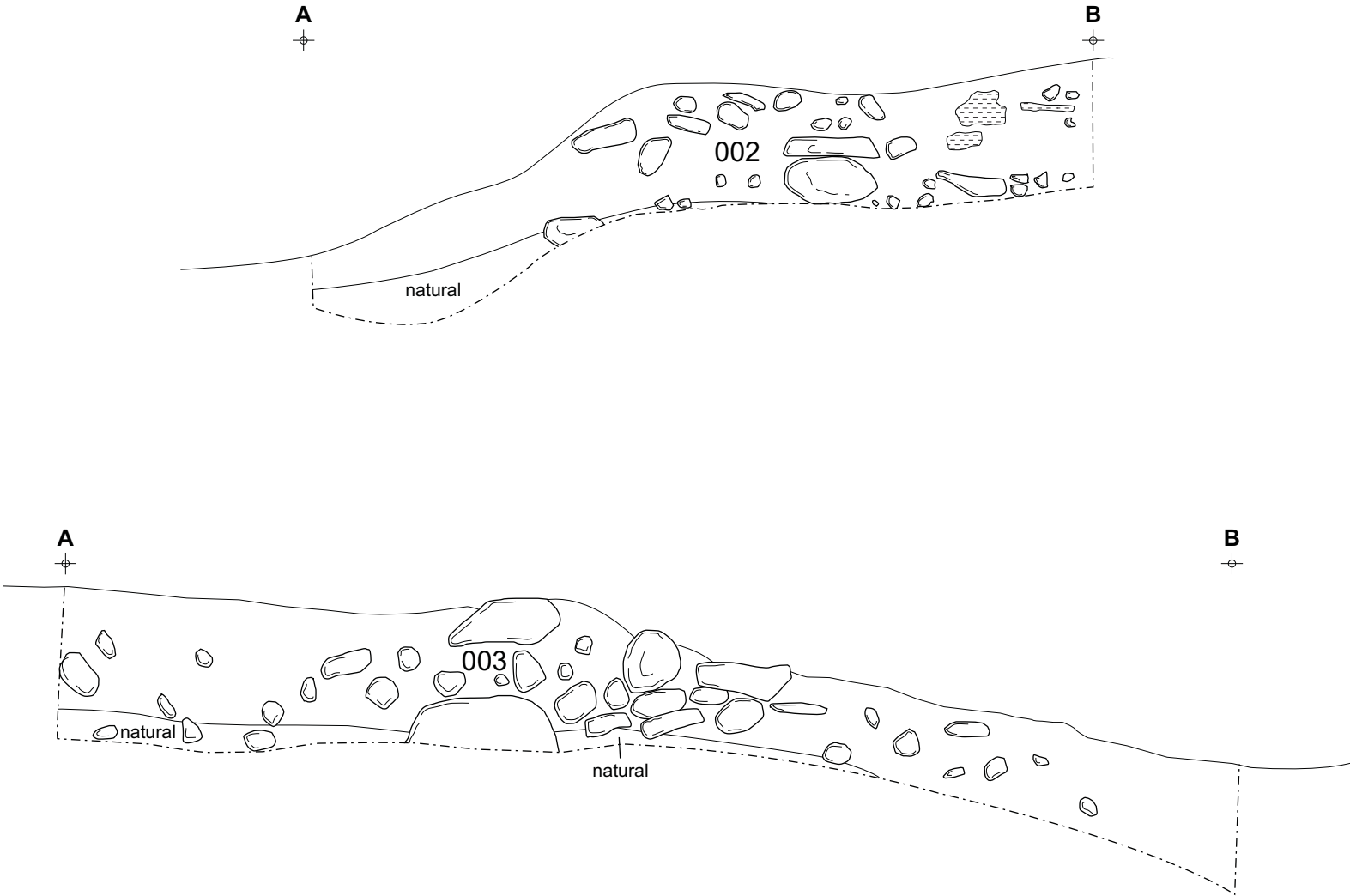


Fig. 7 Trench 3 SE-facing section



Fig. 8 Trench 3 plan




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Fig. No:	6-8	Revision:	A
Title:			
Project:	Arecleoch Windfarm Grid Connection		
Scale:	1:20 @ A3		
Client:	Scottish Power Power Systems		
Drawn by:	GC	Report No:	1834





Key:	Fig. No:	9	Revision:	A	Client:	Scottish Power Power Systems		 <div>CFA ARCHAEOLOGY LTD The Old Engine House Eskmills Park Musselburgh East Lothian, EH21 7PQ  t: 0131 273 4380 f: 0131 273 4381 e: info@cfa-archaeology.co.uk w: www.cfa-archaeology.co.uk</div>	
	Title:	Site 21 from the NE, showing the cable route on the right and the enclosure on the left							
	Project:	Arecleoch Windfarm Grid Connection							
Scale:							Drawn by: SW	Page No:	Report No: 1834