

Hornsea Project Three
Offshore Wind Farm



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Preliminary Environmental Information Report:
Annex 5.2 – Fieldwalking Report

Date: July 2017

Environmental Impact Assessment
Preliminary Environmental Information Report

Volume 6
Annex 5.2 – Fieldwalking Report

Liability

This report has been prepared by RPS, with all reasonable skill, care and diligence within the terms of their contracts with DONG Energy Power (UK) Ltd.

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This report is also downloadable from the Hornsea Project Three offshore wind farm website at www.dongenergy.co.uk/hornsea-project3

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Front cover picture: Kite surfer near one of DONG Energy's UK offshore wind farms © DONG Energy Hornsea Project Three (UK) Ltd., 2016.

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Summary

This annex describes the scope of the historic environment field walking study carried out by RPS in February 2017, and documents the outputs/observations from that exercise, which have been used to inform the assessment in volume 3, chapter 5: Historic Environment.

Acronyms

Acronyms	Description
DBA	Desk Based Analysis

1. Fieldwalking Report

1.1 Introduction

- 1.1.1.1 A draft desk based heritage assessment (DBA) was undertaken further to inform the Hornsea Three baseline in August 2016. The assessment focused on a core study area of 250 m either side of the onshore cable corridor search area. In addition, evidence from a wider area was taken into consideration. In particular designated assets located within 1 km on either side of the onshore cable corridor search area were considered (see volume 3, chapter 5, Historic Environment, Section 5.3).
- 1.1.1.2 The DBA indicated that there are a number of designated assets located either partly or wholly within 1 km of the onshore cable corridor search area. In addition, the DBA has indicated that the proposed onshore cable corridor, onshore HVAC booster station and the HVDC converter/HVAC substation will not physically affect any designated heritage assets.
- 1.1.1.3 The onshore cable corridor search area passes through a landscape containing a high density of recorded remains of most periods, from early prehistory onwards. On the basis of available documentary, cartographic and other desk-based sources, it is clear that the onshore infrastructure associated with Hornsea Three is likely to affect a number of known sites of archaeological sensitivity, as well as running through an area where such sites are likely to occur.
- 1.1.1.4 On this basis, a walkover survey of those areas (shown in Figure 1.1 below) of the onshore cable corridor search area which may contain sensitive undesignated assets and/or subject to high impact from the Hornsea Three was undertaken in February 2017 in order to inform the Hornsea Three onshore baseline.
- 1.1.1.5 All areas listed in Table 1.1 were visited during the walkover survey. Survey Areas prefixed with the letters 'GS' denote those areas to be subject to geophysical survey, subject to access, land suitability etc.. Those Survey Areas prefixed with the letters 'WA' denote those areas where a walkover survey only will be undertaken.
- 1.1.1.6 The locations of the assets below can be found on Figure 1 within annex 5.1: Desk Based Assessment.
- 1.1.1.7 The outputs of the Field Walking Survey were used to develop a scope for follow on geophysical surveys, developed in consultation with Norfolk County Council and Historic England.

Table 1.1: Site walkover survey.

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
GS1	38342 and 38341	TG 1159 4322 to TG 1178 4302	Possible Roman enclosure and field system and Bronze Age ring ditch cropmarks	Weybourne	Directly on the onshore cable corridor search area, high potential for significant buried archaeological deposits.	Sheet 1	13.63
Ground Cover	seedlings						
Slope	Gentle to north						
Notes	Tithe map of 1839 and first edition OS shows the site as four fields (now one) the latter showing a pit in the north-western field. Area marked as 'smallholdings on the OS Provisional Edition of the early post-war period.						
Field Boundaries	Hedges						
WA2	HER number 6246		Kelling Heath Mesolithic flint-working site	Kelling	The site is now part of a caravan park.	Sheet 2	2.88
Ground Cover	Caravan Park/heathland						
Slope	Towards railway in N.						
Notes	Well-known Mesolithic flint-working site excavated between 1924 and 1926. Large numbers of Mesolithic worked flints and waste from flint-working were recovered from in situ deposits. Some of the flints are now thought to date to the Upper Palaeolithic. Access uncertain – viewed from PROW only. Heathland on Tithe map of 1839 Ground cover precludes finds.						
Field Boundaries	n/a/						
GS2	36425 and 32947	TG 1173 3847 to TG 1161 3813	Complex of undated cropmarks and possible medieval building.	Baconsthorpe	Onshore cable corridor search area passes between the two recorded heritage assets just west of Baconsthorpe Castle. Potential that previously unrecorded archaeological remains continue through this area.	Sheet 3	16.79
Ground Cover	Seedlings						
Slope	Site is relatively level						
Notes	Onshore cable corridor search area is well screened from nearby SM (Baconsthorpe Castle). No finds/features.						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Field Boundaries	Hedges, some very tall						
GS3	No recorded HER data in vicinity		Hempsted Booster Station Site	Hempsted	Booster Station. Permanent Structures and relatively large area of high impact	Sheet 4	2.51
Ground Cover	n/a						
Slope	n/a						
Notes	No Access Tithe map of 1839 shows two fields with Booster Station site in the northern. Plantation woodland to W shown on Tithe, as is the road to the N.						
Field Boundaries	n/a						
GS4	No recorded HER data in vicinity		Edgefield Booster Station	Edgefield	Booster Station. Permanent Structures and relatively large area of high impact	Sheet 5	2.5
Ground Cover	Seedlings/rough grass/bare earth. Part of site being used for woodland management, with large logs and a cabin in the north						
Slope	Slight slope in to shallow dry valley to east.						
Notes	No finds/features. No trace of boundaries within field shown on OS. Road pattern and woodland to W. as shown on Tithe map. Wood to N has encroached further south subsequently. Current large field was three on tithe						
Field Boundaries	Woodland to N. Hedges, some with mature trees around remainder of field						
GS5	38157		Barningham Green Booster Station	Barningham	Booster Station. Permanent Structures and relatively large area of high impact.	Sheet 6	2.53
Ground Cover	Seedlings						
Slope	At the base of a shallow dry valley running roughly NW to SE.						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Notes	Located in a large arable field immediately south of the woodland at Barningham Green Plantation. Tithe map marks the plantation and area to the N. as 'The Heath'. Field in which Booster Station site located shown as three fields. Most of Barningham Green Plantation except area immediately N of Booster Station site shown on 1 st Edition OS. Most of the woodland not shown on 1946 aerial photographs, so presumably felled and replanted. A fragment of a medieval buckle was found in this area by metal detecting in 2002.						
Field Boundaries	Woodland to N. otherwise hedges						
GS6	32737, 33443, 32150, 33386, 32872, 31877	TG 1102 3268 to TG 1069 3107	Multi-period finds from metal detecting	Corpusty	Potential for significant buried archaeological deposits.	Sheet 7	17.07
Ground Cover	Grass in the narrow field containing the stream. Otherwise arable – ploughed and seedlings						
Slope	Mostly to S.						
Notes	Metal detecting within these fields has produced significant quantities of Roman and early Anglo-Saxon artefacts indicating a high potential for associated buried archaeological remains. Faint (unrecorded) rectilinear cropmarks are visible on Google Earth within field containing NHER 32872. Numerous relatively small land divisions on tithe. Mostly arable by the time of the 1946 aerial photos and similar disposition in 1998. Much field boundary removal No finds or features.						
Field Boundaries	Hedges						
GS7	6676, 32962, 37256			Saxthorpe	Significant quantities of medieval finds suggest medieval settlement activity at this location with potential for surviving buried archaeological deposits.	Sheet 8	12.73
Ground Cover	Arable – ploughed/seedlings						
Slope	To SW towards River Bure						
Notes	Mostly arable by the time of the 1946 aerial photos and similar disposition in 1998. Much field boundary removal No finds or features.						
Field Boundaries	Hedges						
GS8	56166	TG 1128 2555	Cropmarks of two ring ditches	Salle	Ring ditch cropmarks located directly on/adjacent to the route. Potential for significant buried archaeological deposits, including secondary burials.	Sheet 9	3.17

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Ground Cover	Young Brassica Crop. The field containing the stream to the N is under grass.						
Slope	level						
Notes	The tithe map of 1840 shows two fields. No finds/features						
Field Boundaries	Hedges						
GS9	7466 and 29291	TG 1120 2490	Saint Peter and Pauls Church and multi-period finds	Salle Church	High potential for significant buried archaeological deposits relating to Anglo-Saxon to medieval settlement.	Sheet 10	3.62
Ground Cover	Arable - site partly covered in plastic over brassica crop						
Slope	Relatively level						
Notes	Onshore cable corridor passes adjacent to the medieval church through a field from which Roman, Anglo-Saxon and medieval artefacts have been recovered. Church of Saints Peter and Paul, Salle listed at Grade I (list entry number 1306145) Salle Memorial Hall listed at Grade II (list entry number 1423849) Salle Park – Registered Park and Garden – Grade II (list entry number 1001016) Tithe map of 1840 shows a similar disposition to the current, including the boundary of the churchyard. No finds/features.						
Field Boundaries	Hedges/churchyard wall						
GS10	7472, 50194, 2796	TG 1234 2254 to TG 1236 2222	St Michael and All Angels' Church, medieval coin finds and Roman road	Booton	High potential for significant buried archaeological deposits. High potential for significant buried archaeological deposits relating to Anglo-Saxon to medieval settlement.	Sheet 11	2.93
Ground Cover	Arable – ploughed to S of road, arable – seedlings to N of road						
Slope	level						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Notes	Onshore cable corridor search area passes adjacent to the church (Victorian rebuild on medieval site) through a field from which medieval to post-medieval artefacts have been recovered, as well as crossing the line of the Roman road. Church of St Michael and All Angels listed at Grade II* (list entry number 1342776. Five further Grade II listed buildings in vicinity. Tithe map of 1839 shows the church in its churchyard, which is as the current disposition. Church Farm to the E is shown but no other buildings are marked and the rectory is absent, first appearing on the first edition OS in a small parkland like parcel. Aerial photographs of 1946 show the wider area as arable.						
Field Boundaries	Hedgerows						
GS11	34149, 53472	TG 1213 1873 to TG 1235 1841	Cropmarks of ditches of possible Iron Age to Roman date and finds including tesserae.	Alderford	Directly on onshore cable corridor search area. High potential for significant buried archaeological deposits.	Sheet 12	3.05
Ground Cover	n/a						
Slope	n/a						
Notes	No access						
Field Boundaries	n/a						
GS12	50649	TG 1269 1732 to TG 1246 1692	Cropmarks of Bronze Age round barrow cemetery	Attlebridge/Morton on the Hill	High potential for further previously unidentified heritage assets on both sides of the River Wensum.	Sheet 13	21.47
Ground Cover	Mostly grass, although large field between The Street road and the River Wensum has in the past been arable, according to aerial photographs.						
Slope	Level						
Notes	Onshore cable corridor search area passes through barrow cemetery Tithe map shows area as several fields, possibly representing ridge and furrow. Field boundary removal had taken place by the First edition OS. No finds of features – no sign of earthworks.						
Field Boundaries	Hedgerows/post and wire fencing						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
GS13	7803	TG 1249 1346	Site of probable Bronze Age barrow	Ringland	Immediately adjacent to onshore cable corridor search area. High potential for significant buried archaeological deposits, including secondary burials.	Sheet 14	2.26
Ground Cover	Grass						
Slope	Slopes to E						
Notes	Tithe map shows site in a long narrow field orientated NW-SE, with woodland to the SW. Shown as heathland on first edition OS. No finds or features						
Field Boundaries	Pig pens to N and E. Woodland to W. Hedgerow and road to S.						
GS14	7827	TG 1284 1094 to TG 1291 1081	St Peter's Church	Easton	High potential for significant buried archaeological deposits relating to Anglo-Saxon to medieval settlement.	Sheet 15	0.9
Ground Cover	Young Brassica Crop						
Slope	Gentle slope to N						
Notes	Onshore cable corridor search area passes adjacent to the medieval church Tithe map shows Easton church on the north side of the Turnpike Road, with a small triangular area of woodland to the south. Current disposition of churchyard is as shown on the tithe, as is the field surrounding. No finds or features						
Field Boundaries	Hedgerows, woodland, containing remains of old road, divides area from A47 road.						
GS15	15898, 19755, 20010-1			Broom Farm	High potential for significant buried archaeological deposits	Sheet 16	3.08
Ground Cover	Arable – seedlings						
Slope	Slight slope to N						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Notes	The cropmarks of an area of enclosures and fields of probable Roman date are visible on aerial photographs to the west of Easton village. The site consists of a main concentration of enclosures and ditches, surrounded by more fragmentary and dispersed boundaries. The vast majority of the boundaries appear to follow a broadly follow a dominant alignment, although it is possible that the site represents domestic and agricultural enclosures and fields of more than one phase. Finds of a Prehistoric and Roman date have been found within the general vicinity (NHER 15898, 19755, 20010-1). Given the morphology of the cropmarks a Roman date for the site seems the most plausible.						
	Tithe map shows Fouracre Plantation to the E, still there, as is fir Covert to the S., first shown on the first edition OS. No finds/features.						
Field Boundaries	Hedgerows						
GS16	9421, 19771, 22602, 9411, 22746	TG 1520 0692 to TG 1546 0660	All Saints' Church, medieval moat and medieval finds	Little Melton	High potential for significant buried archaeological deposits relating to Anglo-Saxon to medieval settlement.	Sheet 17	4.17
Ground Cover	Arable - seedlings						
Slope	Level						
Notes	Onshore cable corridor search area passes between the medieval church and a moated site.						
	Little Melton enclosure map shows the area with the church to the N and moat to the SW. The area is divided into several fields. First edition OS shows more detail of the moated site, with a U-shaped moat and a further water filled feature to the SE. Aerial photographs of						
Field Boundaries	Hedgerows						
GS17	18558	TG 1808 0368	Cropmark of Bronze Age ring ditch	Ketteringham	Directly on onshore cable corridor search area. High potential for significant buried archaeological deposits, including secondary burials.	Sheet 18	1.71
Ground Cover	Arable – young brassica crop						
Slope	Relatively level						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Notes	Bronze Age ring ditch recorded on HER						
	Tithe shows single large field. The first edition OS shows a triangulation station in the field, which may be visible on aerial photographs of 1946.						
	Overhead Cables on E edge of field						
	No finds or features						
Field Boundaries	Hedgerows – plantation woodland to E.						
GS18	11691, 52128		Mangreen South	Swardeston	Onshore Substation. Permanent Structures and relatively large area of high impact	Sheet 19	9.98
Ground Cover	Arable - seedlings						
Slope	Slopes gently to NW						
Notes	HER records cropmarks of an undated rectangular enclosure (HER number 11691). In addition, earthworks of post medieval field boundaries are recorded within the grounds of Keswick Hal (HER number 52128).						
	Tithe map shows two fields to the S. of Keswick Hall, as does the first edition OS. Areas apparently not part of the parkland of either Keswick Hall or Mangreen Hall. Field amalgamated after construction of A47 Norwich South Bypass after 1988. .						
Field Boundaries	Hedgerows						
GS19	52134	TG 2121 0306 to TG 2169 0270	Mangreen Hall Earthworks of medieval to post medieval enclosures and boundaries surrounding Mangreen Hall	Swardeston	High potential for significant buried archaeological deposits relating to Anglo-Saxon to medieval settlement.	Sheet 20	11.3
Ground Cover	Arable - seedlings						
Slope	Level						
Notes	Onshore cable corridor search area passes through area of recorded cropmark and earthwork evidence.						
	Tithe shows area comprises fields immediately S. and slightly further W. of Mangreen Hall. Apparently not part of the parkland then or on the first edition OS.						
	No finds or features						

Survey Area No.	HER Ref	NGR	Site Name/Description	Parish	Archaeological Potential	Sheet Number (Figure 1.1)	Walkover Area Ha
Field Boundaries	Hedgerows						
GS20			Swainsthorpe	Swainsthorpe	Onshore Substation. Permanent Structures and relatively large area of high impact	Sheet 21	10.14
Ground Cover	Arable - seedlings						
Slope	Slopes from N. into dry valley running E-W in centre.						
Notes	First edition OS marks 'Site of Humble Yard' as an antiquity some 270 m to the W and 'Site of St James Chapel' further west. Immediately S. of Norwich Main substation No finds or features						
Field Boundaries	Mostly hedgerows, but to N. also by track with railway bridge to E.						
WA1			Wattle Cottage	Wattle Cottage		Sheet 22	
Ground Cover							
Slope							
Notes	Forms part of Mangreen Hall area and notes above apply.						
Field Boundaries							



Figure 1.1: Walkover Survey Area GS1.

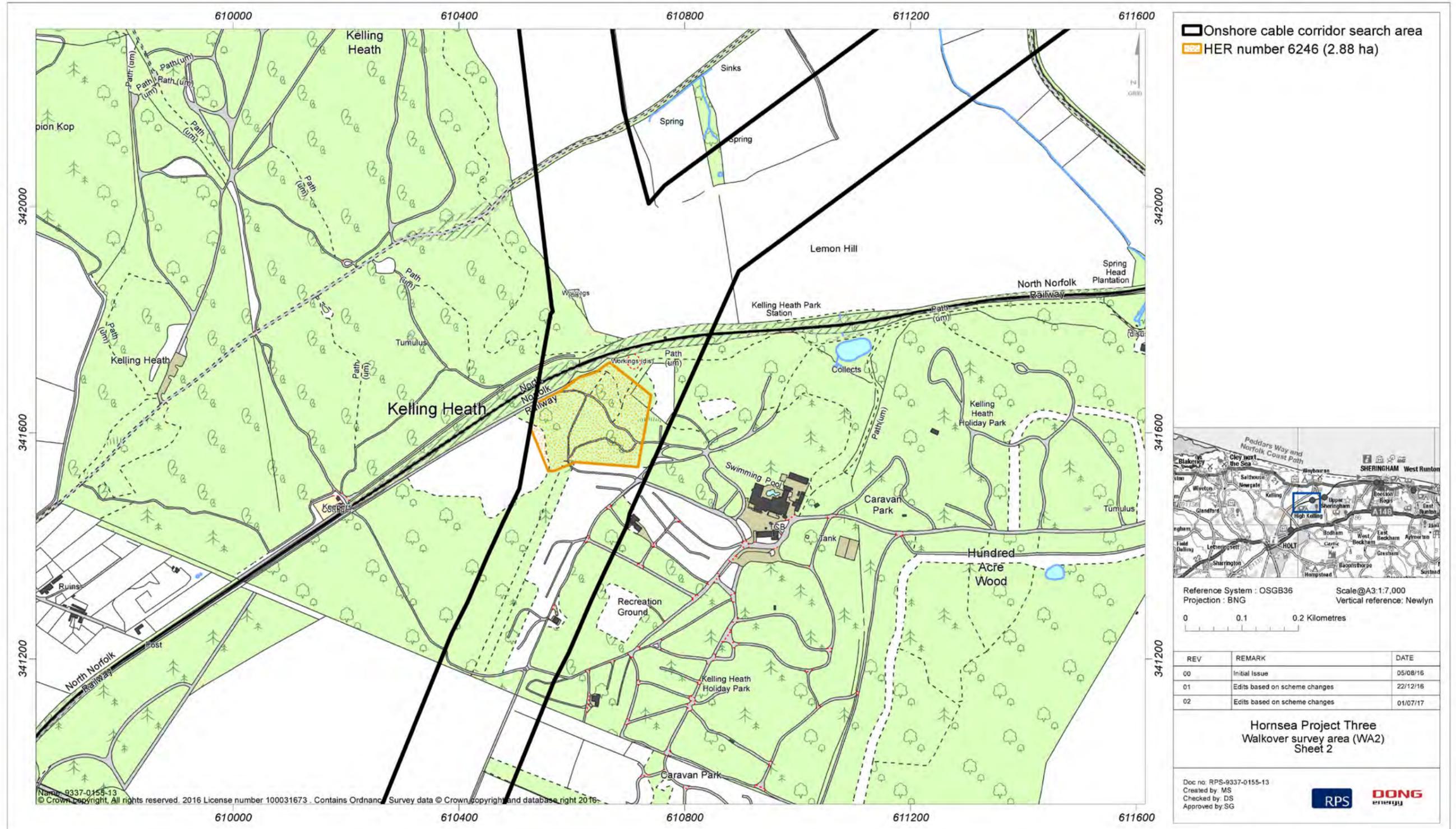


Figure 1.2: Walkover Survey Area WA2.



Figure 1.5: Walkover Survey Area GS4.

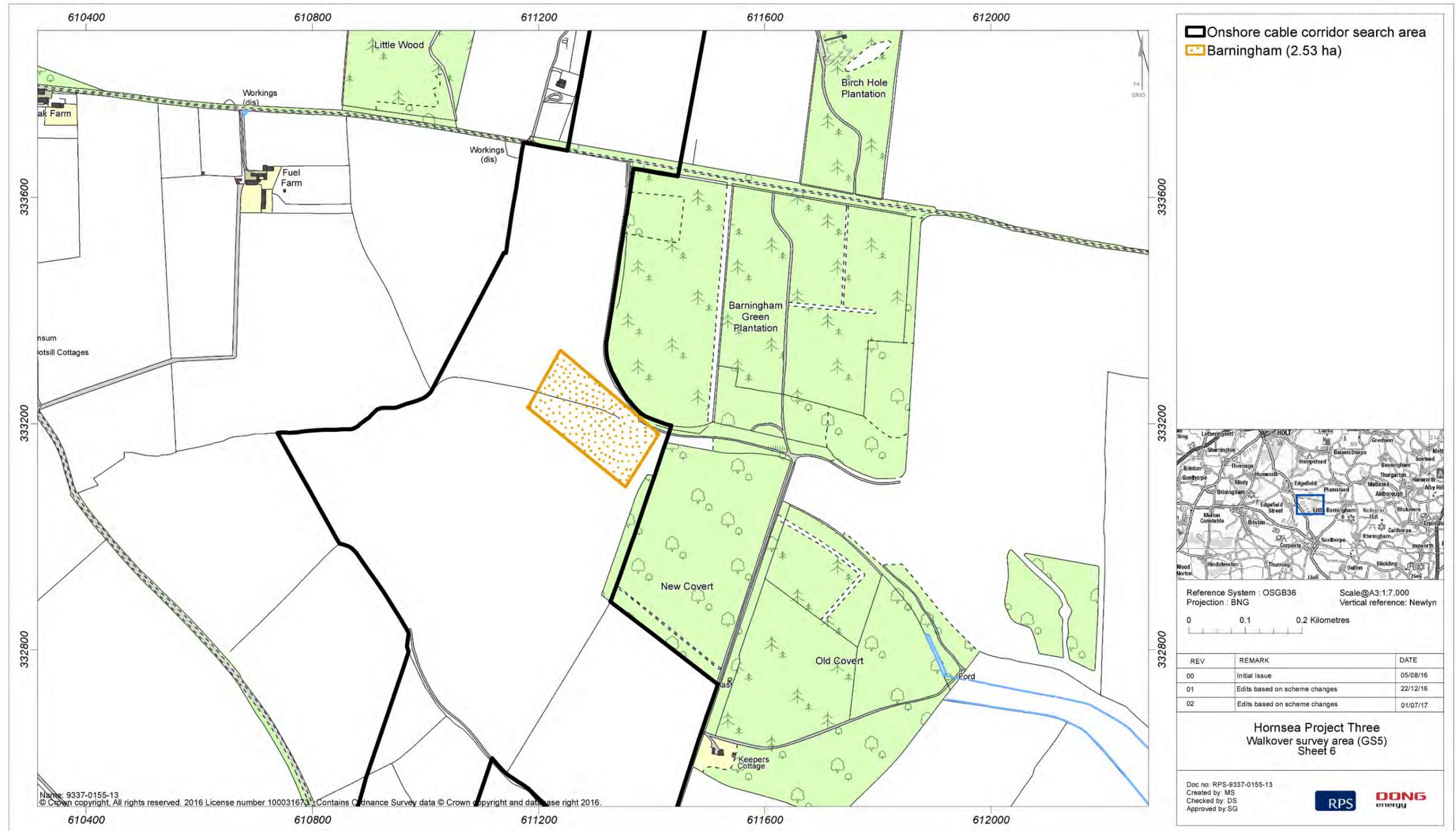


Figure 1.6: Walkover Survey Area GS5.

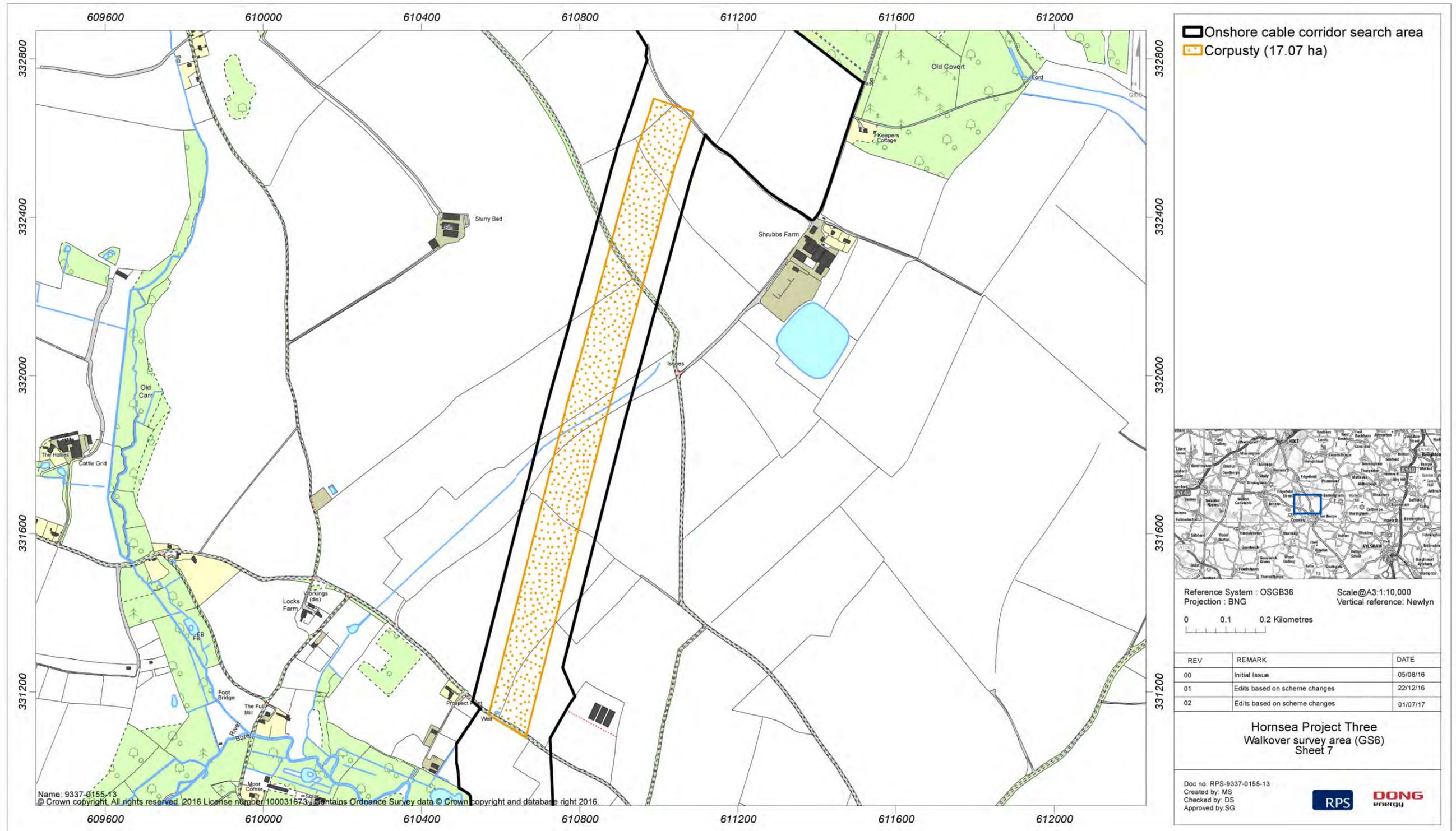


Figure 1.7: Walkover Survey Area GS6.



Figure 1.8: Walkover Survey Area GS7.

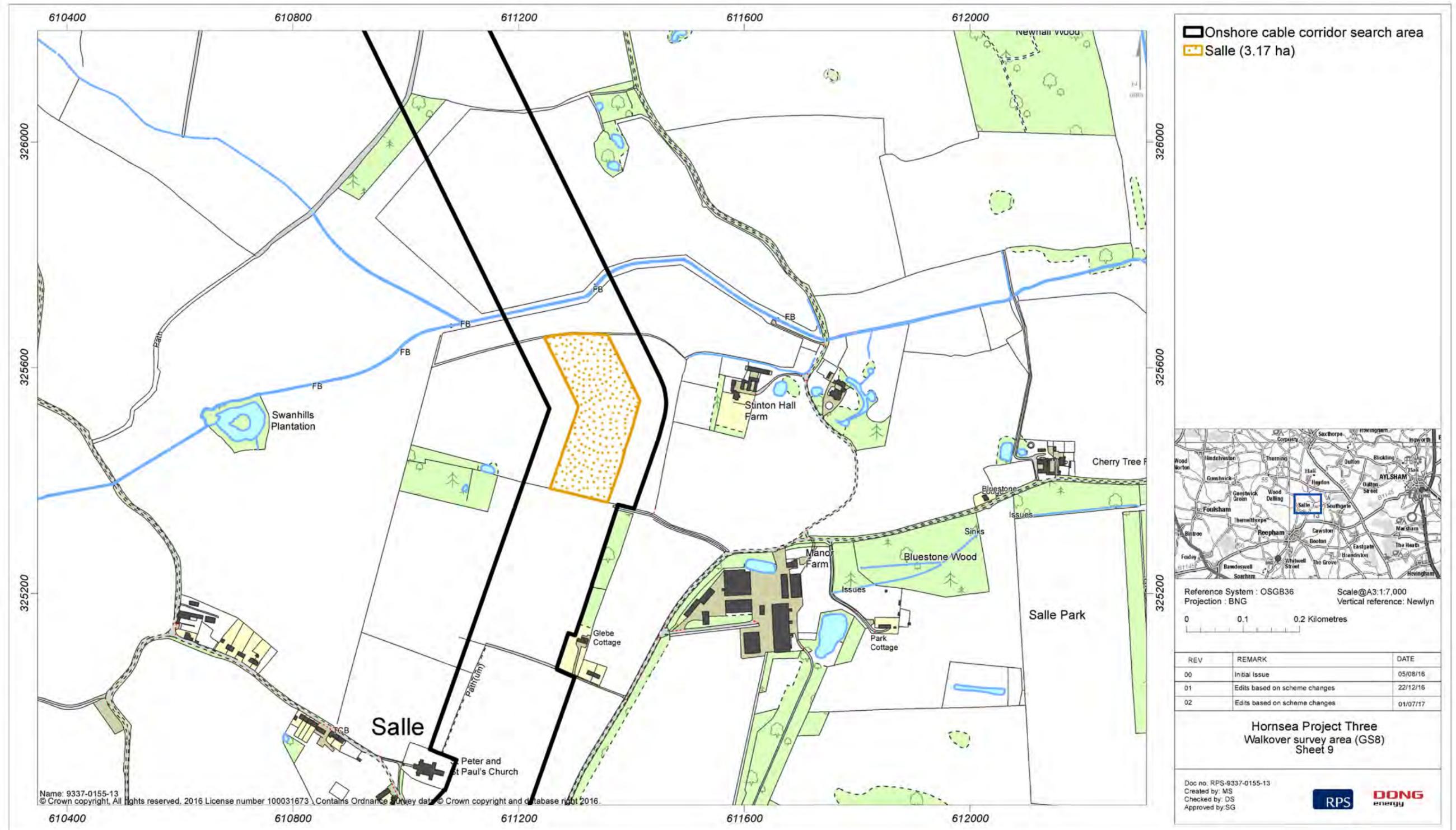


Figure 1.9: Walkover Survey Area GS8.



Figure 1.10: Walkover Survey Area GS9.



Figure 1.11: Walkover Survey Area GS10

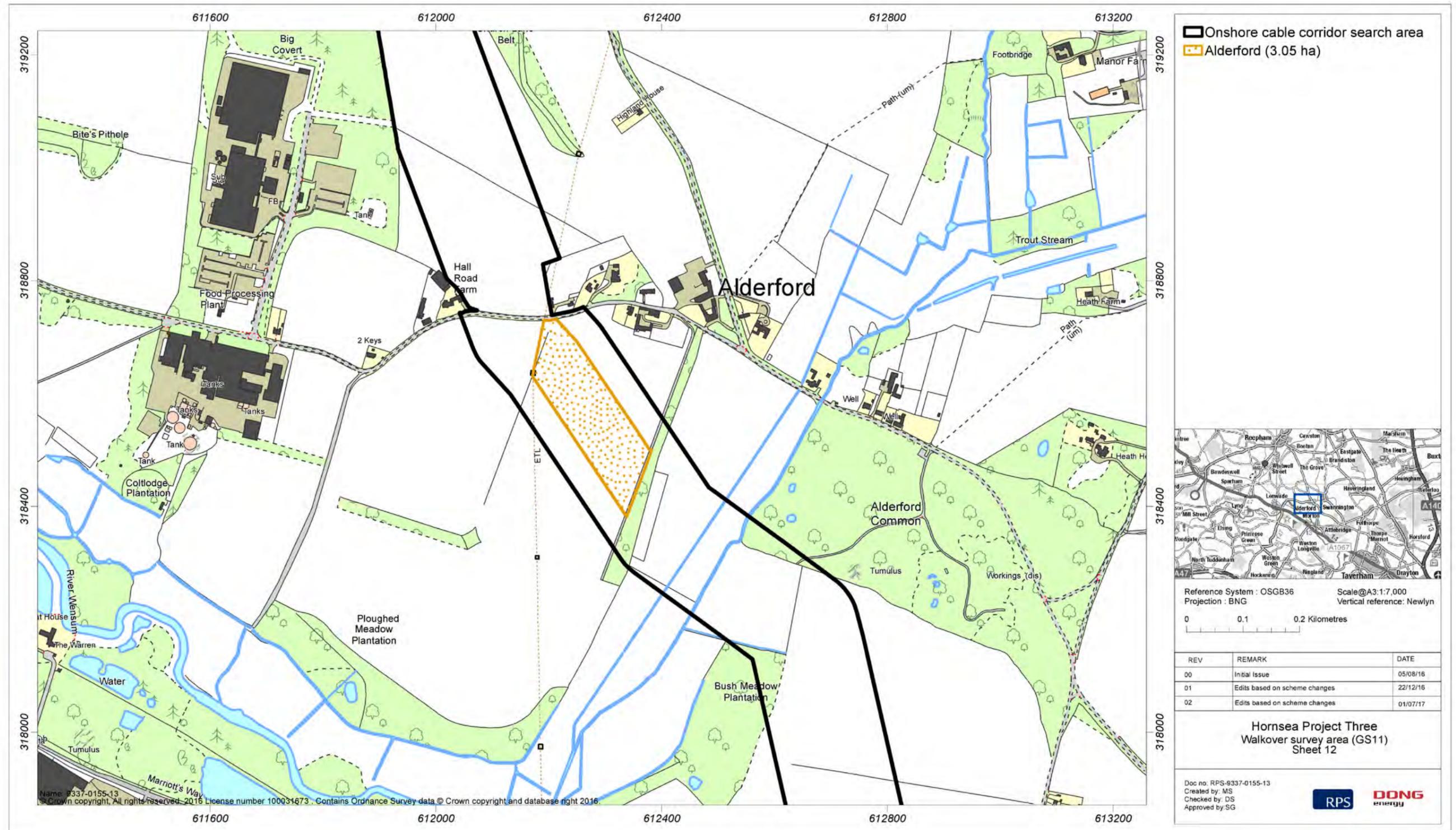


Figure 1.12: Walkover Survey Area GS11.

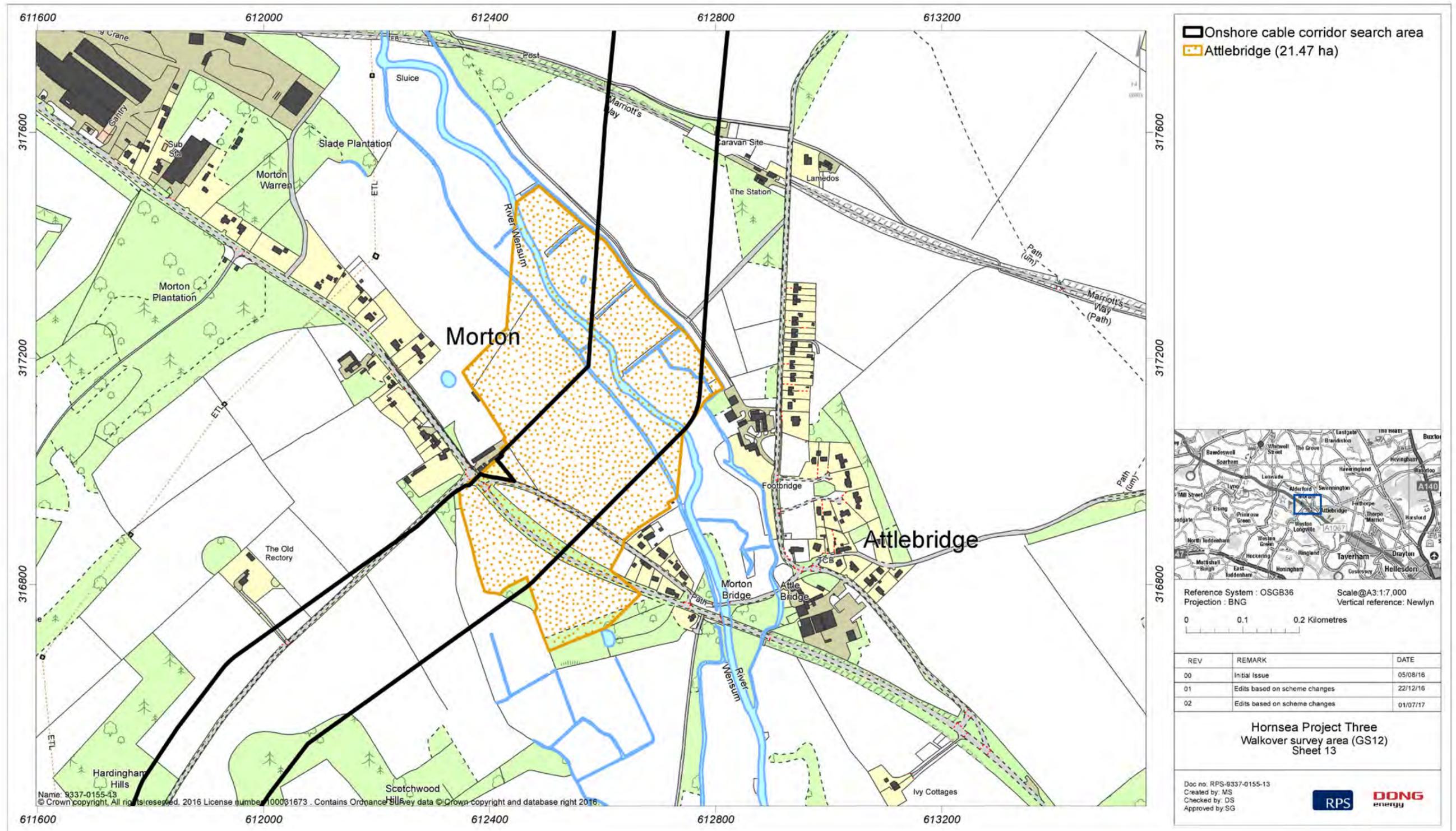


Figure 1.13: Walkover Survey Area GS12.

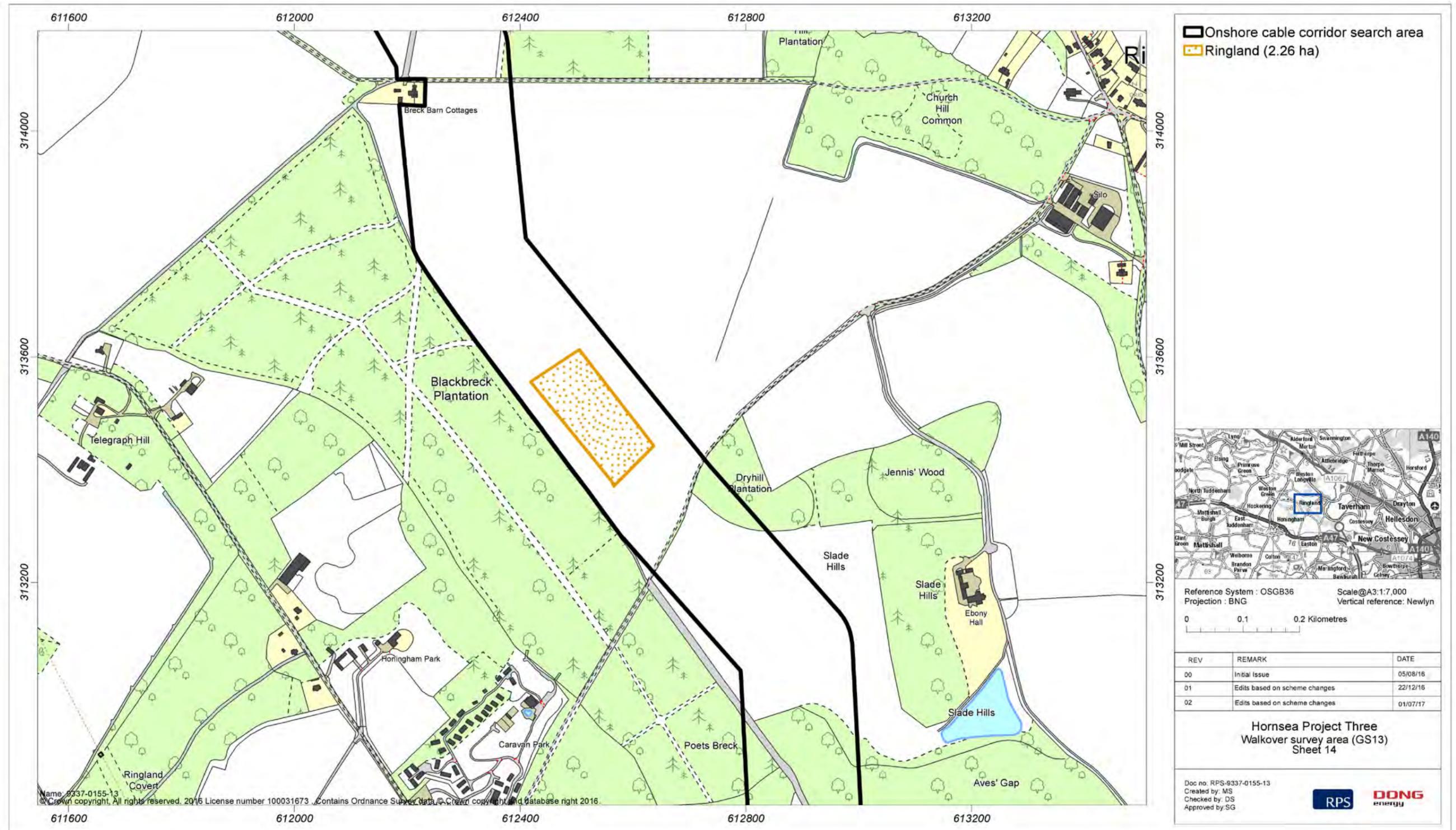


Figure 1.14: Walkover Survey Area GS13



Figure 1.15: Walkover Survey Area GS14



Figure 1.16: Walkover Survey Area GS15

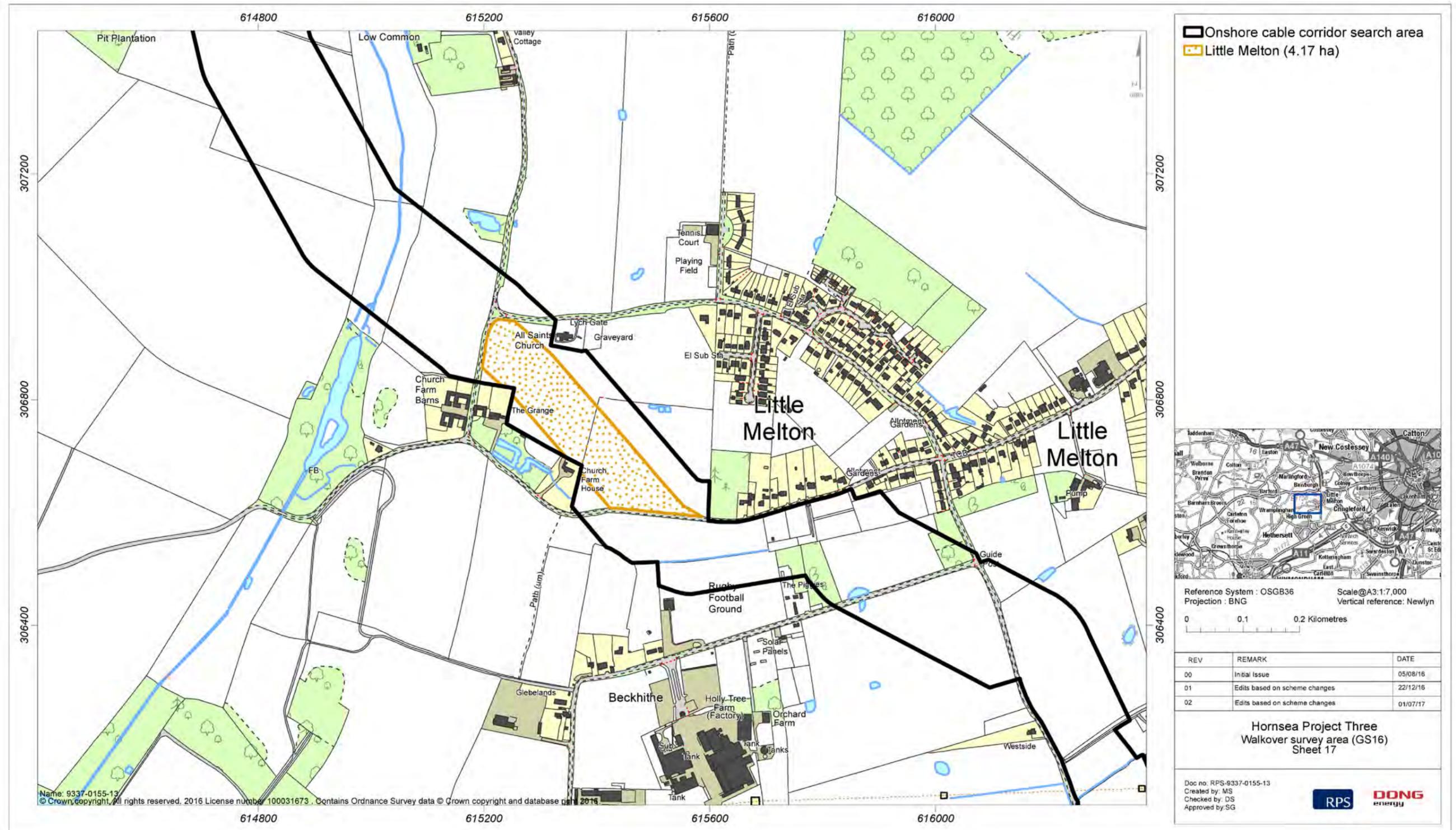


Figure 1.17: Walkover Survey Area GS16.

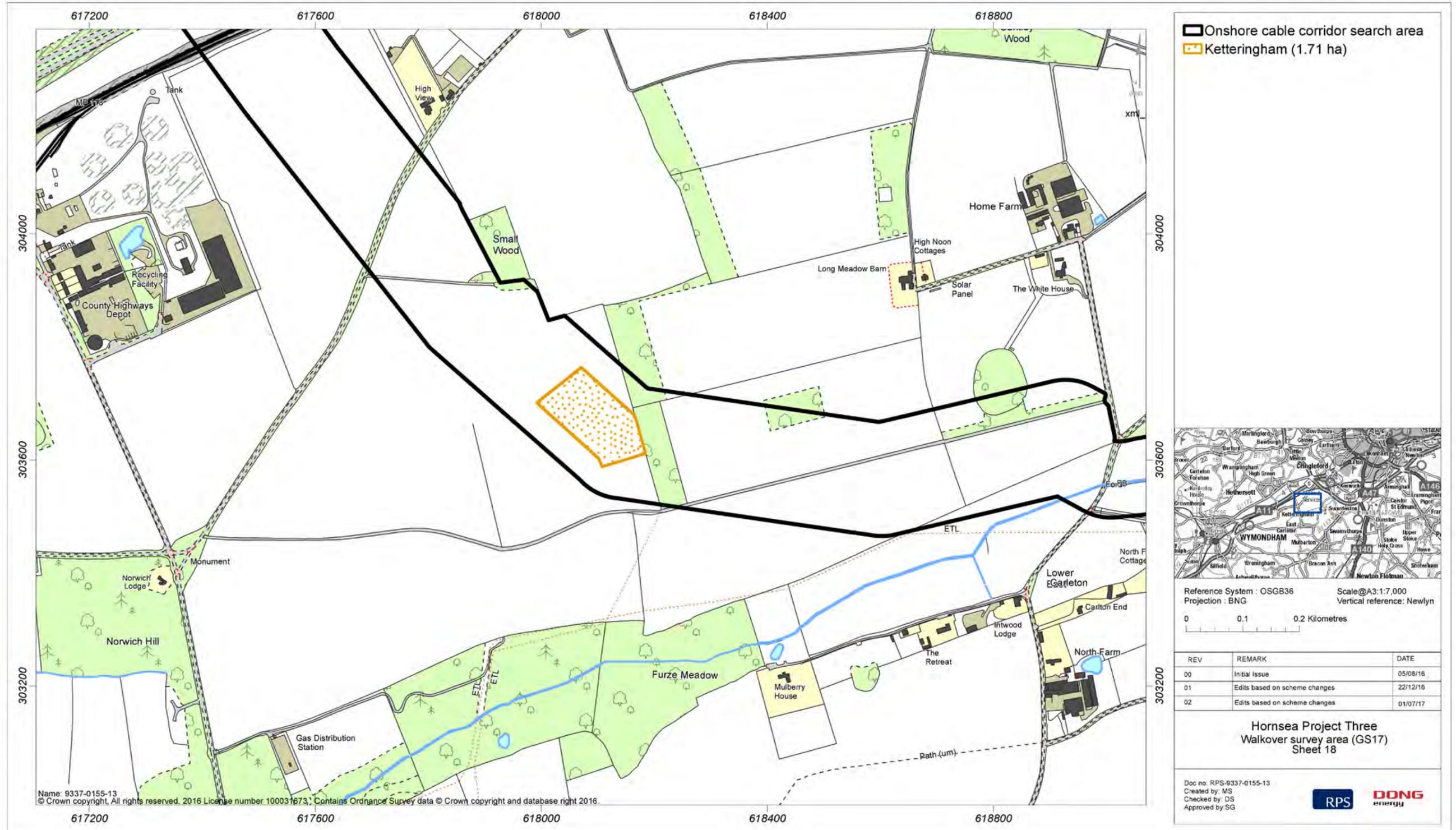


Figure 1.18: Walkover Survey Area GS17.



Figure 1.19: Walkover Survey Area GS18.



Figure 1.20: Walkover Survey Area GS19.

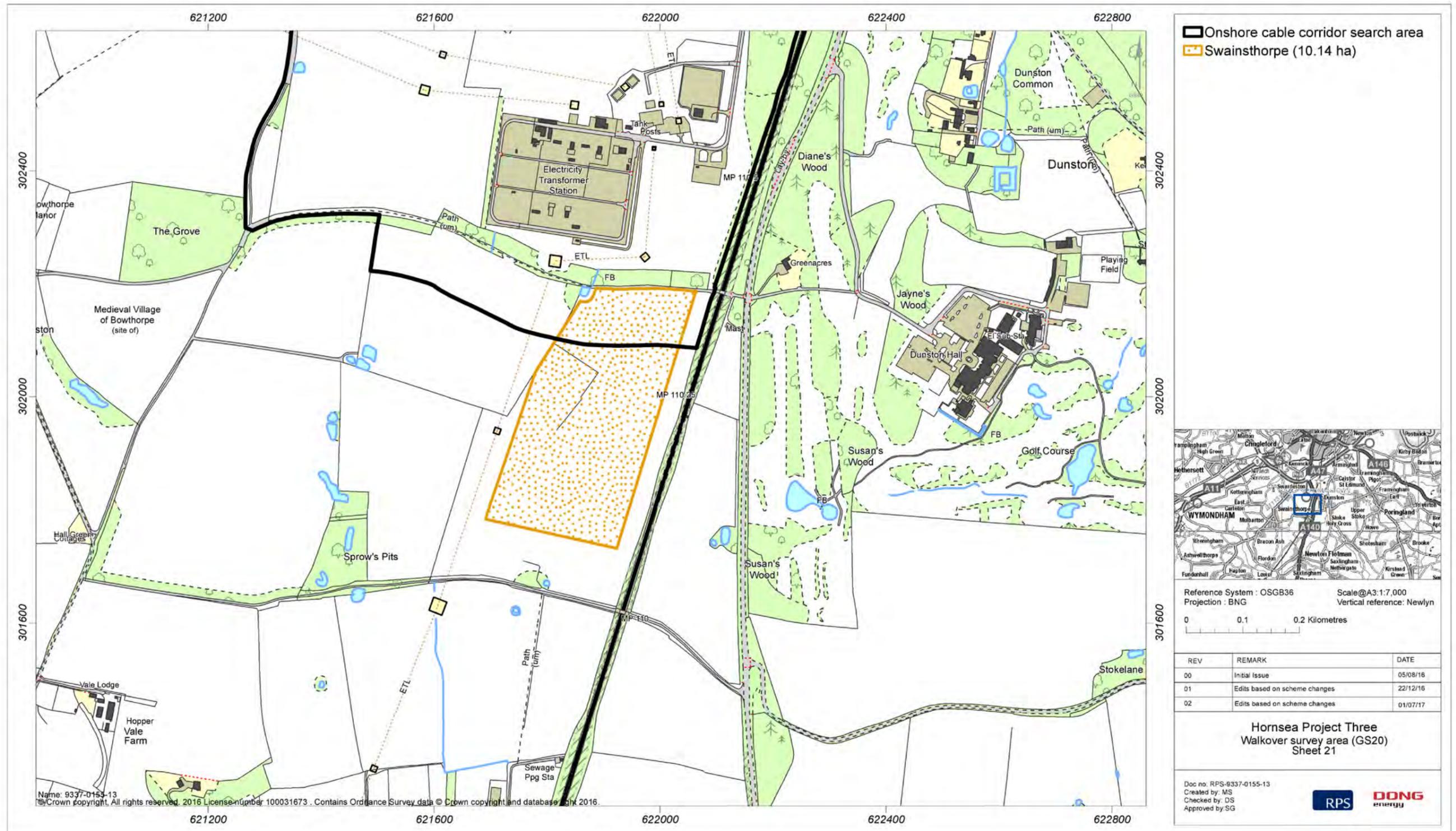


Figure 1.21: Walkover Survey Area GS20.



Figure 1.22: Walkover Survey Area WA1.