

**ECOLOGICAL SURVEY AND
IMPACT ASSESSMENT**

**PROPOSED CABLE ROUTE
CORRIDOR AND
SUBSTATION,
WALPOLE,
LINCOLNSHIRE &
NORFOLK**

for

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ENERGY LIMITED**

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REPORT OF ECOLOGICAL SURVEY AND IMPACT ASSESSMENT

PROPOSED CABLE ROUTE CORRIDOR AND SUBSTATION, WALPOLE, LINCOLNSHIRE & NORFOLK

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1.0 SUMMARY

- 1.1 Lapwings Consultants Ltd has been commissioned by Centrica, through RPS Group, to undertake ecological surveys along the corridor of a proposed electricity cable taking power from off-shore wind farms to a new sub-station near Walpole St Andrew. The scope of the ecological surveys was to identify the use made of the study area by badgers, otters, water voles, spined loach, great crested newts, reptiles, foraging bats, the farmland breeding bird community, breeding waders on the saltmarsh, and to determine if any hedgerows are of nature conservation importance. The surveys were undertaken in the period mid-May to mid-July and early-mid September 2006.
- 1.2 This report presents the results of the surveys and makes an assessment of nature conservation interest of the site for the groups concerned, and examines potential impacts from, and mitigation for, the proposed cable installation and sub-station construction.
- 1.3 There are between 14 and 19 pairs of redshank nesting on the area of saltmarsh directly out from the east-west running sea wall and possibly 1 pair of oystercatchers.
- 1.4 77 birds species were recorded using the farmland cable route corridor, of which 49 species were breeding and 10 species were probably breeding, with no breeding activity being observed for the remaining 18.
- 1.5 The most notable breeding species were marsh harrier (Annex 1 Birds Directive and Wildlife & Countryside Act Schedule 1); and grey partridge, turtle dove, skylark, song thrush, spotted flycatcher, tree sparrow, linnet, reed bunting and corn bunting (all UK BAP Priority Species). Also breeding and on the BTO Red List as Species of High Conservation Concern were starling, house sparrow and yellowhammer. Breeding birds on the BTO Amber List as Species of Medium Conservation Concern were oystercatcher, stock dove, cuckoo, swallow, house martin, meadow pipit, yellow wagtail, dunnock, mistle thrush and goldcrest.
- 1.6 No signs of badger use of the part of the cable route study area to which there was accesses were seen, and no setts were found. No road casualty badgers were seen. No signs of use of the study area by water vole and otter, where access was allowed, were seen. No reptiles or their field signs were seen along the cable route corridor or around the periphery of the existing sub-station. None of the drains were suitable for spined loach.
- 1.6 No great crested newts were found in the ponds at Rose Hall Farm, the pond NW of Kamerad Farm, or the pond at Crown Farm at Walpole Cross Keys.
- 1.7 The foraging bat surveys show that the area of the cable route and proposed substation is used by 3 species of bat for foraging (Daubenton's bat, 45 pipistrelle bat and an unidentified *Myotis* species) and may be used by a fourth species (55 pipistrelle bat). The activity of the Daubenton's bat was centred on a large wet drain, whereas the pipistrelle activity occurred over terrestrial habitats, with some use also being made of the drains. Pipistrelle activity is centred on areas of shelter, which was provided by woodlands, field and roadside boundaries and farm and domestic buildings. The single record of the *Myotis* bat was made near a drain. There is very little or no bat activity

in the extreme north of the cable route corridor and there is very little use of the arable land.

- 1.8 The diversity of native woody species in field boundary and roadside hedges is very limited and no hedgerow reaches or exceeds the threshold for importance for UK Biodiversity or for wildlife under the terms of the Hedgerow Regulations.
- 1.9 The proposal for the cable to be directionally drilled under the entire saltmarsh would avoid significant adverse impact on the waders using the marsh at any time of year.
- 1.10 The installation of the cable and construction of the substation have the potential to cause loss of occupied nests and disturbance to breeding birds. Mitigation options could include timing of all or part of the works to avoid the bird breeding season; the identification of which crops would not be suitable for breeding harriers or waders and use these crops once a preferred route had been identified; directionally drill under major watercourses; and the management of field boundary and ditch habitats such that they are temporarily unsuitable for breeding birds.
- 1.11 Currently there would be no impact on badger since no setts would be affected, no significant foraging areas lost or disturbed, and no well-used paths blocked. However, once the preferred route is known, it would be necessary to monitor the use of this by badgers in case a sett became established and/or an area became used significantly for foraging. Currently, no badger mitigation is required, and if the monitoring continues to show that this situation is same, no mitigation would be required in the future. However, since it is known that badgers do use the area at a very low level, it would be necessary to ensure that badgers did not come to harm by falling into open excavations by using simple mitigation measures. If the monitoring results in the discovery of a badger sett which may be affected by the proposed works, it would be necessary to immediately close the sett, under the terms of a licence.
- 1.12 There would be no impact from the installation of the cable or the construction of the substation on otters. There is no need for mitigation for this species. The directional drilling of the cable under the larger wet drains would ensure that otters on passage would not be affected.
- 1.13 Since water voles are absent there is no potential for adverse impact on this species. However, since water voles may be present outside the corridor and could colonise in future, the proposed directional drilling of the larger wet drains would remove any potential for impact should water voles occur.
- 1.14 There would be no impact on spined loach. There is no need for mitigation for this species. The proposed directional drilling of the larger wet drains would ensure that if spined loach did occur in these watercourses there would be no significant affect.
- 1.15 The majority of the proposed cable route has very little potential to support reptiles and since it is likely that none or very few are present, the potential impact would be insignificant. The directional drilling of the larger wet drains and roads would not affect these habitats and any reptiles present. Elsewhere the cable route may affect habitats with reptiles, but mitigation undertaken in

advance of the works including removing refuges and close cutting of vegetation would ensure that no reptiles were inadvertently killed or injured.

- 1.16 Given the very limited use by bats of the open farmland, the potential impact of cable installation and substation construction would be insignificant. Potential impacts of greater significance may occur where linear features used by bats (ie hedges, lines of trees, lines of bushes and the larger wet drains) are affected by being temporarily breached. Mitigation would reduce this potential impact by temporarily covering the breach such that bats do not perceive gap which they may not cross. Breaches in hedges can be reinstated by planting. The directional drilling of the larger wet drains would not alter the habitat for bats therefore the potential impact would be of no significance.
- 1.17 From Marsh Road north to the sea wall, the potential impact on great crested newts is likely to be insignificant. No breeding pond would be affected. No mitigation is necessary. From Marsh Road southwards, the potential impact is not known; it may be of no significance. It is recommended that further attempts are made to gain access to the ponds where no survey was undertaken in order to determine if newts occur, to identify potential constraints.
- 1.18 The potential impact on hedgerows is not significant. Short lengths may be temporarily lost, but reinstatement of the gaps would restore the hedges.

2.0 INTRODUCTION

2.1 Lapwings Consultants is a wholly owned trading company of the Lincolnshire Wildlife Trust with four Directors appointed by the Board of the Trust. The Trust aims to safeguard wildlife and wild places and to promote a better understanding of nature conservation. Lapwings Consultants' service is operated in the interests of good standards of conservation and management and all profits are covenanted to the Trust to enable it to further its aims.

Lapwings Consultants is a member of the Association of Wildlife Trust Consultancies, a body set up by The Wildlife Trusts (Royal Society of Wildlife Trusts), to monitor and advise Trust consultancies on matters relating to professionalism, standards and quality of service.

2.2 The Consultancy has access to a wide range of expertise in key ecological and environmental areas, covering

- 1) Habitat and Species Monitoring and Survey
- 2) Habitat Creation and Restoration
- 3) Biological Records Database
- 4) Wildlife and Countryside Management Plans
- 5) Wildlife Interpretation, Education and Training
- 6) Land Management Advice

2.3 Lapwings Consultants Ltd has been commissioned by Centrica, through RPS Group, to undertake ecological surveys along the corridor of a proposed electricity cable taking power from off-shore wind farms to a new sub-station near Walpole St Andrew. The scope of the ecological surveys was as follows:

- to identify the use made of the study area by badgers
- to identify the use made of the study area by otters
- to identify the use made of the study area by water voles
- to identify the use made of the study area by spined loach
- to identify the use made of the study area by great crested newts
- to identify the use made of the study area by reptiles
- to identify the use made of the study area by foraging bats
- to identify the farmland breeding bird community
- to identify the use made of the saltmarsh by breeding waders
- to determine if any hedgerows are of nature conservation importance

2.4 The surveys were undertaken in the period mid-May to mid-July 2006 and in early to mid September 2006.

2.5 This report presents the results of the surveys and makes an assessment of nature conservation interest of the site for the groups concerned, and examines potential impacts from, and mitigation for, the proposed cable installation and sub-station construction.

3.0 SITE DESCRIPTION

- 3.1 The terrestrial cable route corridor runs from the eastern side of the R. Nene outfall (north of the East Lighthouse) inland to the existing electricity substation near Walpole St Andrew. The area of saltmarsh of The Wash which was covered by the breeding wader survey is a seaward extension of the cable route corridor out from the sea wall.
- 3.2 As shown by the Phase 1 survey undertaken by RPS Group, the cable route corridor is one dominated by arable land, with field boundary ditches and some hedges, particularly in the south. There are scattered farms and houses, often with surrounding shelter belts.

4.0 METHODS

4.1 Breeding waders on saltmarsh

Four breeding wader survey visits were made, on 7, 19 and 27 June and 8 July 2006, to the saltmarsh area which is the seaward extension of the cable route corridor, as shown in Figure 1.

Each visit started between 04:15 and 04:45 and finished between 10:15 and 10:30.

On each visit north/south and east/west transects were walked slowly across the saltmarsh. Transects were at c100m intervals and followed the 100m OS grid northings and eastings, of which there were 7 north/south (494, 495, 496, 497, 498, 499 & 500) and 5 east/west (267, 268, 269, 270 & 271), and they were walked using a handheld Magellan GPS for navigation purposes. Due to the nature of the saltmarsh, with several deep creeks, a certain amount of backtracking was necessary to reach points where creeks could safely be crossed. The east/west transect along easting 271 roughly followed the average high water mark. To the north of this line the saltmarsh was not suitable for nesting waders due to it being regularly covered by tides and was therefore not surveyed.

After the north/south transects had been walked, about half an hour was spent watching the saltmarsh from the sea bank before covering the east/west transects. This allowed disturbed birds to settle down between the two sets of transects.

The area of saltmarsh in the southwest corner of the site, around the sluice, could not be covered easily by transects. However because of its small size, it was covered by walking across it randomly.

The breeding wader survey method is the standard method used by RSPB for lowland waders (O'Brien & Smith, 1992).

4.2 Breeding farmland birds

The c500m wide corridor as shown in Figure 1 which encompasses the proposed cable route and substation site was walked 6 times in the period mid-May to mid-July, where access was permitted, recording and mapping the activity of all birds encountered according to the standard Common Bird Census (CBC) / registration mapping method.

Data analysis allowed the definition of the number and location of territories held by each species encountered, where the data were sufficient for this purpose.

4.3 Badger

The survey for badgers involved the searching of ditches, their banks and old and current sea banks, and land between, for setts and other signs of use by badgers. Observations were made for road casualty animals on highways within and outside the survey area. The area surveyed for badgers is shown in Figure 1.

4.4 Otter

The survey of the cable route study area (Figure 1) for otters comprised the general examination of watercourses for signs of use by otters, and particular examination of bridges and culverts for signs of their use and passage, particularly footprints,

sprints and feeding remains.

4.5 Water vole

Watercourses in the cable route study area were examined in the field for the presence of, and use by, water voles. The watercourses looked at were those earlier identified by the protected species survey as having potential for water voles (shown in Figure 1):

- 1 Borrow pit behind N-S seawall TF 495 266
- 2 Drain behind sea wall TF 494 263-498 265
- 3 Drain behind 1917 bank TF 497 255-513 247
- 4 Drain N of Kamerad TF 513 247-512 244
- 5 Drain E of Kamerad TF 514 240
- 6 Drains E of Kamerad TF 519 237
- 7 Drain partly along Cocklehole Road TF 518 238-509 219
- 8 Drain SW of The Rosary TF 493 161-492 158
- 9 Drains SE of The Rosary along each side of Goose's Lane TF 493 161-497 158

4.6 Spined loach

The habitat requirements of spined loach were obtained from the literature (eg British Wildlife August 2000, pp390-397) and compared to the nature of watercourses on site in order to determine if any had the potential to support this species.

The literature gave evidence that the species had not been recorded in the cable route study area: there were no records north of the west-east running A17, and none to the south as far as Wisbech, which is c10km south of the southern end of the area.

The fish requires fine, well oxygenated sediments, which could be sand and/or silt, and the presence of abundant submerged vegetation for concealment during the day, and more open areas for use at night. A variety of waterbodies have given records of spined loach, including rivers, streams, canals, ditches, drains and lakes. Records in the UK come from 5 river systems: Trent, Welland, Witham, Nene and Great Ouse. Therefore, there is the potential for this species to occur, since the site lies within the Nene catchment and although the only watercourses are intensively managed agricultural ditches and drains, these habitats do not preclude the presence of spined loach.

Watercourses in the cable route study area were examined in the field for the presence of an abundance of submerged vegetation, and for nearby areas with a reduced cover of this vegetation. The watercourses looked at were those earlier identified as having potential for water voles by the protected species survey (Figure 1):

- 1 Borrow pit behind N-S seawall TF 495 266
- 2 Drain behind sea wall TF 494 263-498 265
- 3 Drain behind 1917 bank TF 497 255-513 247
- 4 Drain N of Kamerad TF 513 247-512 244
- 5 Drain E of Kamerad TF 514 240
- 6 Drains E of Kamerad TF 519 237
- 7 Drain partly along Cocklehole Road TF 518 238-509 219
- 8 Drain SW of The Rosary TF 493 161-492 158

- 9 Drains SE of The Rosary along each side of Goose's Lane TF 493 161-497
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4.7 Reptiles

On the sea banks, the proposed substation site and the banks of major drains (which were deemed to be the most promising habitats for reptiles, based on an assessment of the earlier protected species work) surveys for reptiles were undertaken through a combination of cold-searching and examination of natural and artificial refuges.

Cold-searching was undertaken in other habitats whilst carrying out other surveys ie observing and lifting up natural or artificial refuges and making observations for the animals.

In the habitats peripheral to the existing sub-station and in one arable field immediately adjacent to the north, 44 reptile tins, comprising squares of dark-coloured roofing felt and dark-coloured carpet tiles, were laid in 12 groups at locations deemed, through site inspection, to be promising for reptiles to occur. At the time of survey, an exclusion zone imposed by EDF was in force around the sub-station's northern side; it was possible to walk through this area and hence undertake cold searching, but it was not possible to linger to place and inspect any tins. Details are given in Annex 4 and in Figure 4.

The tins were inspected 7 times between 7 September and 13 September 2006. Suitable habitats between the tin group locations were cold searched each time the tins were inspected; these habitats comprised piles of chipped wood arising from tree felling work; bare earth of tracks; other areas of bare soil; old wooden boards on the ground; the debris from flail mown bramble patches; concrete fence posts; concrete pylon bases; other areas of concrete; man-hole covers; and clumps of dried mulched grass left in situ from cutting.

4.8 Foraging bats

The surveys to determine the use made of the cable route habitats by foraging bats took the form of night-time work with bat detectors, with the surveys undertaken at the most promising foraging areas (based on a day-time habitat assessment of the likelihood of flying insects congregating using shelter) and also included were representative samples of arable land in order to gain an idea of the use made of the wider apparently less promising parts of the corridor.

The night-time surveys were undertaken on 27 June, and 4 and 19 July 2006. The survey comprised observations at 12 points along the cable corridor (as shown in Figure 1) which were:

- 1 outer sea wall TF 495 265
- 2 1917 sea bank TF 501 255
- 3 Kamerad Farm TF 512 243
- 4 Junction of Cacklehole Road with Hospital Road TF 509 219
- 5 Junction of Cacklehole Road with Anchor Road TF 512 225
- 6 White House Farm TF 499 204
- 7 A17 TF 504 199
- 8 King John Bank TF 496 195
- 9 Strawberry Farm TF 496 184
- 10 East Croft Field TF 497 178
- 11 Old Sea Bank TF 493 175

The grid references above are the centre points of short (50m) transects which were walked whilst allowing foraging bats to pass the recorders. The times spent recording at each point, on each visit are given in Annex 2.

4.9 Great crested newts

Standard English Nature newt survey methods were used at each pond which was deemed to have potential for supporting breeding great crested newts, as follows:

Methods included:

Torching: The water body edge is walked slowly once, scanning the water margins with a torch (500 000 or 1 million candlepower) for amphibians. The numbers of male, female and juvenile newts is recorded.

Trapping: Trapping is a technique using bottles that can confirm the presence and estimate the abundance of Great Crested Newts. It is particularly suited to ponds where the water is too turbid, or the vegetation too thick for torch surveys

Egg Search: Newts wrap their eggs in folds of vegetation, which can then be unwrapped and the eggs identified. Vegetation used can either be live or dead, and they will use a variety of plant species, e.g. *Potamogeton* or *Typha*, or detritus such as plastic bags. The vegetation will be firmly creased, and even post breeding these creases are noticeable.

Refuge Search: The site is searched very close to the ground (i.e. on hands and knees), by using transect lines and searching beneath all stones, logs or other hiding places within a set distance from the transect. Small mammal burrows may also harbour newts.

Pond NW of Kamerad Farm TF 506 250

Pond at Crown Farm TF 511 197

Pond at Rose Hall Farm TF 496 161

The irrigation reservoir NW of Wingland Grange at TF 514 226 was inspected and found to be not suitable for breeding great crested newts, since the inside face of the raised bank which enclosed the water was artificially lined and covered by old tyres, such that no vegetation suitable for use by newts was present. Further, the water was deep, turbid and wind-swept with waves. There was no location where the water could be safely reached to be netted; nowhere for traps to be installed; and the inner bank was considered too dangerous for torching at night since the tyres and liner were not safe footings.

No access was gained to the pond at Bank House TF 491 168 or to the small garden pond at Holmleigh House TF 490 167.

Pond NW of Kamerad Farm

Visit 1 15 & 16 May 2006

Torching, trapping (20 traps set), egg search, refuge search

Visit 2 22 & 23 May 2006

Torching, trapping (20 traps set), egg search, refuge search, netting

Visit 3 2 June 2006
Torching, netting

Visit 4 11 June 2006
Netting, torching

Rose Hall Farm pond

Visit 1 22 & 23 May 2006
Torching, trapping (10 traps set), egg search, refuge search, netting

Visit 2 2 June 2006
Torching

Visit 3 11 June 2006
Torching

Visit 4 19 June 2006
Torching, trapping (10 traps set), egg search, refuge search, netting

Crown Farm pond

Permission from the owner of this fishing pond for access for the newt survey was not received until late June; despite this lateness into the newt survey season, it was felt valuable to undertake some visits in case adult newts were late in leaving the water and/or newt larvae were present.

Visit 1 5 July 2006
Torching, trapping (10 traps set), egg search, refuge search, netting

Visit 2 12 July 2006
Torching, trapping (10 traps set), egg search, refuge search, netting

4.10 Hedgerows

Hedgerows were surveyed to determine if they were of UK Biodiversity importance or of importance under the terms of the Hedgerow Regulations (HR), by determining the diversity of native woody species, as defined by the HR. Hedgerows around farms, and houses and gardens, were not included.

Hedgerows which were surveyed were (Figure 1):

- 1 SE side of Grange Road between two farms both named Middle Crown Farm TF 508 212.
- 2 SE side of Grange Road between Middle Crown Farm and Crown Farm TF 506 211.
- 3 On Old Inclosed Marsh on side of field drain TF 504 192
- 4 SE of The Rosary on the north side of Goose's Lane TF 494 181
- 5 NE of The Rosary along a field drain TF 496 182
- 6 S side of French's road TF 486 170-490 168
- 7 Around N & E sides of substation TF 486 168-487 165
- 8 S & N sides of Marsh Road TF 491 175
- 9 N side of French's Road TF 489 168
- 10 E side of Walpole Bank road TF 490 166

11 W side of Walpole Bank road TF 489 165

5.0 RESULTS

5.1 Breeding waders on saltmarsh

On the 7 June 19 registrations of redshank were made including one singing bird and one nest with four eggs. These birds all acted in an agitated manner and did not fly away from the area. 2 registrations of oystercatcher were made, two birds together and a single bird, all three flew off from the area and did not appear agitated. 1 registration of curlew was made and this bird flew away from the area.

On 19 June 17 registrations of redshank were made with the birds again acting in an agitated manner and not leaving the area. 2 registrations of single oystercatchers were made with both birds flying off when flushed.

On 27 June 5 registrations of redshank were made, these birds were still acting in an agitated manner and were staying in the area where flushed. Additionally, a group of 10 redshank flew west over the tidal area of the marsh. 5 registrations of oystercatchers were made but these were all of birds flying over the site in groups of 2, 2, 3, 5 and 12. 1 registration of curlew was made this being a single bird flying off strongly when flushed.

On 8 July only 1 registration of redshank was made, a pair flushed flew off northwest. There were 4 registrations of oystercatchers, 1 feeding on the tidal saltmarsh, 1 flushed and flew off and a single and a pair flew over. 1 registration of curlew was made, comprising two birds flying north together. 2 registrations of whimbrel were made, these being returning passage birds, one flushed and flew southwest and one flying over south, calling.

No records of waders were made in the area of saltmarsh around the sluice next to the river.

In addition to the above good numbers of skylarks, meadow pipits and reed buntings were breeding on the saltmarsh. Female Montague's harrier was recorded hunting over the saltmarsh on 19 and 27 June, probably one of the birds from the Gedney Drove area. Marsh harriers were also recorded hunting over the saltmarsh, a female on 19 June and a male on 27 June, and these were the pair which was nesting in the wheat field inland. On both dates there was interaction between the Montague's and marsh harriers when they were in the same area.

5.2 Breeding farmland birds

77 species were recorded using the cable route corridor.

49 species were breeding within the cable corridor.

9 species were probably breeding within the cable corridor.

The **breeding** species include the following with the statuses shown (a species can have more than one conservation status):

Annex 1 Birds Directive: marsh harrier

UK Biodiversity priority species: grey partridge, turtle dove, skylark, song thrush, spotted flycatcher, tree sparrow, linnets, reed bunting and corn bunting.

Lincolnshire Biodiversity priority species (as part of the farmland and urban birds species action plans): grey partridge, turtle dove, skylark, song thrush, tree sparrow, linnet, reed bunting and corn bunting.

Wildlife & Countryside Act Schedule 1: marsh harrier.

BTO Red List Species of High Conservation Concern: grey partridge, turtle dove, skylark, song thrush, spotted flycatcher, starling, house sparrow, tree sparrow, linnet, yellowhammer, reed bunting and corn bunting.

BTO Amber List of Medium Conservation Concern: marsh harrier, oystercatcher, stock dove, cuckoo, swallow, house martin, meadow pipit, yellow wagtail, dunnock, mistle thrush and goldcrest.

The **probable breeding** species include the following with the statuses shown (a species can have more than one conservation status):

Wildlife & Countryside Act Schedule 1: barn owl and hobby

BTO Amber List Species of High Medium Concern: shelduck, kestrel and barn owl

Figure 3 shows the approximate location of the territories of birds breeding along the cable route, with the sole exception of woodpigeon (territories were too numerous to map in the analysis stage). The individual maps show, by means of the standard BTO code for each species, where the approximate centre of each territory lies. The following text provides brief descriptions of the distribution of the breeding birds.

The one little grebe territory in the entire area was centred on the irrigation reservoir north-west of Wingland Grange. The sole coot territory was also located here. The only breeding wader on the farmland was oystercatcher, two pairs of which nested in a field of peas in the north right behind the outermost sea bank. Mallard was scattered throughout the northern half of the corridor in drains and moorhen was also scattered and in drains with one pair right in the south on the pond at Bank House.

Marsh harrier bred in a wheat field in the north; there was one pair and a second female which was nest-building in the same field. Red-legged partridge was scattered throughout and grey partridge was similarly scattered but only north of the A17. One family party of each partridge species was seen. Pheasant was scattered throughout the corridor.

Stock dove was present as two clusters which were breeding in farm buildings at Middle Crown Farm and near Kamerad Farm. Numerous woodpigeons were breeding throughout in thick hedges and trees. Collared dove was exclusively found around buildings throughout the corridor. Turtle dove was only found in the south, being associated with trees on and near an old sea bank west of Walpole St Andrew. The centre of activity of cuckoo was the 1917 sea bank, in the west near the old lighthouse and north of Kamerad Farm. The one pair of great spotted woodpeckers held territory in the north, in trees along the 1917 bank half way between Kamerad Farm and the old lighthouse. The same area held the one jay territory. Kamerad Farm was also the centre of activity for little owl.

Skylark had c83 territories virtually throughout the corridor, preferring pea and sugar beet fields, and set-aside areas. Swallows and house martins were always associated with farms. Meadow pipit had c44 pairs which were virtually spread throughout the corridor in set-aside and field edges, and were only absent from the

extreme south (south of Marsh Road). Yellow wagtail were scattered throughout, preferring pea fields and set-aside areas. Pied wagtails were always associated with farms north of the A17. Wren was present throughout, as were dunnock, robin and blackbird. Song thrush was found not as numerous as these other species but was still scattered throughout the corridor. Mistle thrush was found near Kamerad Farm and near Walpole St Andrew.

Sedge warblers nested in oil seed rape crops and field ditches but only north of the A17. Reed warblers nested in drains with common reed and in oil seed rape fields, with all but one of the 12 territories occurring north of the A17. Lesser whitethroat used hedges throughout the corridor. Whitethroat was the commonest warbler with c53 pairs, mostly nesting in hedges and ditches throughout the corridor but with a few in oil seed rape fields. The one pair of garden warblers was present in the extreme south around Bank House. Blackcap was present scattered throughout in hedges. Goldcrest had one pair in trees and shrubs by the A17. The one pair of spotted flycatchers was found in trees on the 1917 bank between the old lighthouse and Kamerad Farm.

Blue tit and great tit were present throughout the corridor. Magpie held territories scattered through the southern half of the corridor. Starling territories were centred on farm buildings throughout the corridor. House sparrow colonies were centered on houses and farms. Tree sparrows had c86 pairs in the southern half of the corridor, with colonies around farm buildings and thick hedges; the largest colony of c20 pairs was in old wooden buildings at Strawberry Farm.

Chaffinch was scattered through the corridor in hedges and trees. Greenfinches were also scattered but tended to occur near buildings. The association with buildings was also the case for goldfinch. Linnets held territories in scrub in the southern half of the corridor. Yellowhammer territories were located throughout the corridor in field edges. Reed bunting territories were centred on field edges throughout although one cluster of 6 pairs was located within an oil seed rape field. Corn bunting territories were almost exclusively found between the A17 and Kamerad Farm, with one territory in the extreme north beside the outermost sea bank.

5.3 Badger

No signs of badger use of the part of the cable route study area to which there was access were seen, and no setts were found. No road casualty badgers were seen.

5.4 Otter

No signs of use of the study area by otter, where access was allowed, were seen.

5.5 Water vole

1 *Borrow pit behind N-S seawall TF 495 266*

No signs of water vole use or occupancy.

2 *Drain behind sea wall TF 494 263-498 265*

No signs of water vole use or occupancy.

3 *Drain behind 1917 bank TF 497 255-513 247*

No signs of water vole use or occupancy.

4 *Drain N of Kamerad TF 513 247-512 244*

Dry; no signs of water vole use or occupancy.

5 *Drain E of Kamerad TF 514 240*

Drying out; no signs of water vole use or occupancy.

6 *Drains E of Kamerad TF 519 237*

Not seen; no access.

7 *Drain partly along Cocklehole Road TF 518 238-509 219*

No signs of water vole use or occupancy.

8 *Drain SW of The Rosary TF 493 161-492 158*

Dry; no signs of water vole use or occupancy.

9 *Drains SE of The Rosary along each side of Goose's Lane TF 493 161-497 158*

Dry; no signs of water vole use or occupancy.

5.6 Spined loach

1 *Borrow pit behind N-S seawall TF 495 266*

Dry in the south, becoming wet and holding water to the north, achieving c0.4m deep by the sluice; no aquatic vegetation.

2 *Drain behind sea wall TF 494 263-498 265*

Large wet drain c4m wide but with virtually no aquatic vegetation, other than some algae.

3 *Drain behind 1917 bank TF 497 255-513 247*

A large wet drain 3-5m wide with very little aquatic vegetation, other than algae; marginal common reed which was weed-raked out during the survey period.

4 *Drain N of Kamerad TF 513 247-512 244*

Dry.

5 *Drain E of Kamerad TF 514 240*

Drying out.

6 *Drains E of Kamerad TF 519 237*

Not seen; no access.

7 *Drain partly along Cocklehole Road TF 518 238-509 219*

A wet drain with shallow water; marginal common reed; very little aquatic vegetation.

8 *Drain SW of The Rosary TF 493 161-492 158*

Dry.

9 *Drains SE of The Rosary along each side of Goose's Lane TF 493 161-497 158*

Dry.

Substrates were uniformly silty.

5.7 Reptiles

No reptiles or their field signs were seen at the existing sub-station or habitats in the proposed cable route corridor.

The presence of the EDF exclusion zone did not prevent complete access for the reptile survey and cold searching was able to be undertaken here. It is believed that the limitation of not being able to use reptile tins in the exclusion area does not affect the significance of the findings, since the exclusion area does not have any habitats which are not found elsewhere around the sub-station, and it does not have any habitat features which are particularly attractive to reptiles.

5.8 Foraging bats

Visit 1

- 1 no bats
- 2 no bats
- 3 at least 2 45Hz pipistrelle bats (common pipistrelle) feeding along the track/drain/trees field boundary; at least 2 common pipistrelle bats feeding around the paddock/yard/trees to the west of the farm cottages
- 4 one faint record of a pipistrelle bat around the gardens to the north-east
- 5 distant record of pipistrelle activity
- 6 distant record of pipistrelle activity
- 7 faint record of a pipistrelle bat around the gardens to the east and over the nearby field
- 8 brief record of pipistrelle activity along the hedge on the west of the road
- 9 no bats
- 10 pass of 1 common pipistrelle but not feeding
- 11 at least 2 common pipistrelle bats feeding along the old sea bank
- 12 1 possible 55Hz pipistrelle bat (soprano pipistrelle) feeding along the hedge on the east side of the road

Visit 2

- 1 no bats
- 2 no bats

- 3 1 then 2 common pipistrelle bats feeding along the sheltered southern side of the woodland and along the shelter provided by the track/ditch/trees field boundary
- 4 no bats
- 5 at least 2 common pipistrelle bats feeding along a drain and hedge field boundary; at least 2 Daubenton's bats feeding along the east-west drain; and both species feeding along the north-south drain
- 6 1 pipistrelle bat moving along the east-west dry drain
- 7 no bats
- 8 no bats
- 9 no bats
- 10 possible soprano pipistrelle by the road
- 11 1 pipistrelle bat along the road
- 12 3 passes by common pipistrelle bats feeding along the hedge

Visit 3

- 1 no bats
- 2 no bats
- 3 3 common pipistrelle bats along the woodland edge; 1 pipistrelle along the trees; and 3 common pipistrelle passes along the tree-lined track
- 4 2 common pipistrelle bats around the garden and 1 common pipistrelle along the road and/or adjacent ditch
- 5 at least 3 Daubenton's bats along the drain and also pipistrelle bats
- 6 2 common pipistrelles around the gardens and 1 common pipistrelle along a dry drain
- 7 1 pipistrelle near the houses
- 8 2 passes by pipistrelle bats, the second coming from the north
- 9 no bats
- 10 1 common pipistrelle near a drain; 1 pass by a common or soprano pipistrelle; and 1 record of a *Myotis* species near a drain
- 11 1 common pipistrelle pass along the road and another along the hedgerow
- 12 no bats

5.9 Great crested newts

Pond NW of Kamerad Farm:

No great crested newts were found.

Rose Hall Farm pond:

No great crested newts were found.

Crown Farm pond:

No great crested newts were found.

5.10 Hedgerows

The species composition of the hedges was as follows:

- 1 hawthorn and elder
- 2 hawthorn, elder and dog rose with ash trees
- 3 hawthorn and elder

- 4 hawthorn
- 5 hawthorn
- 6 sycamore, field maple, elder, hawthorn, ash and fruit trees
- 7 sycamore, field maple, elder, hawthorn, ash and fruit trees
- 8 each hedge is only hawthorn and elder
- 9 hawthorn, willow and elder
- 10 hawthorn and common gorse
- 11 hawthorn with conifers and horse chestnut trees

It was apparent on the first inspection of each hedgerow that it did not reach the threshold for habitat importance therefore no detailed survey was undertaken.

6.0 ASSESSMENT

6.1 Breeding waders on saltmarsh

From the results it appears that there are between 14 and 19 pairs of redshank nesting on the area of saltmarsh directly out from the east-west running sea wall and possibly 1 pair of oystercatchers. The saltmarsh immediately in front of the sea wall and out from it for a distance of c250m in the western half, reducing to c150m in the eastern half, is not used by the waders for breeding. The structure of the vegetation here must be unsuitable, since there is little disturbance. Thus the breeding is concentrated in a belt of saltmarsh set well out from the bank, and which is c150m wide in the west, increasing to c250m wide in the east, with its northern limit constrained by the changing nature of the marsh and the frequency of tidal inundation (this is shown in Figure 2).

The comparatively late start to the survey meant that virtually no song was recorded, with only 1 redshank singing on the first visit. It is believed that if the survey had started in the second half of April, the numbers recorded may have been higher. Despite this the survey has showed that the saltmarsh is used by one and possibly two species of breeding waders, and that the breeding sites occupy a fairly well defined area of marsh.

6.2 Breeding farmland birds

The actual and probable breeding bird community of the cable route corridor is one which would be expected to occur in this part of Lincolnshire/Norfolk, given the arable nature of the land, the presence of scattered farms with attendant shelter belts and trees, occasional wet drains and ponds and hedges, scattered houses and gardens, some hedges and dry ditches, and the close presence of the coast, with the by now traditional harrier breeding area. With the exception of the harrier, it is believed that the bird community found here would be not significantly different from that present in other areas of arable-dominated fenland.

There are some interesting patterns of the distribution of some of the breeding farmland birds, which belie the apparent uniformity of the corridor as one of arable dominated fenland. The farmland bird community therefore shows subtle differences along its length. Marsh harriers prefer the more open northern end of the route in which to nest and the proximity of The Wash to the northern end also dictates the presence here of breeding oystercatcher. The part of the corridor north of the A17 is preferentially used by breeding corn bunting, reed warbler, sedge warbler, pied wagtail and grey partridge; the corridor south of the A17 is preferentially used by breeding tree sparrow and linnets; only the extreme south is used by turtle dove and garden warbler; and the extreme south is apparently avoided by breeding meadow pipit.

6.3 Badger

Badger use of the study area is very light; a few signs were found by the original Phase 1 survey, but they were not refound by the current survey.

6.4 Otter

The study area is probably not used by otter. It is possible that single or small numbers of animals at times pass through the area along the larger wet drains without leaving any trace of their passage. There is very little cover on the drain

banks which otters could use to linger in the area.

6.5 Water vole

Where seen, the larger watercourses of the study area are devoid of water voles. There is no reason to suppose that watercourses in land where access for the survey was not allowed would be significantly different from those seen, therefore it can be assumed that water voles are likely to be absent. Burrows and feeding signs were seen at the pond at Crown Farm TF 511 198 but this is isolated from the main drainage system, but it may indicate a very small local population.

6.6 Spined loach

None of the watercourses examined within the cable route study area, where access could be gained, are suitable for occupancy by spined loach. There is no reason to suppose that watercourses in land where access for the survey was not allowed would be significantly different from those seen, therefore it can be assumed that spined loach does not occur within the study area.

6.7 Reptiles

The majority of the cable route has very little potential to support reptiles; the intensively managed arable land is unsuitable habitat. The ditches, hedges, small woodlands and the sea banks, and the grasslands and ditches of the existing sub-station periphery, have more potential to support reptiles but since none were found, it is likely that they are absent or only present as a very small population with a restricted and fragmented distribution, the pattern of which is dictated by the arable land and field boundaries.

6.8 Foraging bats

The night-time bat surveys have shown that the area of the cable route and proposed substation is used by 3 species of bat for foraging (Daubenton's bat, 45 pipistrelle bat and an unidentified *Myotis* species) and may be used by a fourth species (55 pipistrelle bat). The activity of the Daubenton's bat, as would be expected, was centred on a large wet drain (the same drain on two occasions), whereas the pipistrelle activity occurred over terrestrial habitats, with some use also being made of the drains. Pipistrelle activity of each species is centred on areas of shelter, which was provided by woodlands, various field and roadside boundaries and around farm and domestic buildings. The single record of the *Myotis* bat was made near a drain. There is very little or no bat activity in the extreme north of the cable route corridor where the conditions are more exposed and the landscape less mature than inland. There is very little use of the arable land.

The use made by bats of the cable route is limited and is of the low level expected given the habitats present. The use of the area is likely to be not significantly different from the use of adjacent areas of arable farmland with scattered farms, houses, hedges, small woods and wet drains.

6.9 Great crested newts

The surveys indicate, with a high degree of confidence, that no great crested newts are present in the pond NW of Kamerad Farm or in the pond at Rose Hall Farm.

The degree of confidence concerning the absence of great crested newts in the pond at Crown Farm is lower on account of the lateness of the surveys. However since this pond is isolated among arable land and farm buildings, is of relatively recent construction, and has a high fish population (it is a fishing pond), these factors serve to increase the likelihood that no newts are present.

The lack of permission for the survey to gain access to the ponds at Bank House and Holmleigh House means that it is not possible to state whether newts are present or absent; circumstantial evidence would suggest that since the Bank House pond has many fish, is frequented by wildfowl, has turbid water and limited vegetation, newts would be absent. The small garden pond at Holmleigh House has little potential for newts.

Based on the above, it is likely that newts are absent from the northern parts of the cable route corridor, from the sea wall south to around the line represented by the north-west to south-east running Marsh Road from Walpole Marsh to Walpole St Peter.

The likelihood of great crested newts being present in the corridor south of Marsh Road is considered low on account of their absence from the pond at Rose Hall Farm and the nature of the pond at Bank House (well stocked with fish, used by wildfowl, turbid water, limited vegetation) but it cannot be completely discounted until access is gained to the remaining ponds.

6.10 Hedgerows

The diversity of native woody species in field boundary and roadside hedges is very limited and in each case it does not reach or exceed the threshold for importance for UK Biodiversity or for wildlife under the terms of the HR.

7.0 IMPACTS AND MITIGATION

7.1 Breeding waders on saltmarsh

The potential for impact from the cable installation on waders using the saltmarsh is greatest during the breeding season, when works may prevent birds from breeding in the first instance or from successfully fledging broods if the nesting attempt had already started and was subsequently abandoned due to disturbance.

The proposal is for the cable to be directionally drilled under the entire saltmarsh which would avoid significant adverse impact on the waders using the marsh at any time of year.

7.2 Breeding farmland birds

The installation of the cable and construction of the substation have the potential to cause loss of occupied nests and disturbance to breeding.

Mitigation options could include the following:

- 1) Timing of all or part of the works to avoid the bird breeding season, including hedgerows
- 2) Identifying which crops would not be suitable for harriers or waders to nest in and use these crops in the areas close to the sea wall on the line of the cable once a preferred route had been identified
- 3) Directionally drill under major watercourses in order to avoid disturbance to nesting water fowl and other water birds
- 4) Manage field boundary and ditch habitats along the line of the preferred route such that they are temporarily not suitable for birds to nest in

7.3 Badger

Currently and with the limitations imposed by restricted access to parts of the cable route corridor, there would be no impact on this species, since no setts would be affected and no significant foraging areas lost or disturbed either temporarily or permanently, and no well-used paths or tracks from setts to favoured foraging areas blocked either temporarily or permanently. However, once the preferred route becomes known, it would be necessary to monitor the use of this by badgers in case a sett became established and/or an area became used significantly for foraging.

Currently, no badger mitigation is required, and if the monitoring proposed above continues to show that this situation remains the same, no mitigation would be required in the future. However, since it is known that badgers do use the area at a very low level, it would be necessary to ensure that any open deep excavations were either securely fenced against a badger gaining access overnight or covered to prevent a foraging badger falling in and becoming injured, or that any shallower open excavations were designed to allow a badger to escape, such as providing a shallow end to a trench which a badger could easily use.

If the monitoring proposed above results in the discovery of a newly excavated badger sett which may be affected by the proposed cable or substation works, it would be necessary to immediately close the sett, under the terms of a licence.

7.4 Otter

There would be no impact from the installation of the cable or the construction of the substation on otters. There is no need for mitigation for this species. The proposed directional drilling of the cable under the larger wet drains would ensure that if otters did travel along these watercourses there would be no affect on their passage.

7.5 Water vole

Since water voles are absent there is no potential for adverse impact on this species. However, since water voles may be present outside the corridor and could colonise in future, the proposed directional drilling of the larger wet drains would remove any potential for impact should water voles occur.

7.6 Spined loach

As the habitat is unsuitable there would be no impact from the installation of the cable or the construction of the substation on spined loach. There is no need for mitigation for this species. The proposed directional drilling of the cable under the larger wet drains would ensure that if spined loach did occur in these watercourses there would be no significant affect.

7.7 Reptiles

The majority of the study area has very limited suitable habitat to support reptiles, and within these areas the potential impact of the cable installation and substation construction would be insignificant. Potential impacts of marginally greater significance may be expected where the works would affect areas of higher potential to support reptiles. However, appropriate mitigation could be expected to reduce this significance to a negligible level.

The proposed directional drilling of the cable under the larger wet drains and roads would mean that these habitats and any reptiles present would not be affected. Where directional drilling was not proposed and the cable route was likely to affect habitats with the potential to support reptiles, mitigation would be undertaken in advance of the works whereby any potential reptile refugia would be removed by hand or light machinery. This work would be undertaken with due care to ensure that reptiles are not inadvertently killed or injured. To further discourage reptiles, areas of grassland should be cut short and the grass kept short up to the point at which the trench is cut.

7.8 Foraging bats

Given the very limited use by bats of the open farmland, the potential impact of cable installation and substation construction here on foraging bats would be insignificant. The cable installation would be temporary.

Potential impacts of greater significance would be expected where the works would affect linear features which bats have been shown to use for foraging and for commuting from roosts elsewhere to possible favoured foraging areas, and this particularly concerns hedges, lines of trees, lines of bushes and the larger wet drains. Even though the cable works would be temporary, they would nevertheless create gaps in the linear features (such as hedgerow removal) and interrupt their passage across the landscape (coffer dams across drains). This may adversely affect the foraging and commuting by bats, although to place this into context, the hedges, tree lines, etc of the area are by no means continuous and do not link with

each other, thus bats are currently familiar with having to navigate over open areas to reach sheltered areas.

In order to mitigate for the temporary interruption of linear features, it is recommended that portable windproof fencing is erected across gaps in hedges etc at night, during the construction period, at the same height as the retained vegetation on either side, such that bats foraging and commuting do not perceive a break in the habitat and can behave as before. The fencing should remain in place after the works have been completed and the lost shrubs replanted using large container grown specimens in order to rapidly fill the gaps.

The proposed directional drilling of the cable under the larger wet drains would result in the bats using these features perceiving no change to the habitat therefore the potential impact would be of no significance.

7.9 Great crested newts

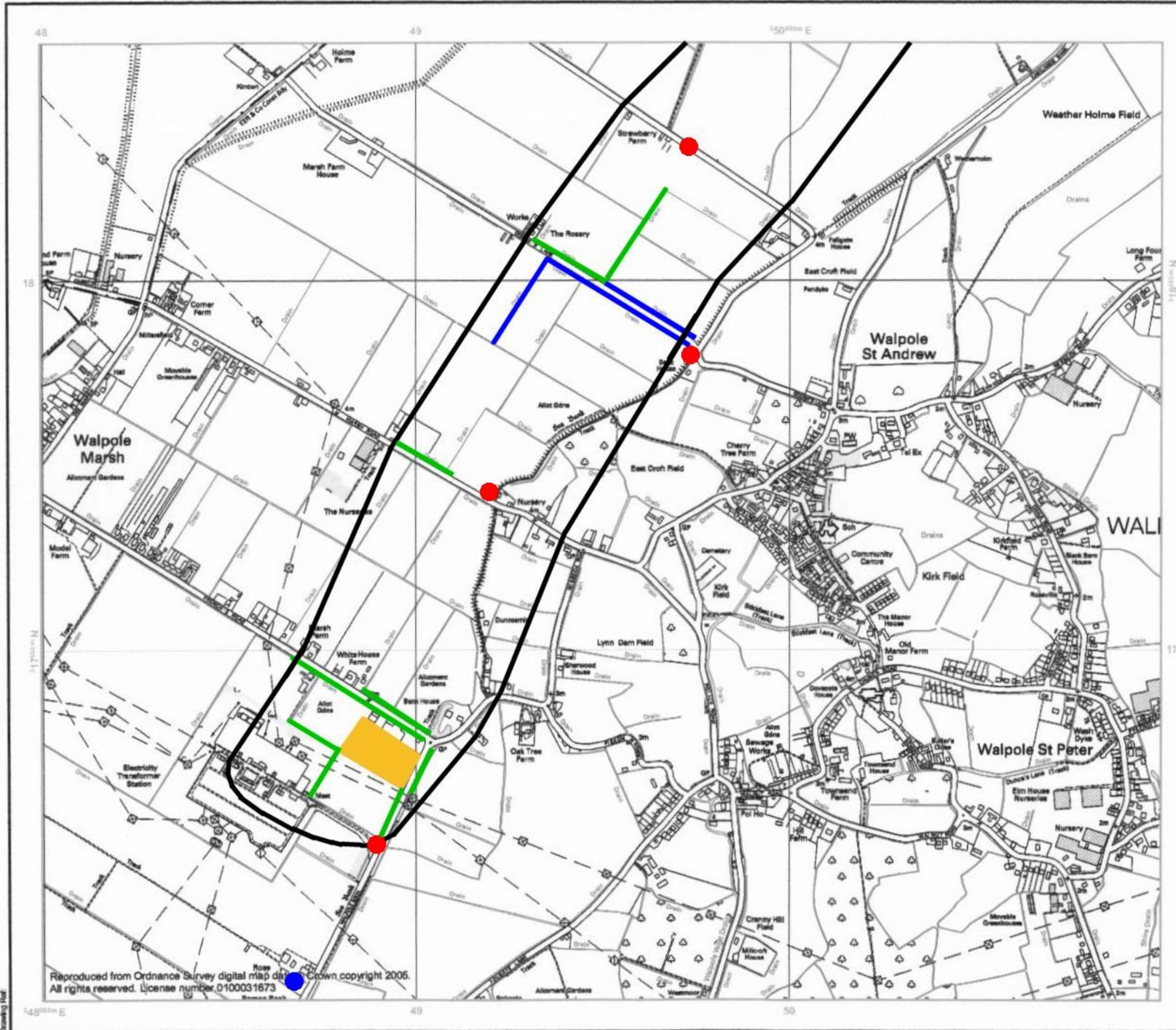
From Marsh Road north to the sea wall, the potential impact on newts from the cable installation is likely to be insignificant. No breeding pond would be affected. No mitigation is necessary.

From Marsh Road south, the potential impact is not known; it may be of no significance. It is recommended that further attempts are made to gain access to the ponds where none was gained in order for surveys to determine if newts occur.

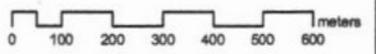
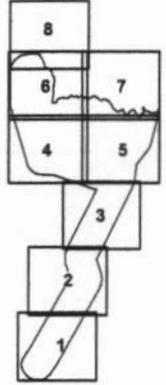
7.10 Hedgerows

The potential impact of the cable installation and substation construction on hedgerows is not significant. Short lengths of hedgerow along the preferred cable route may be temporarily lost to the works, but the reinstatement of the gaps using the same species and using locally native and locally sourced plants following completion of the works would restore the hedges.

Figure 1: Survey Scope



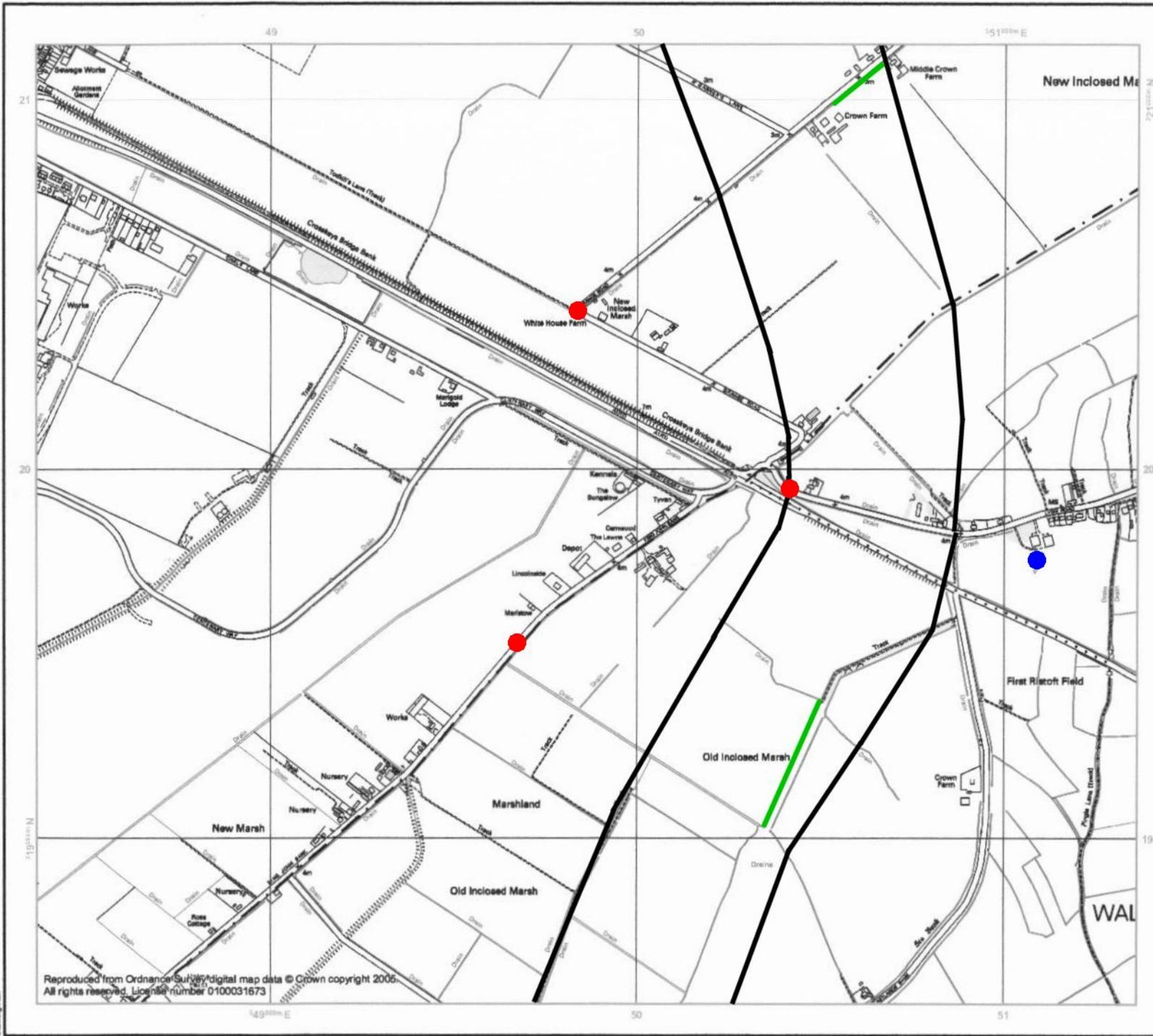
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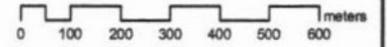
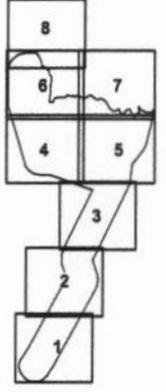
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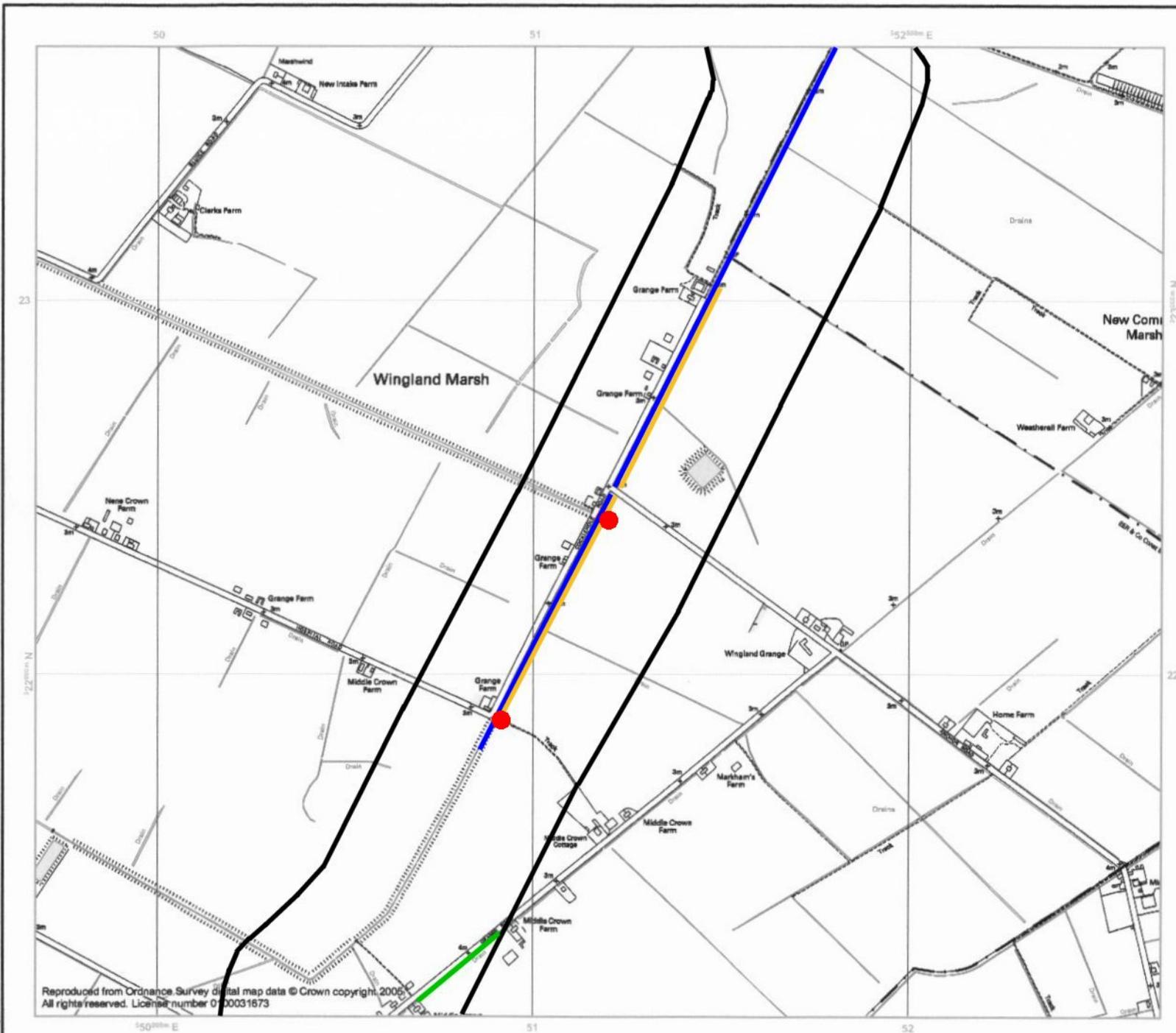
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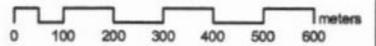
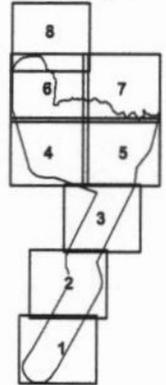
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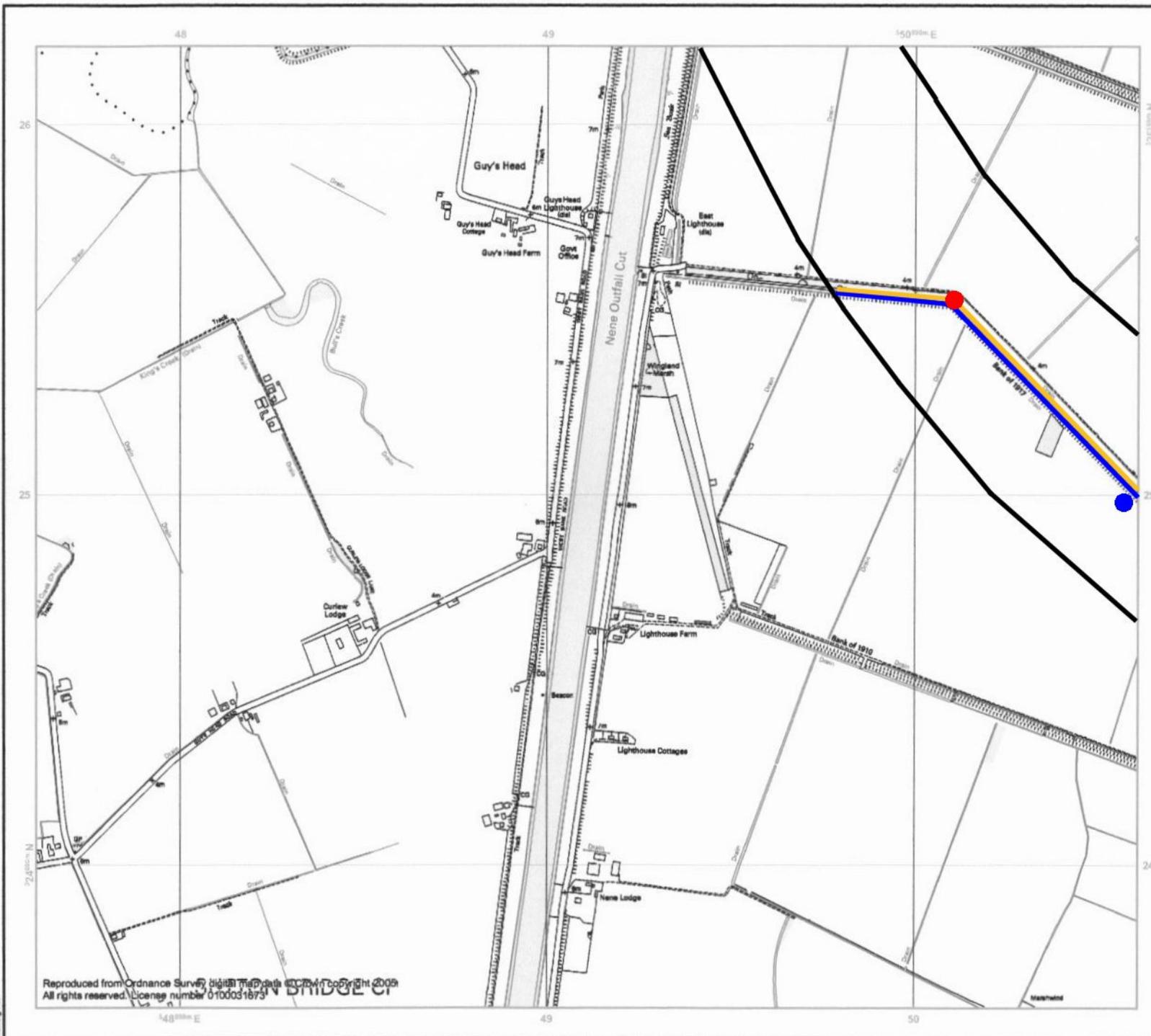
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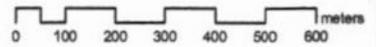
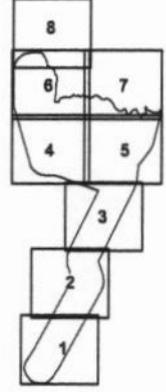
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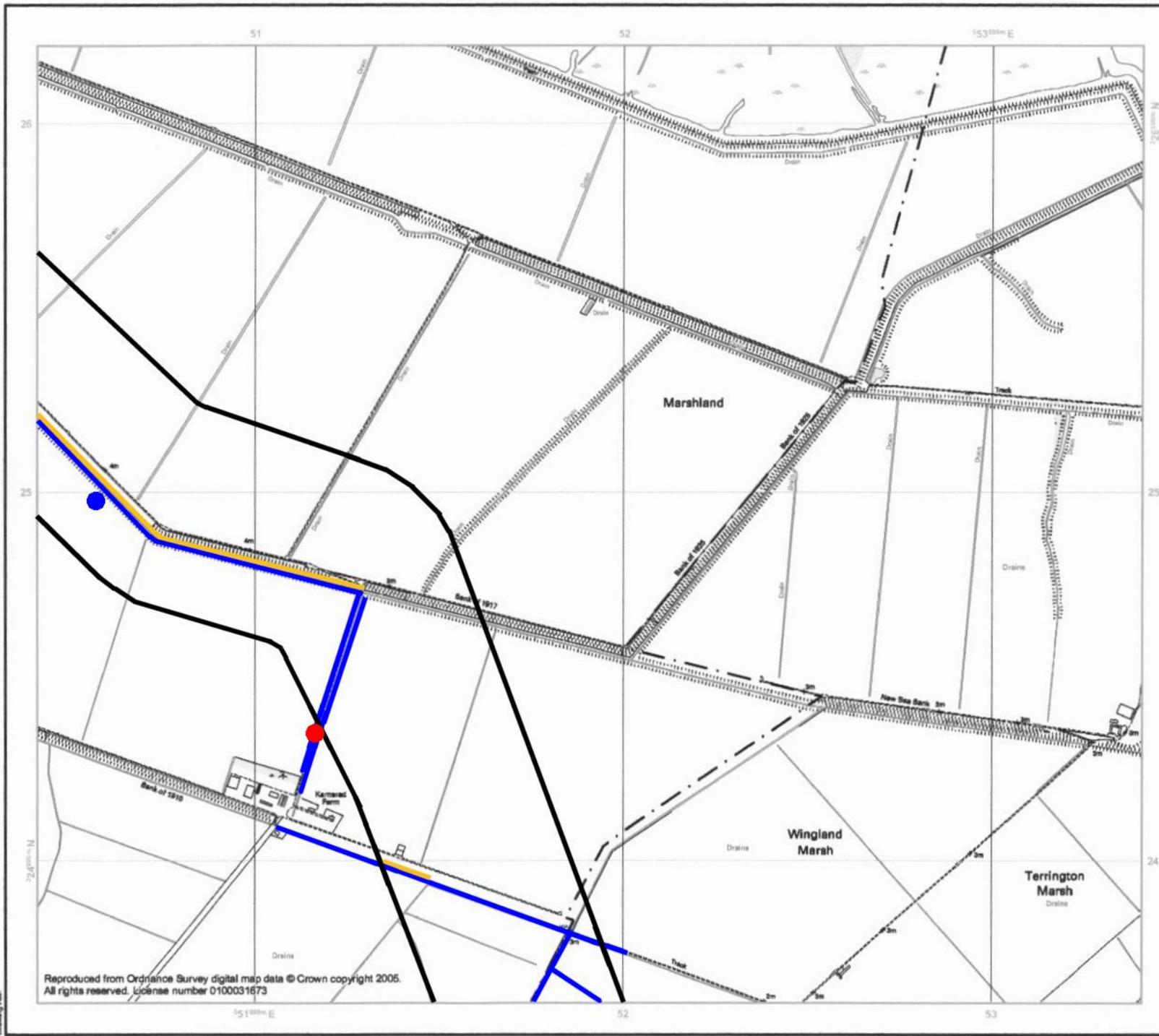
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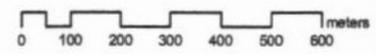
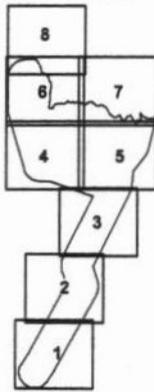
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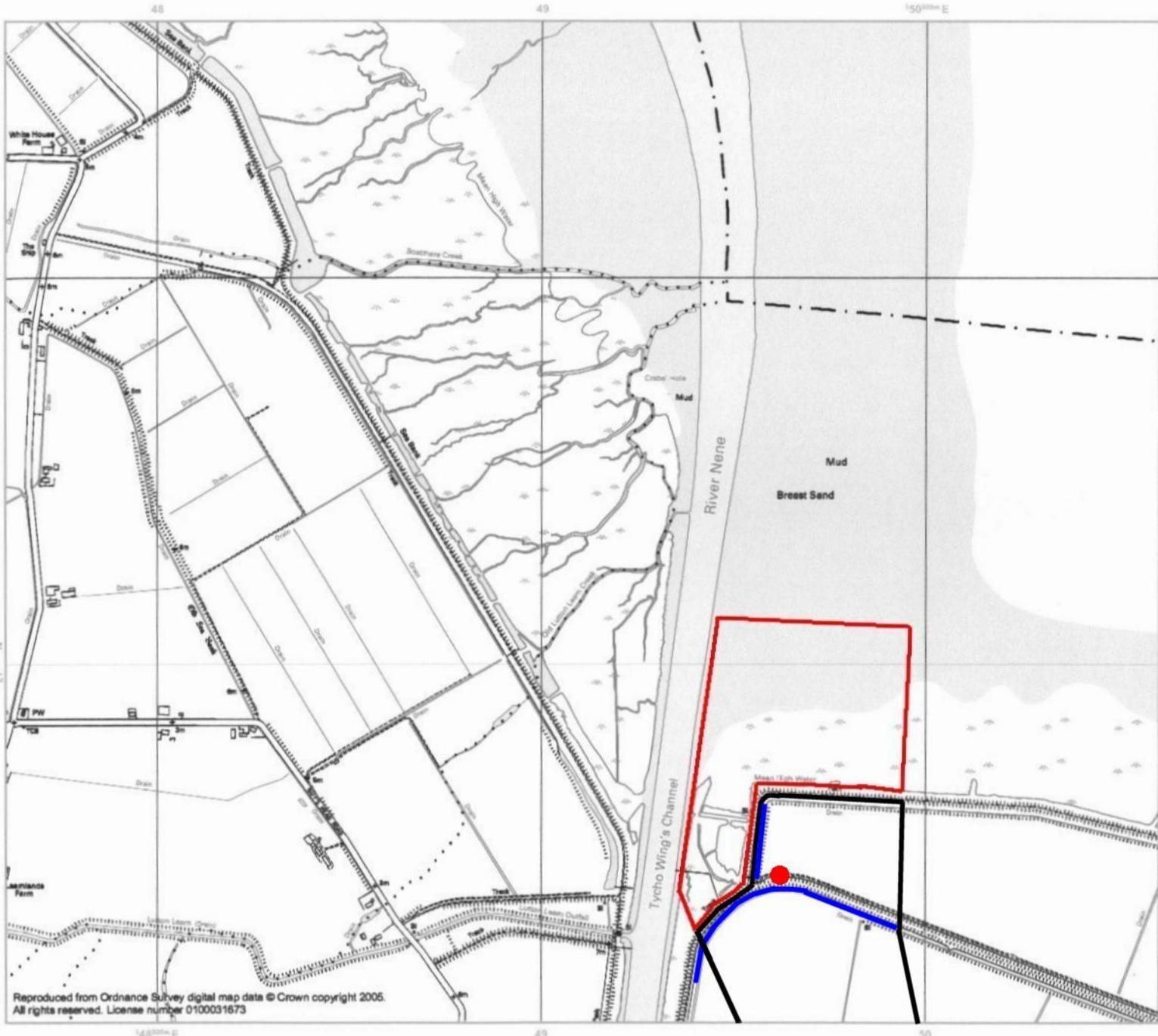


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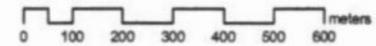
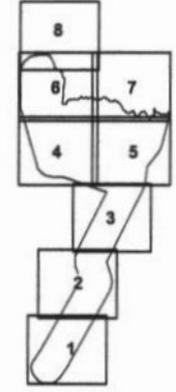
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Key

	Foraging bat observation point
	Great crested newt survey pond
	Water vole/otter/spined loach survey area
	Saltmarsh wader survey area
	Hedgerows surveyed
	Farmland bird/badger survey area
	Reptile survey area

Figure 2
Saltmarsh

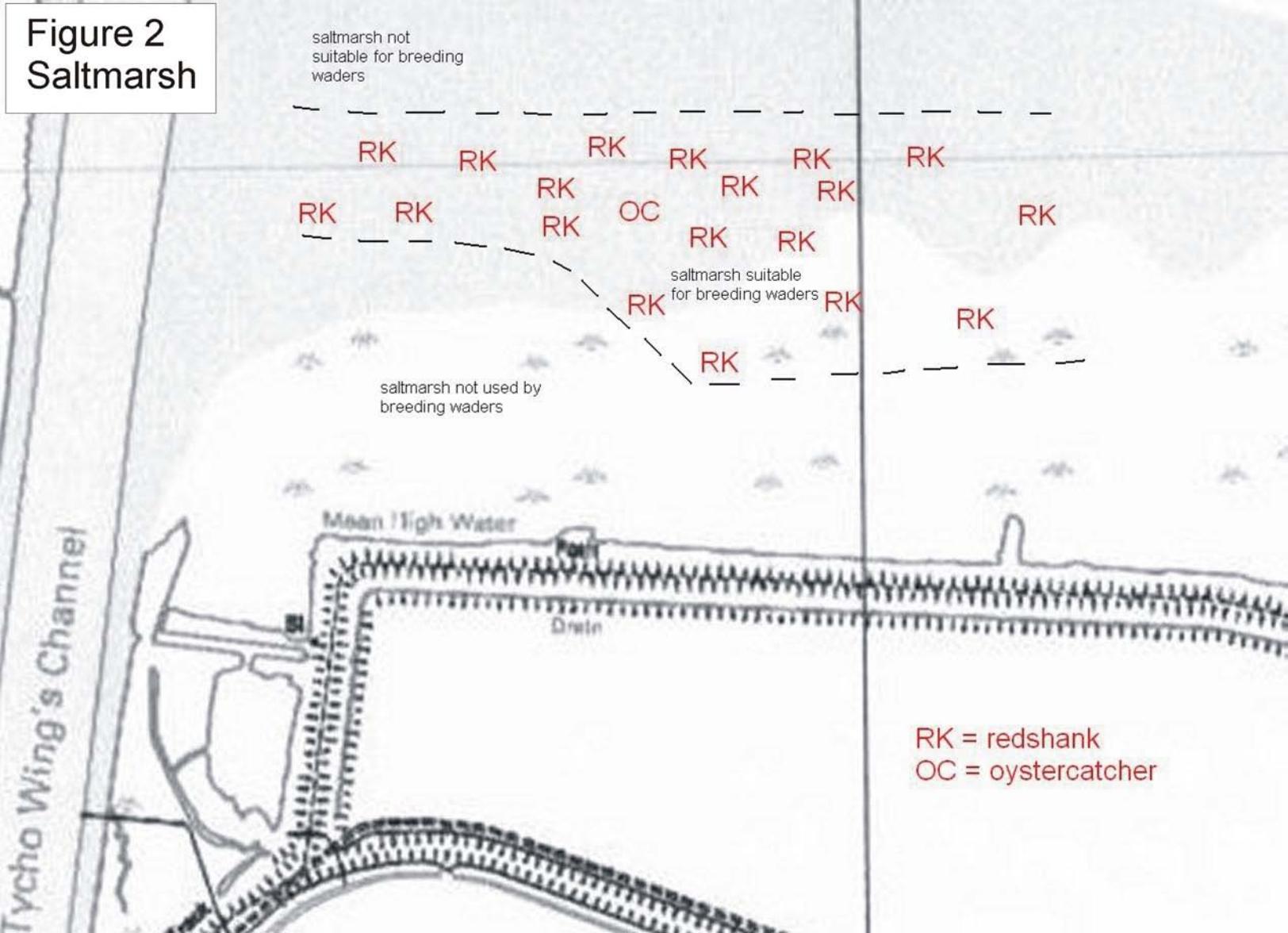
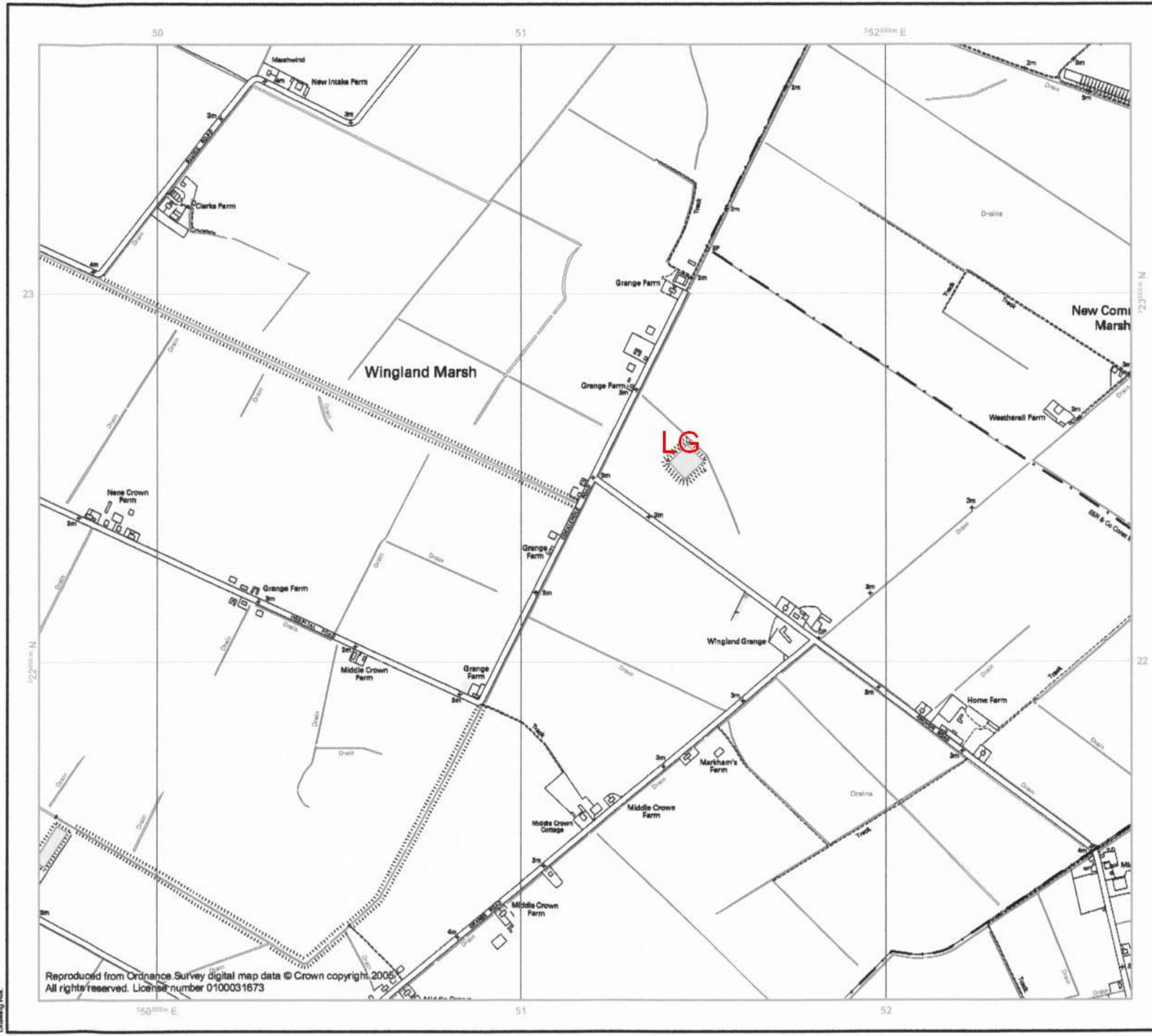


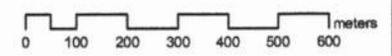
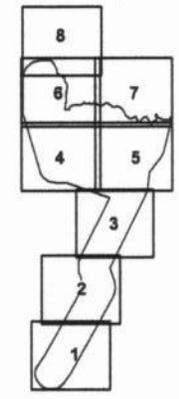
Figure 3: Farmland Birds



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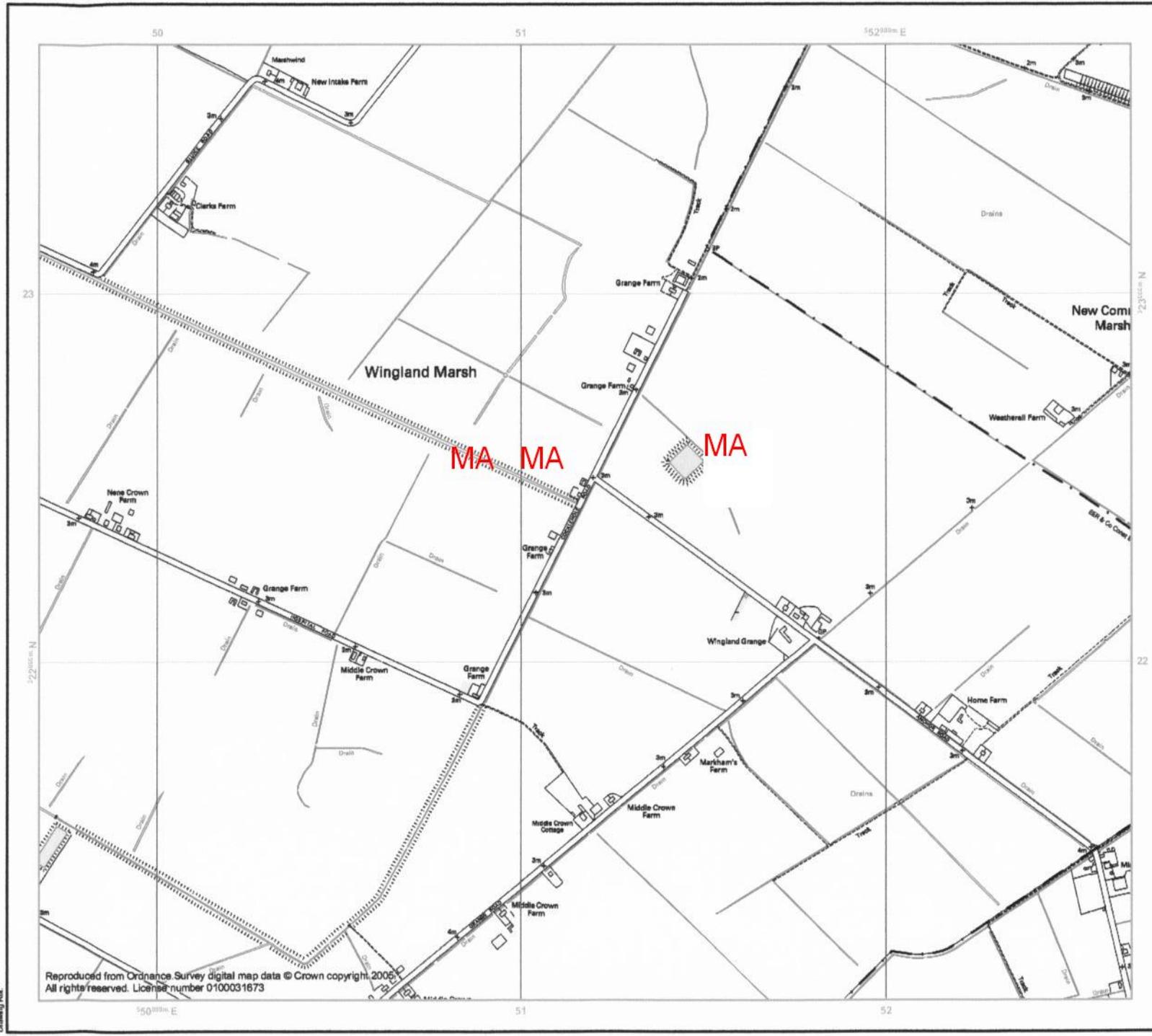


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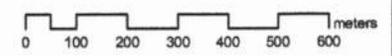
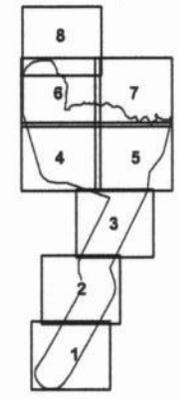
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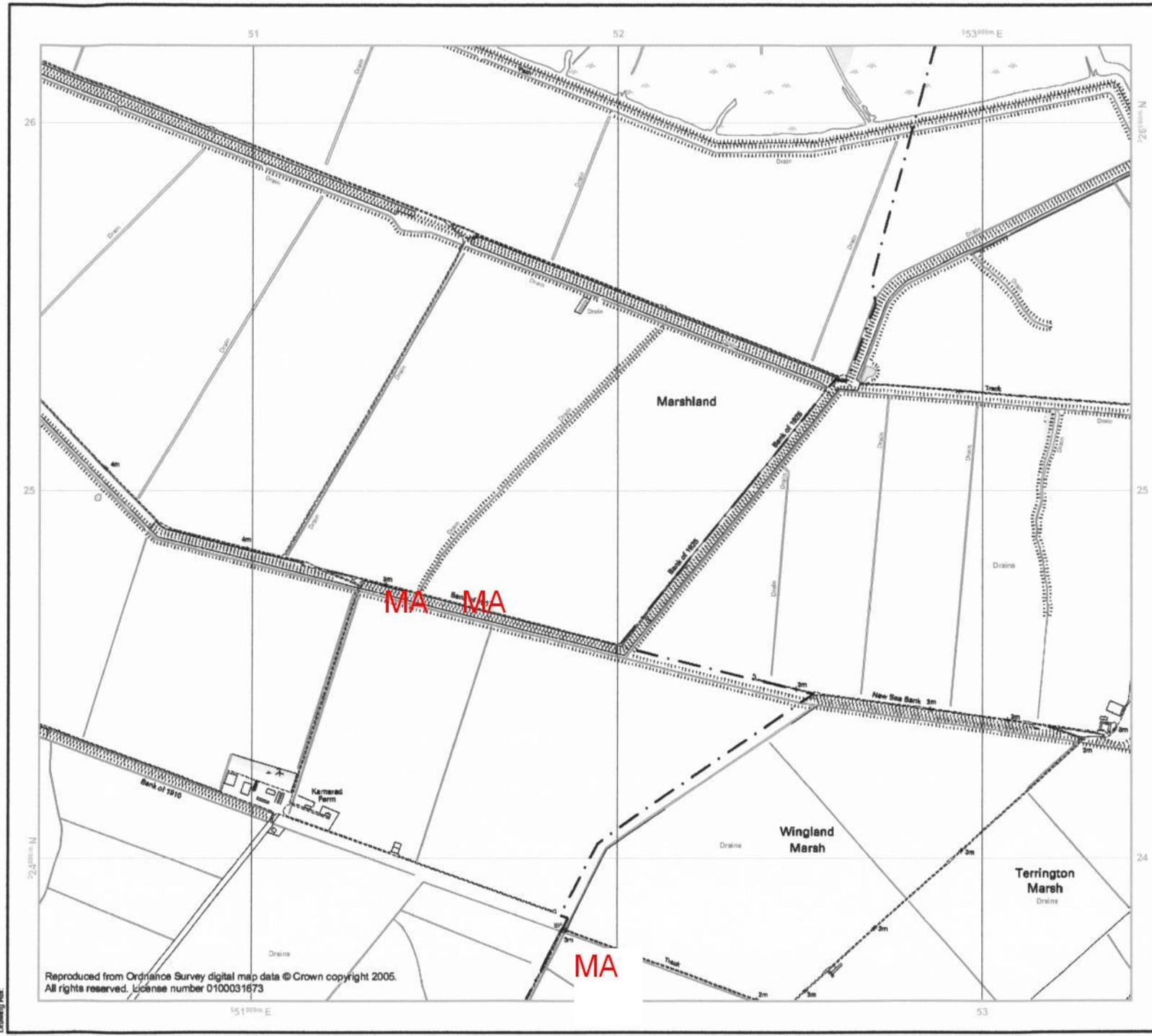


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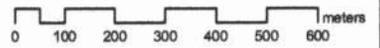
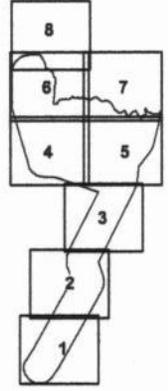
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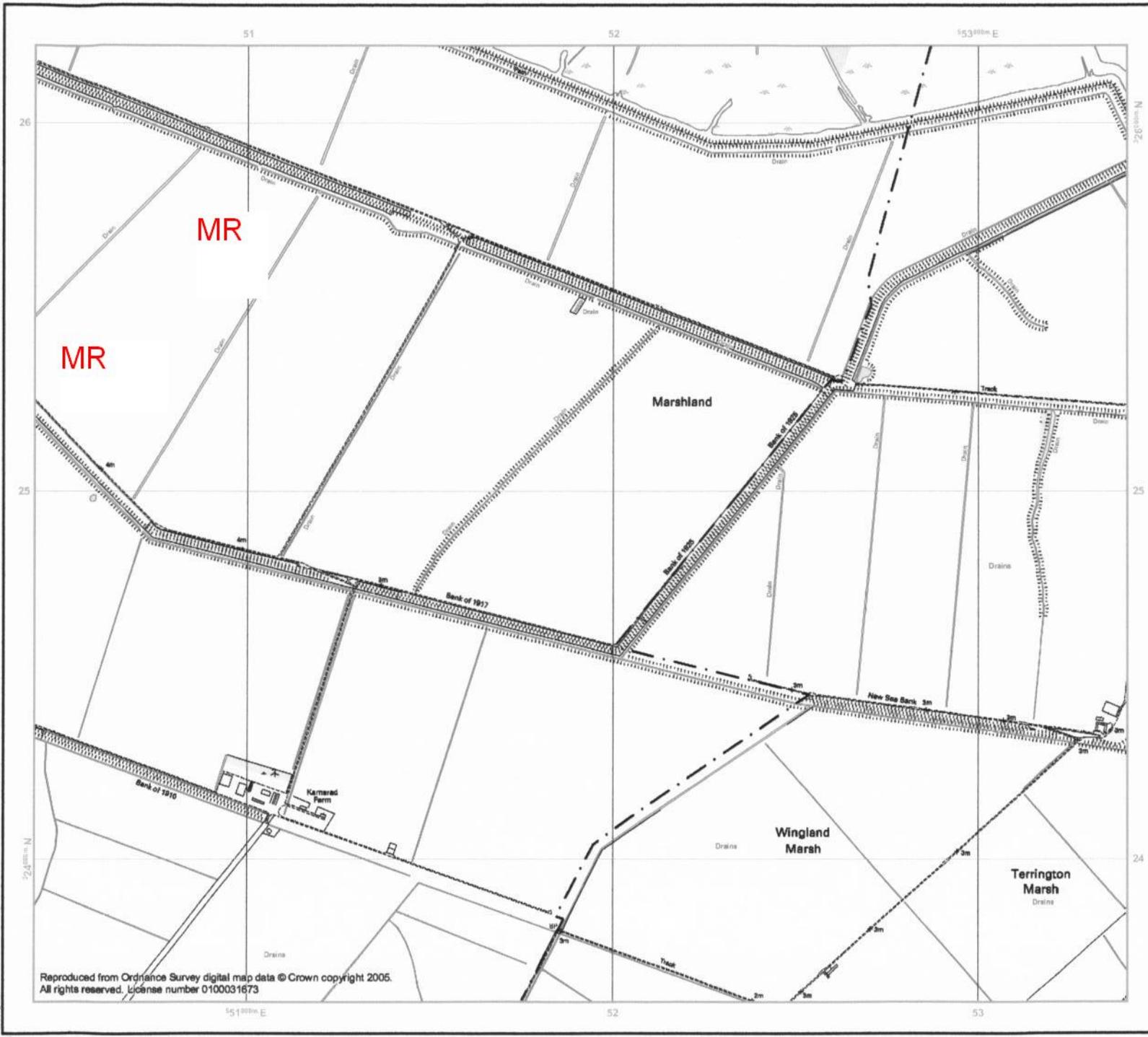


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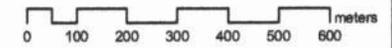
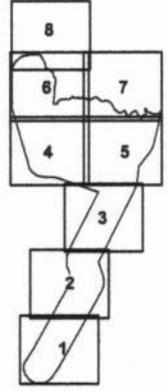
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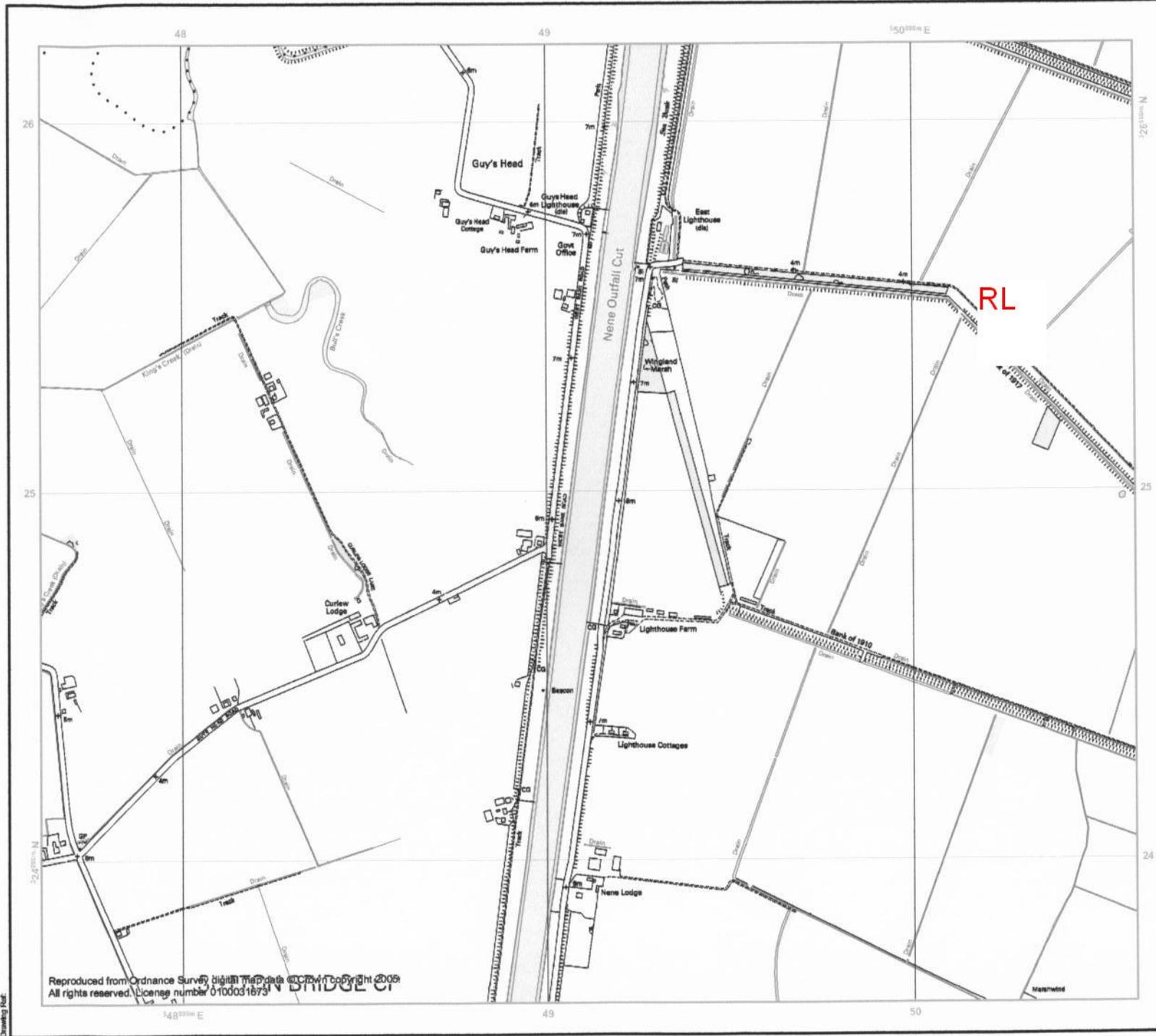
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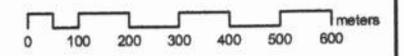
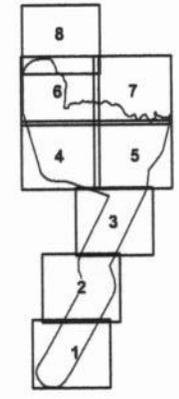
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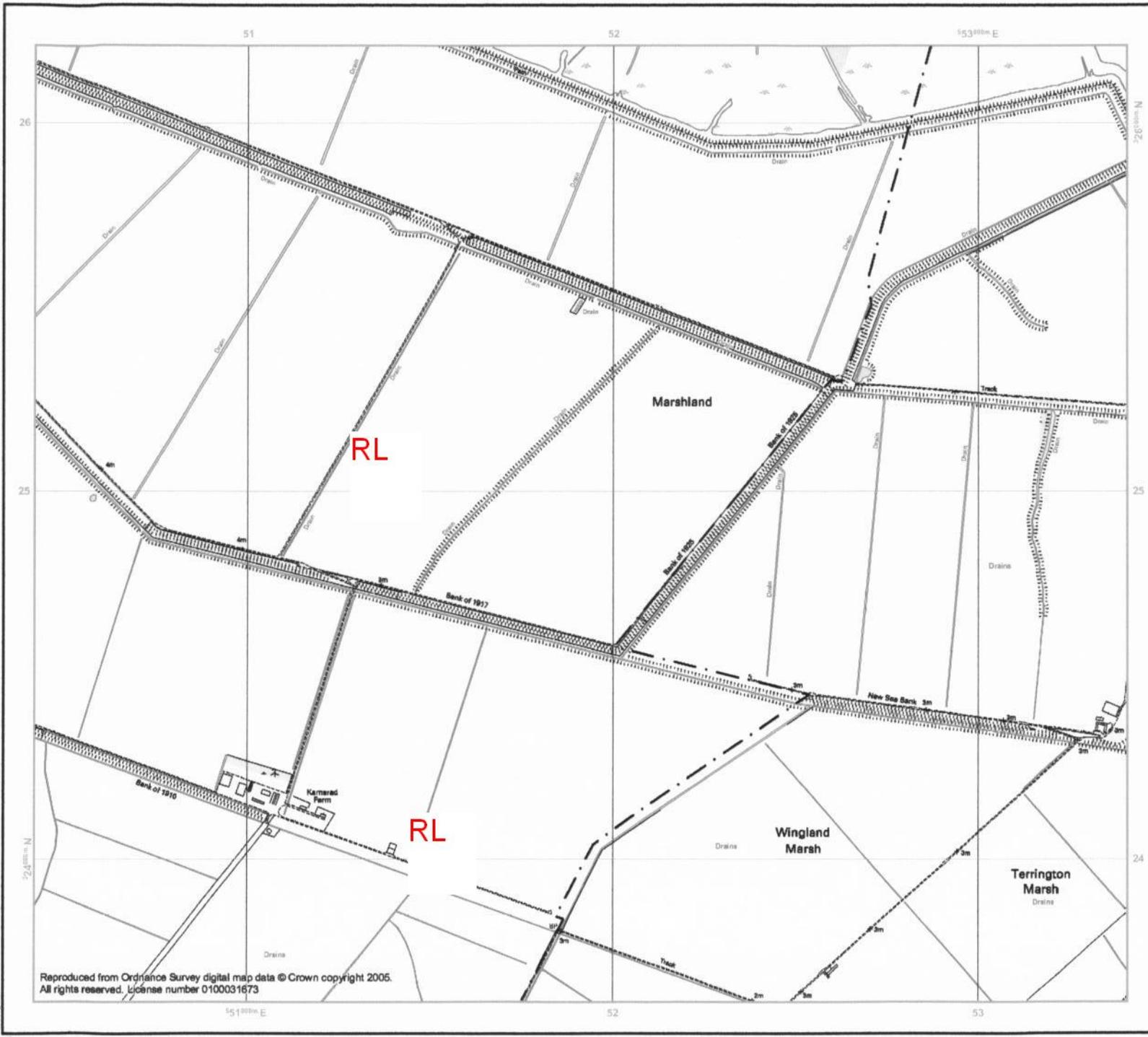
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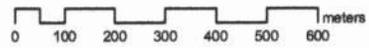
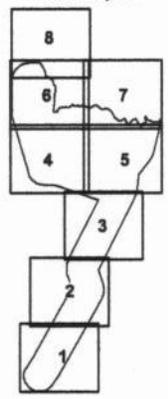
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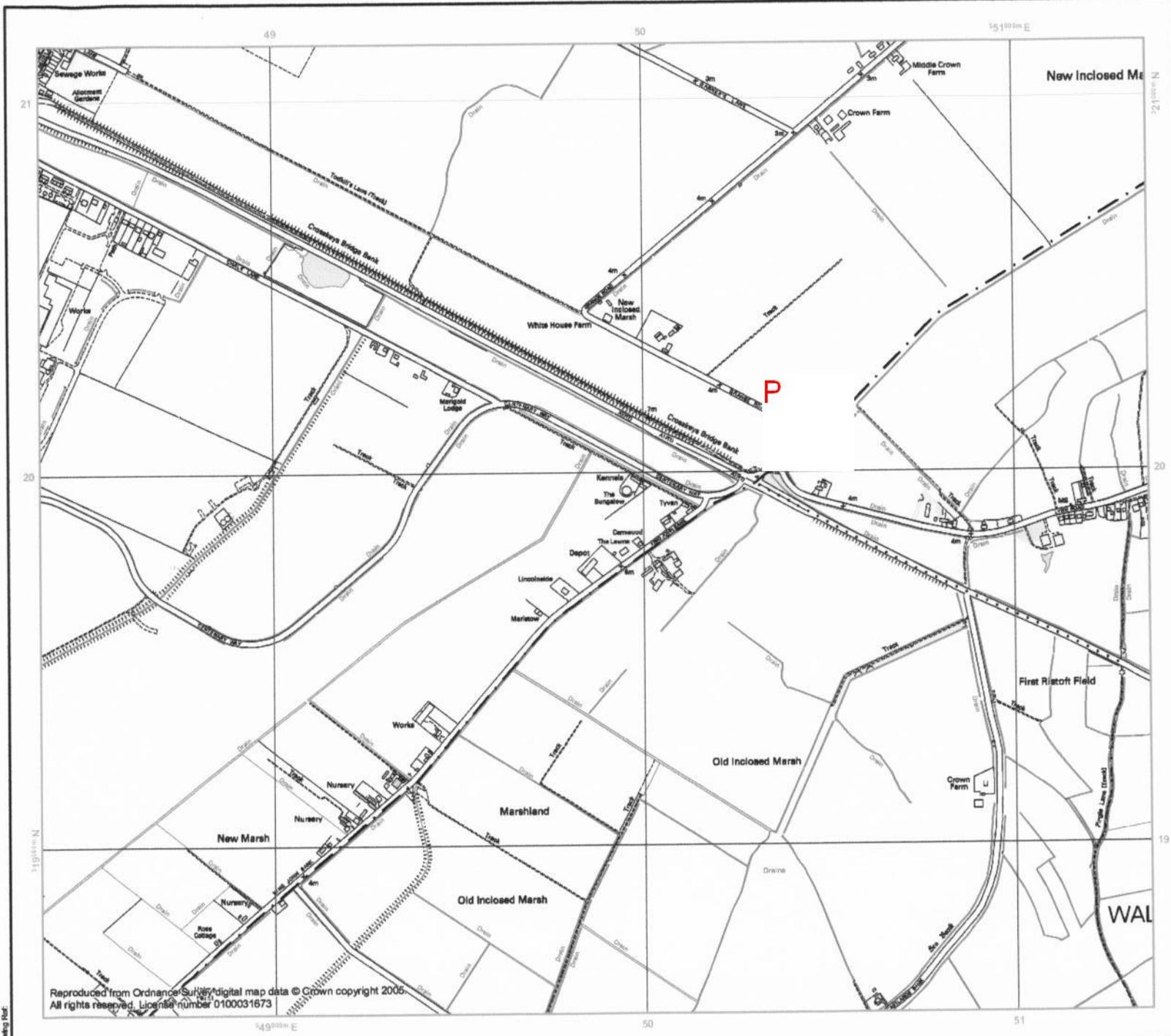
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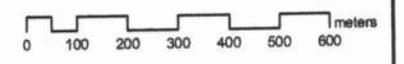
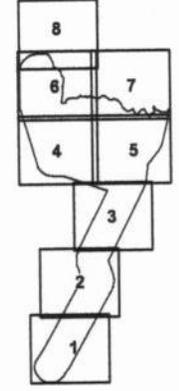
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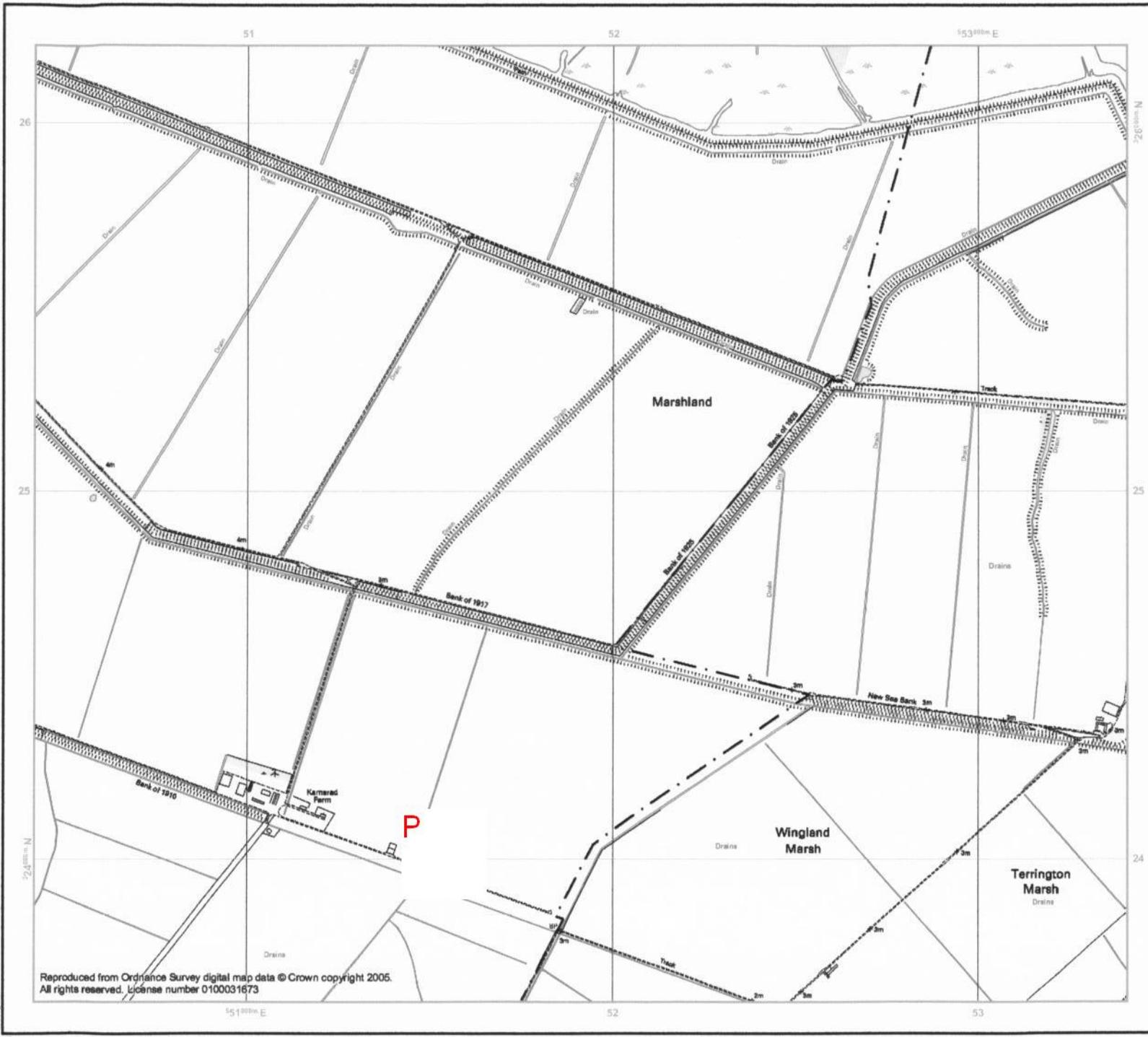
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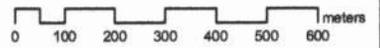
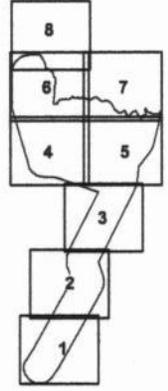
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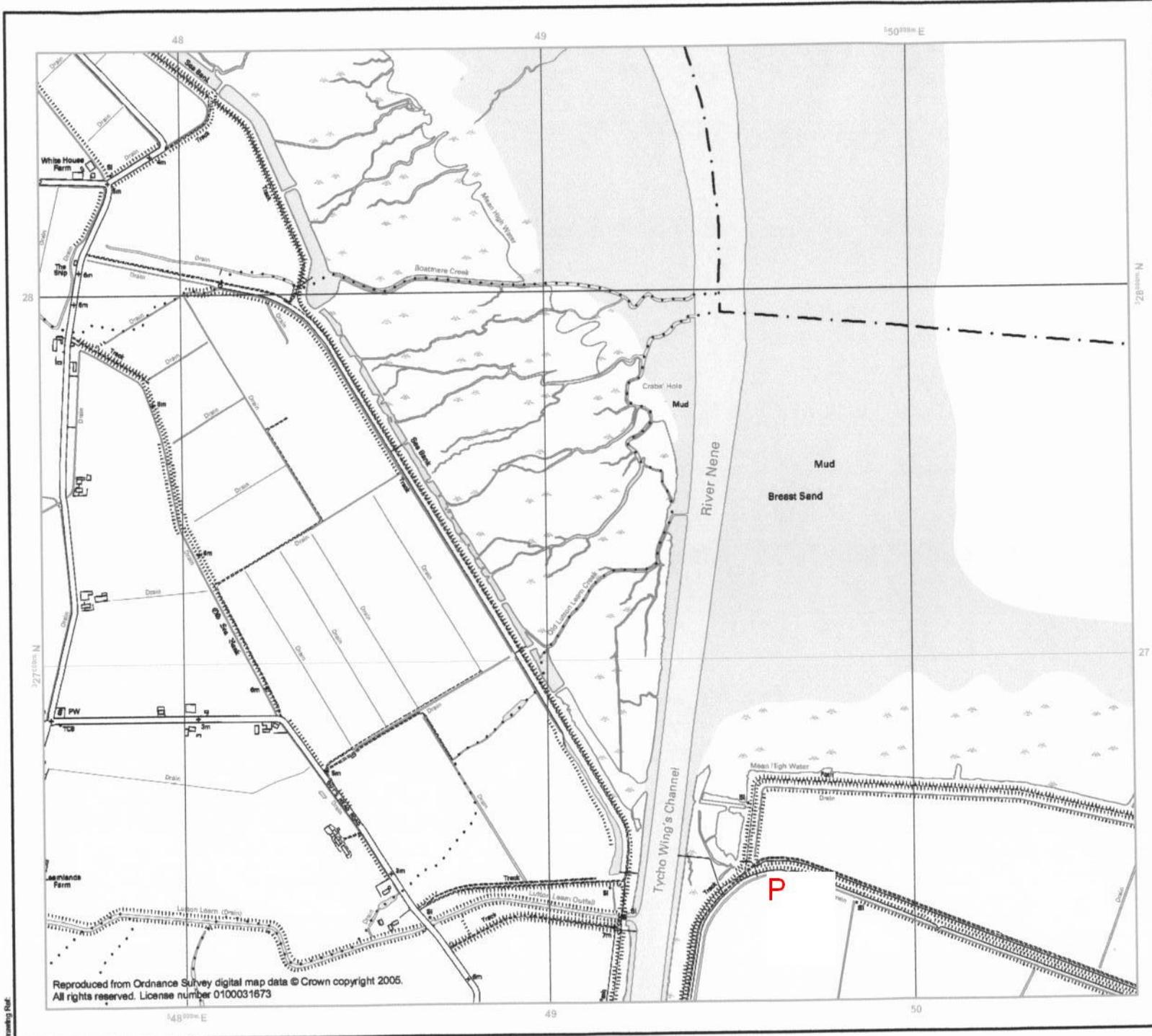


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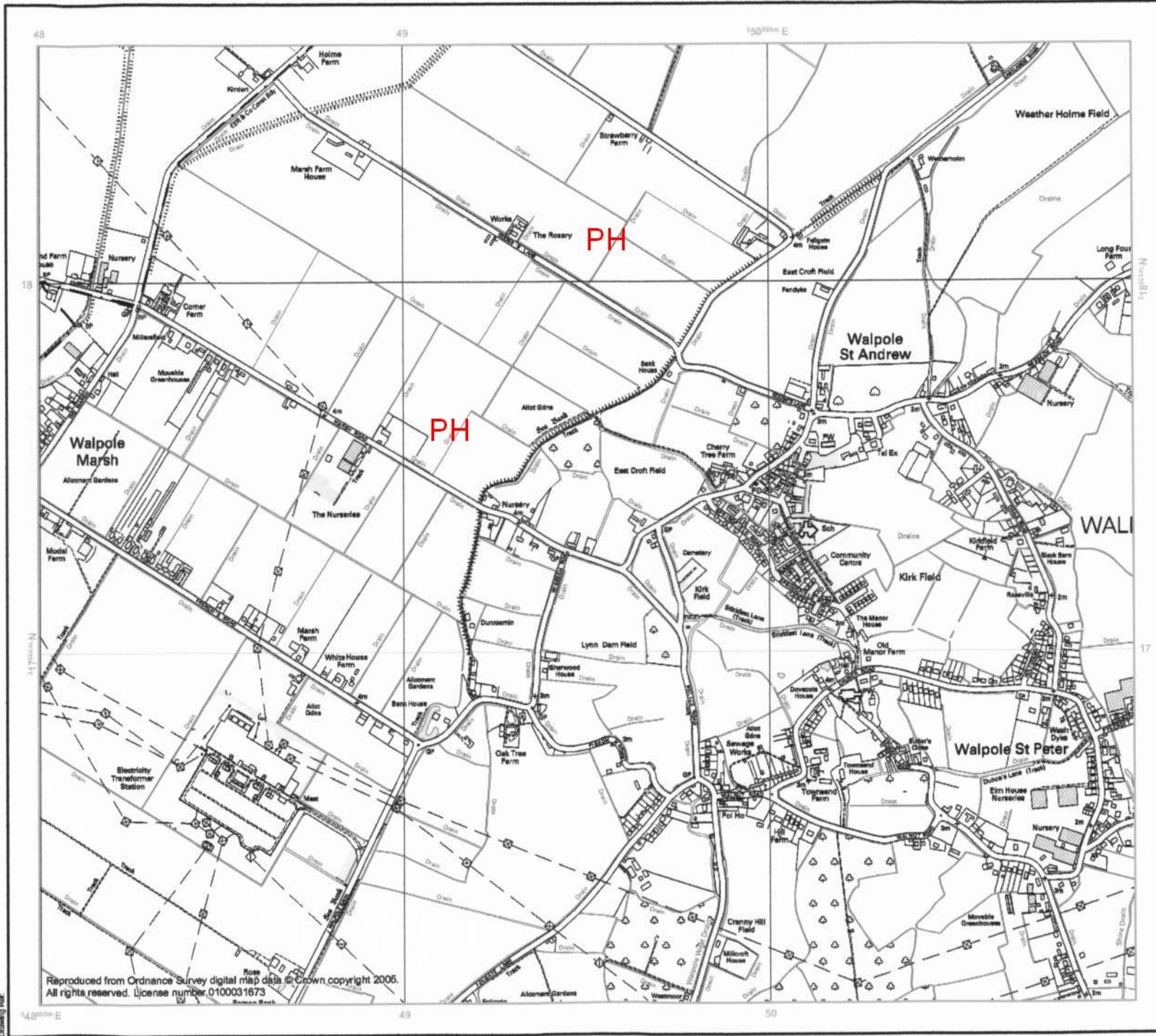
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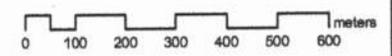
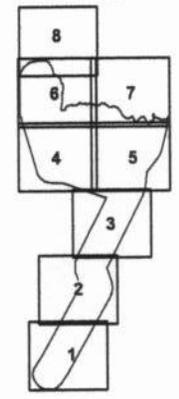
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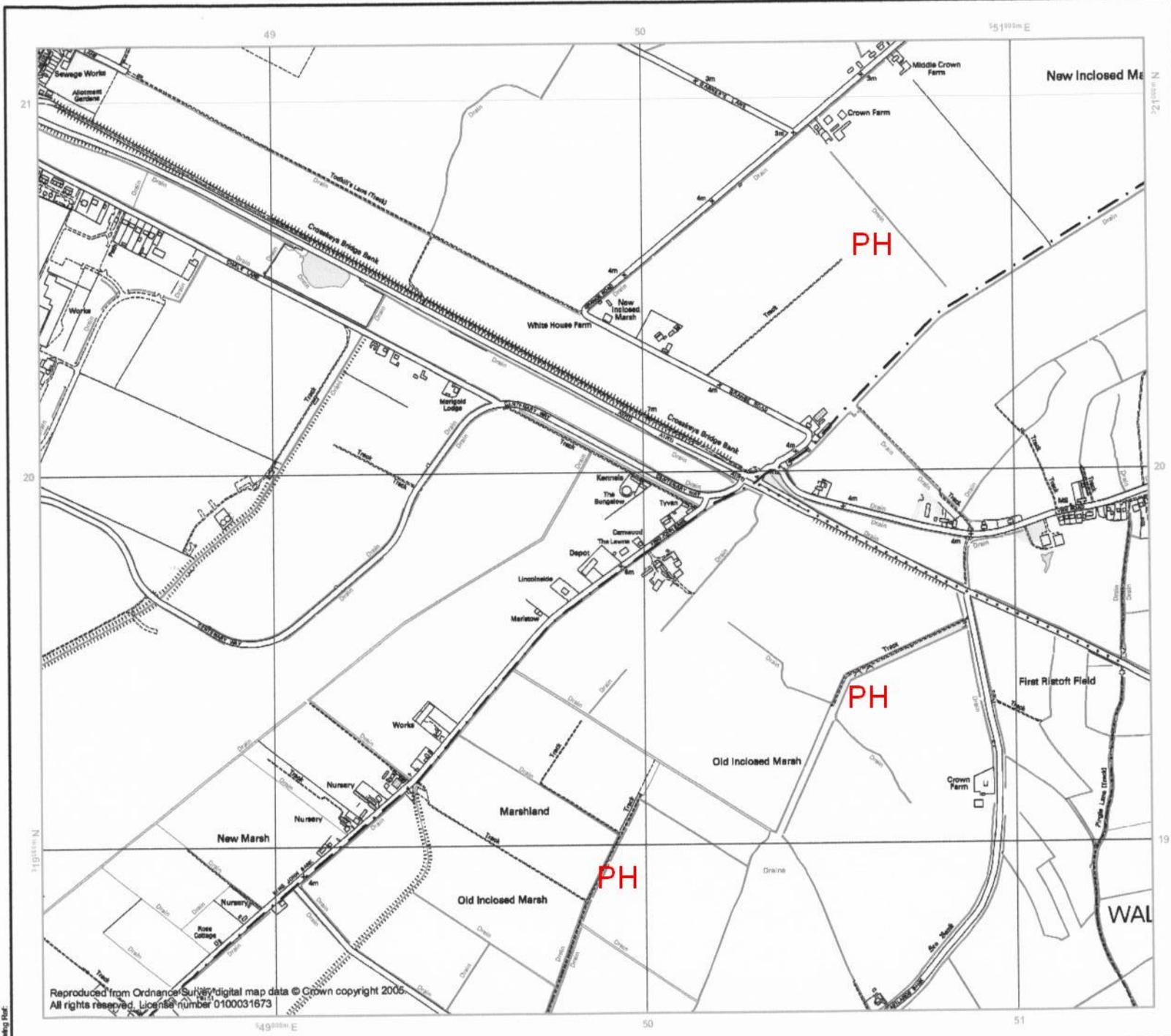


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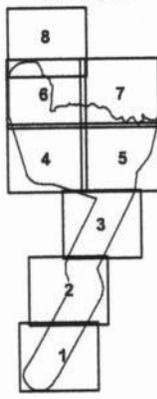
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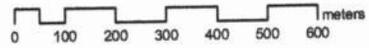


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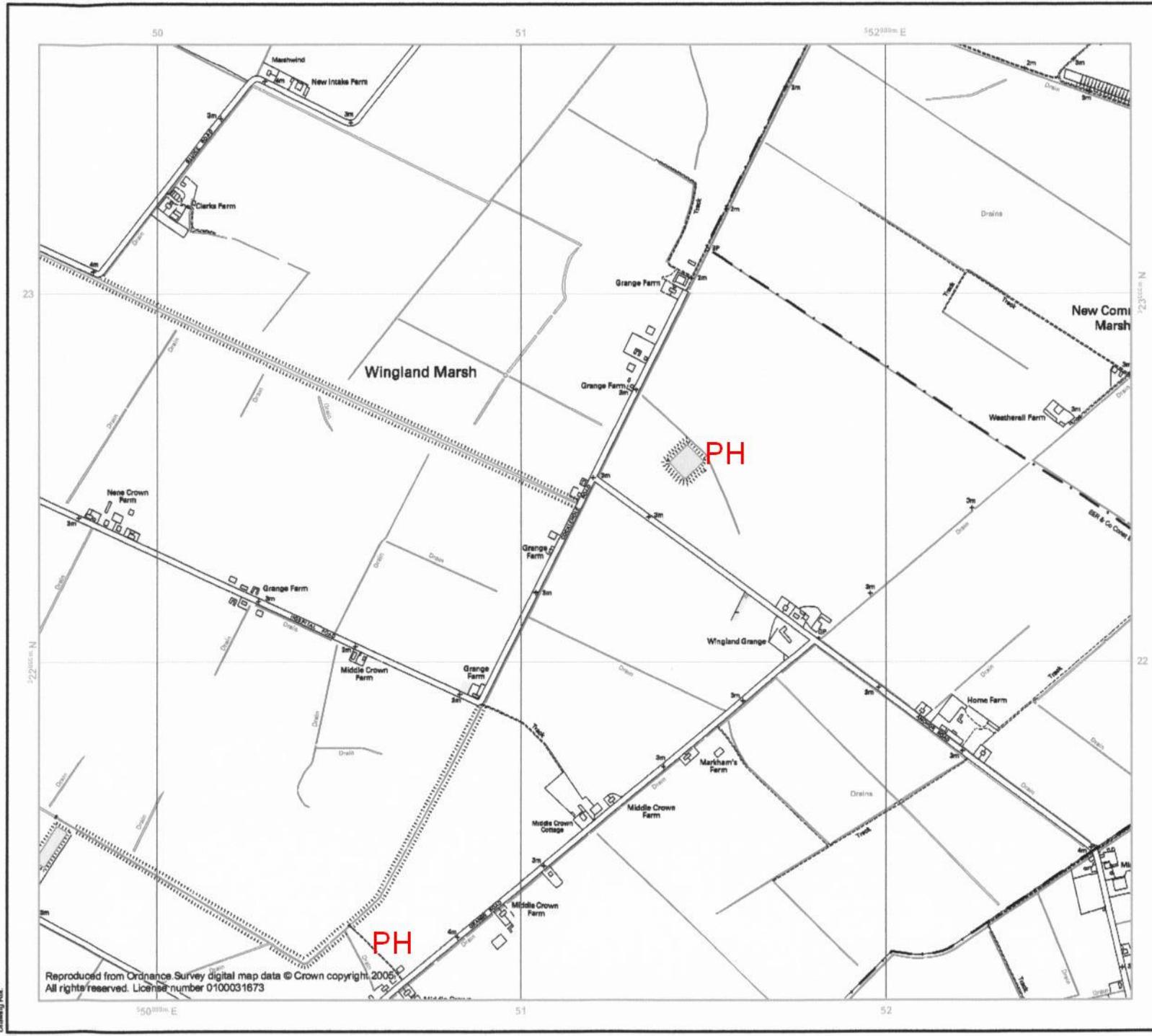


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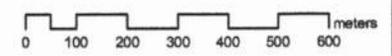
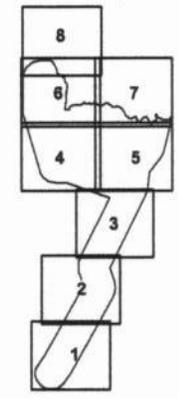
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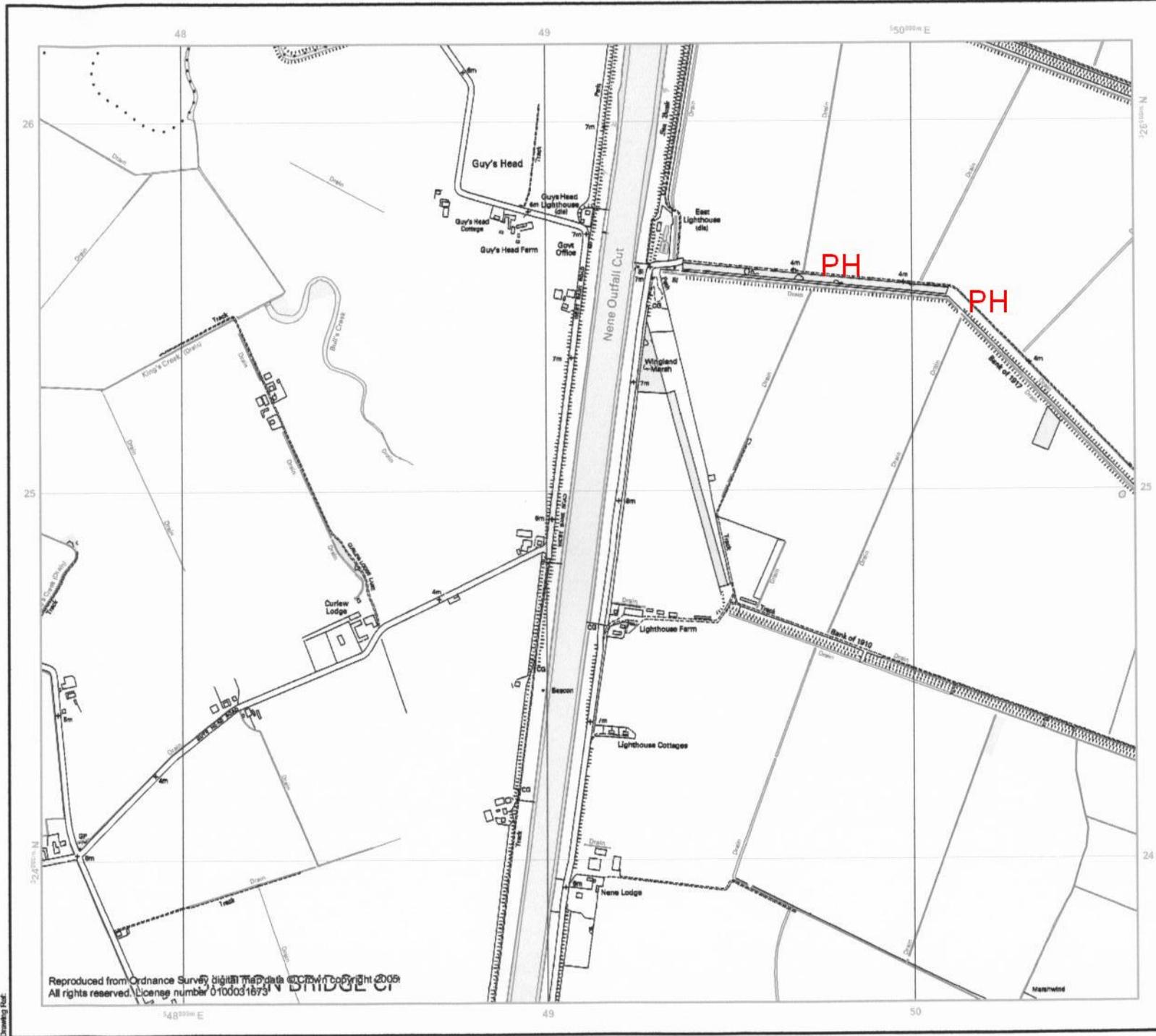


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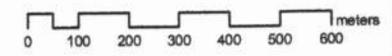
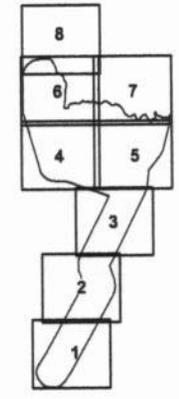
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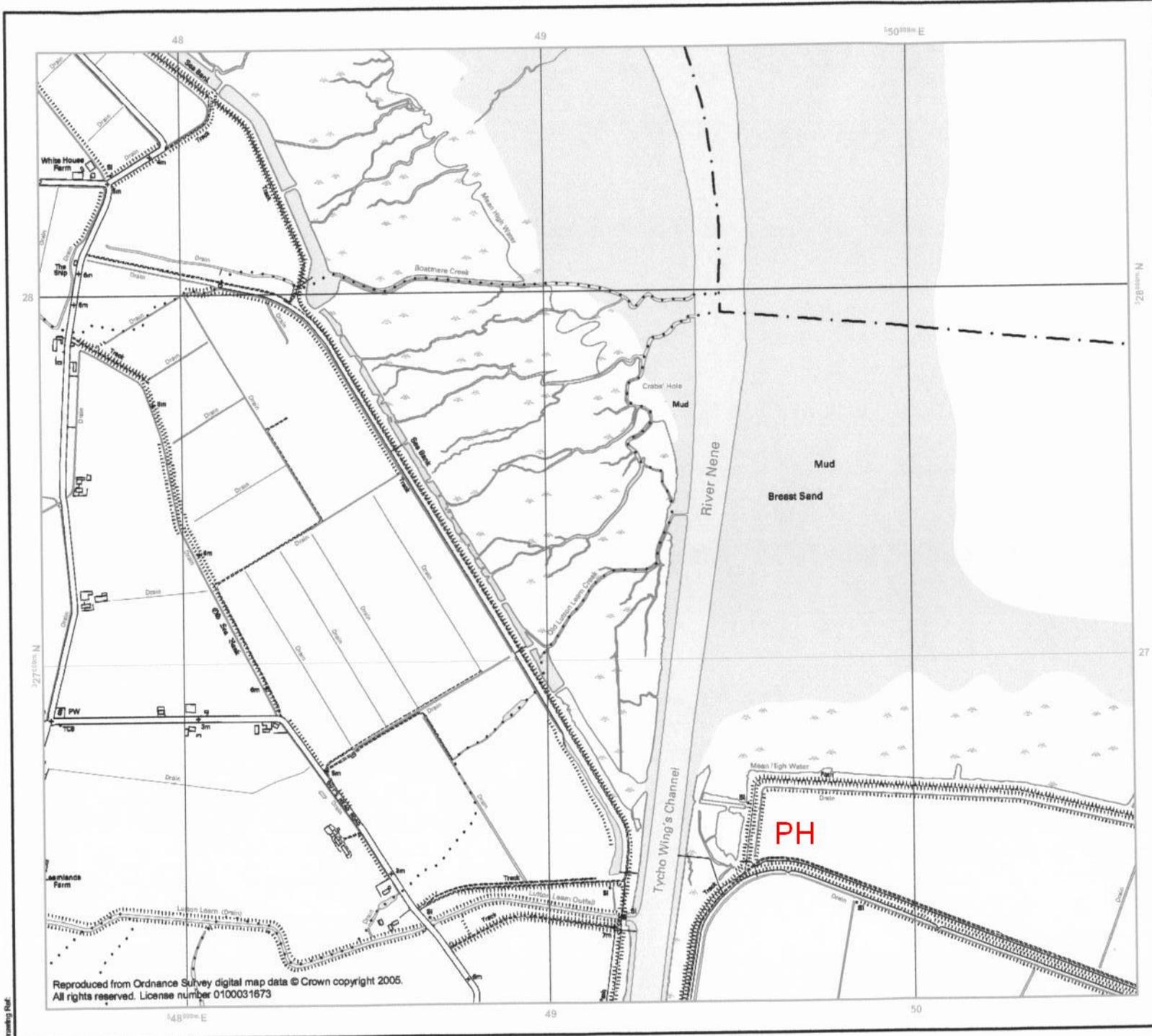
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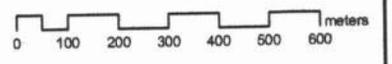
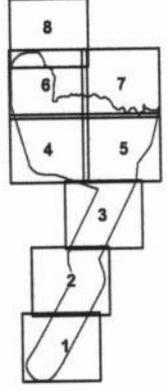
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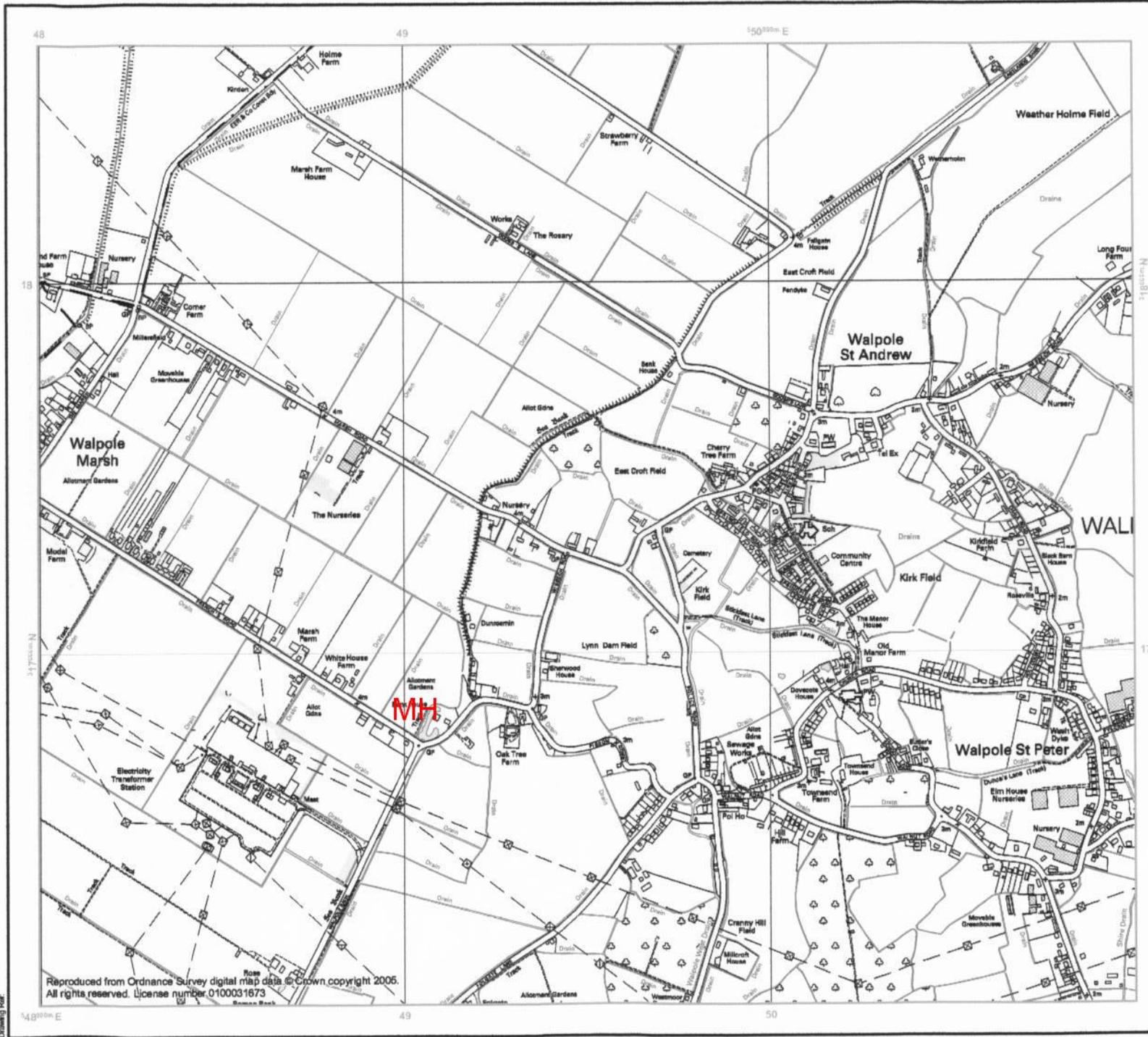
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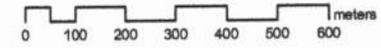
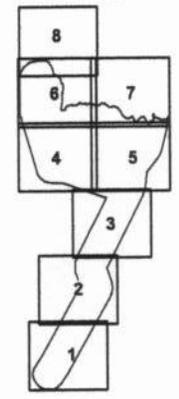
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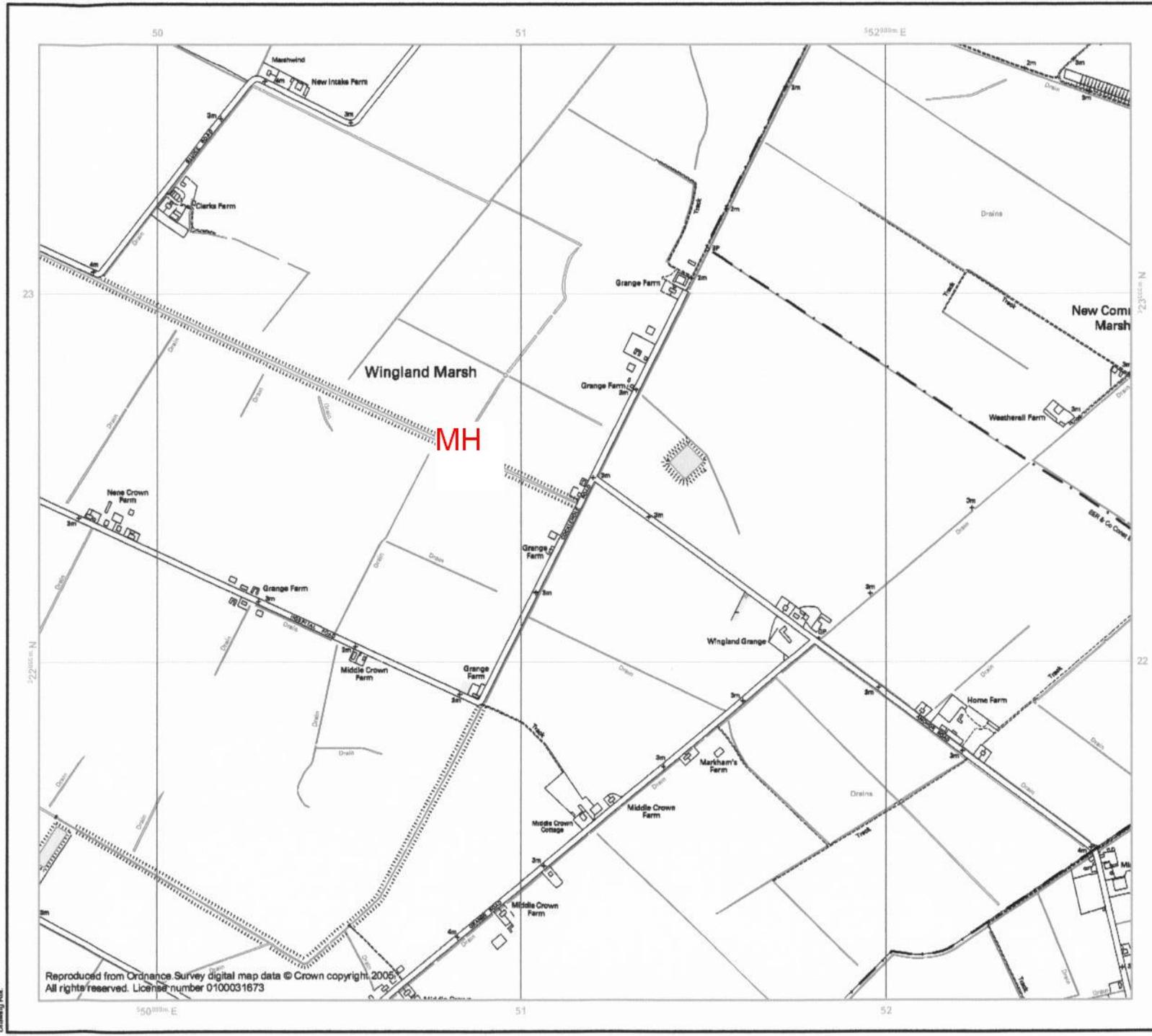
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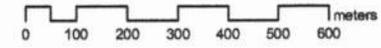
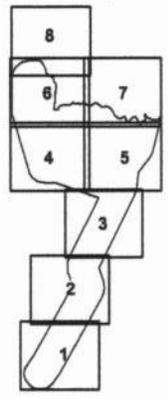
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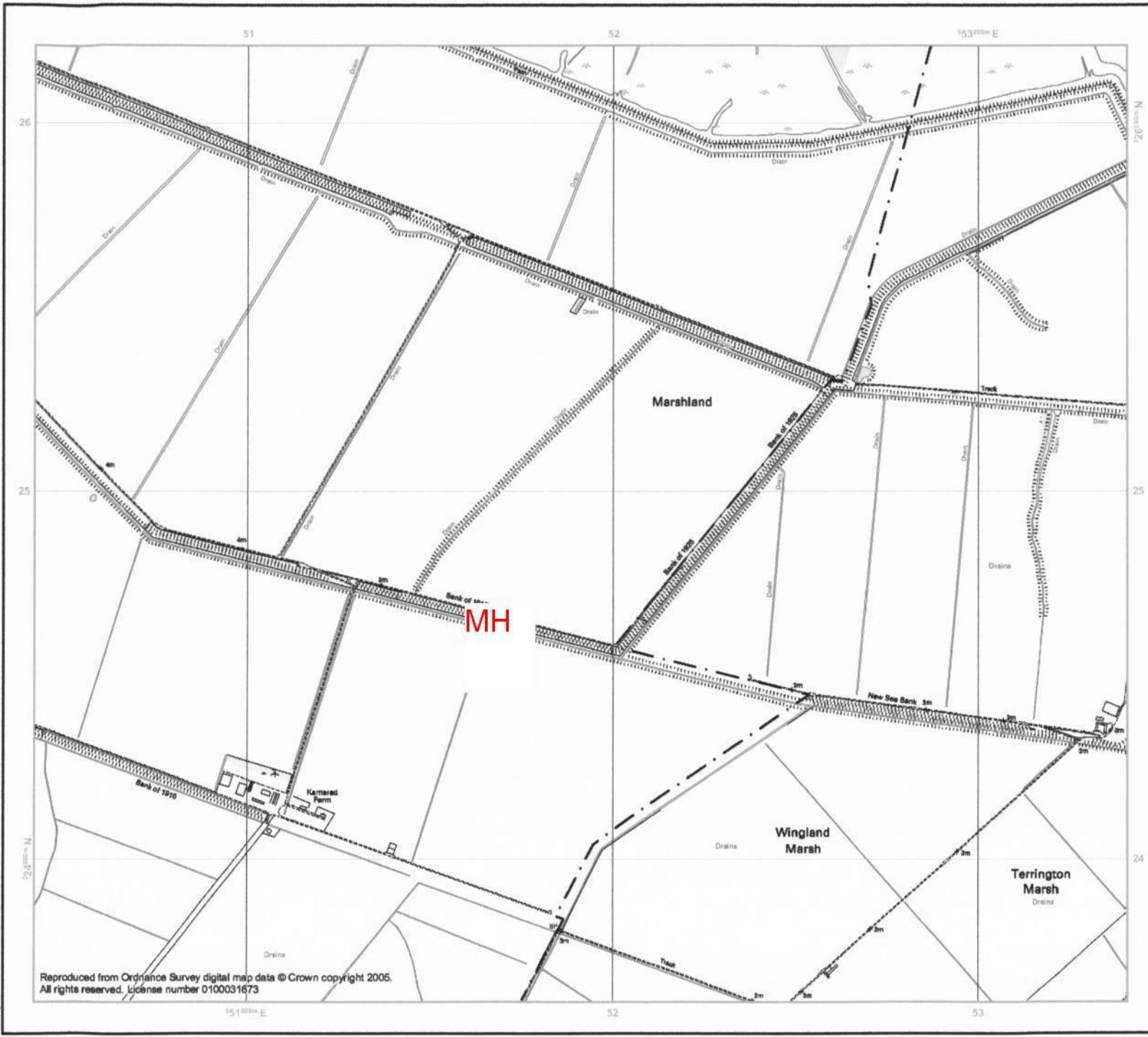
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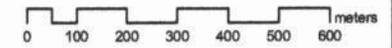
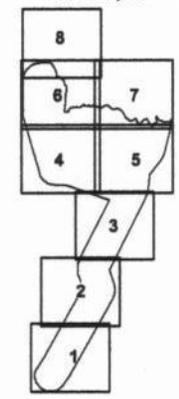
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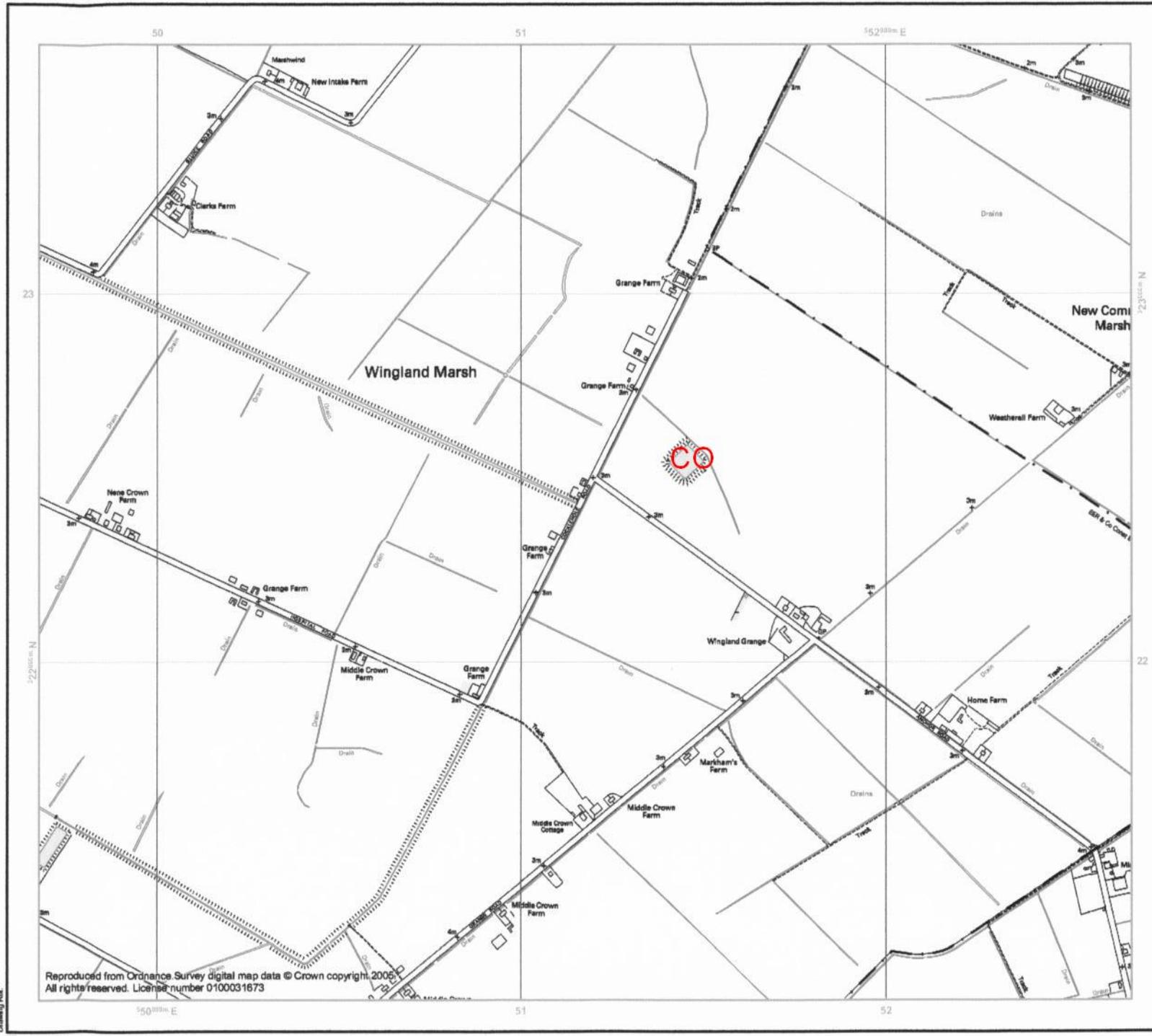
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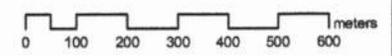
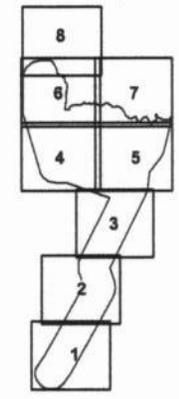
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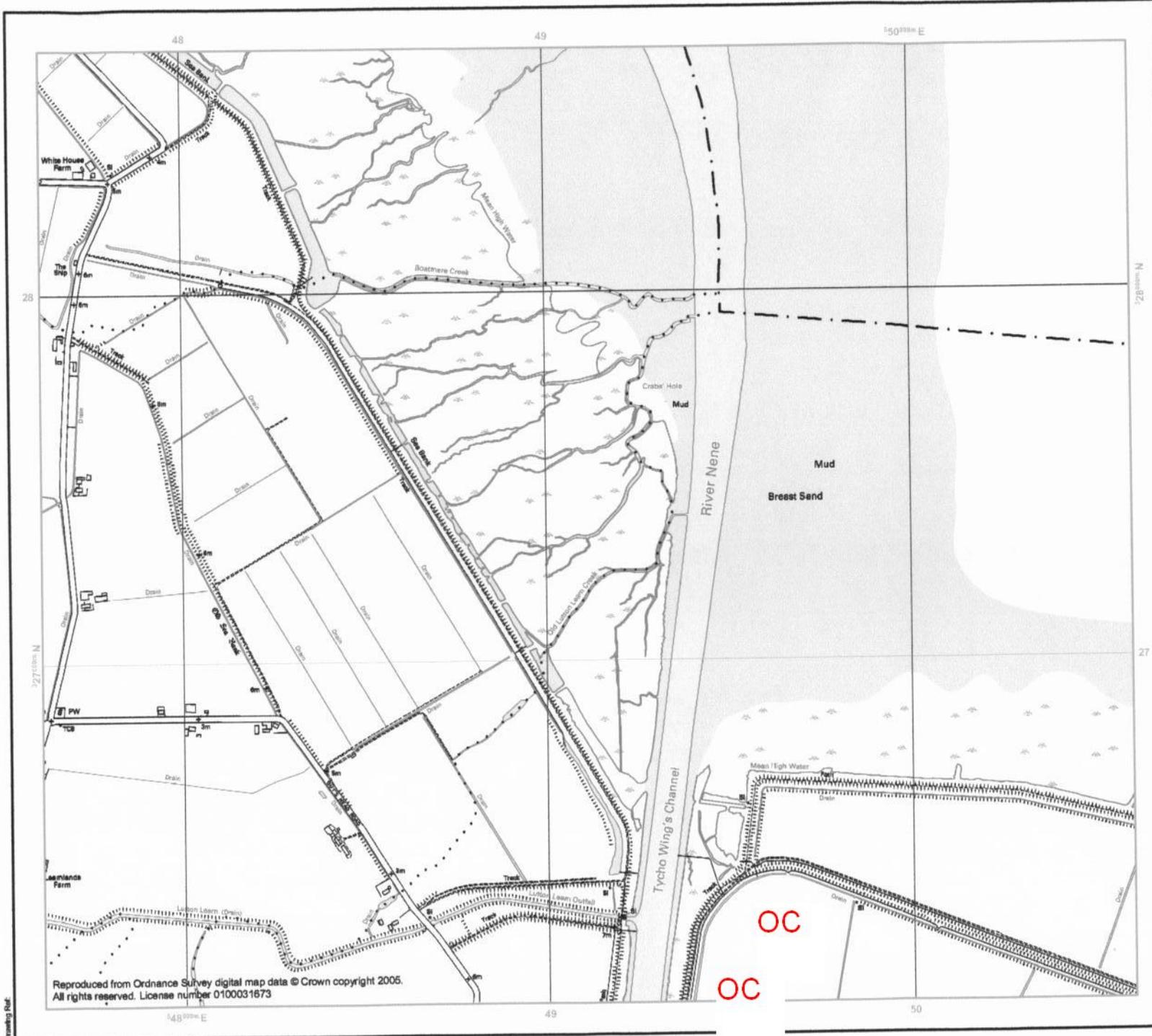


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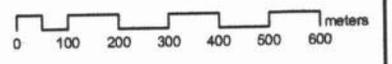
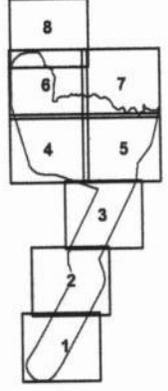


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Project:	Onshore Cable Routes Skegness and Walpole		
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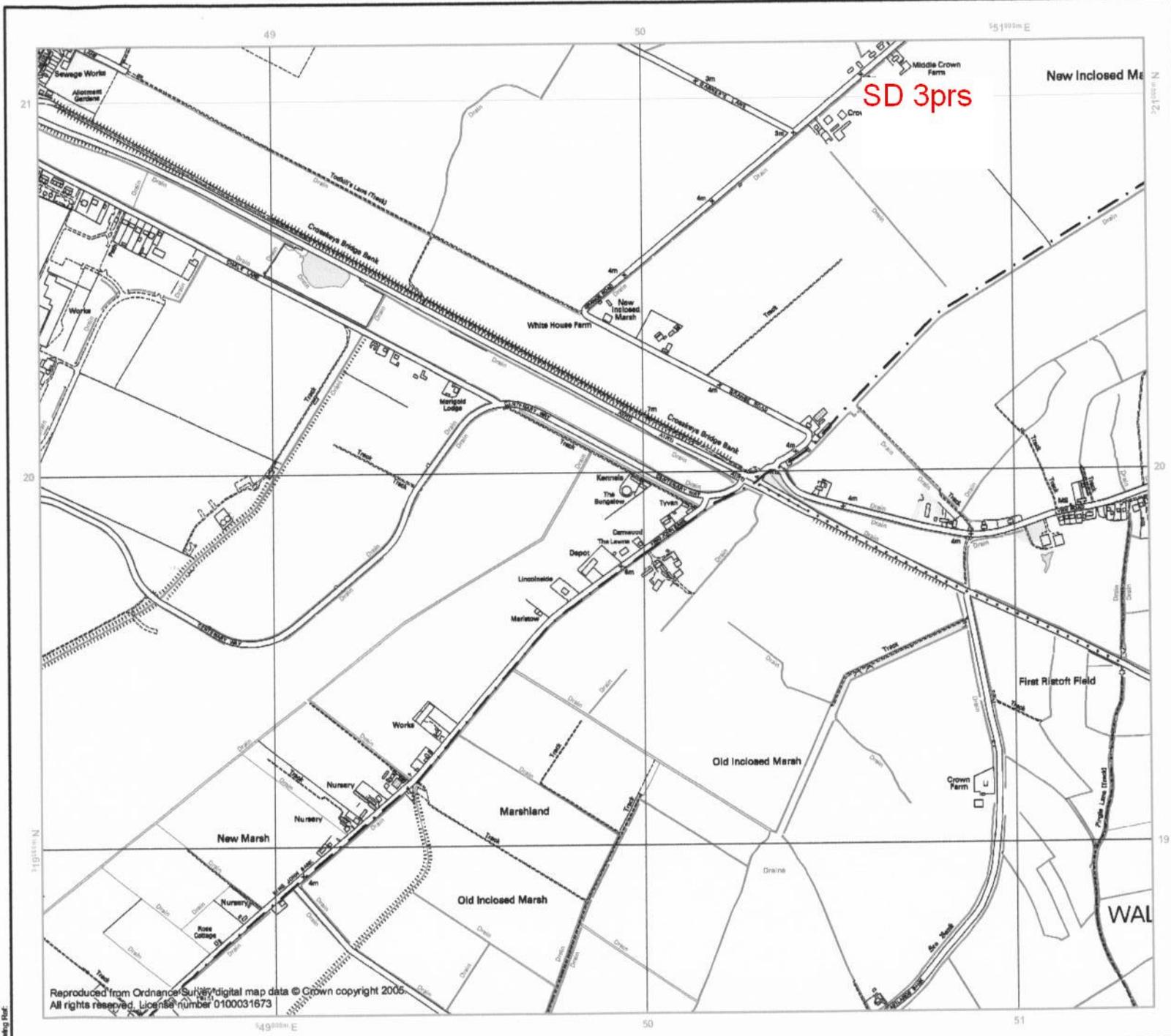
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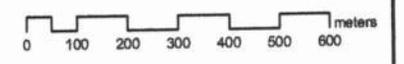
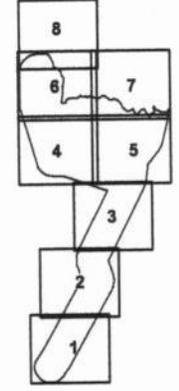
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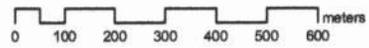
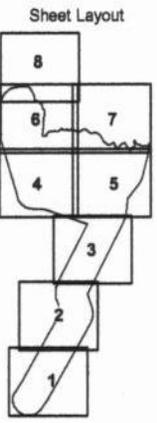
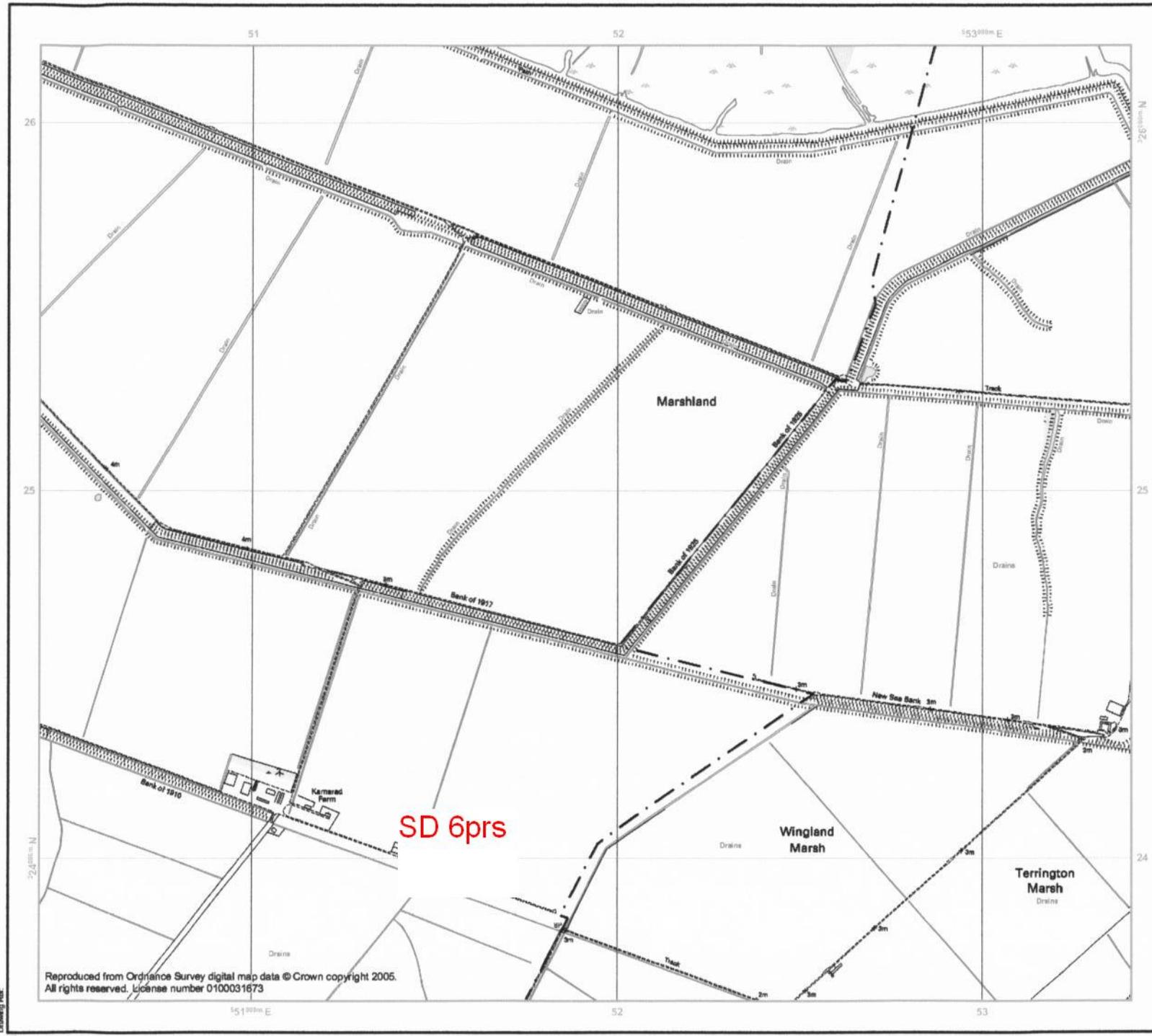
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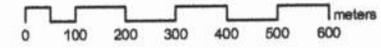
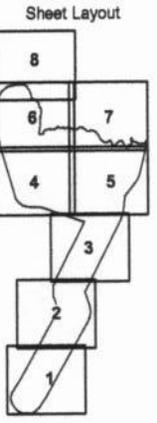
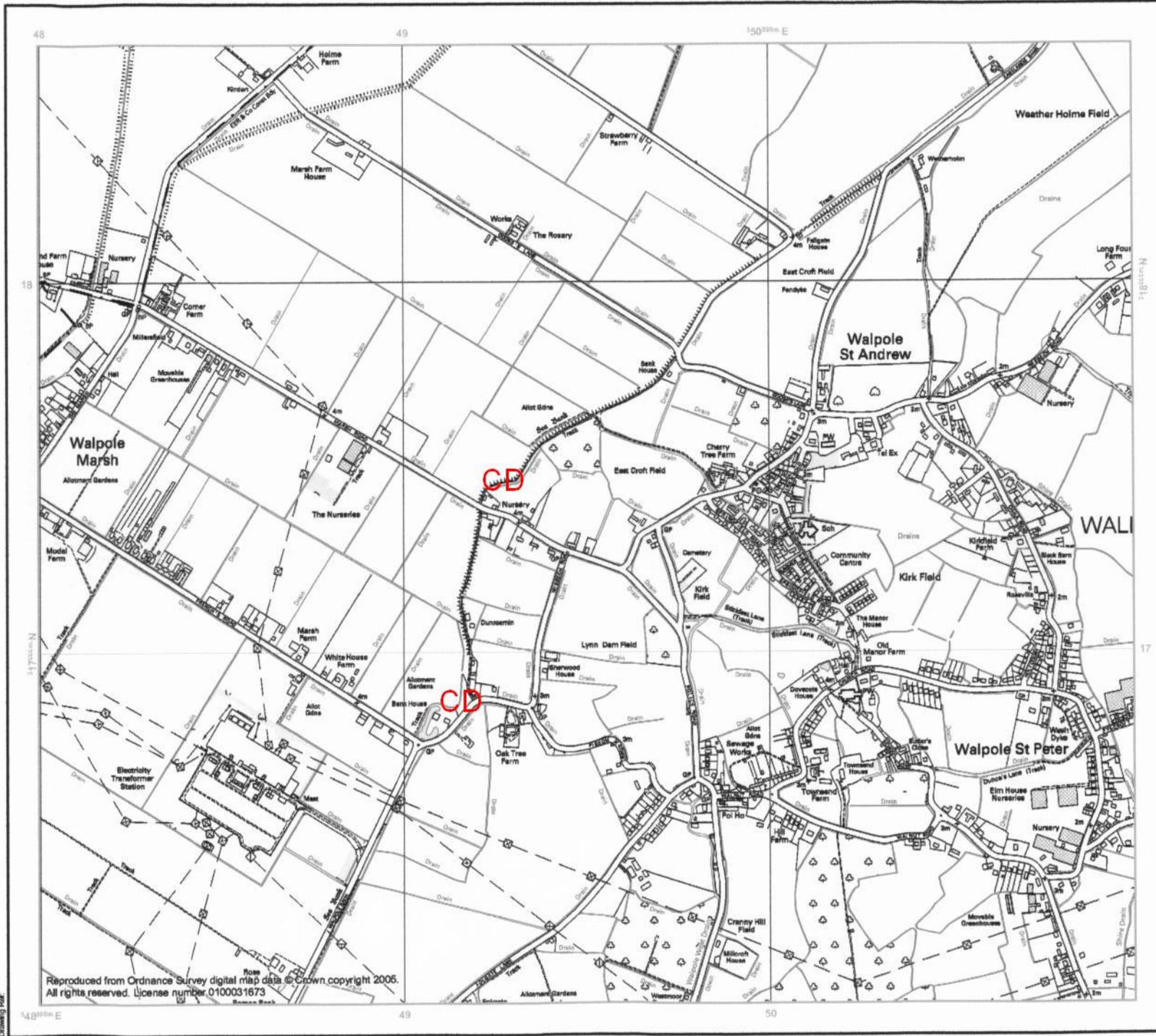
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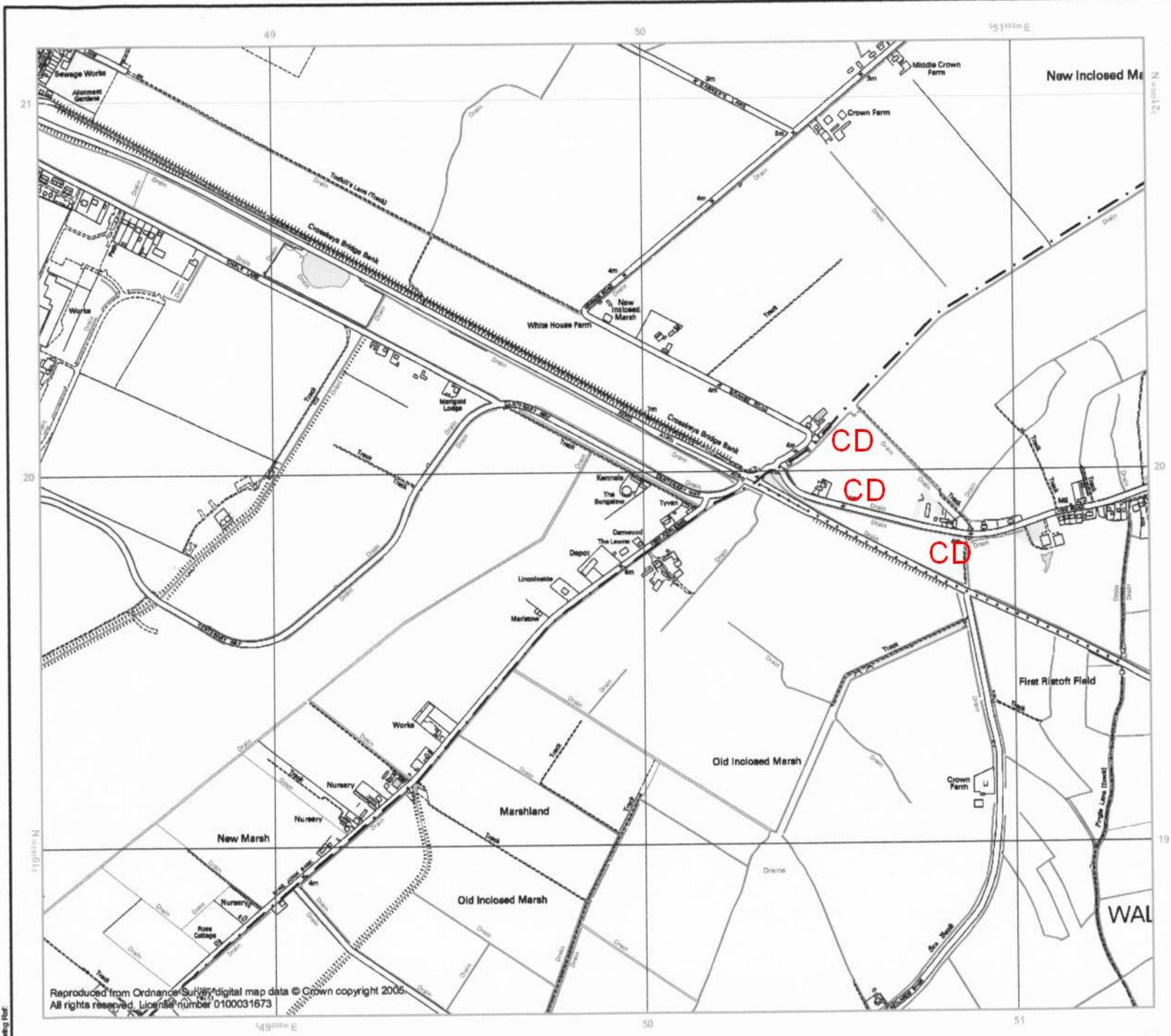
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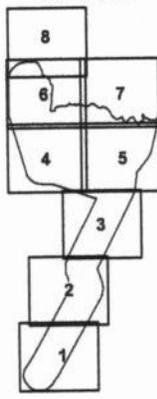
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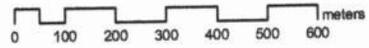


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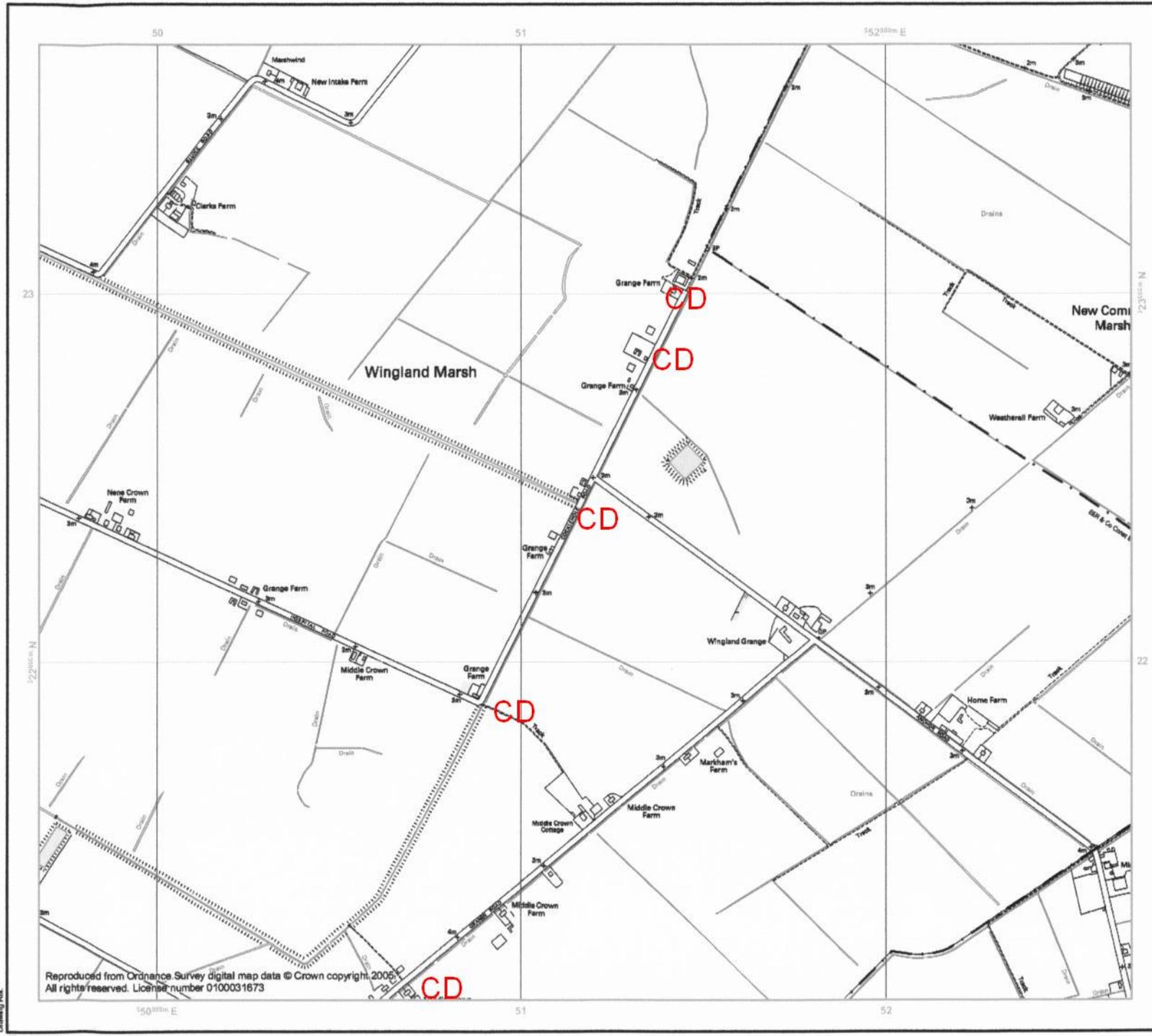


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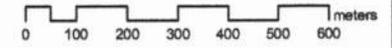
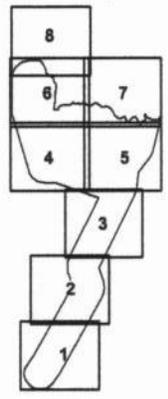
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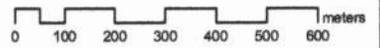
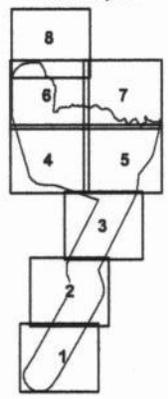


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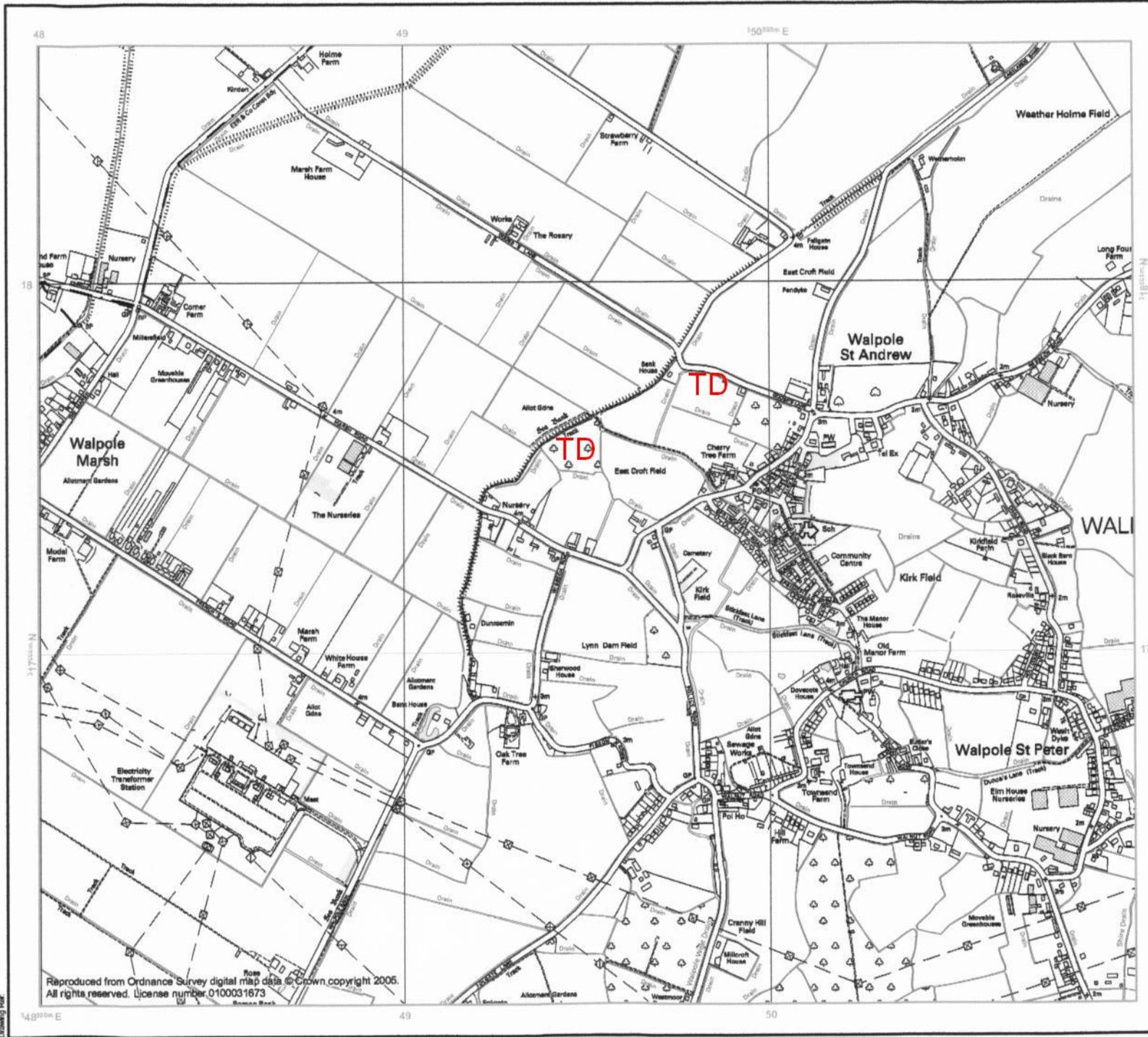
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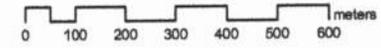
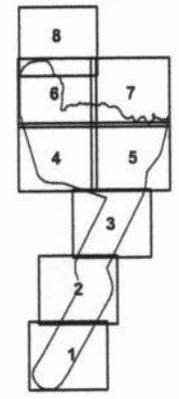
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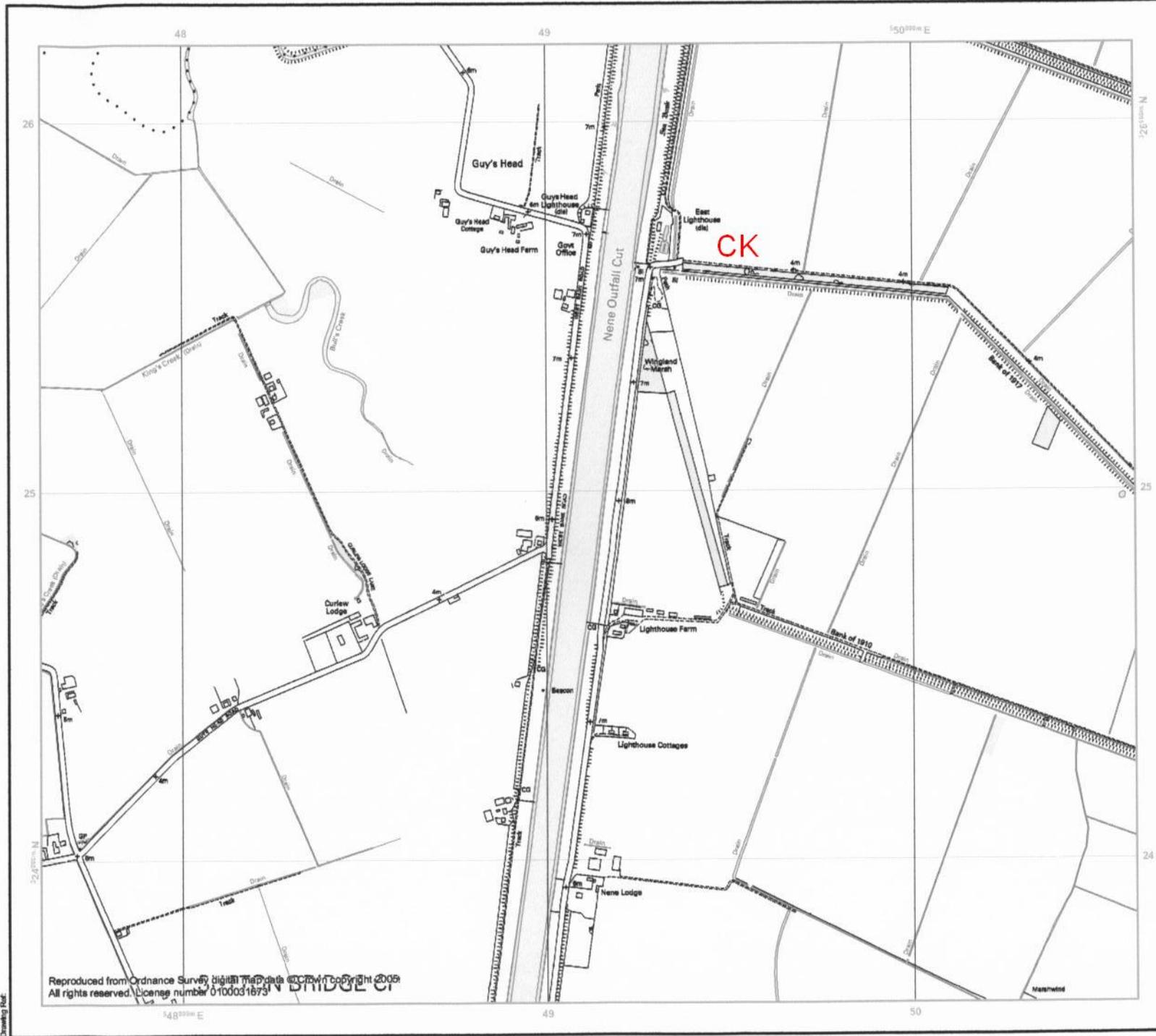
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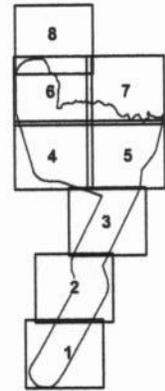
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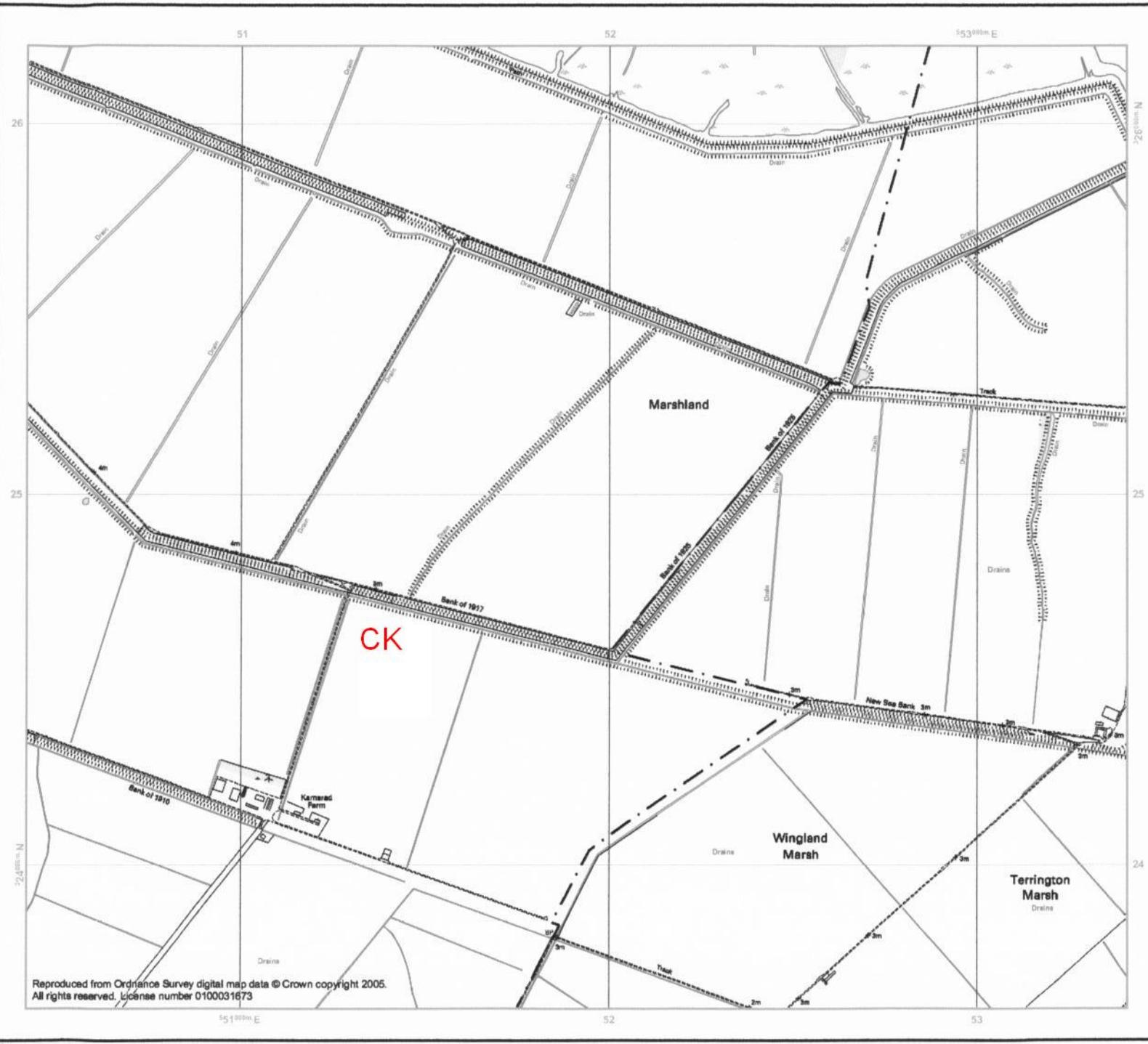
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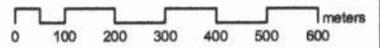
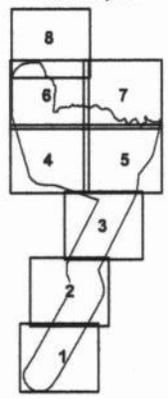
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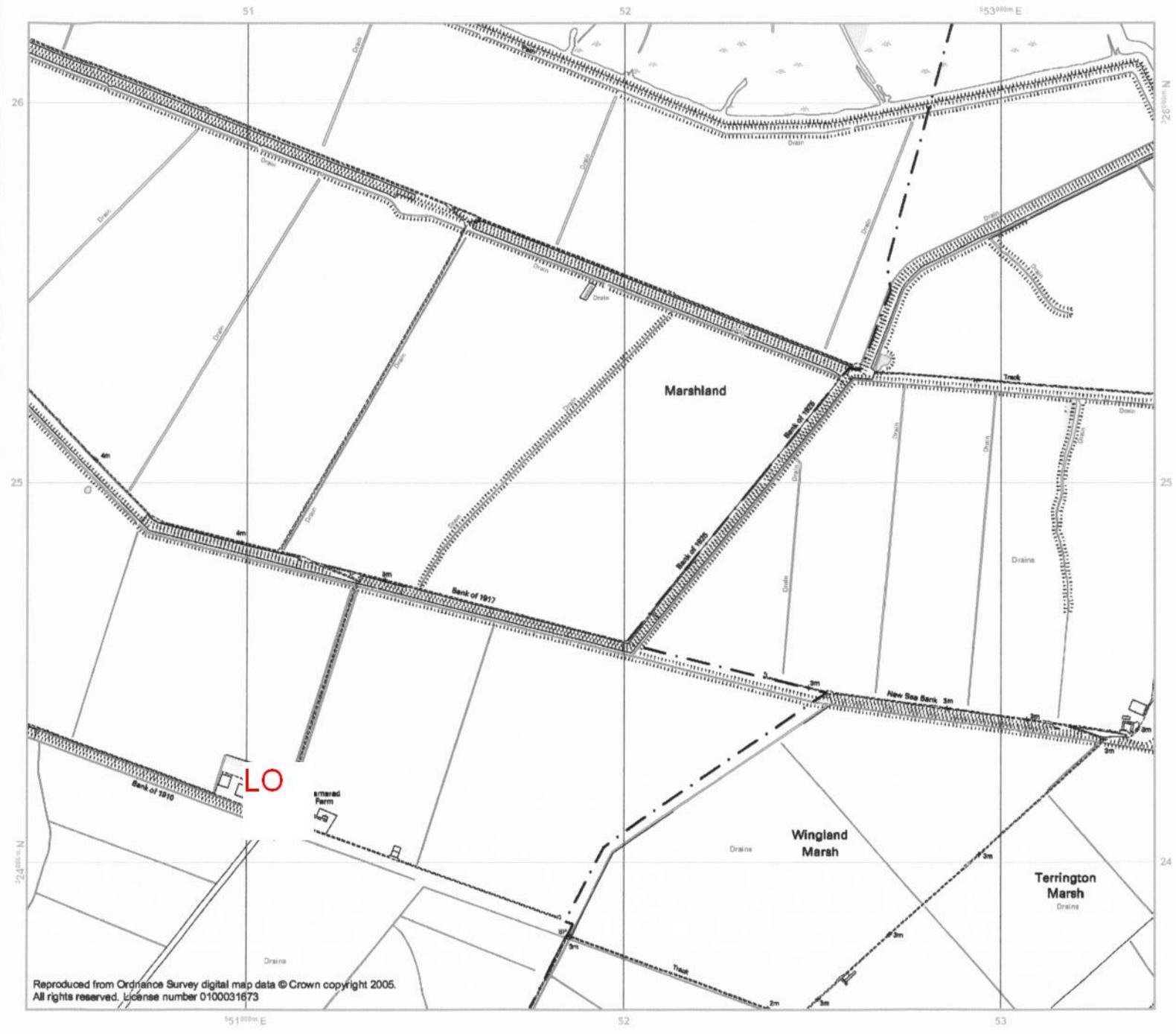
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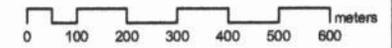
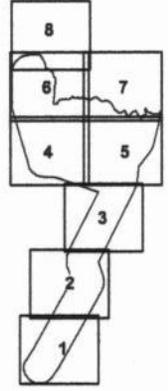
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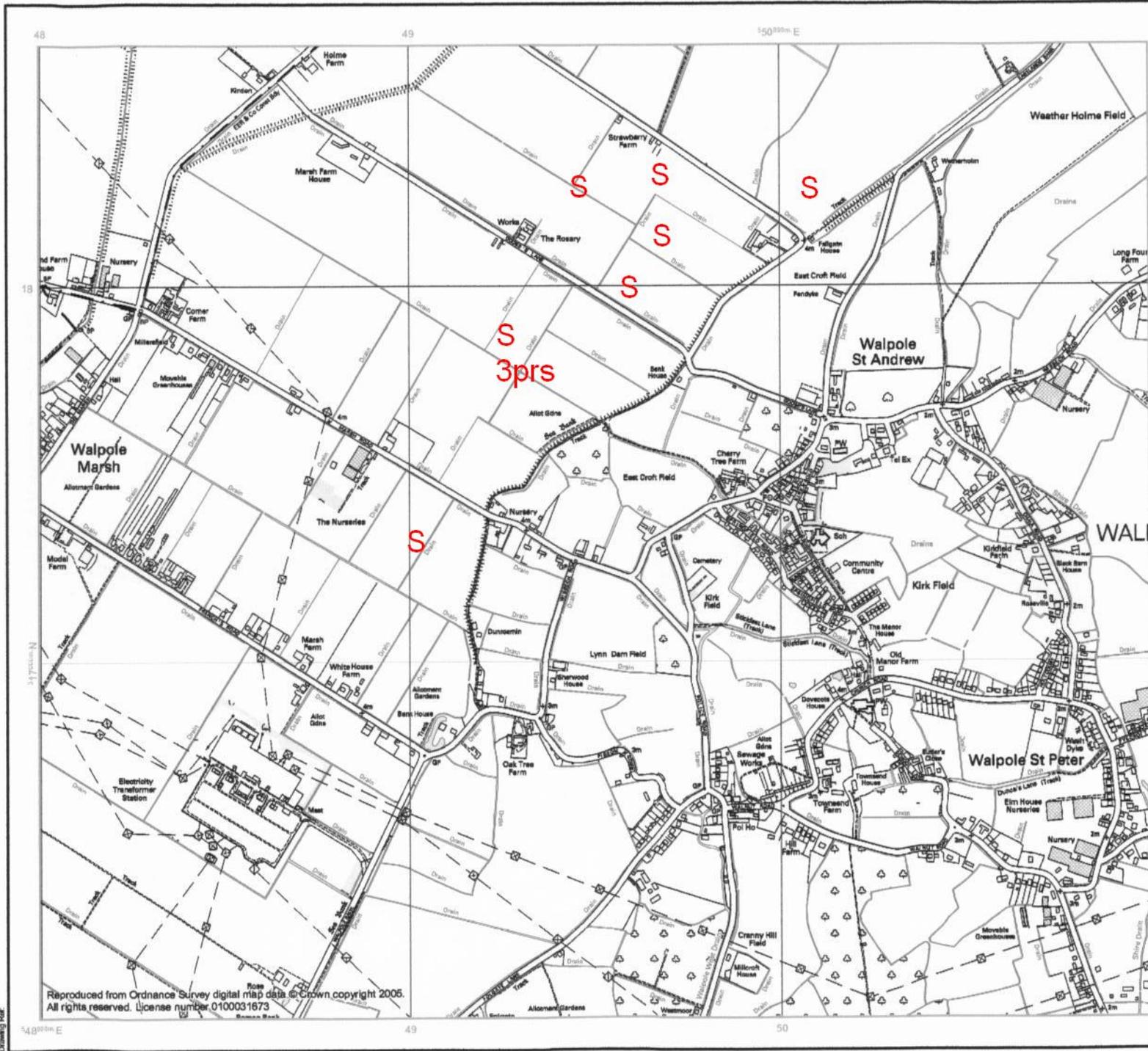
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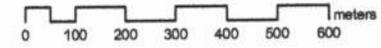
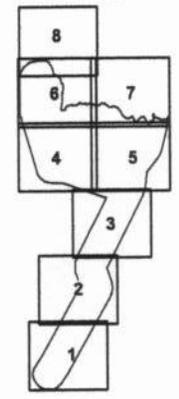
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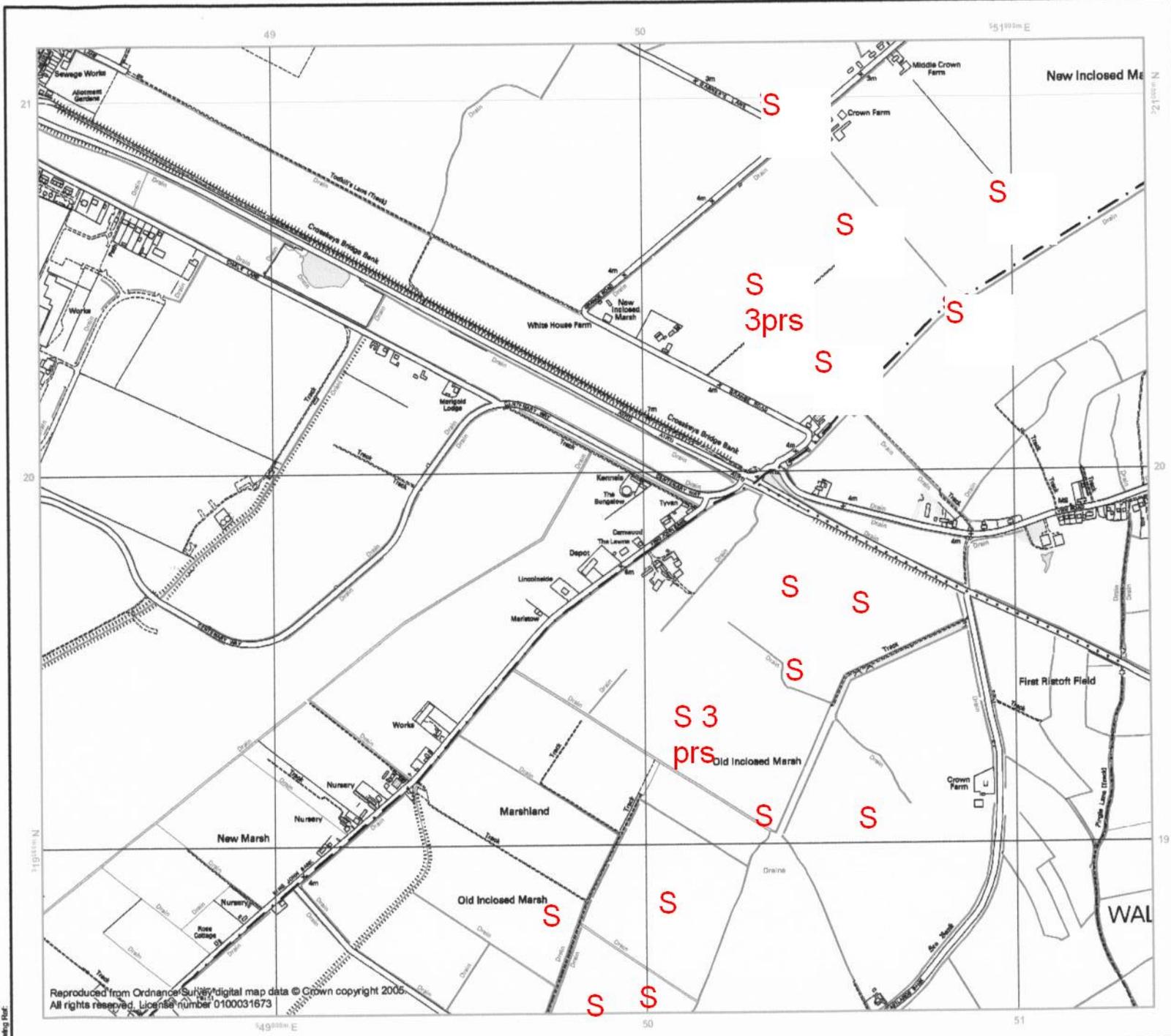
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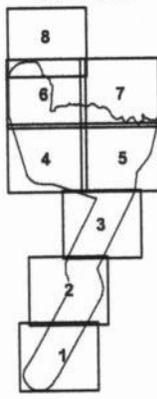
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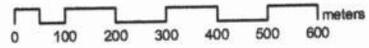


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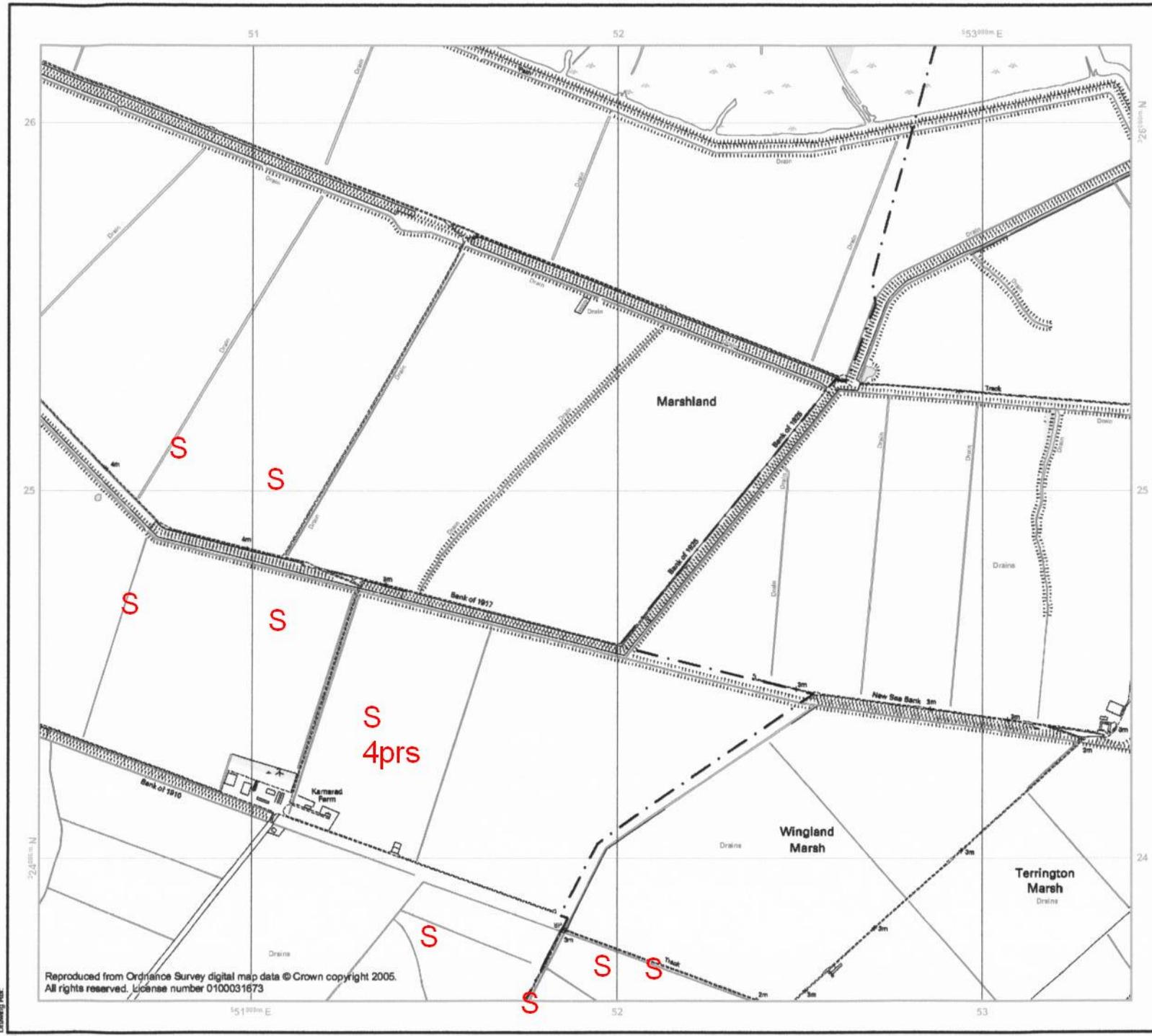


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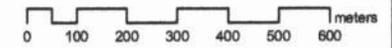
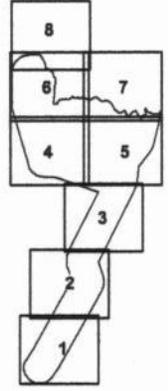
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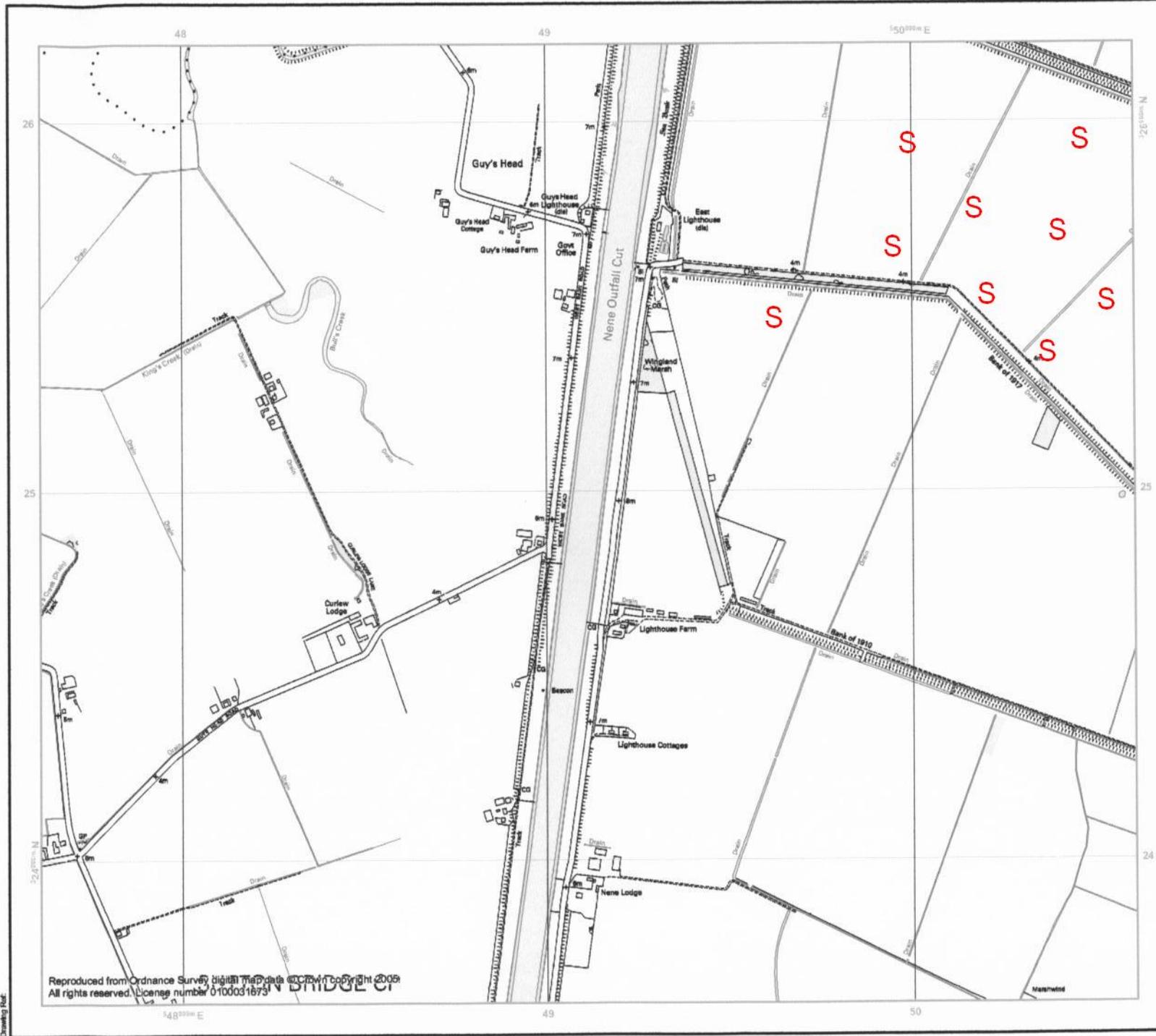
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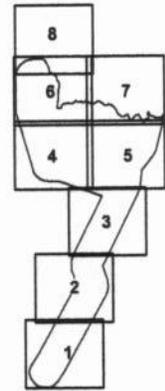
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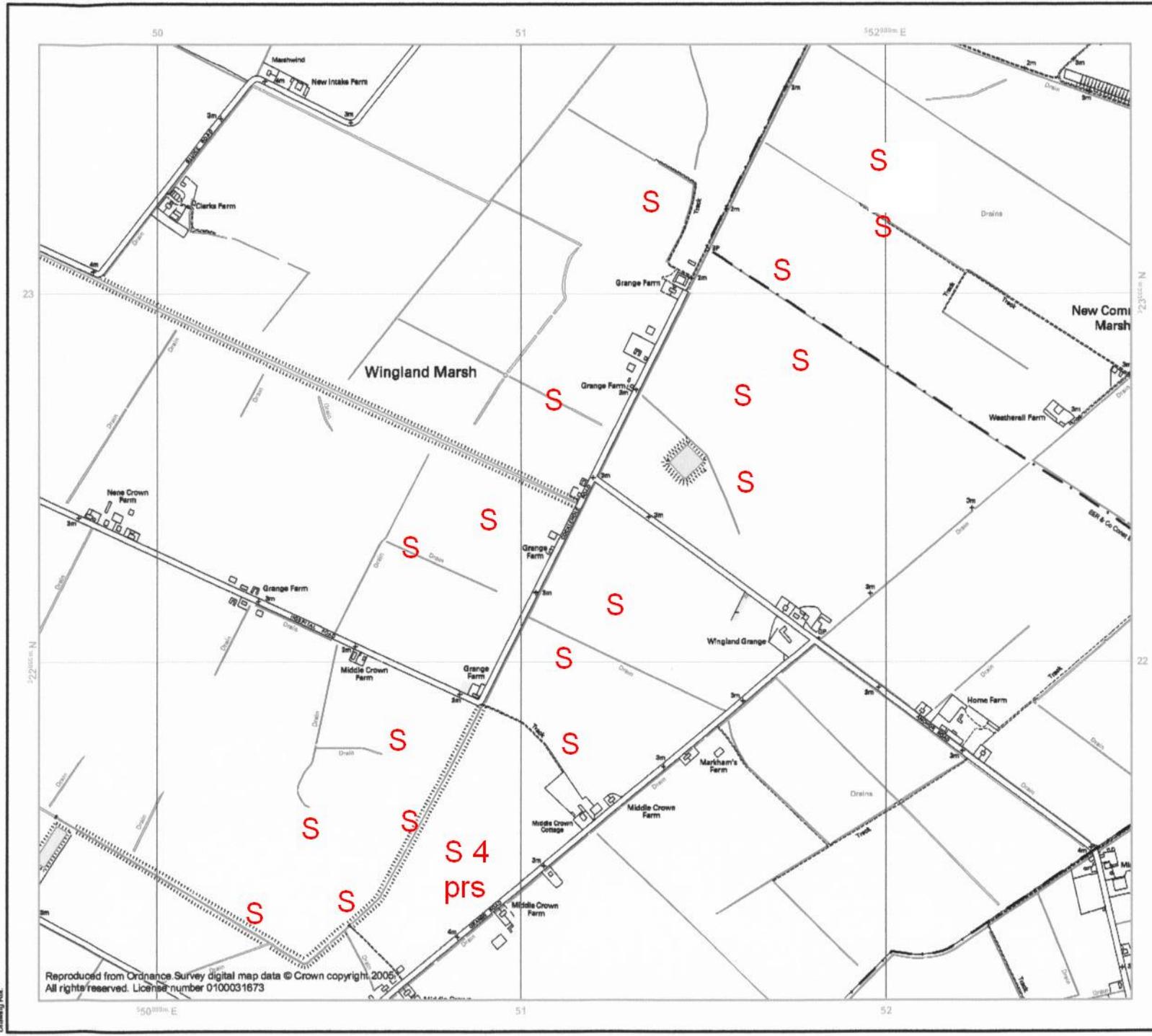
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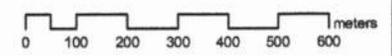
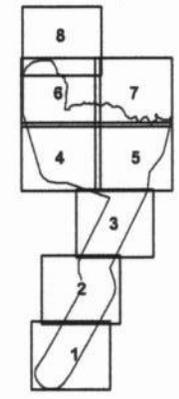
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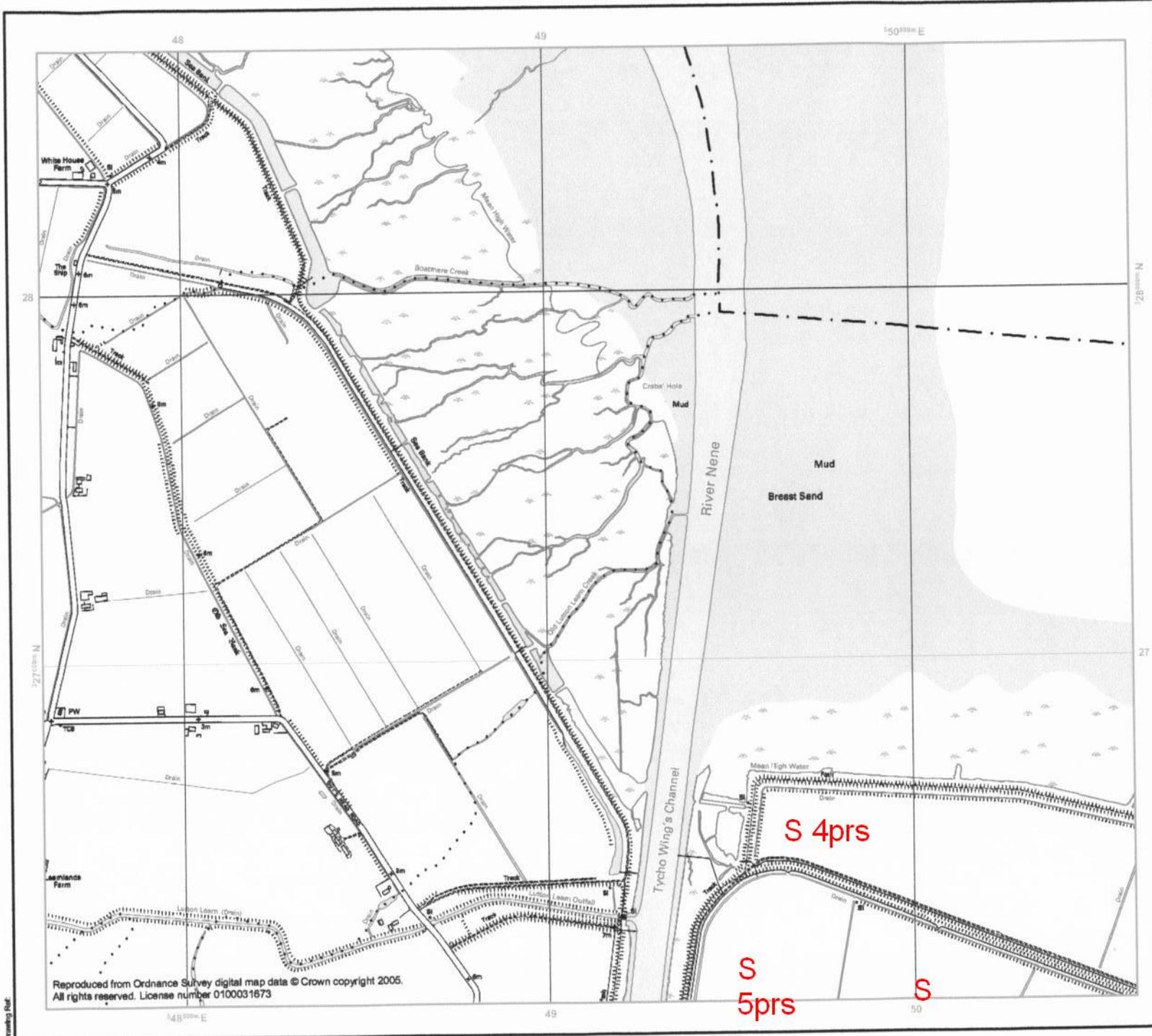


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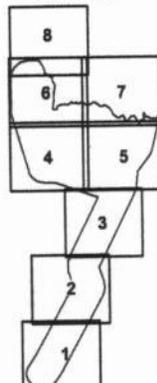
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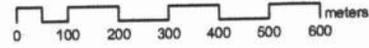
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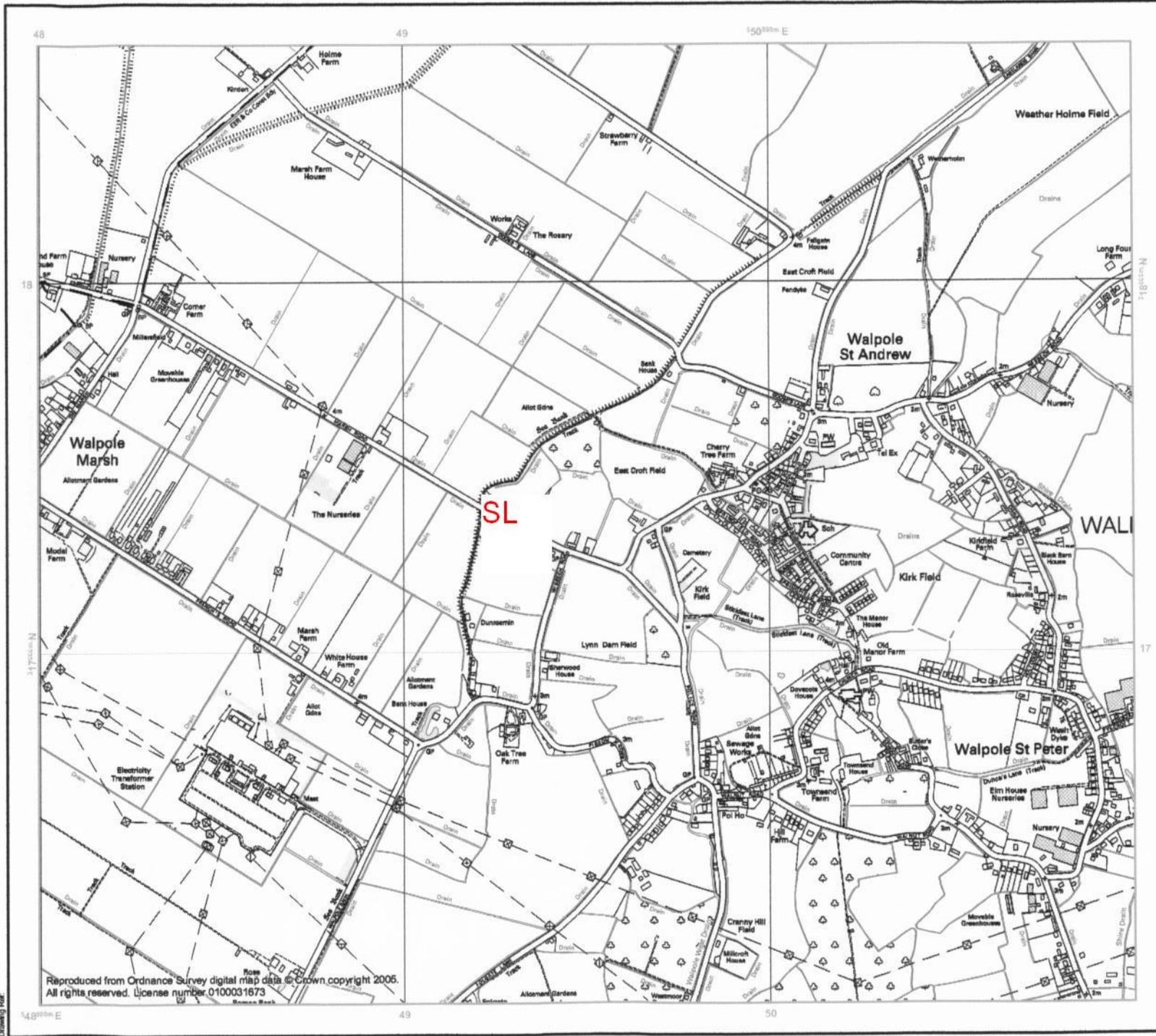
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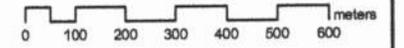
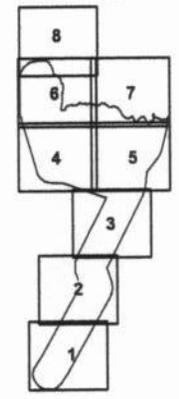
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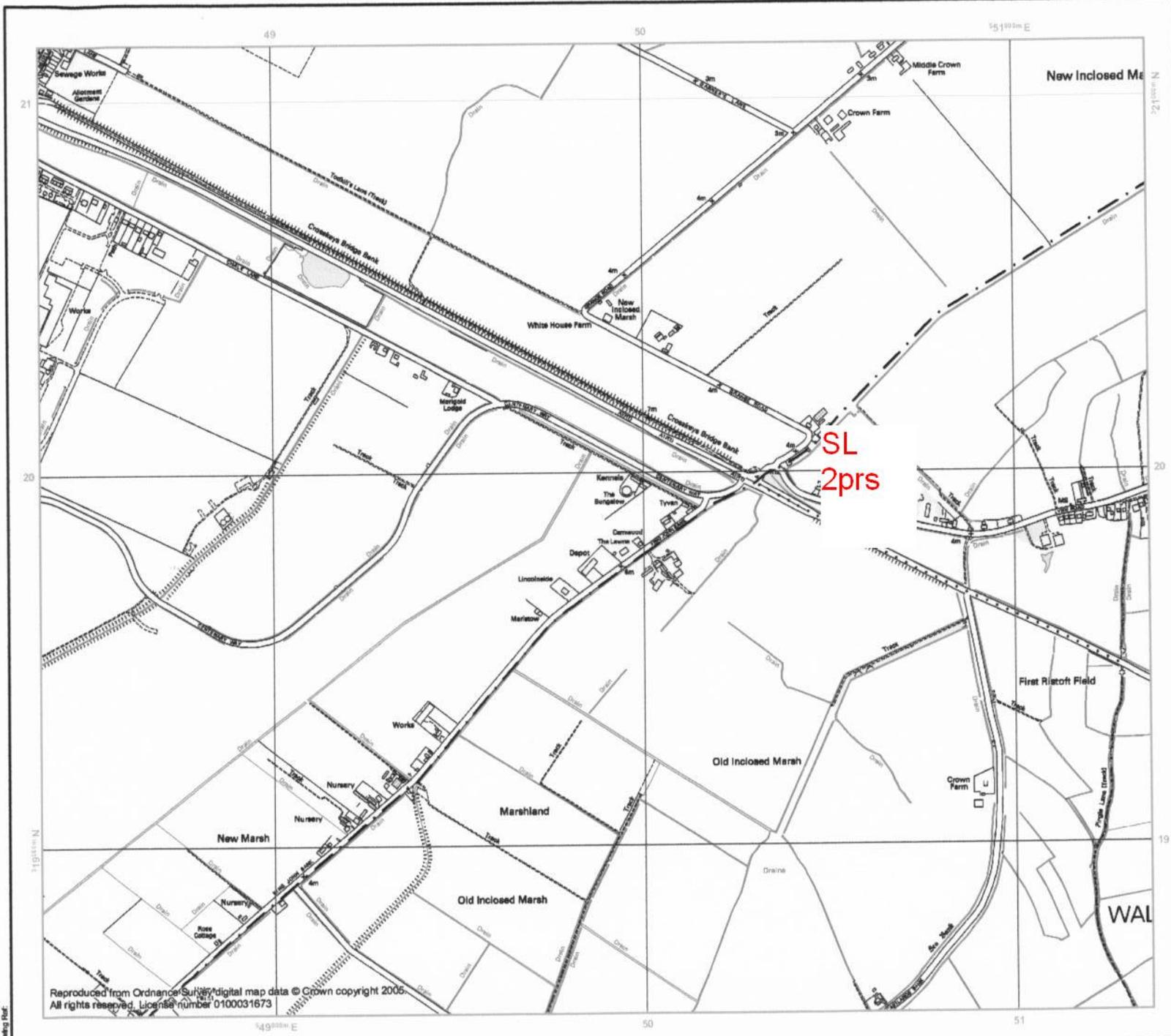
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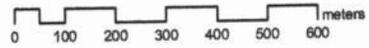
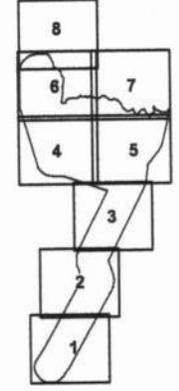
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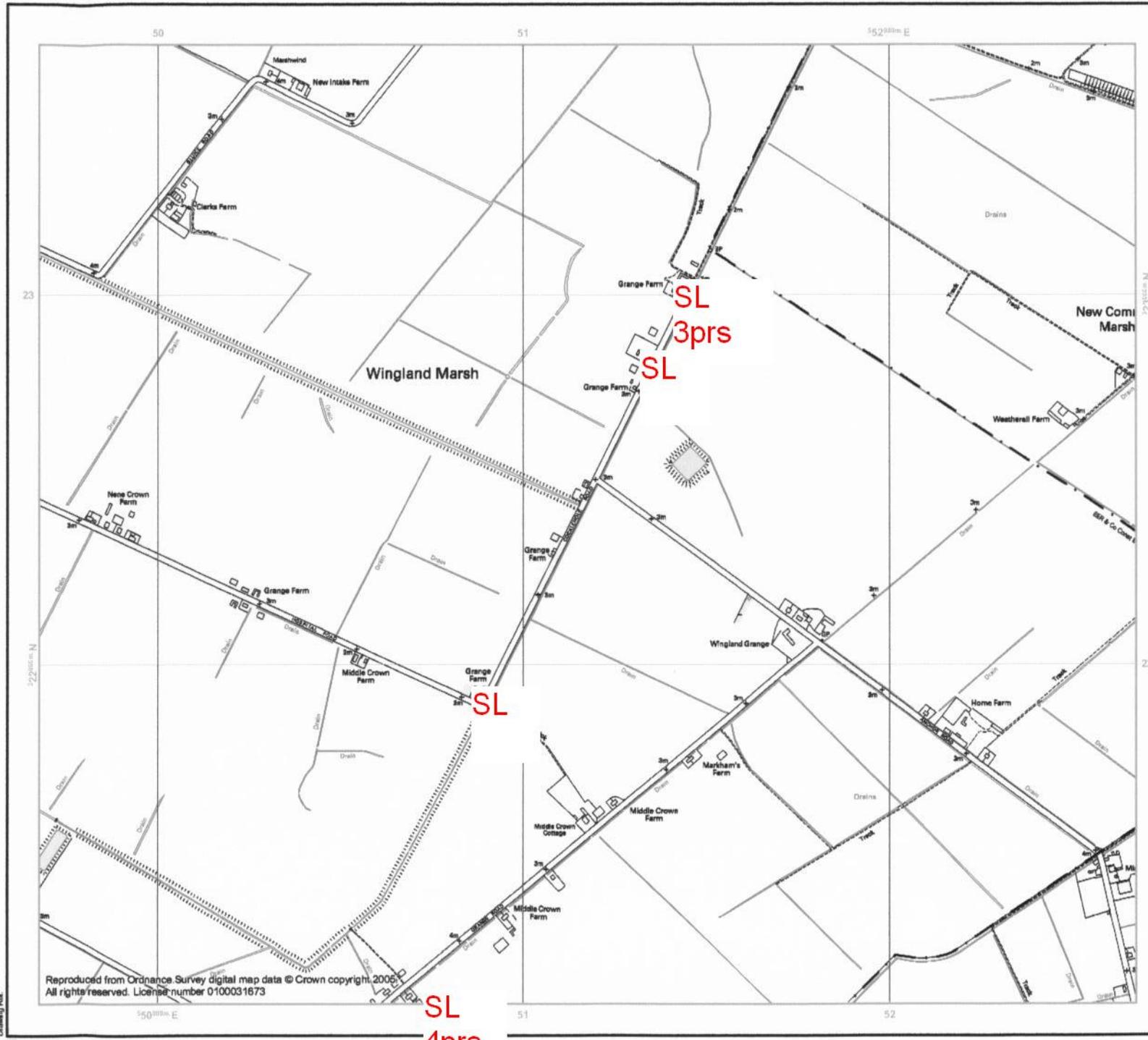
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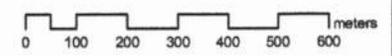
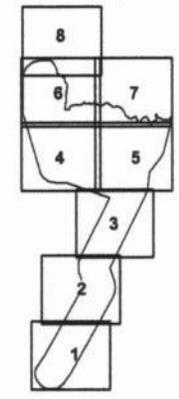


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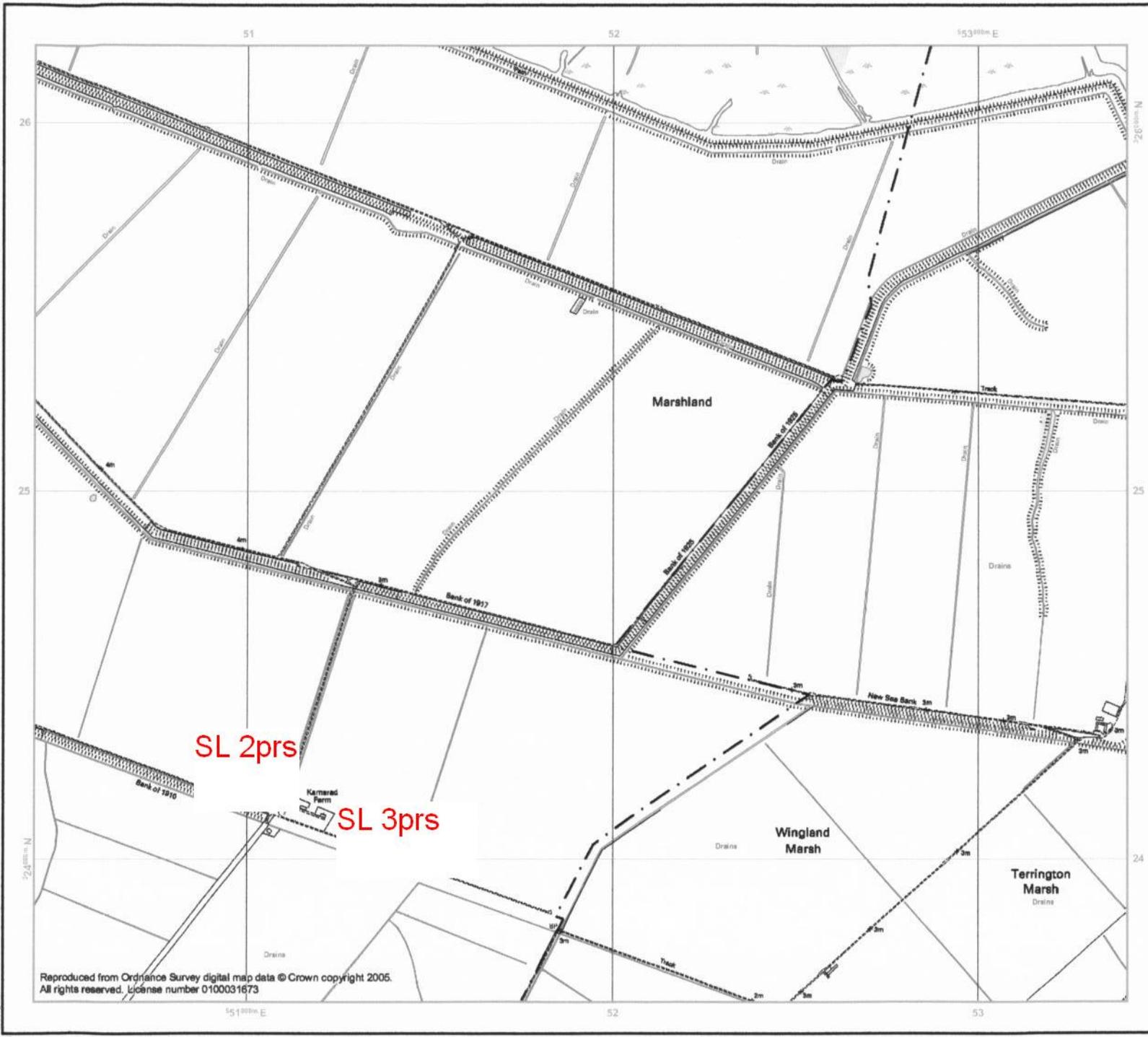
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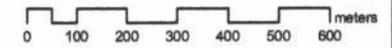
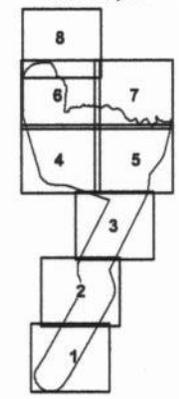
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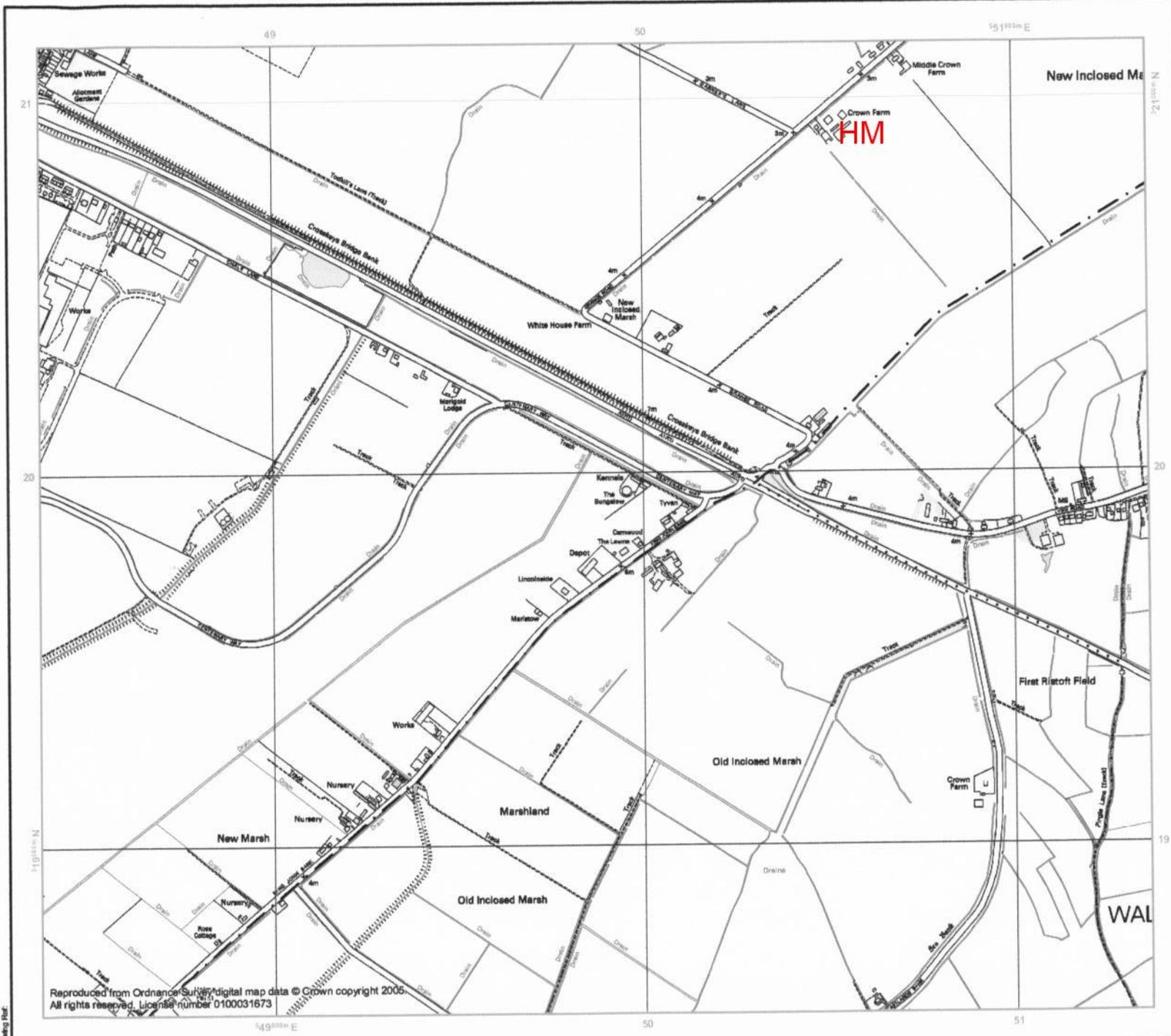
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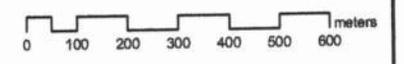
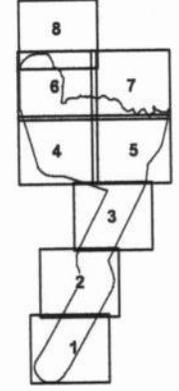
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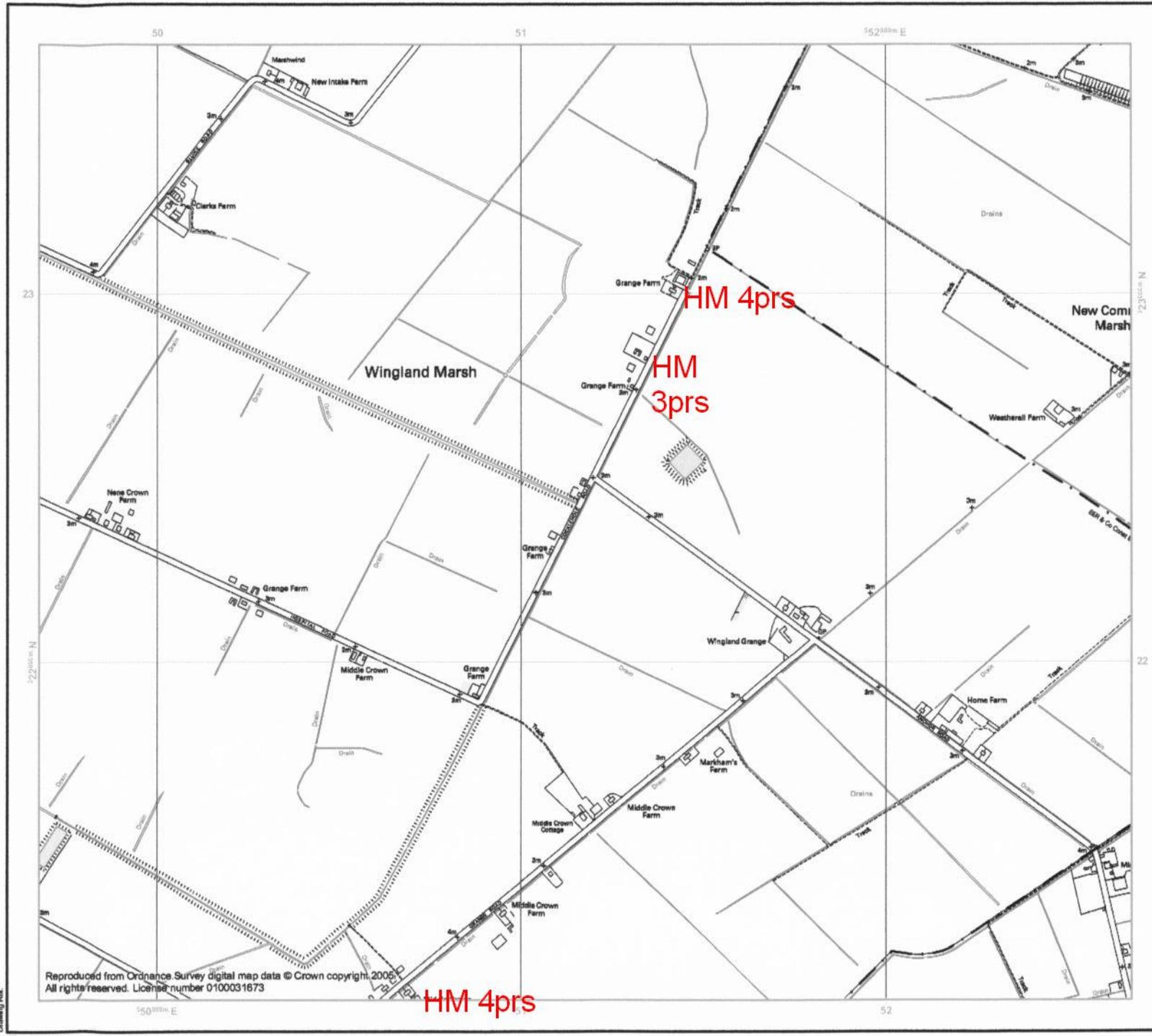
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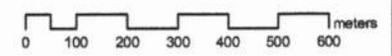
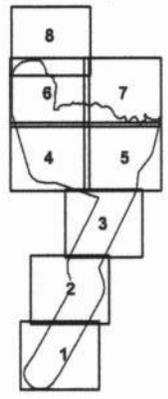
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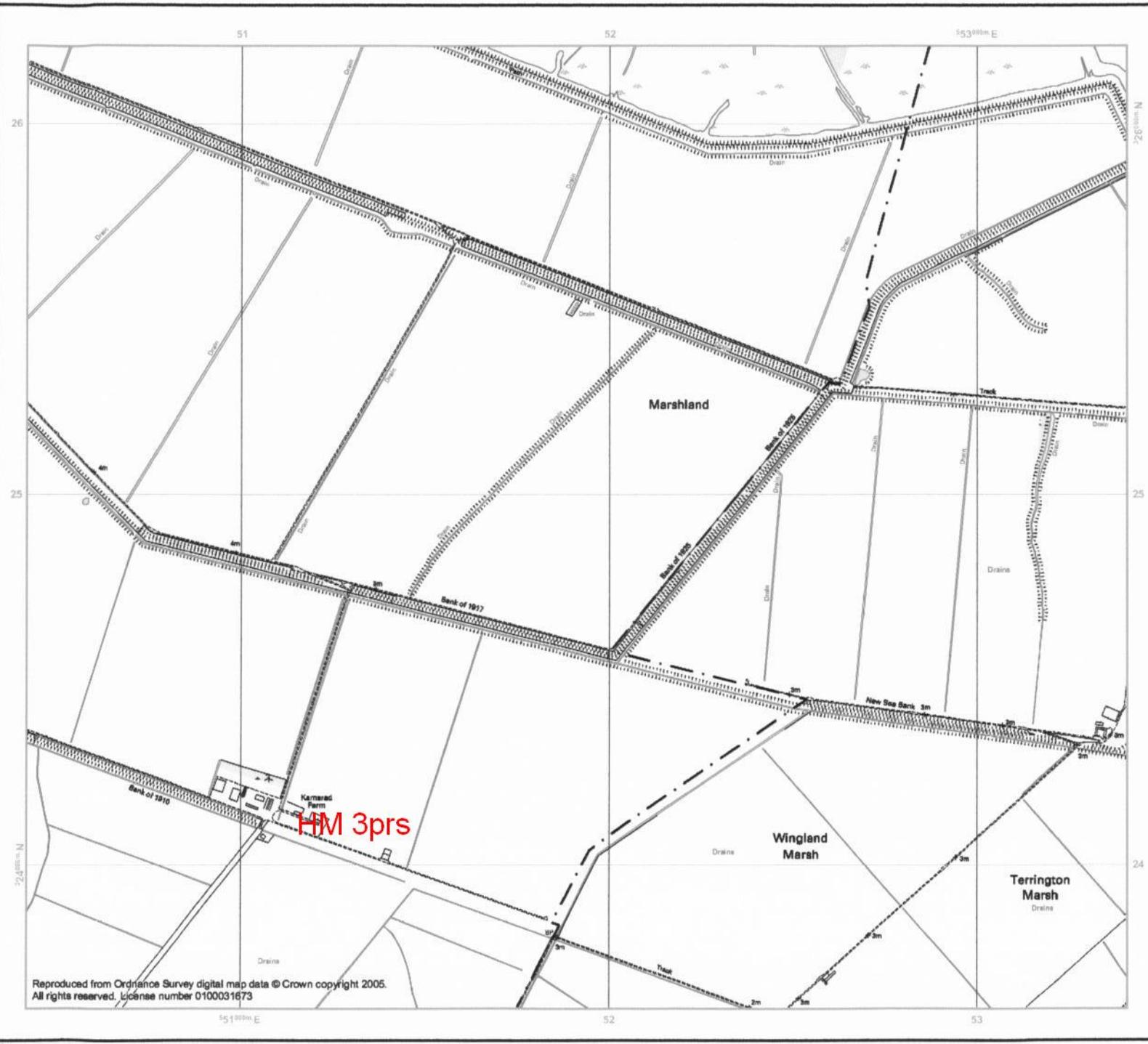
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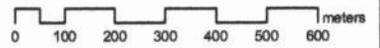
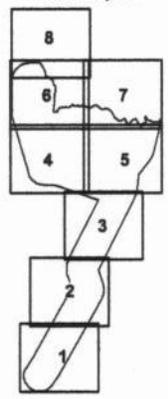
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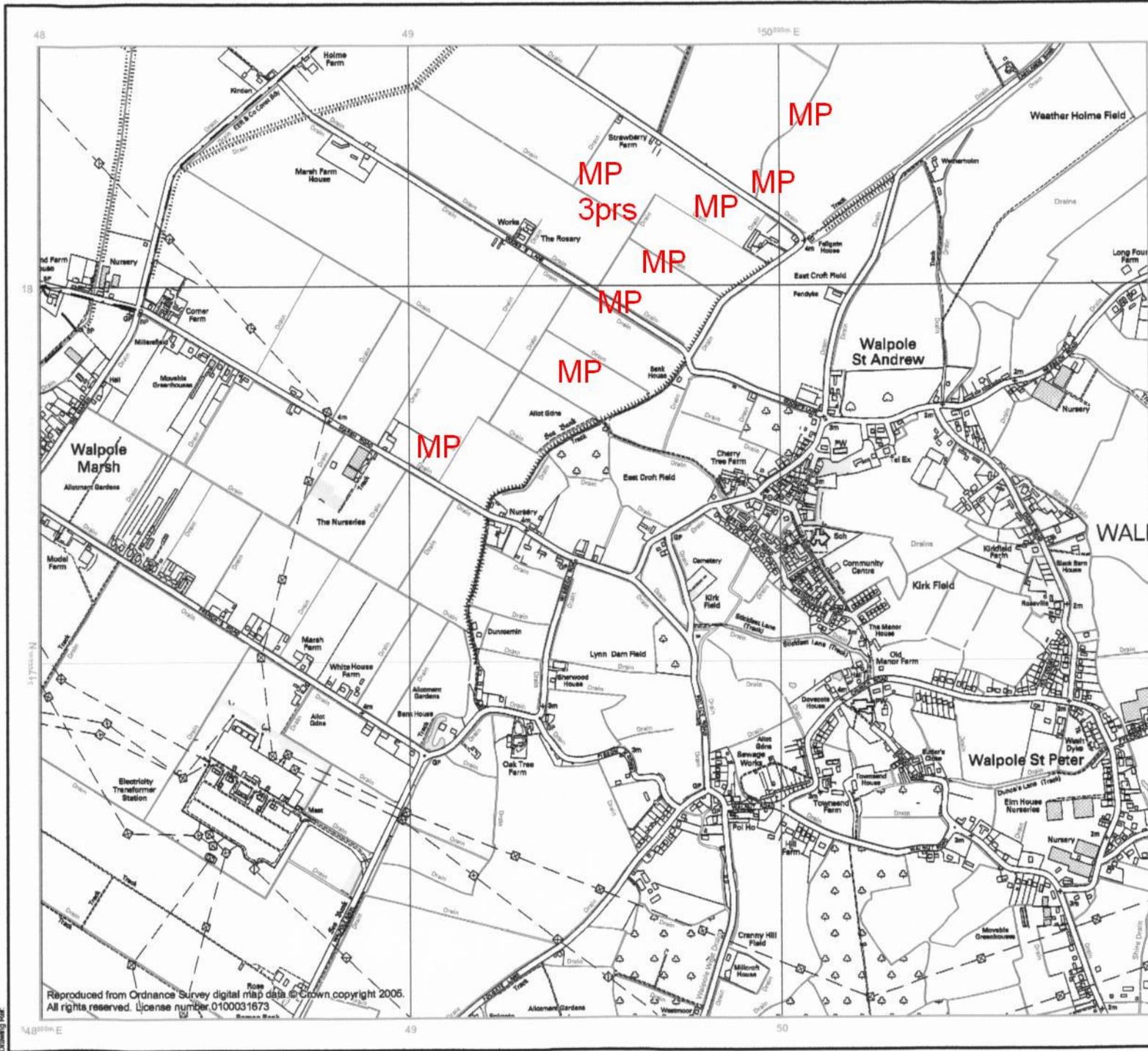
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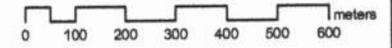
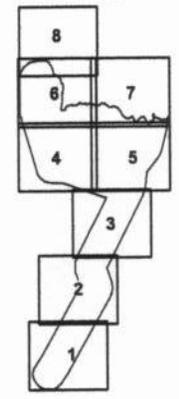
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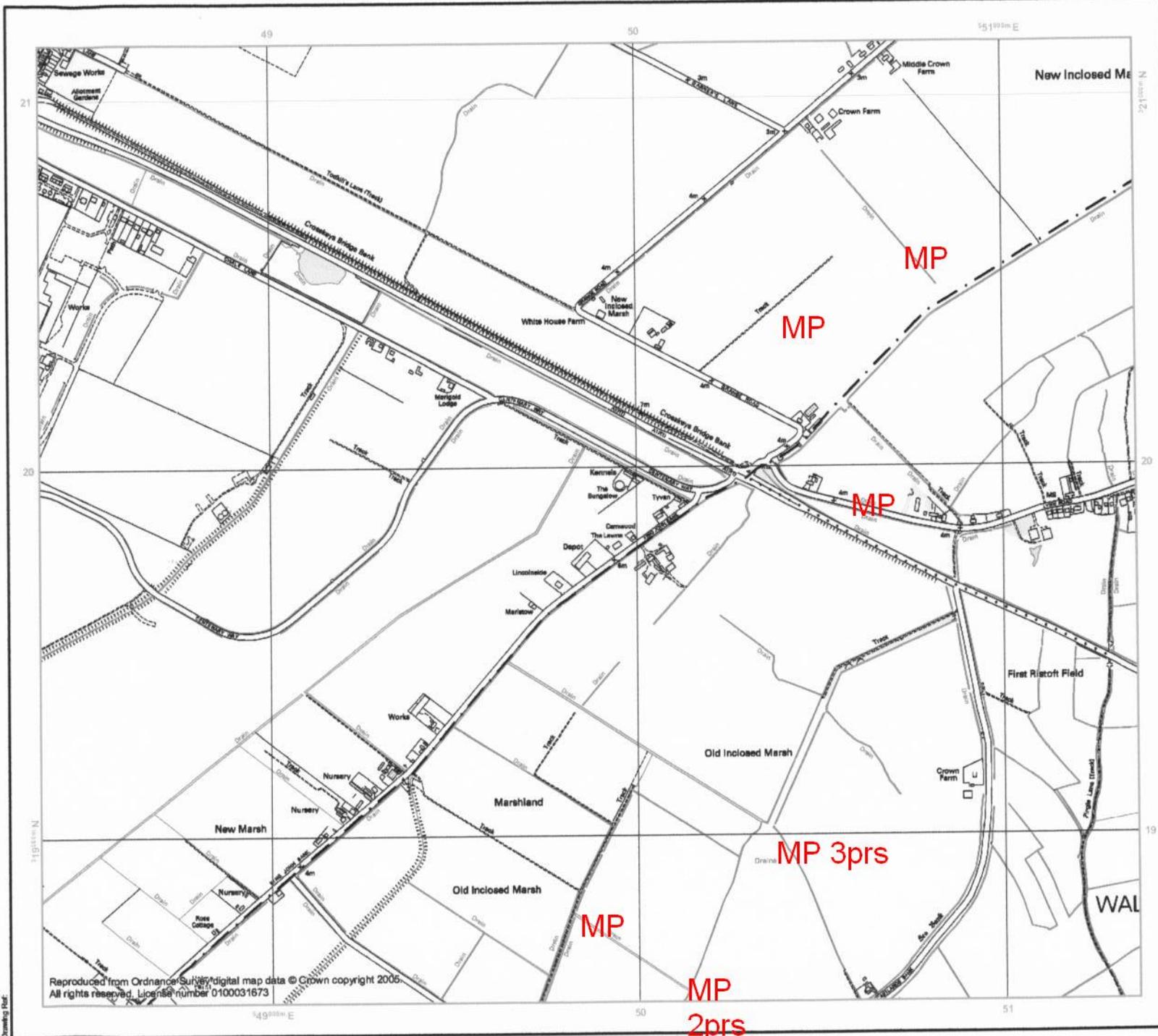
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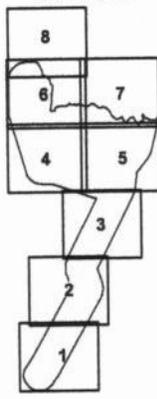
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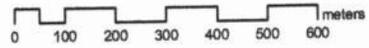


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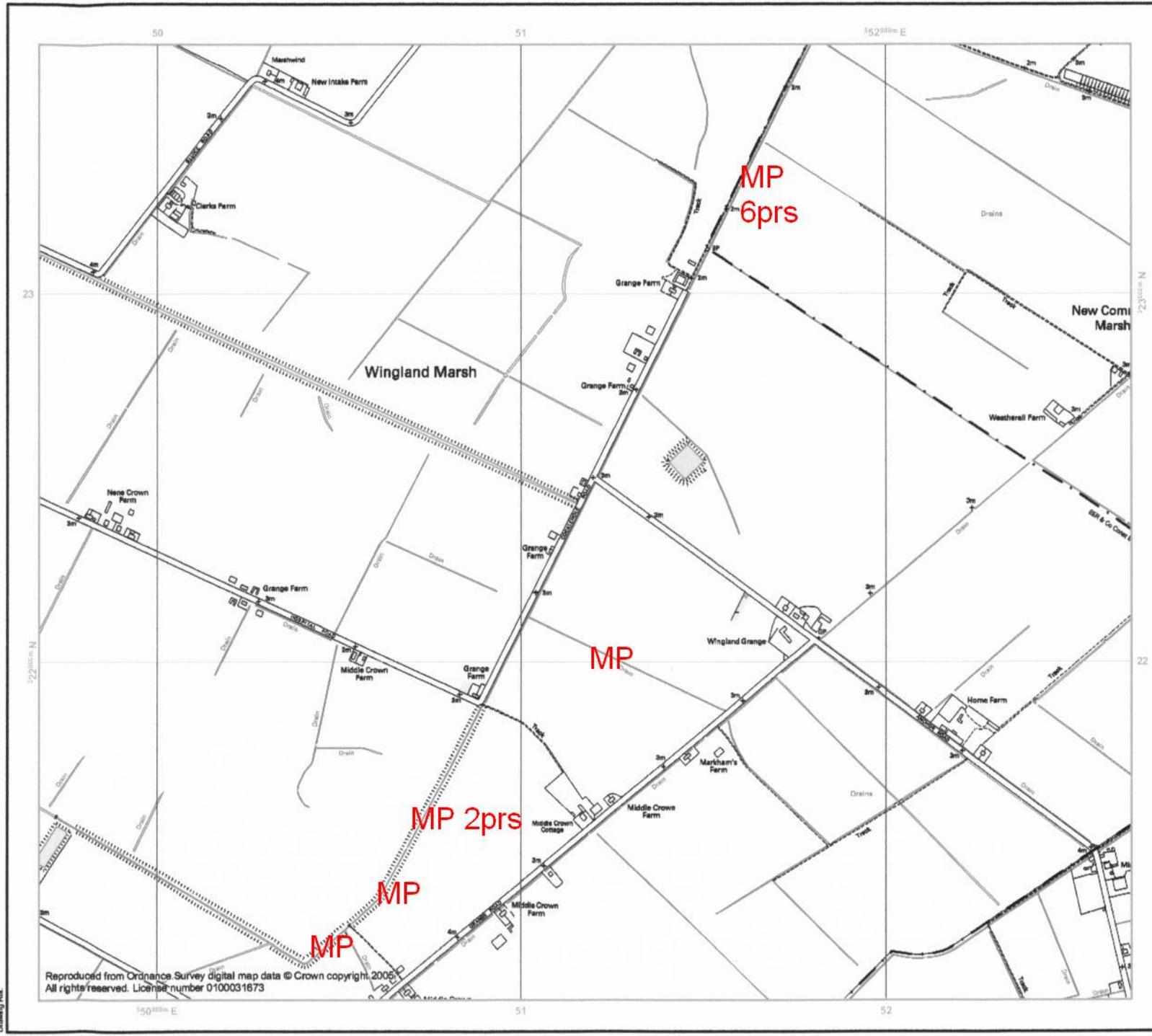


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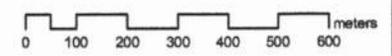
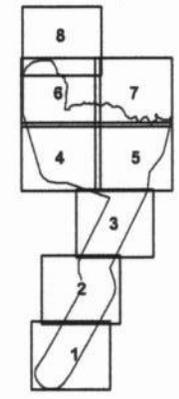
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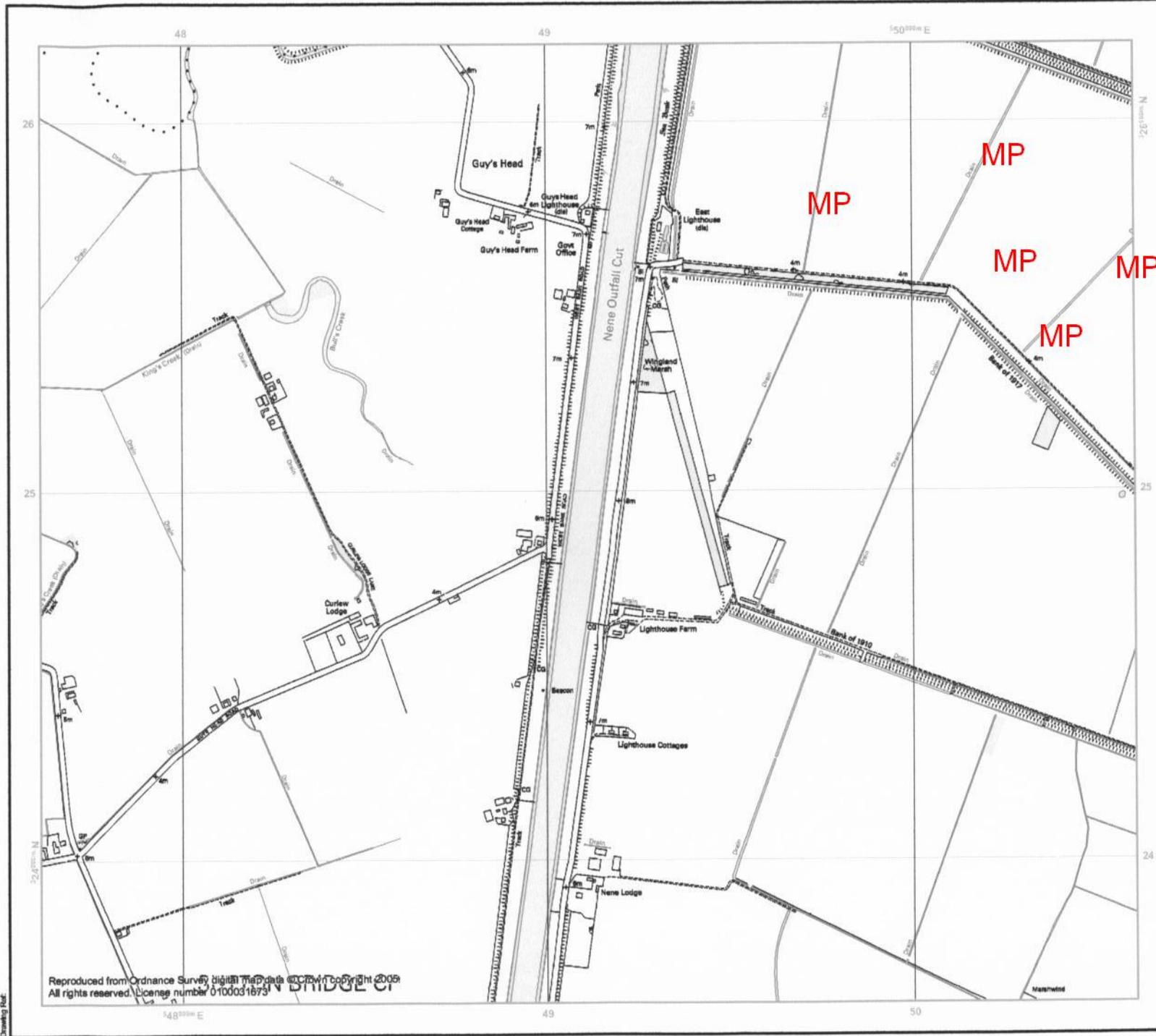


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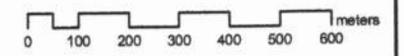
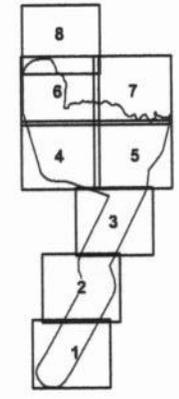


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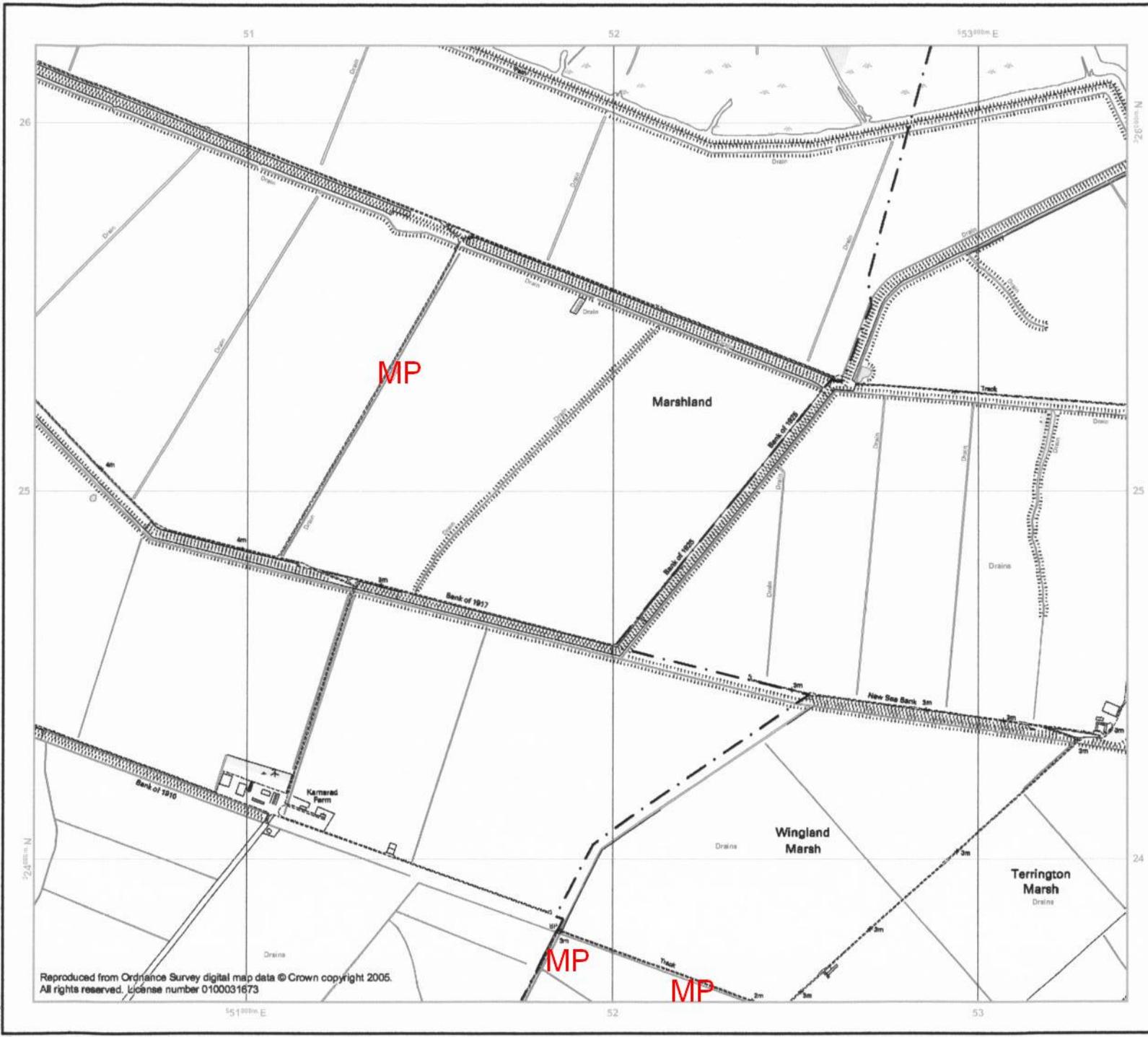
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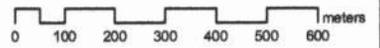
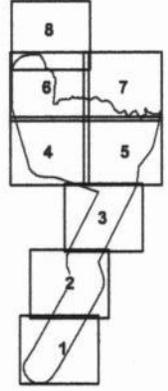
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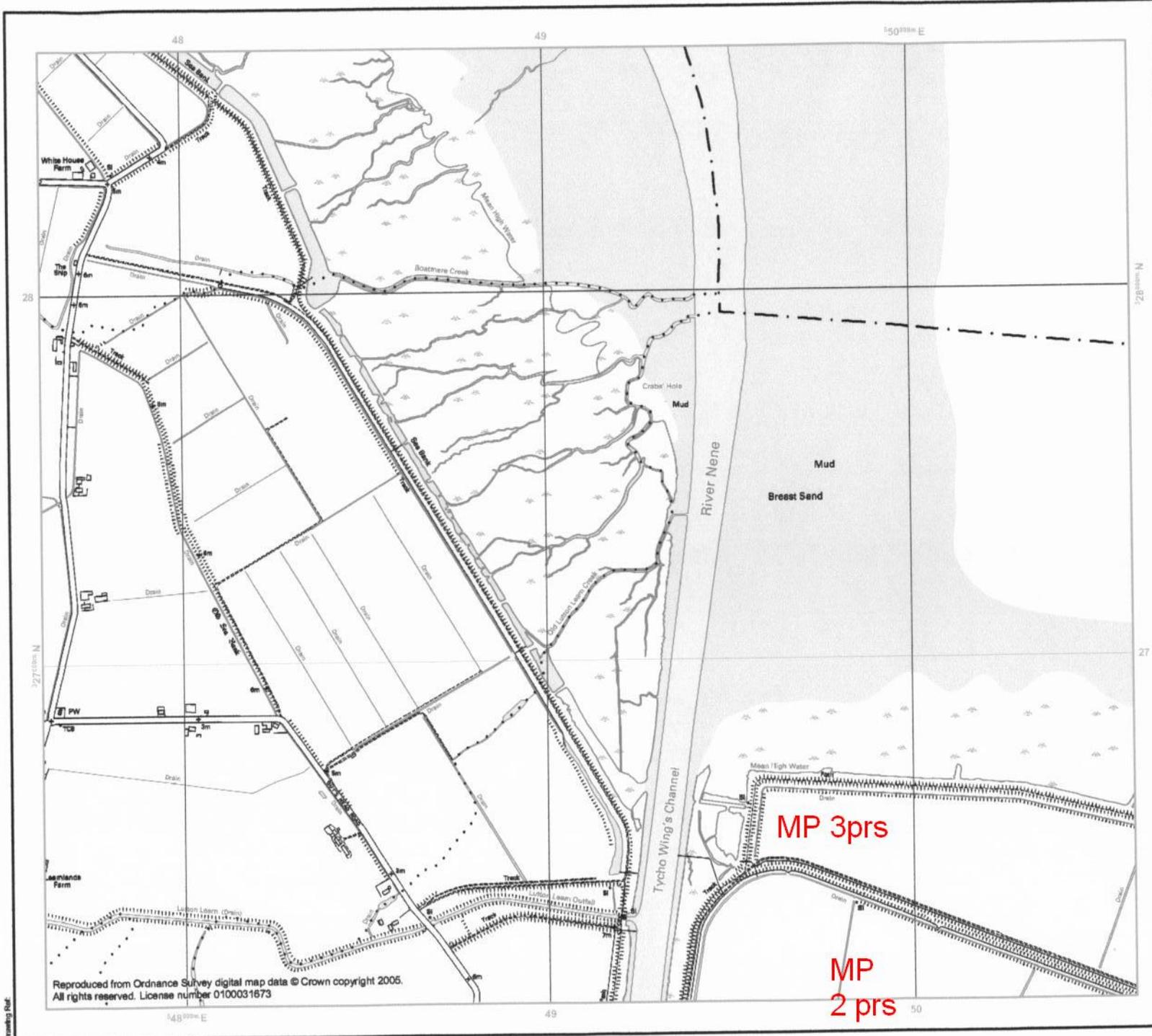
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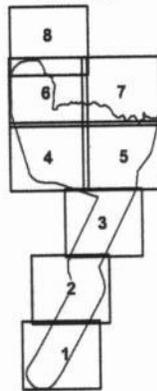
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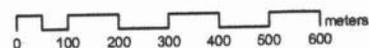
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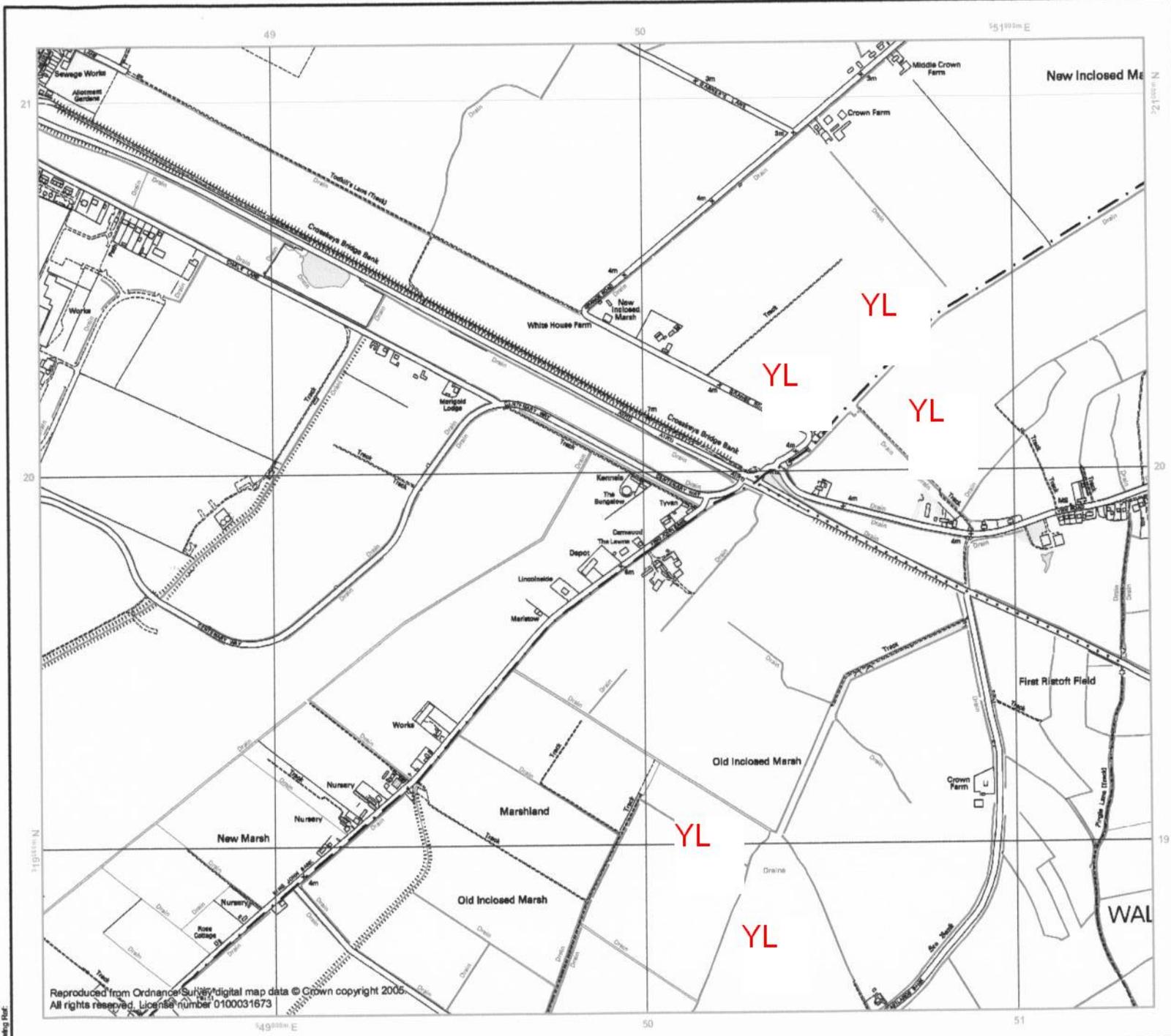
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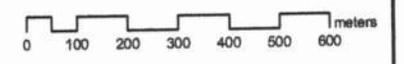
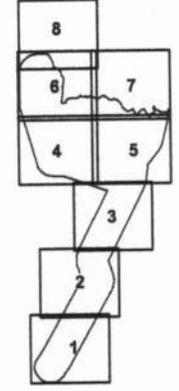
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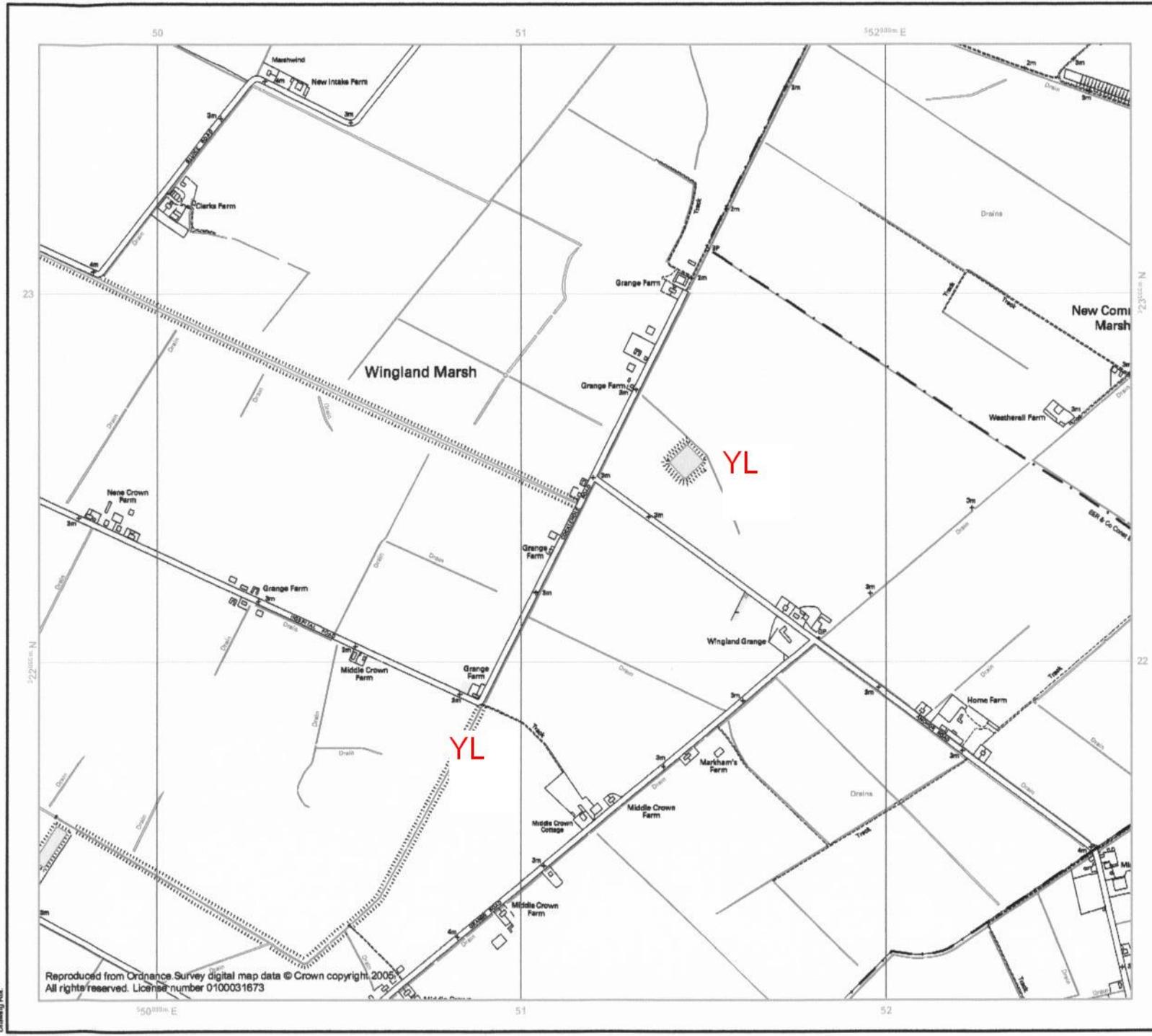


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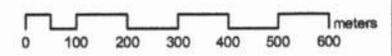
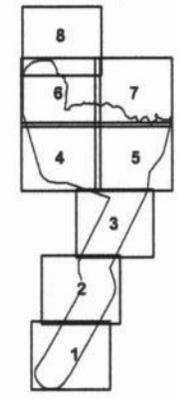
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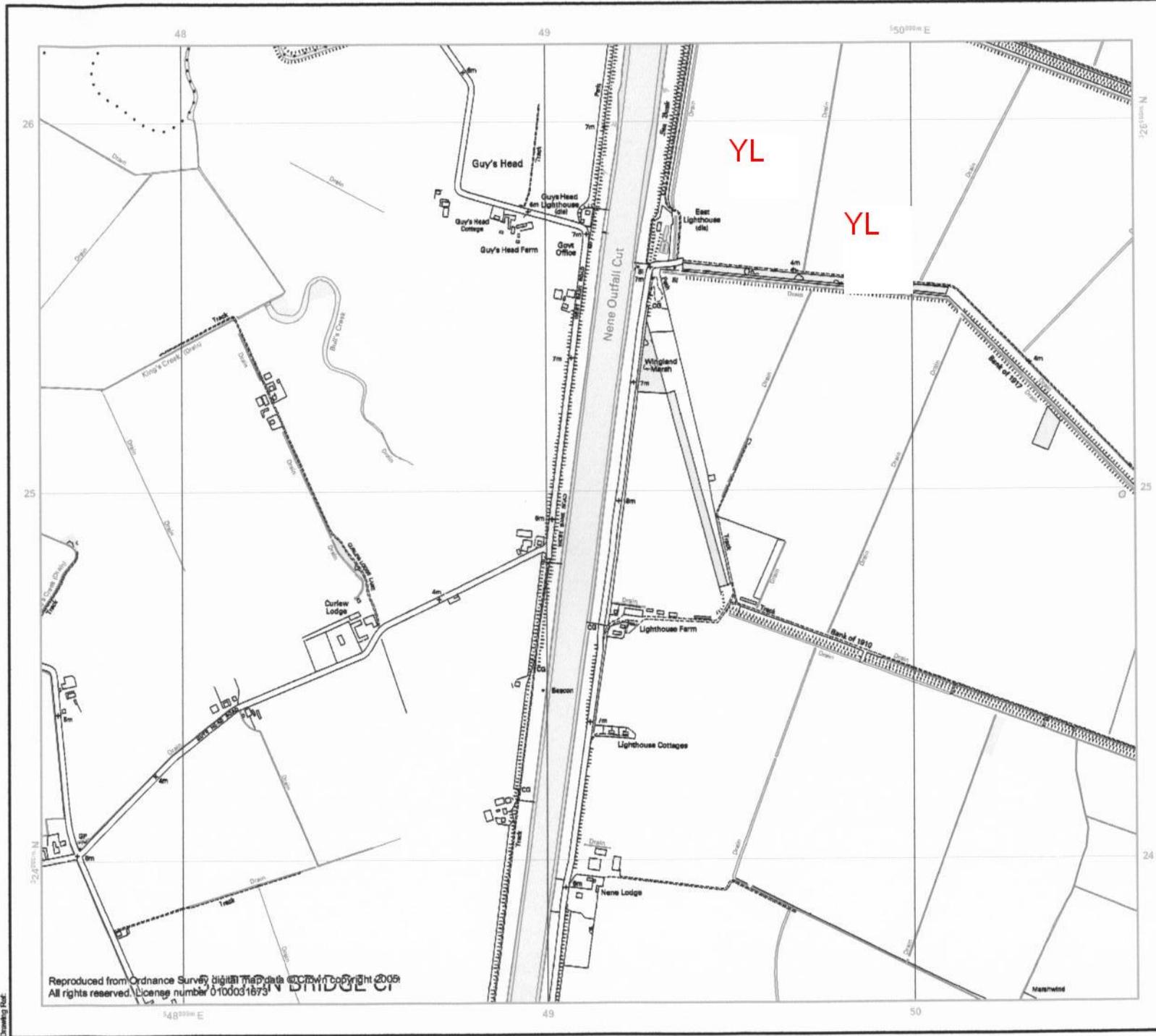


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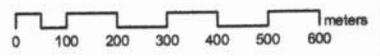
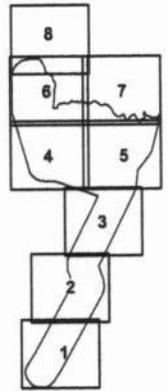


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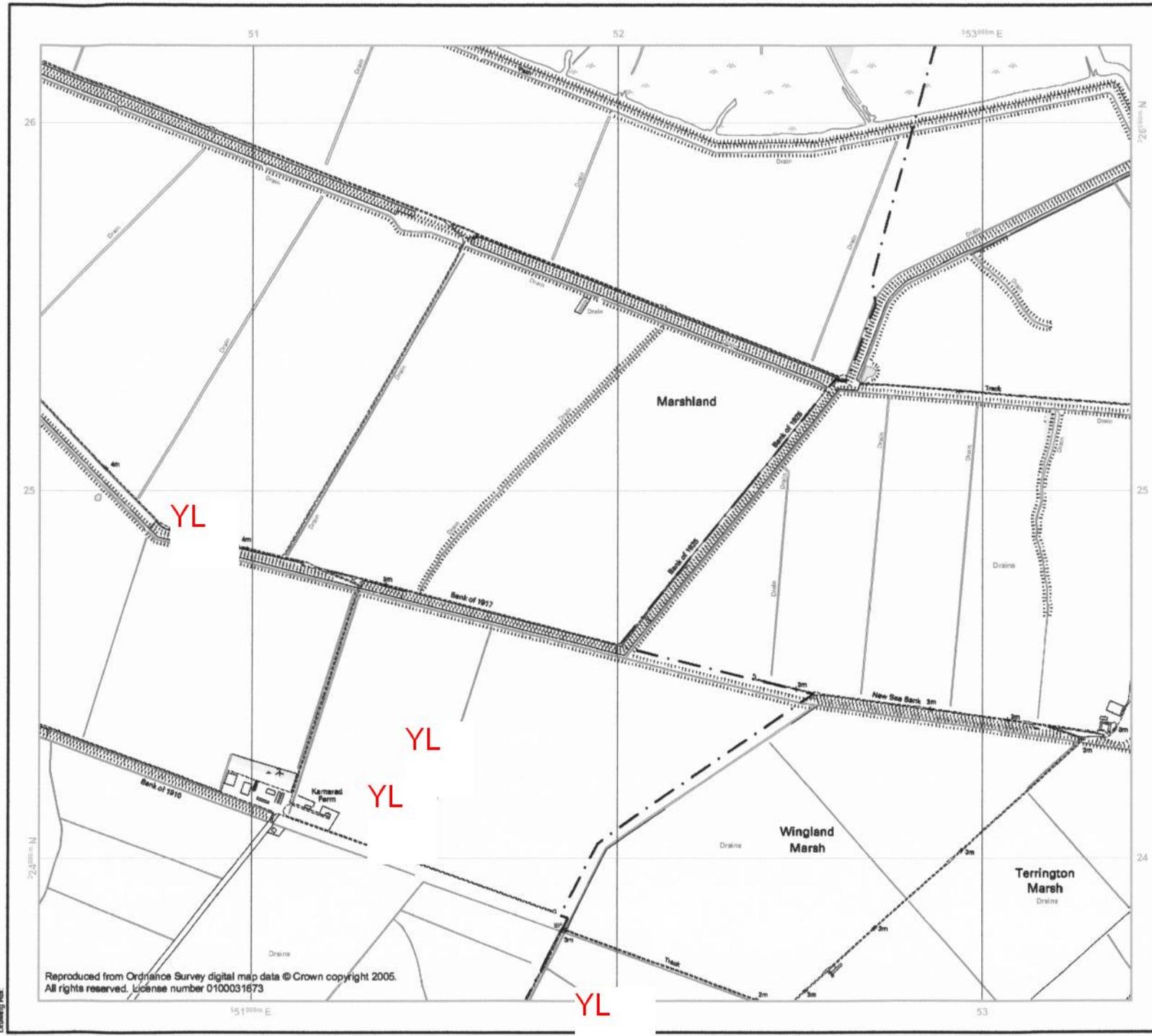
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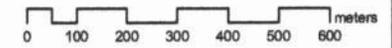
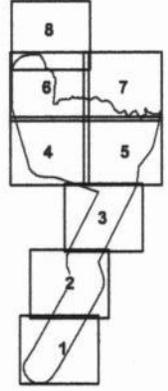
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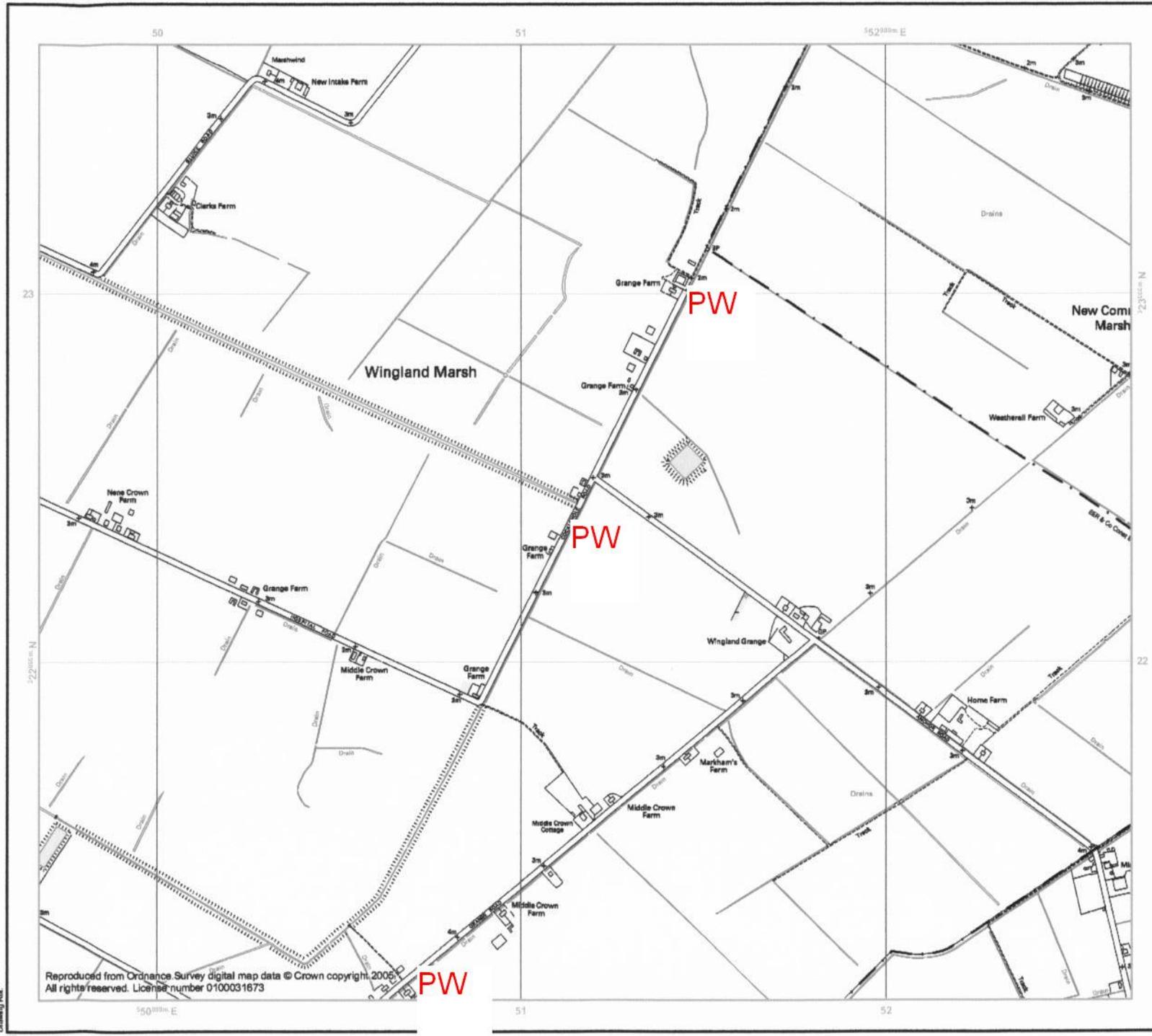


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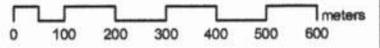
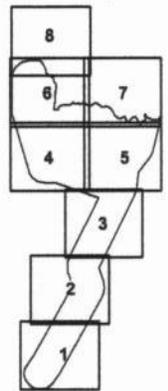
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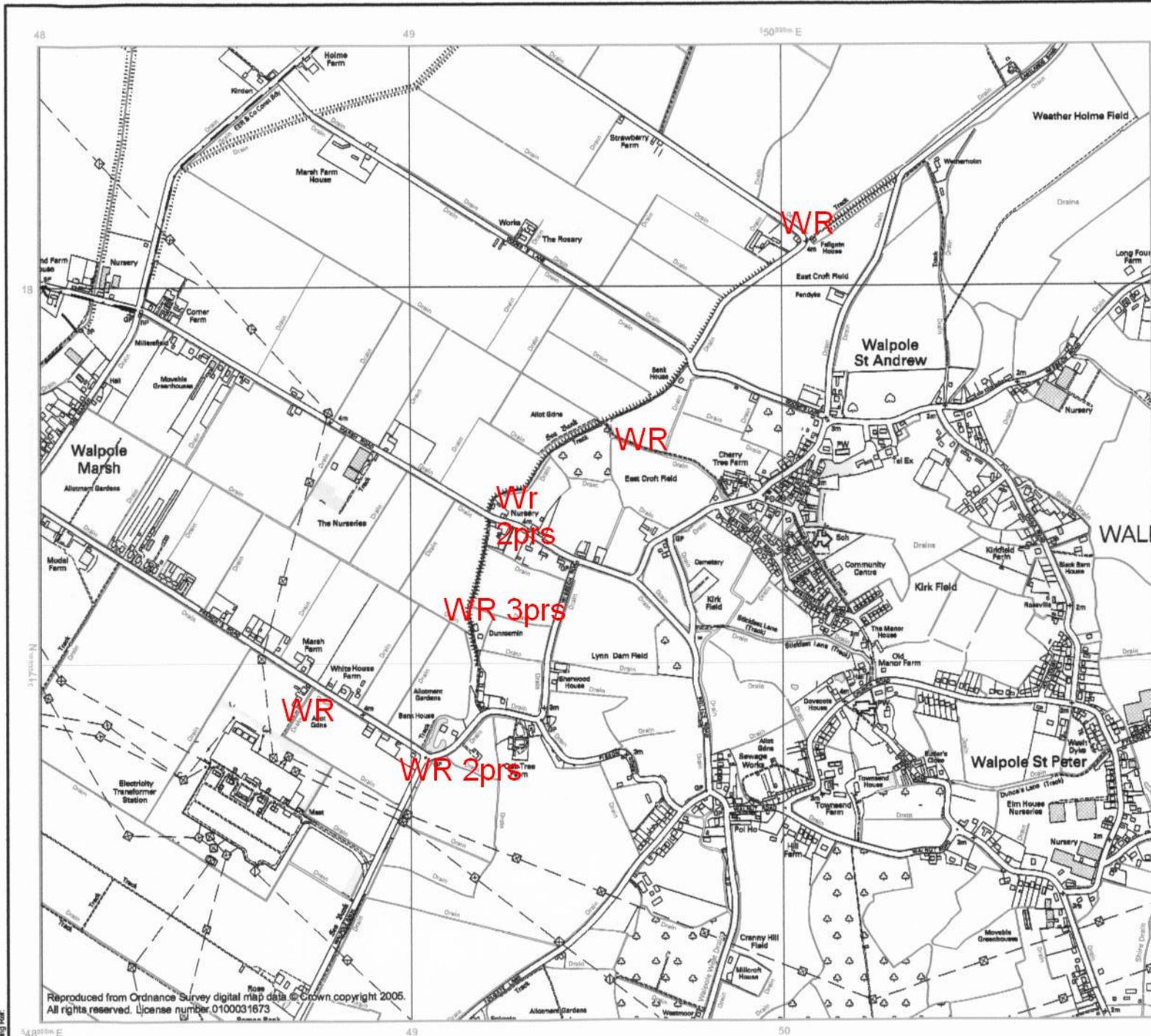


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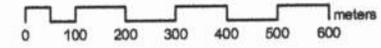
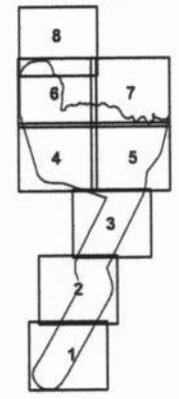
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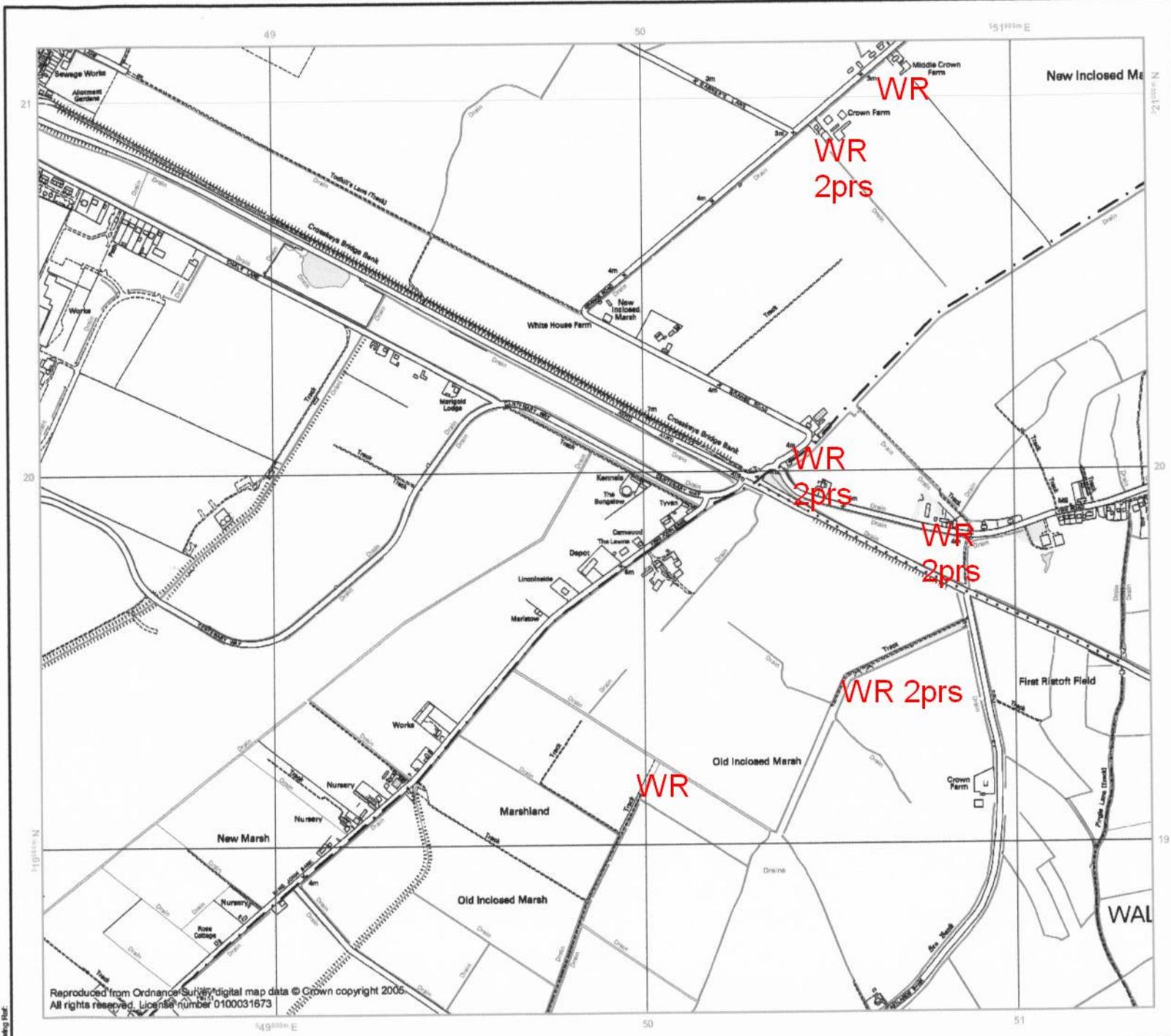
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 T 01480 496335 F 01480 496911 E rps@rpsgroup.com

Client:	Centrica Renewable Energy Limited
Project:	Onshore Cable Routes Skegness and Walpole
Title:	Survey field sheets
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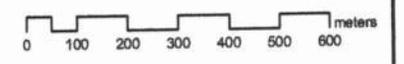
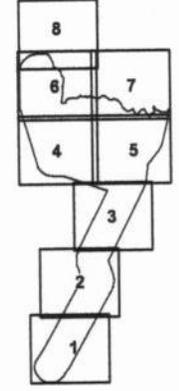
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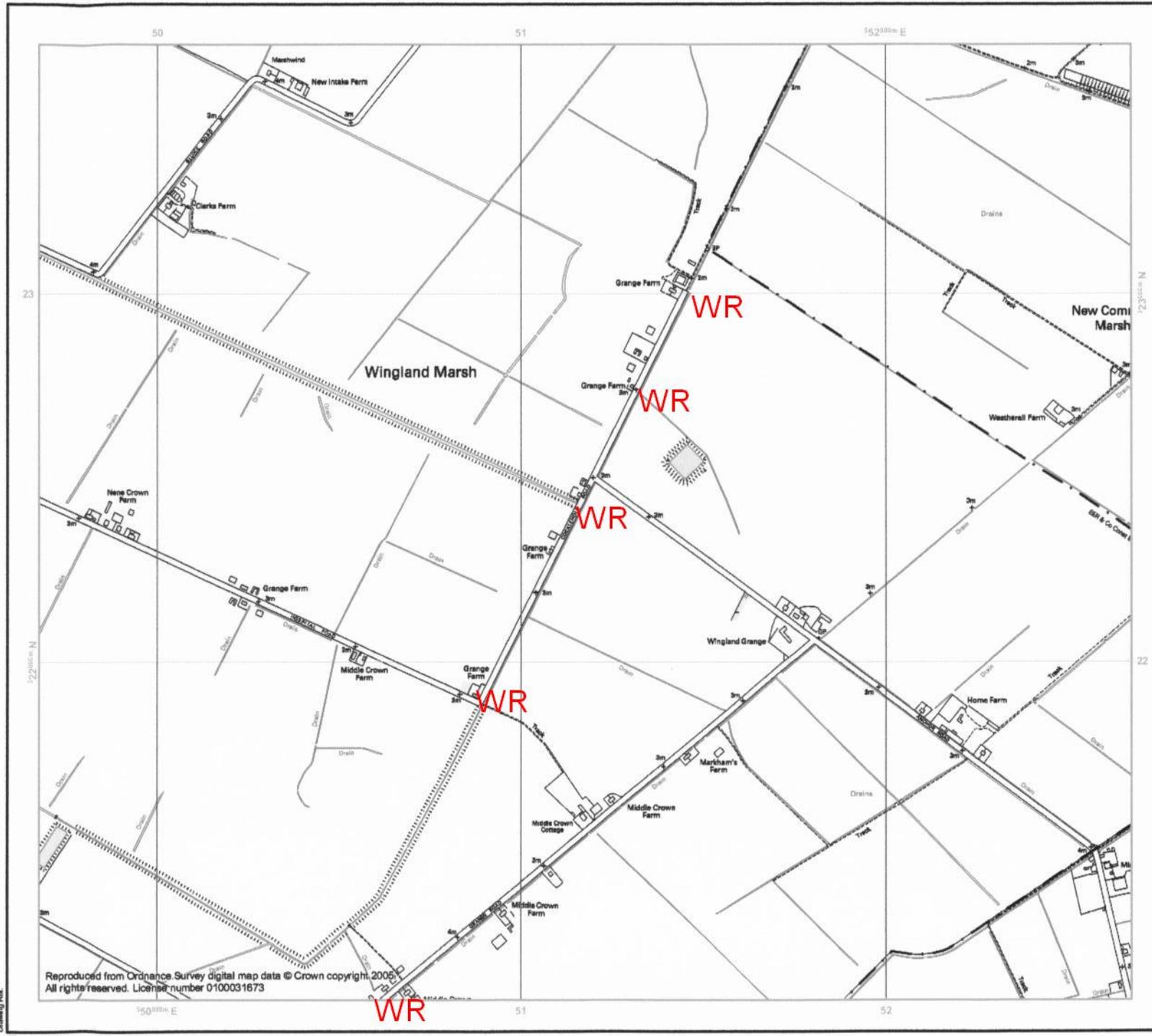
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 T 01480 486335 F 01480 489911 E rpscm@rpsgroup.com

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Project:	Onshore Cable Routes Skegness and Walpole
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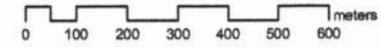
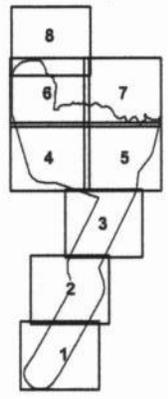
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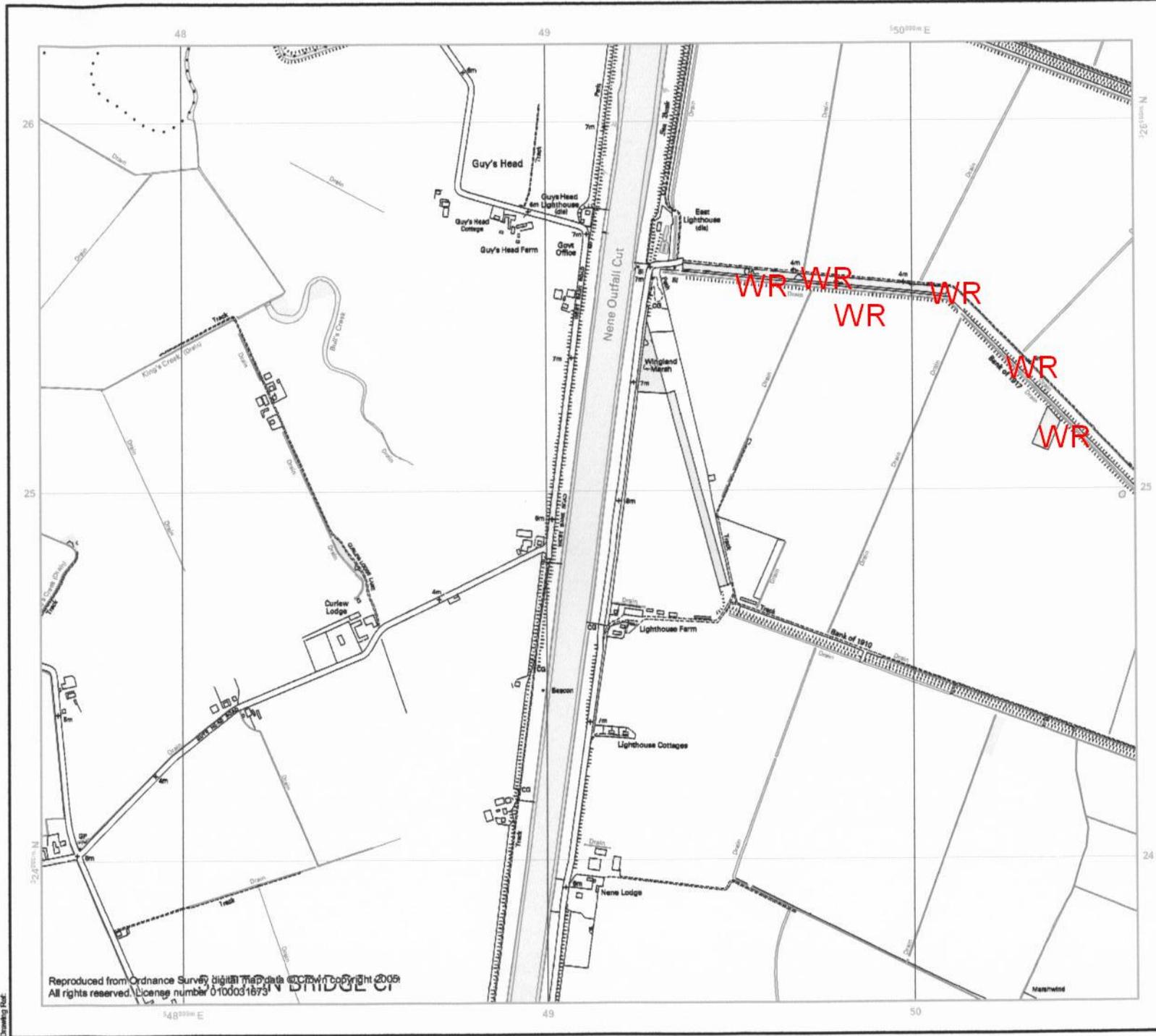
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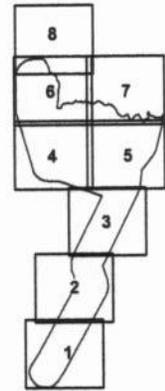
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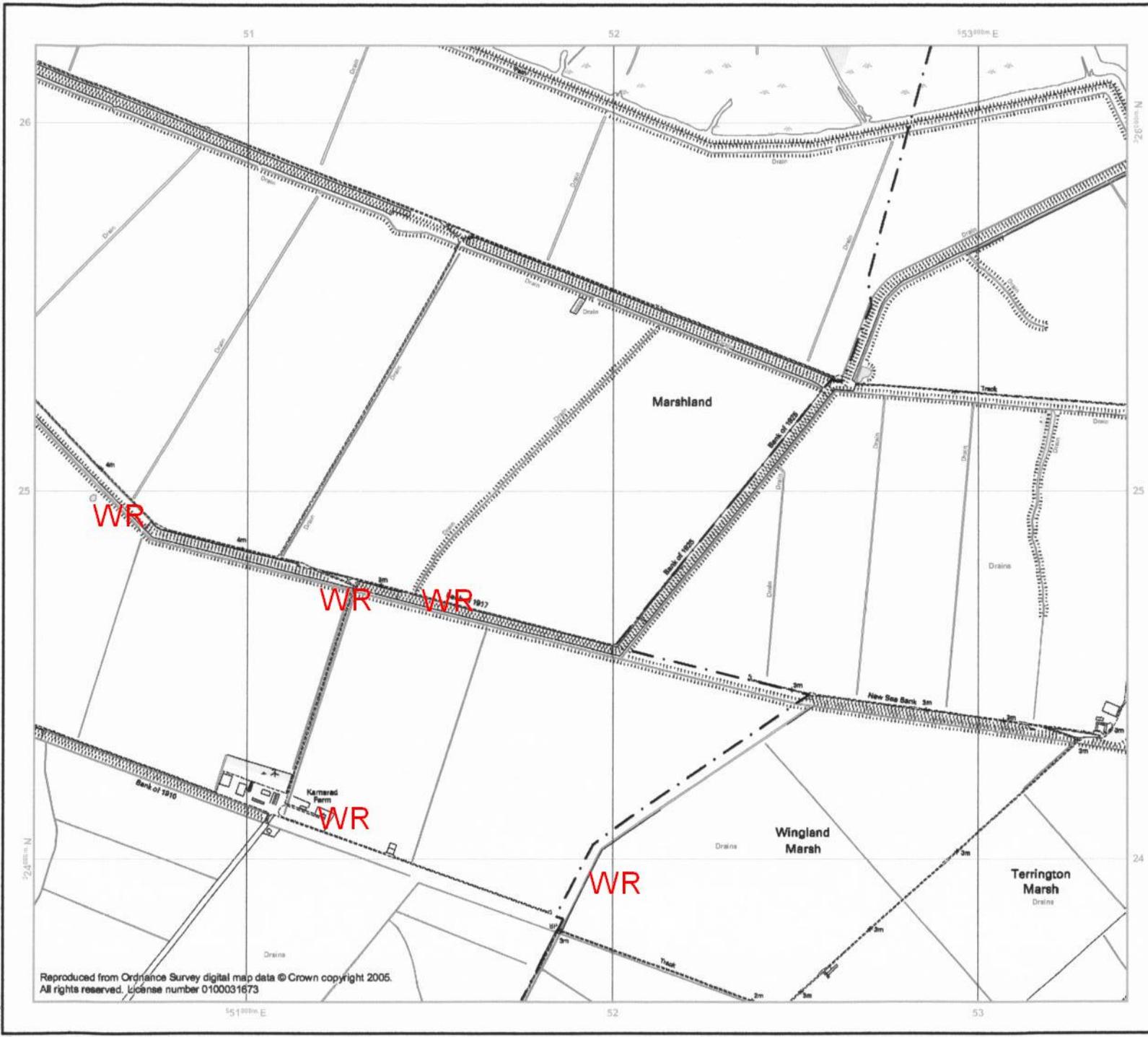
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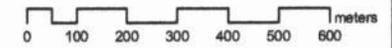
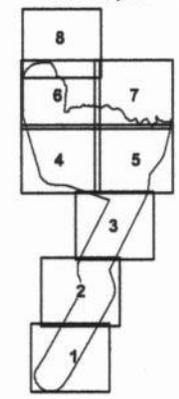
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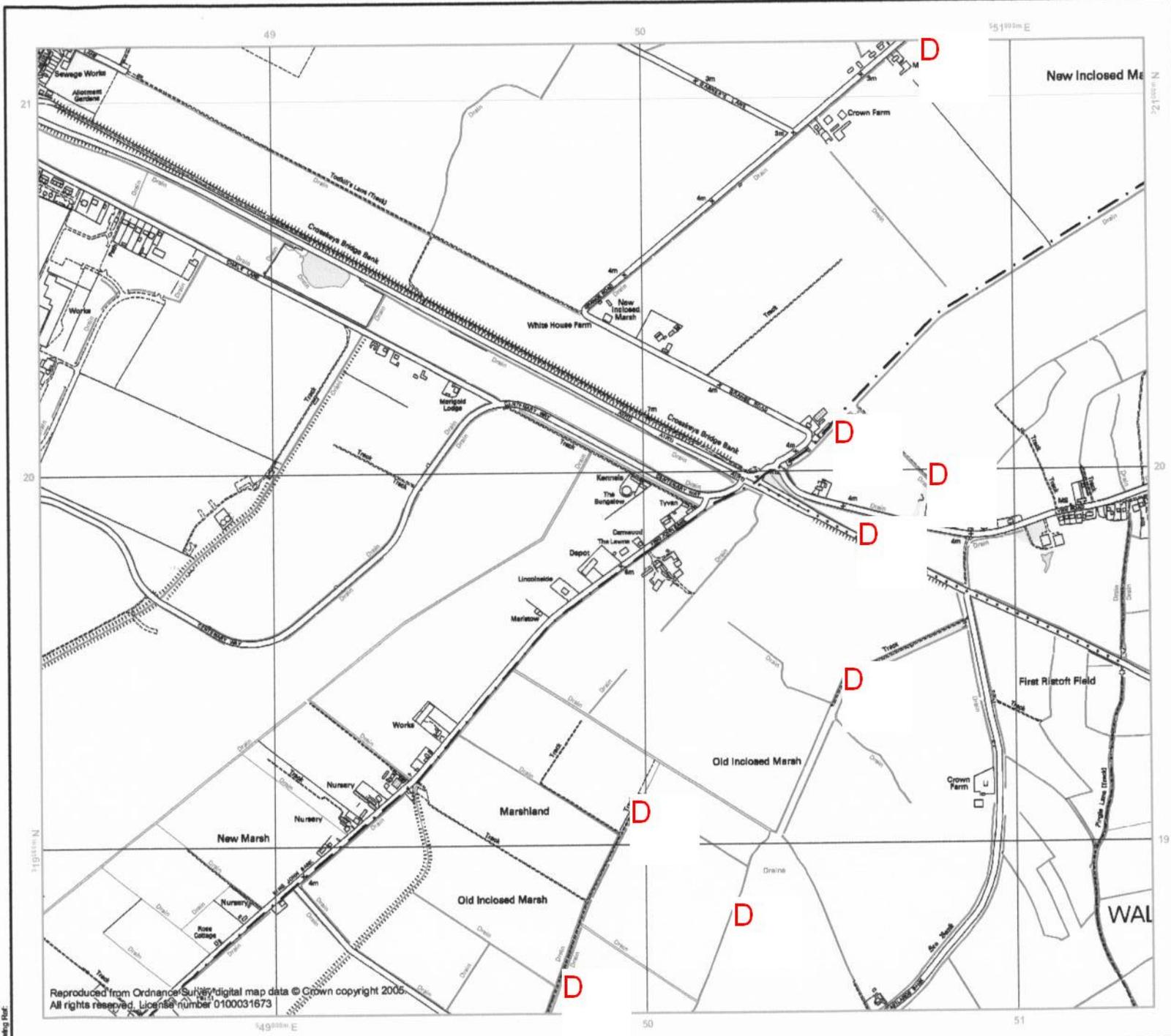
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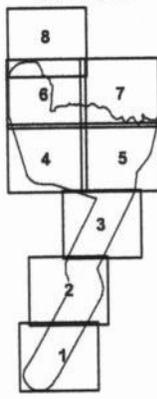
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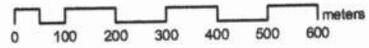


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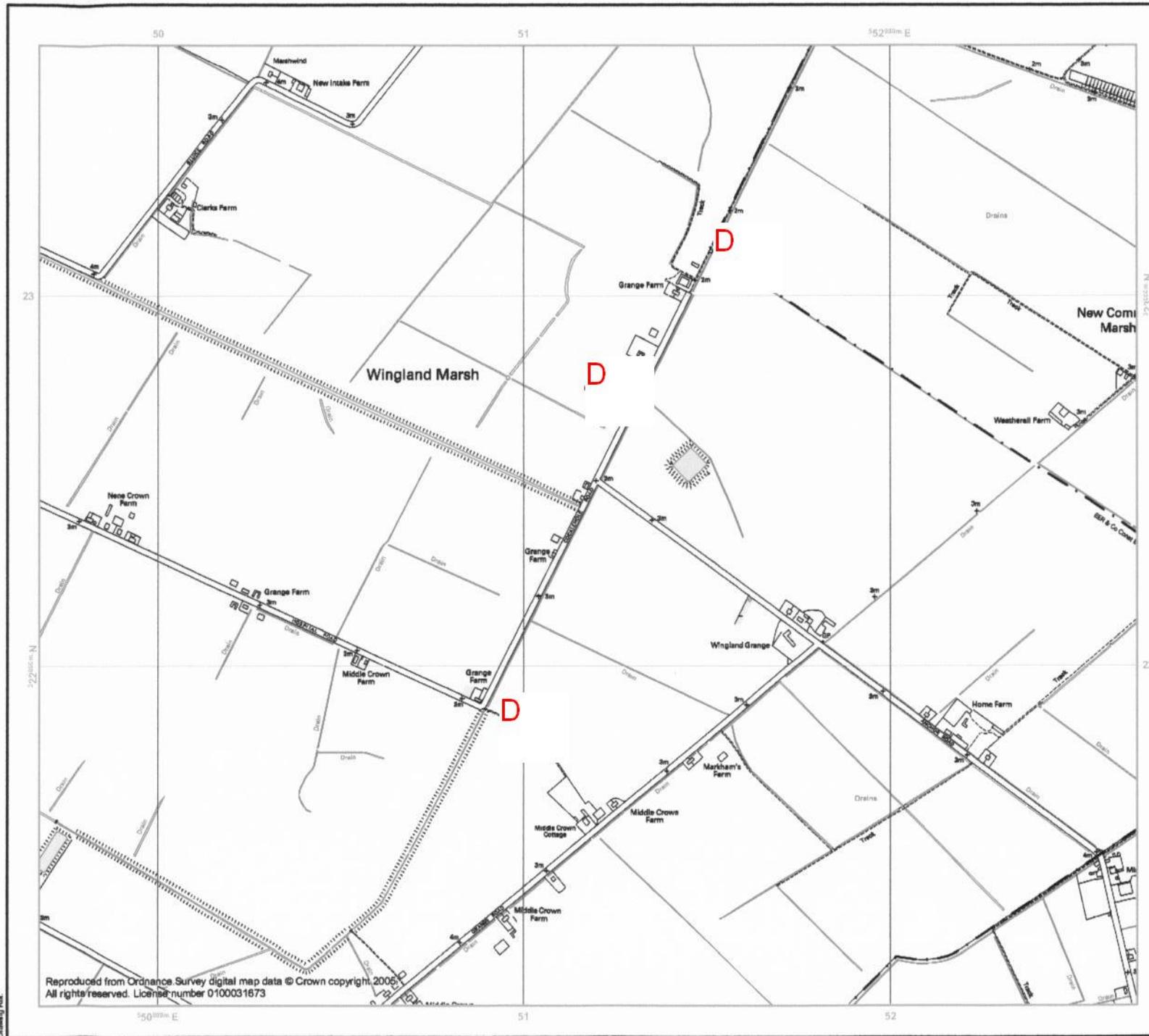


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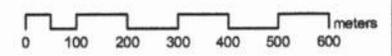
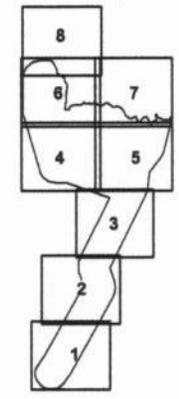
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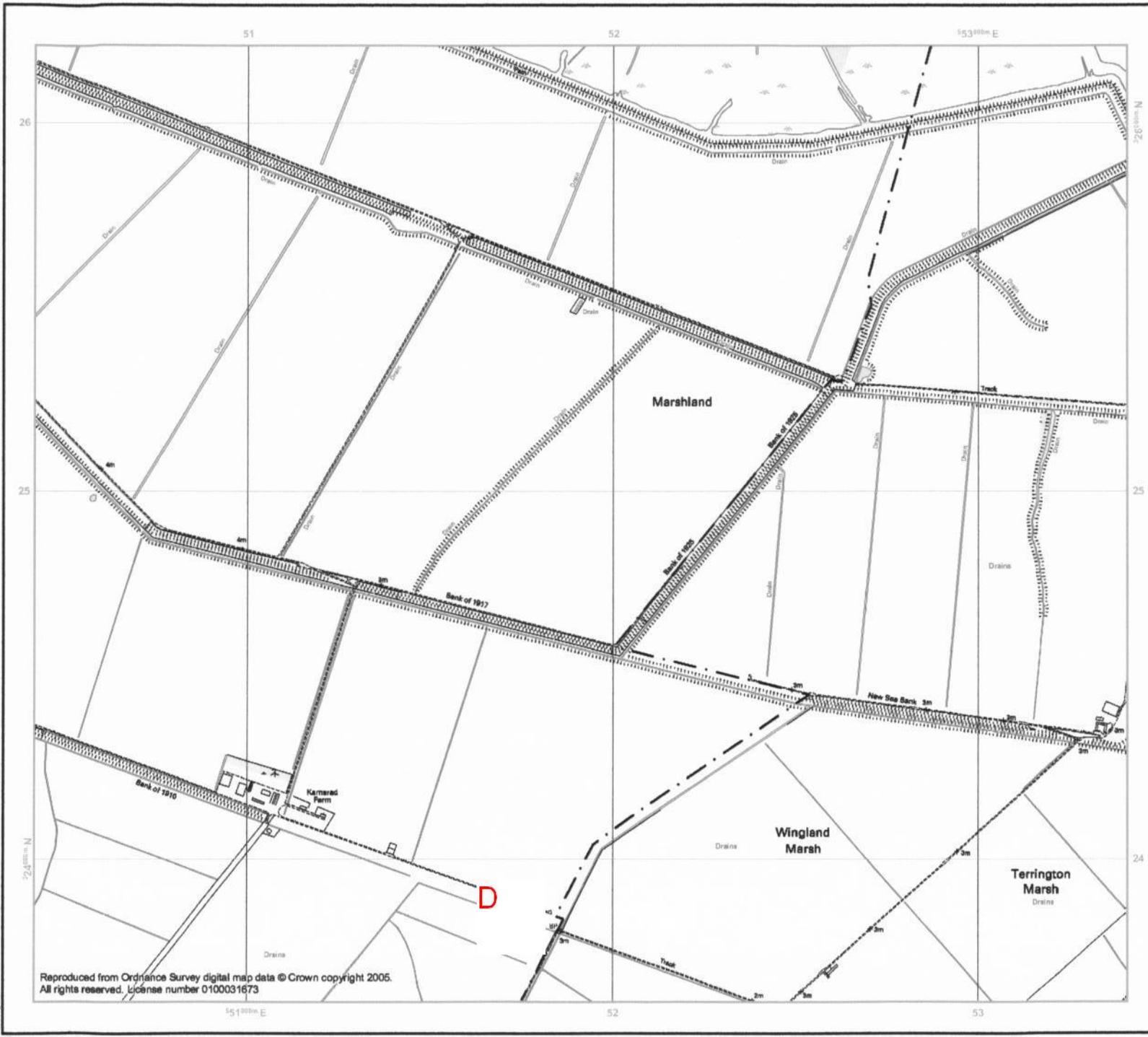


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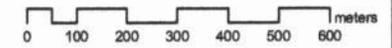
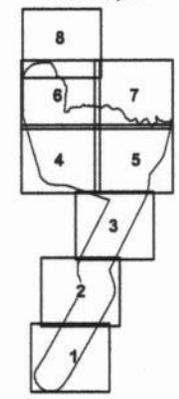


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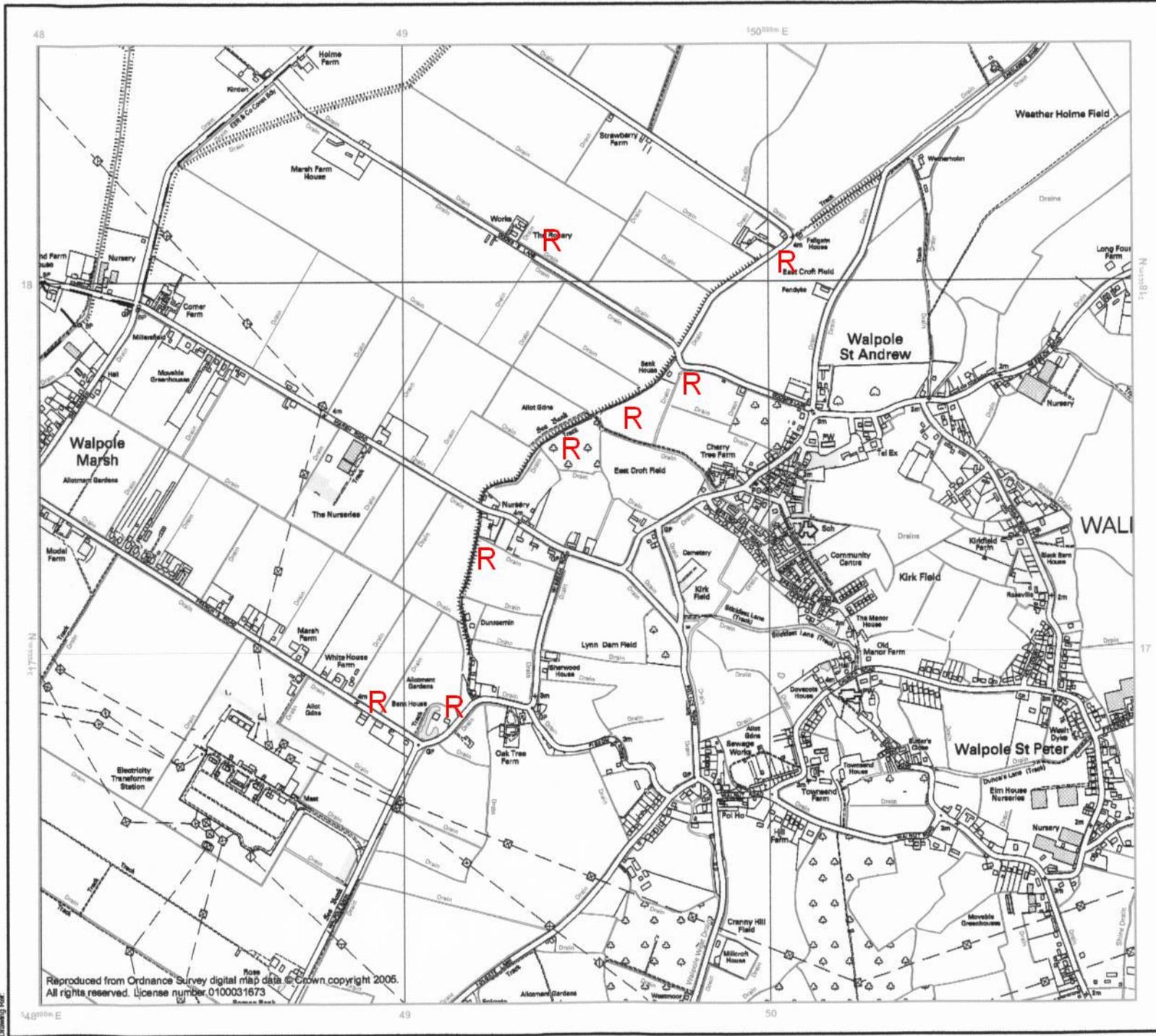
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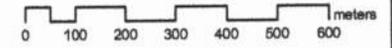
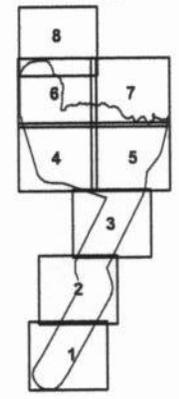
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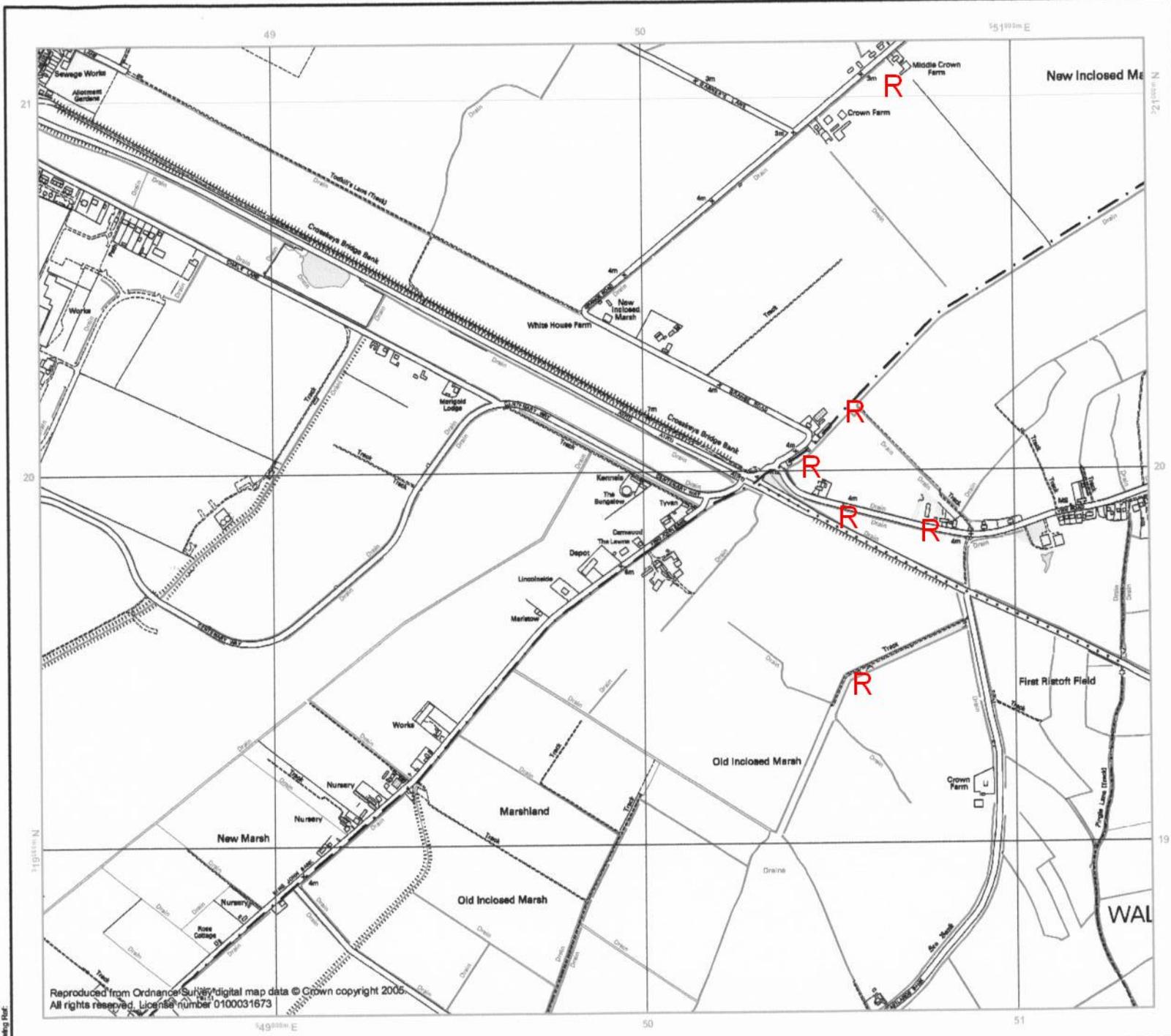
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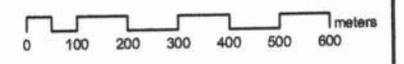
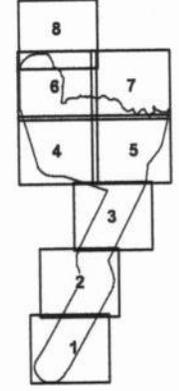
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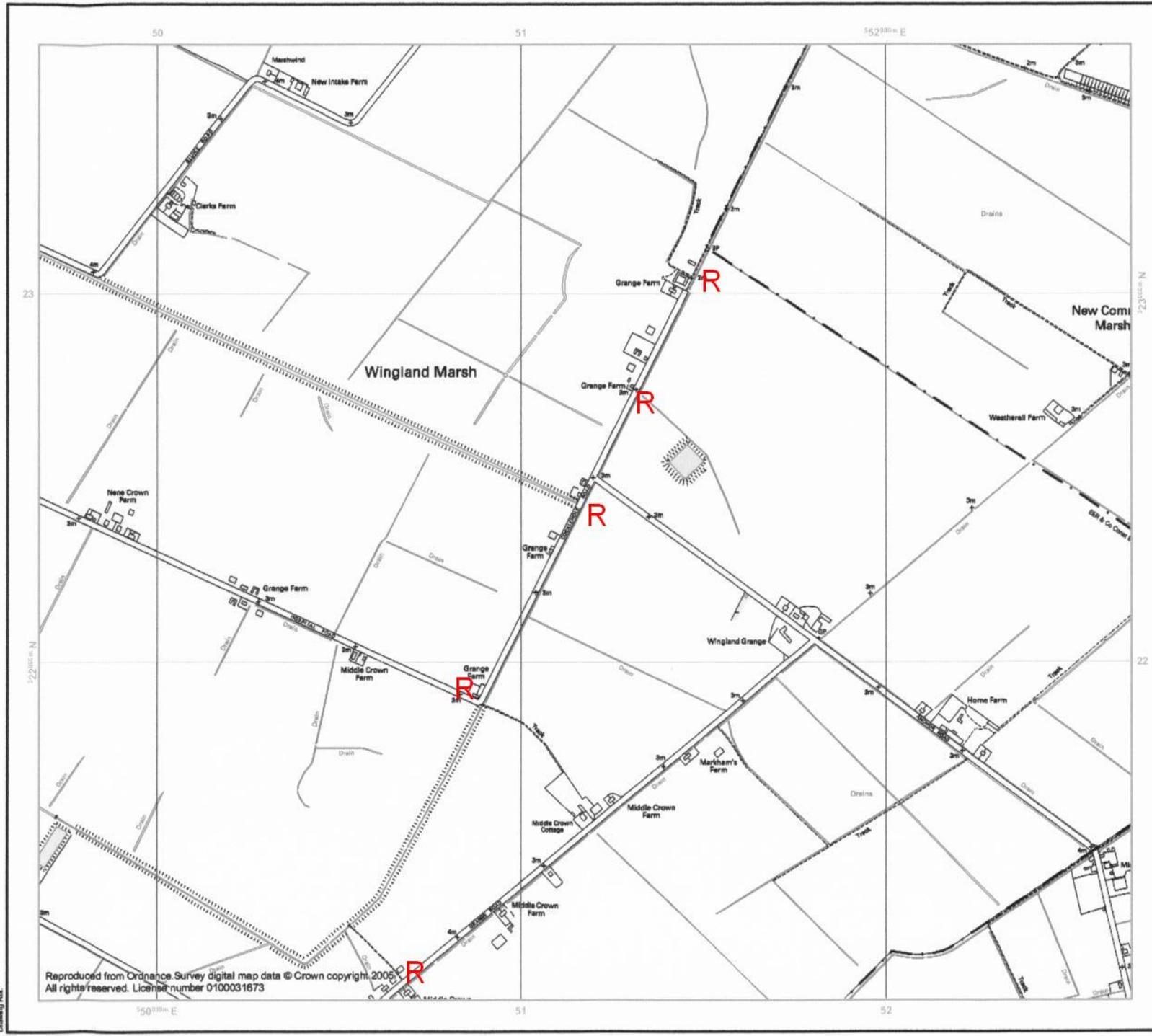
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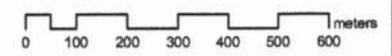
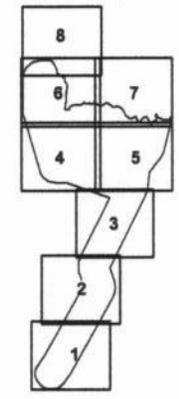
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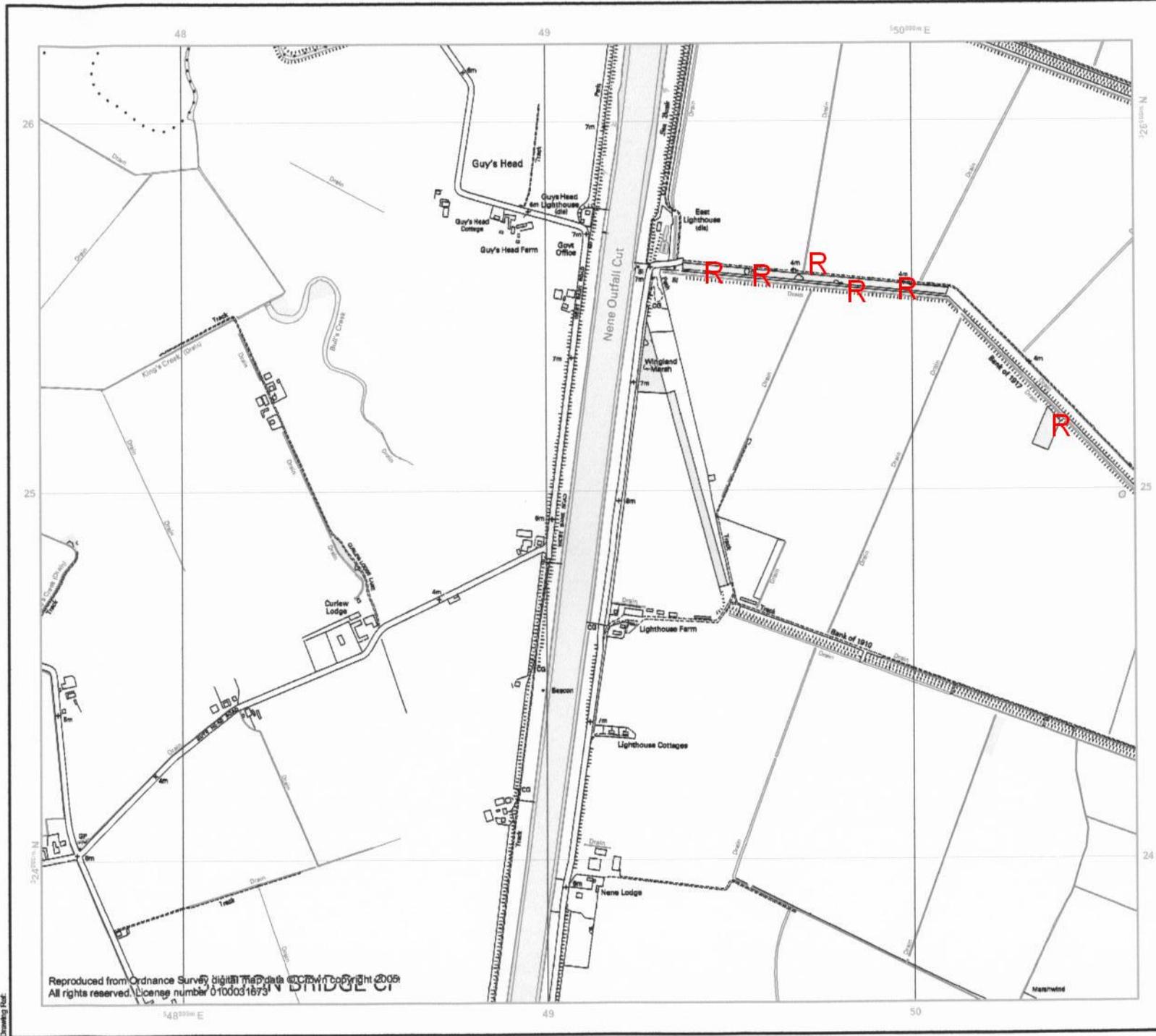


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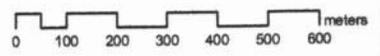
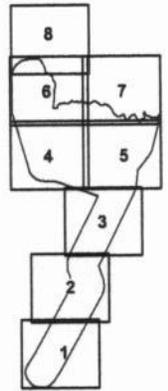


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Project:	Onshore Cable Routes Skegness and Walpole		
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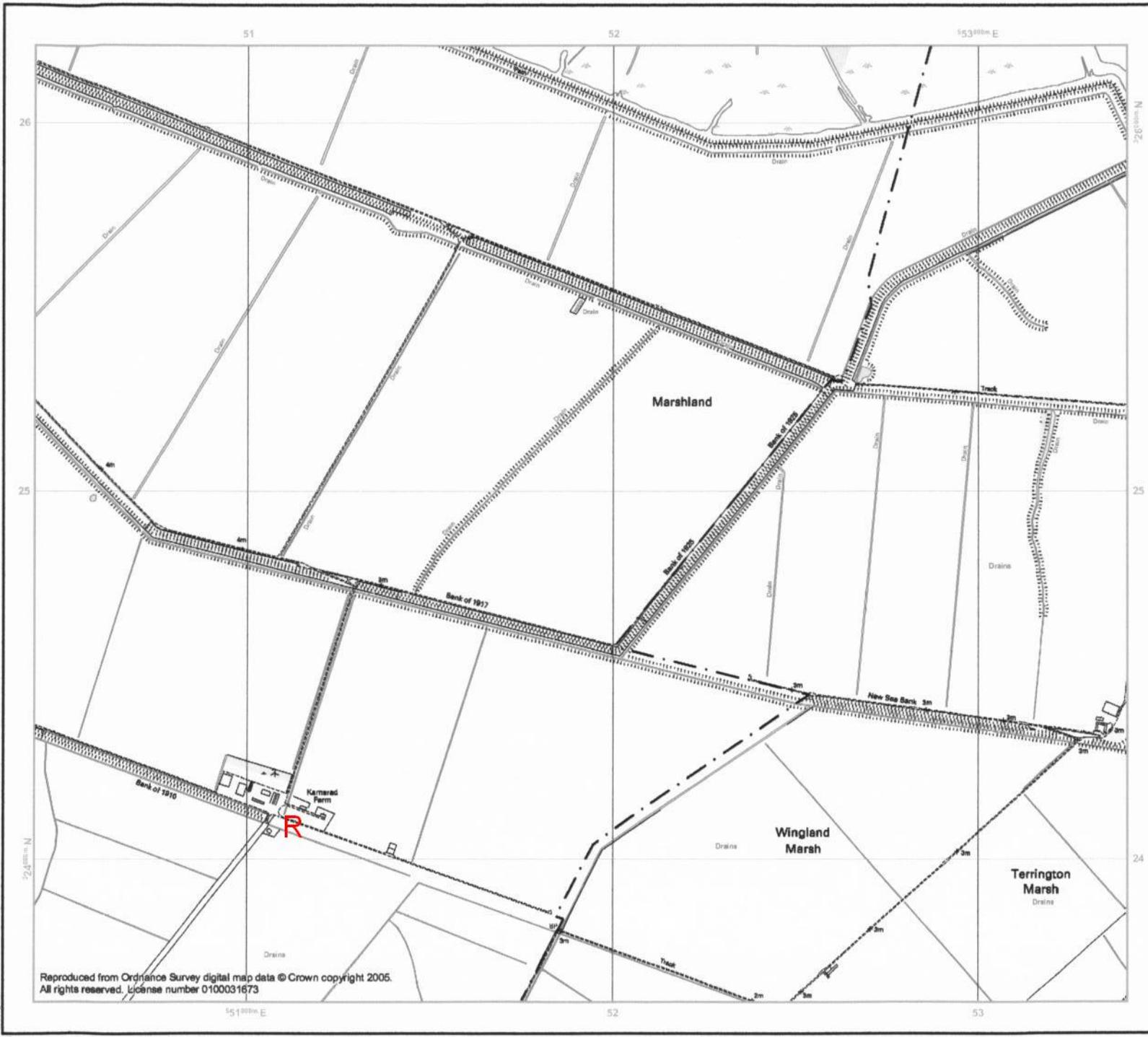
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 St Ives Cambridgeshire PE27 5LJ
 T 01480 466335 F 01480 466911 E rpscm@rpsgroup.com

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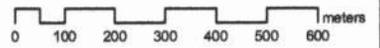
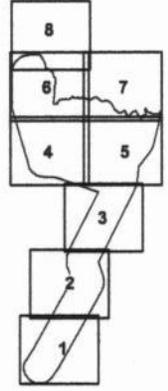
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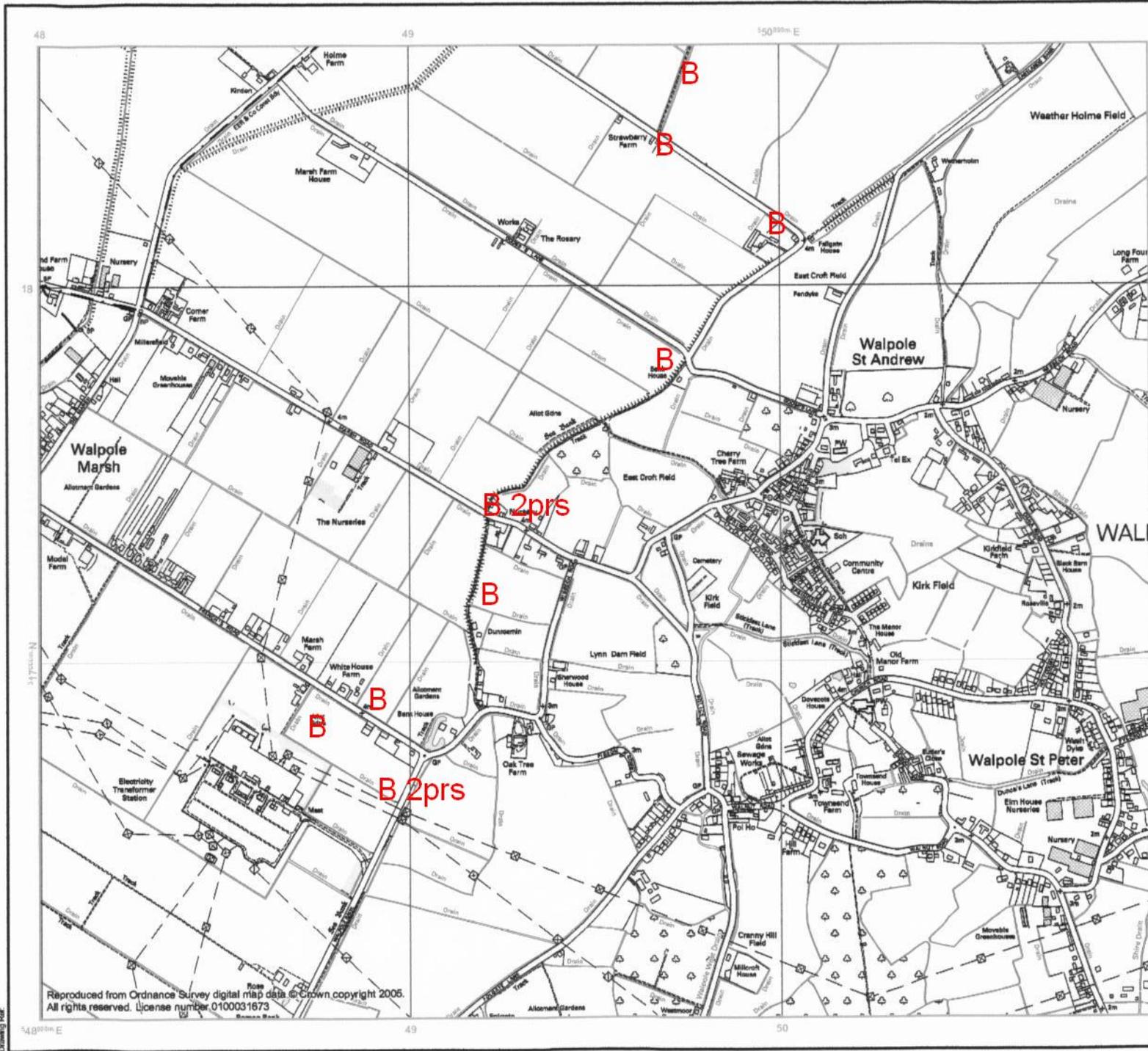


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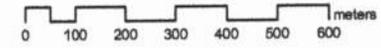
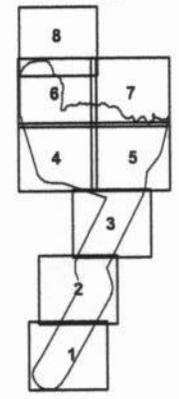
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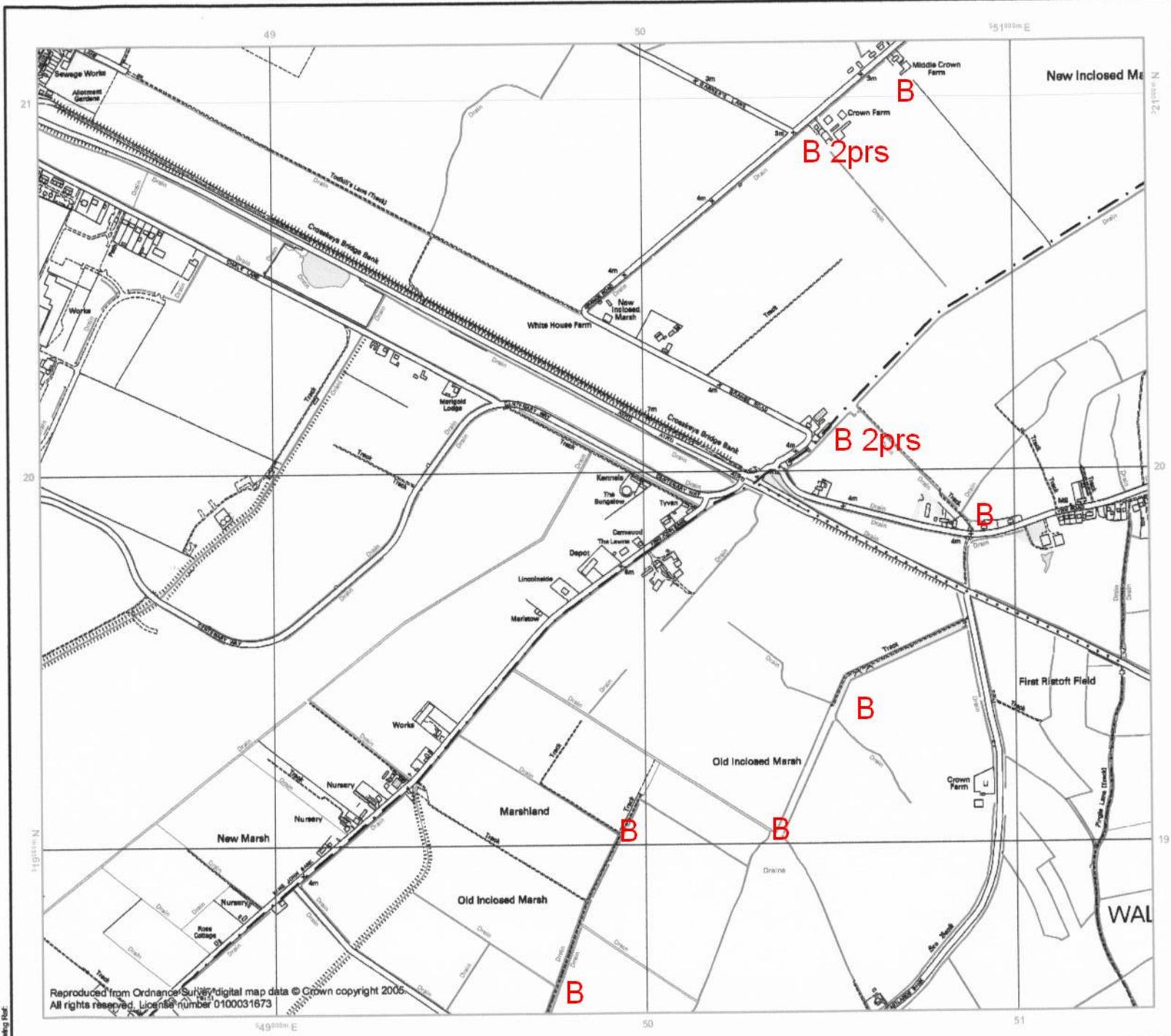
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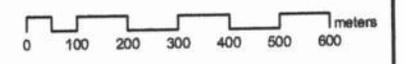
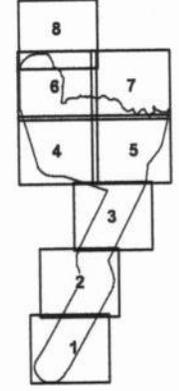
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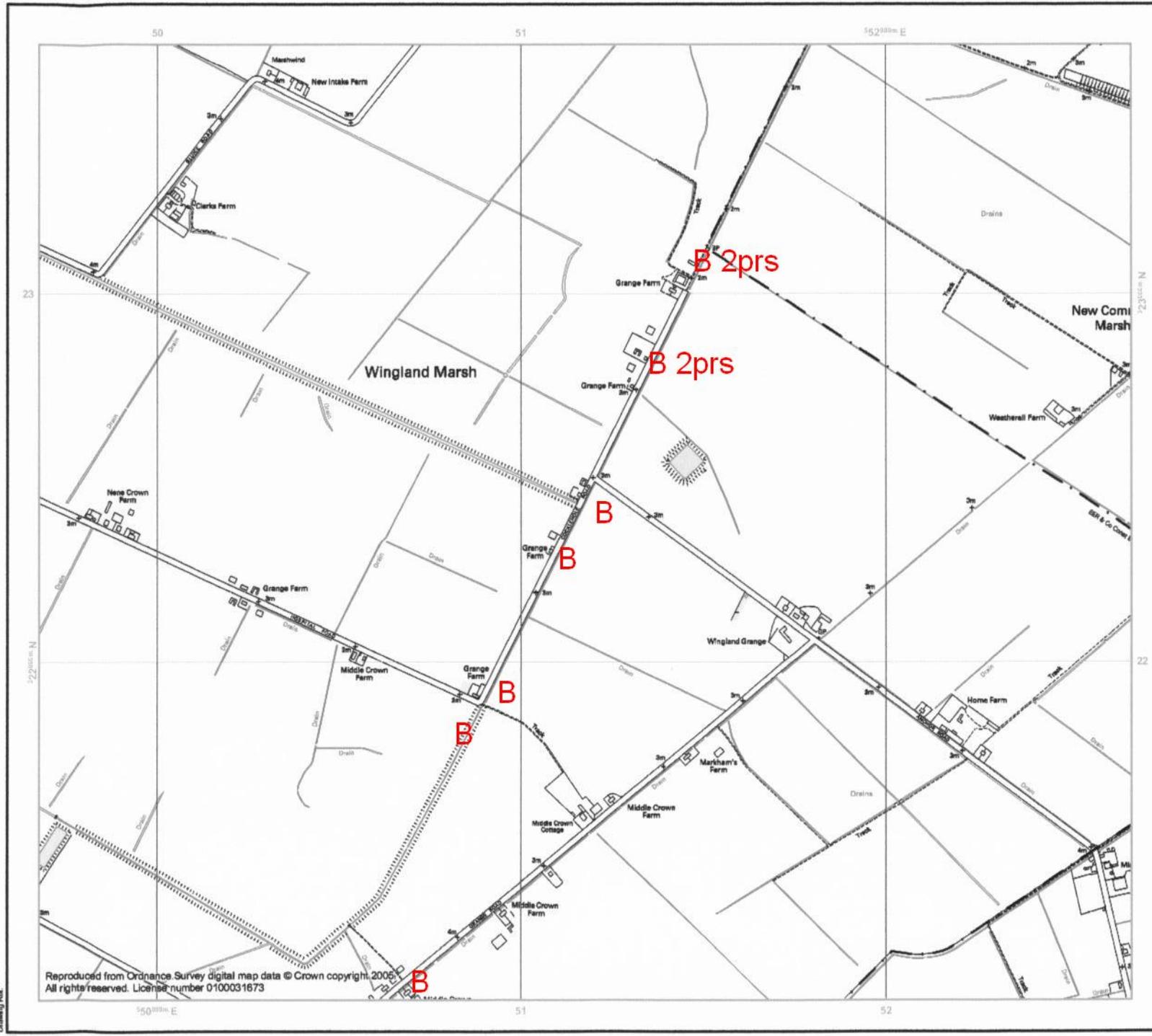
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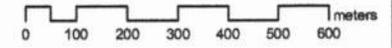
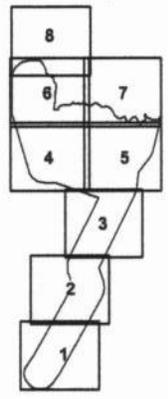
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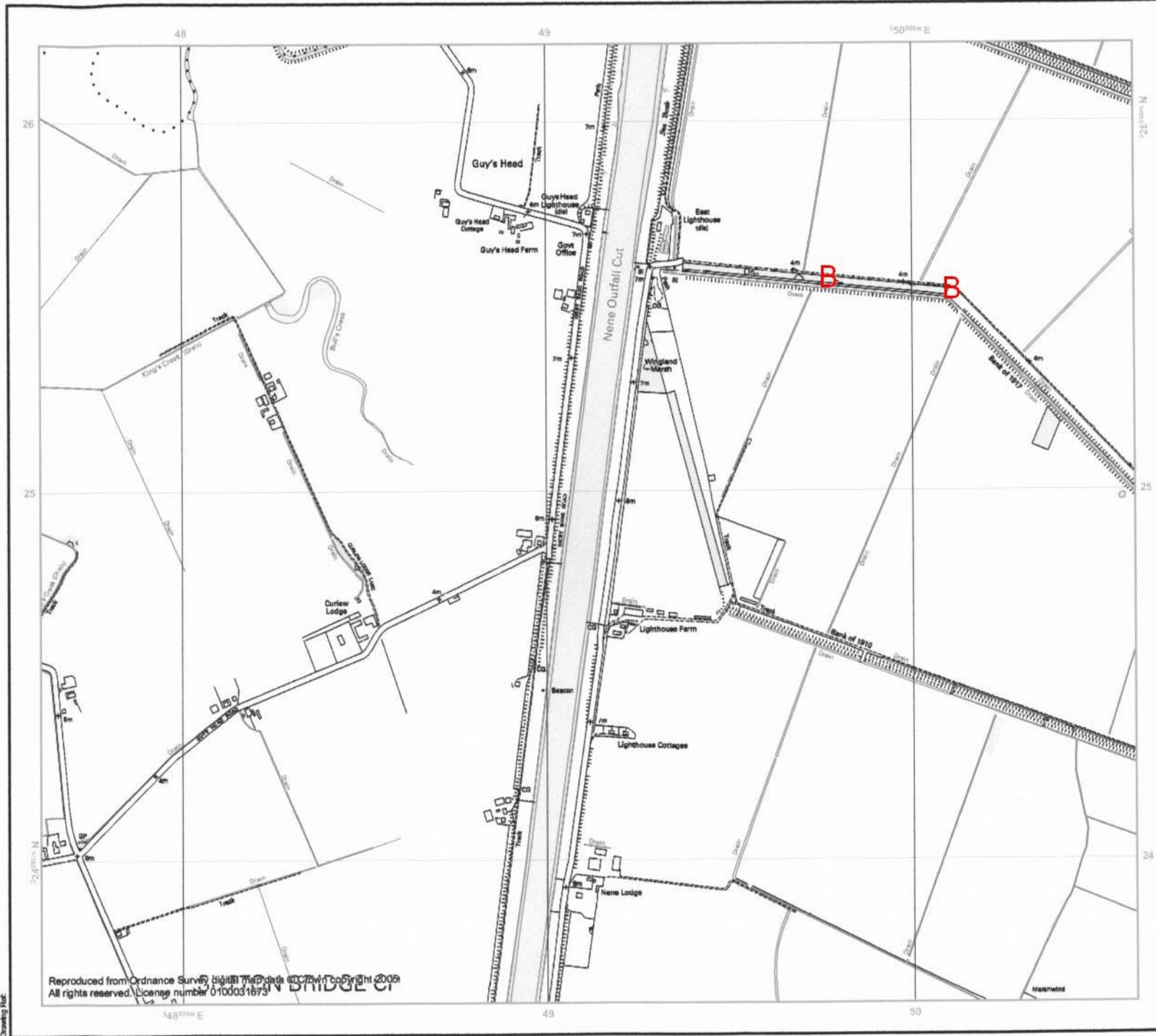
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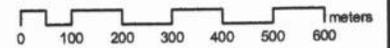
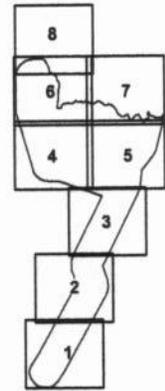
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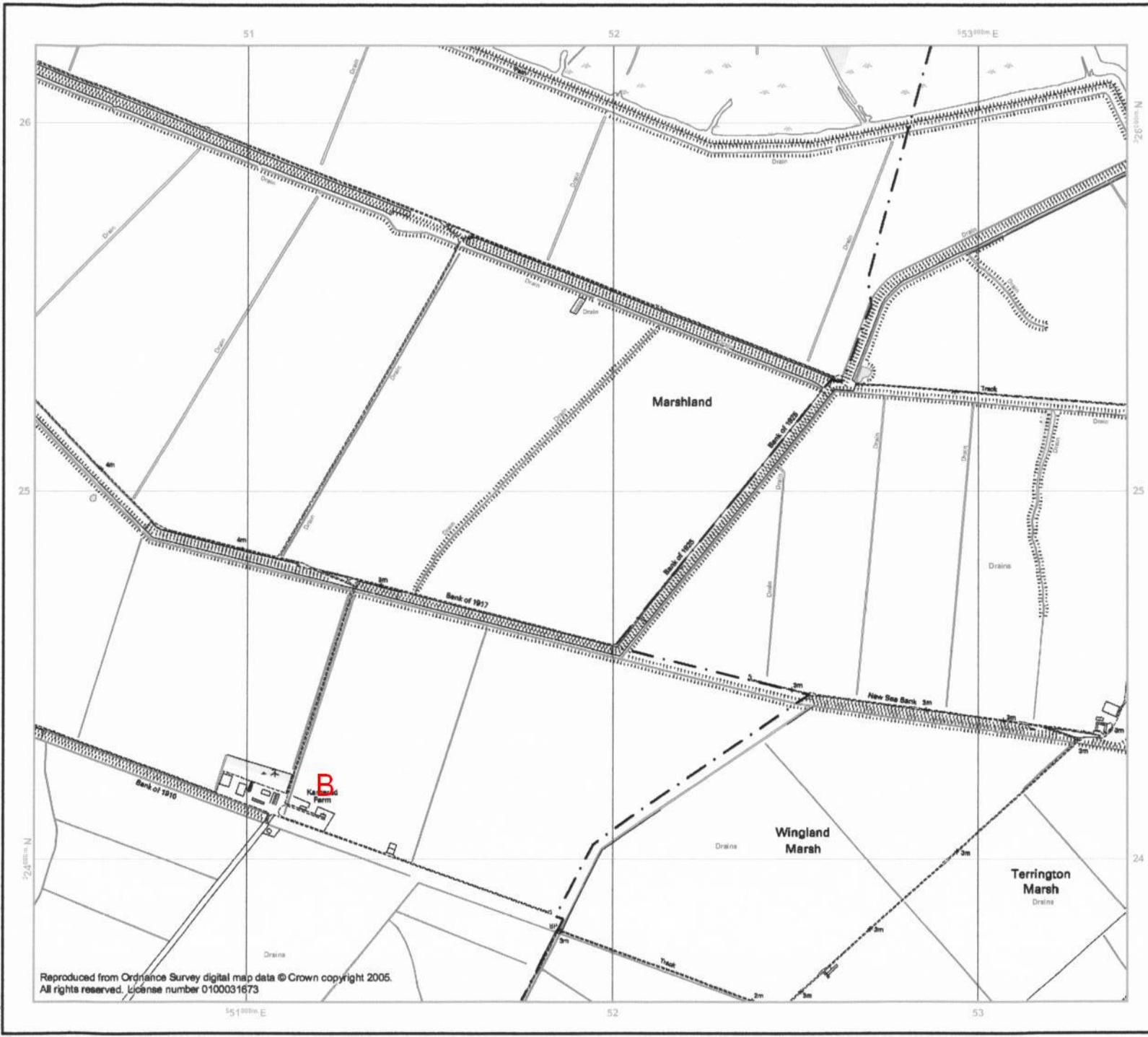
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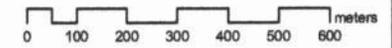
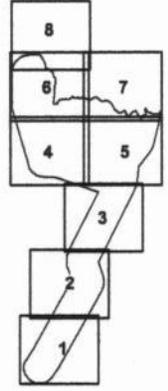
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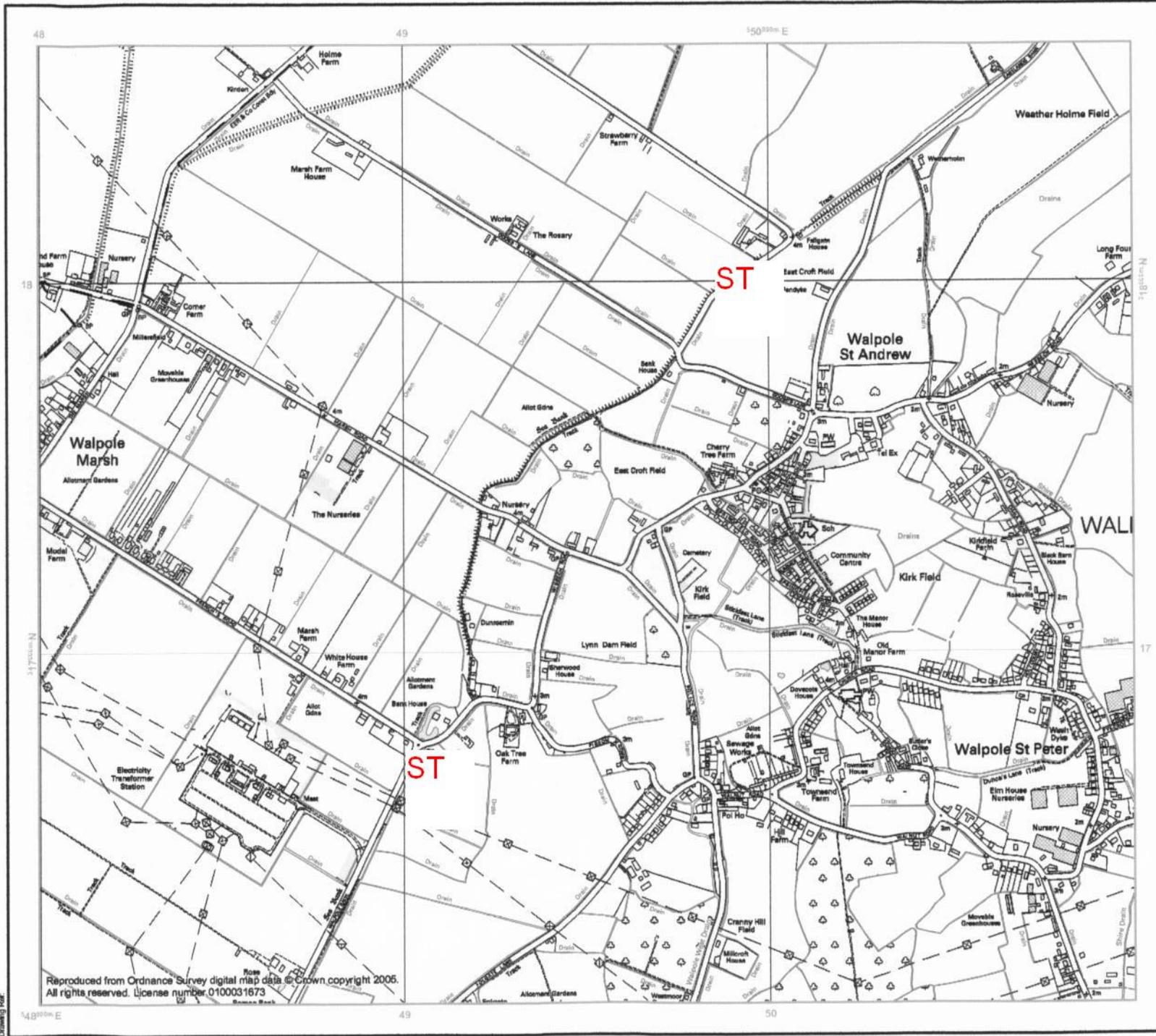


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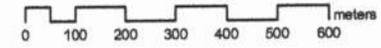
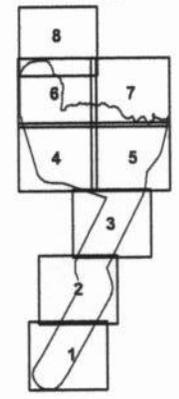
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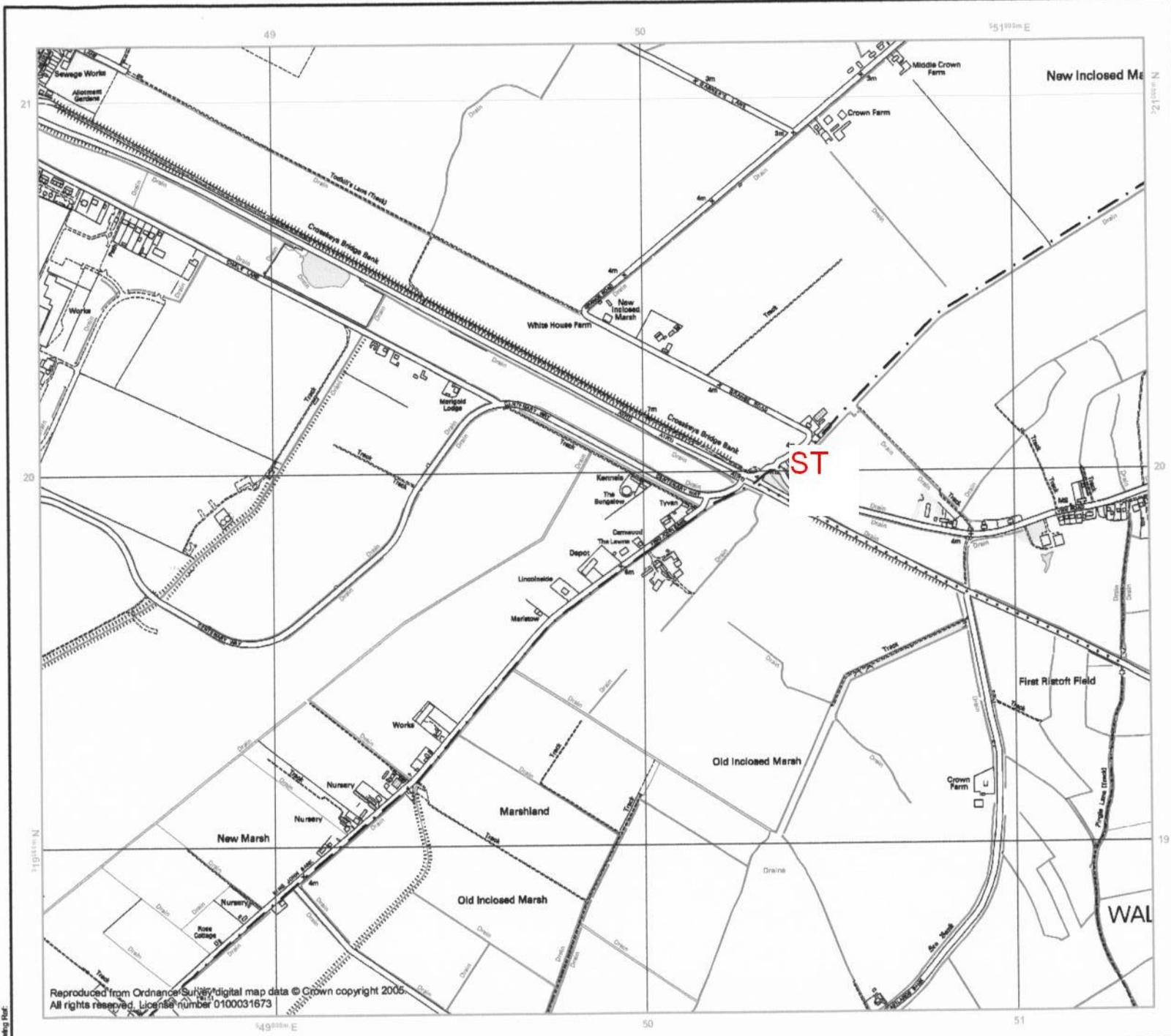
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 St Ives Cambridgeshire PE27 5SL
 T 01480 496335 F 01480 496911 E rps@cm@rpsgroup.com

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Project:	Onshore Cable Routes Skegness and Walpole
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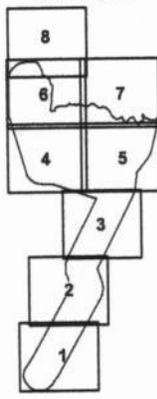
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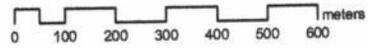


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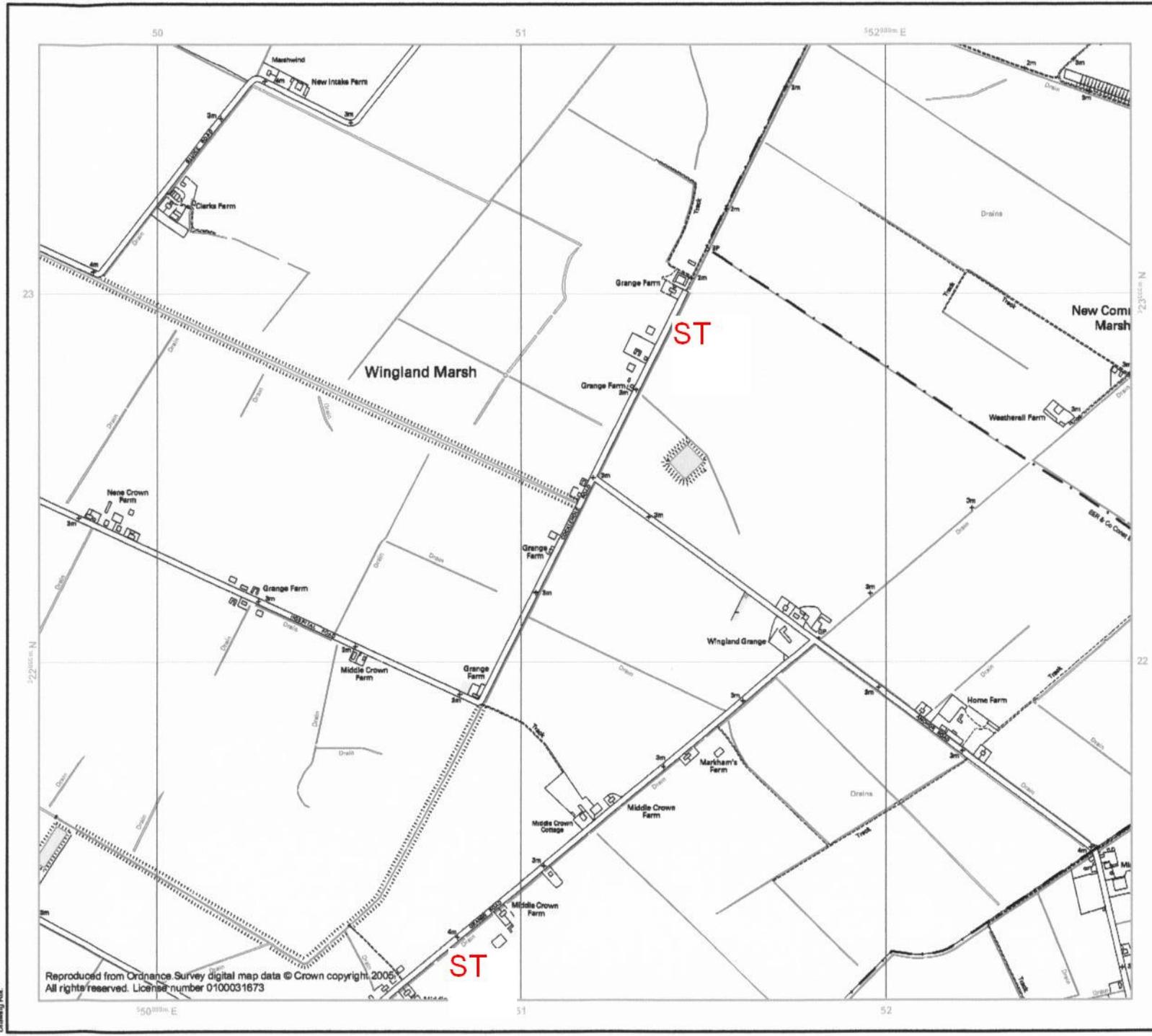


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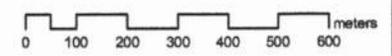
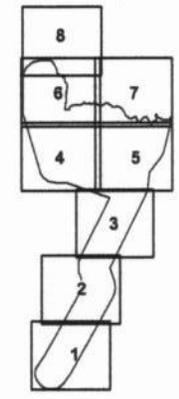
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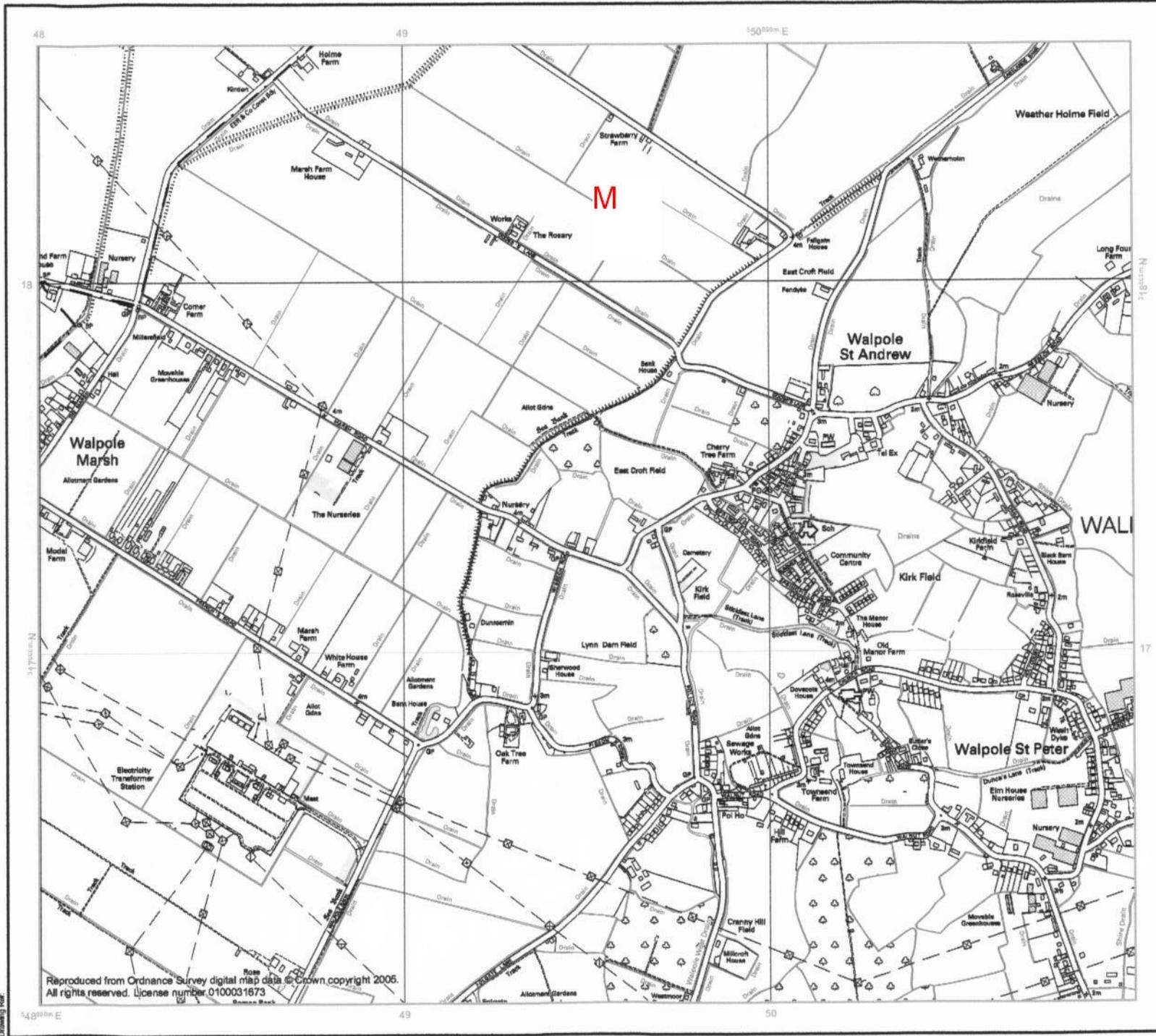


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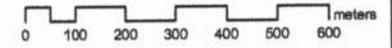
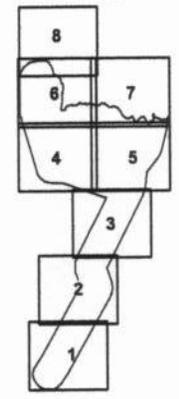


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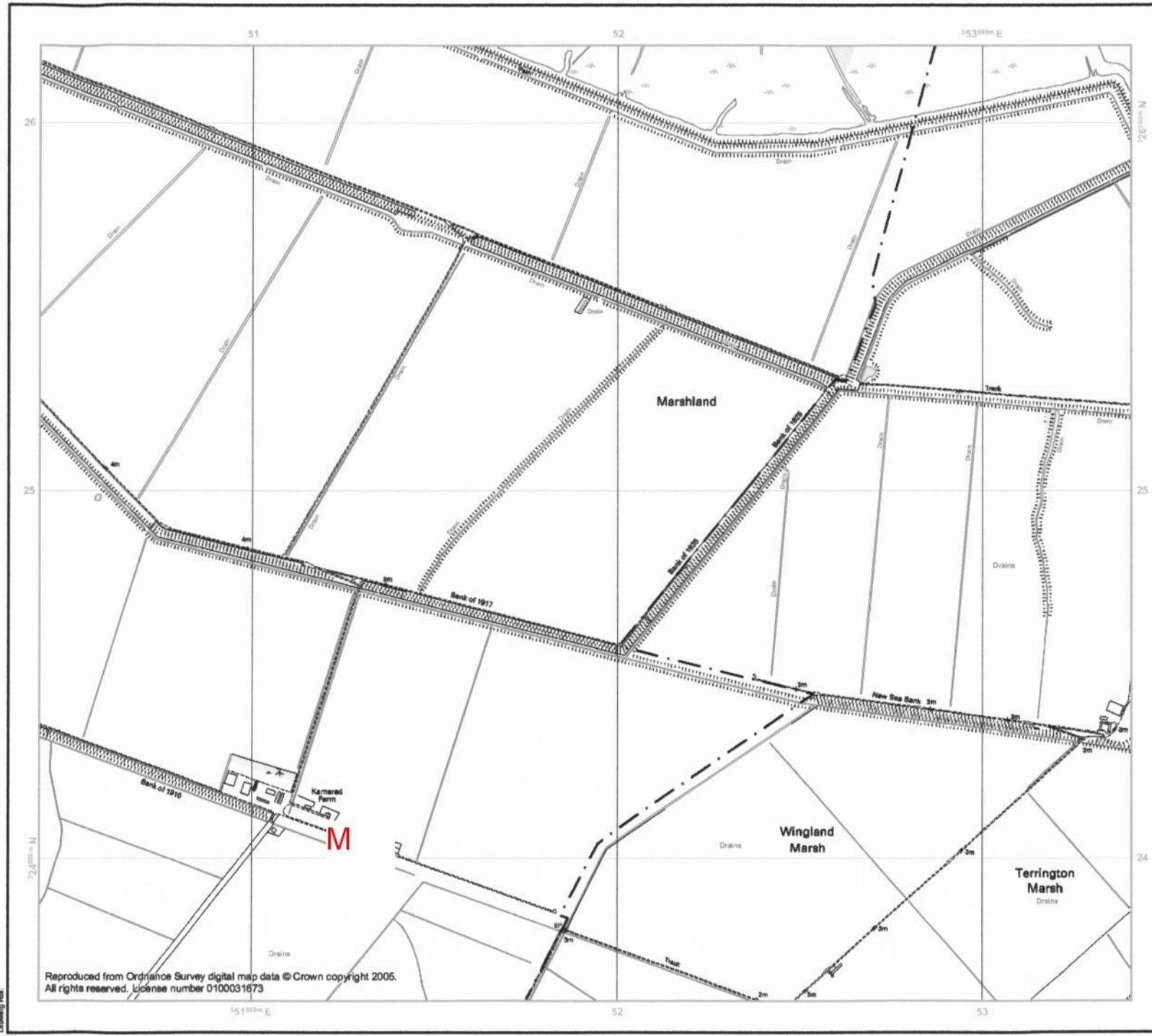
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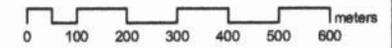
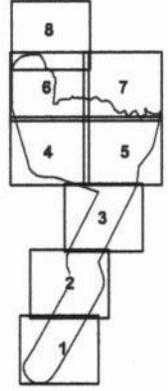
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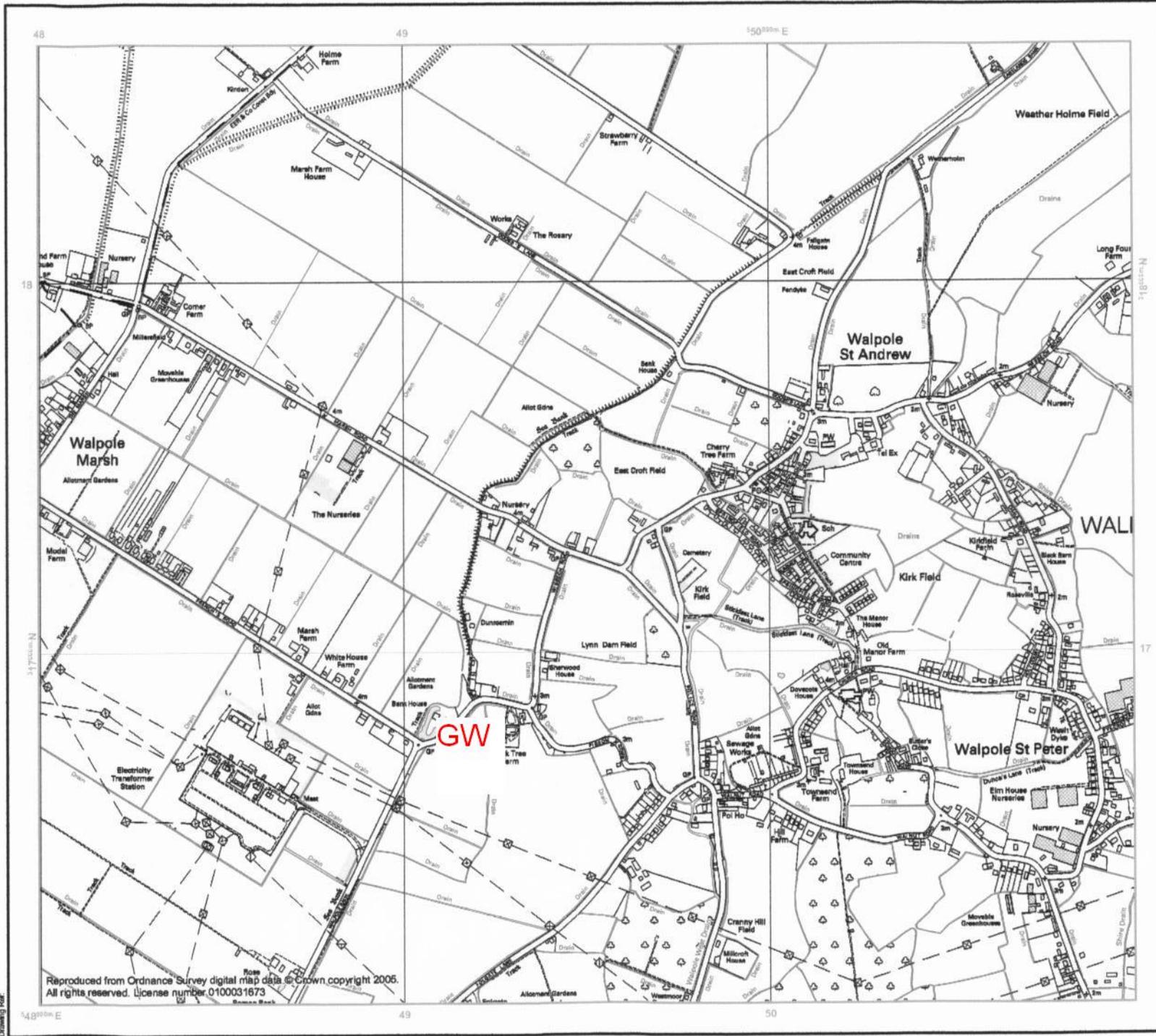


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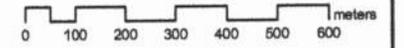
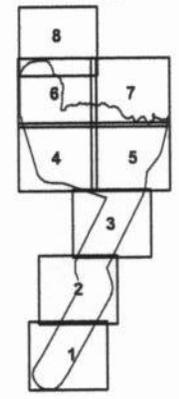
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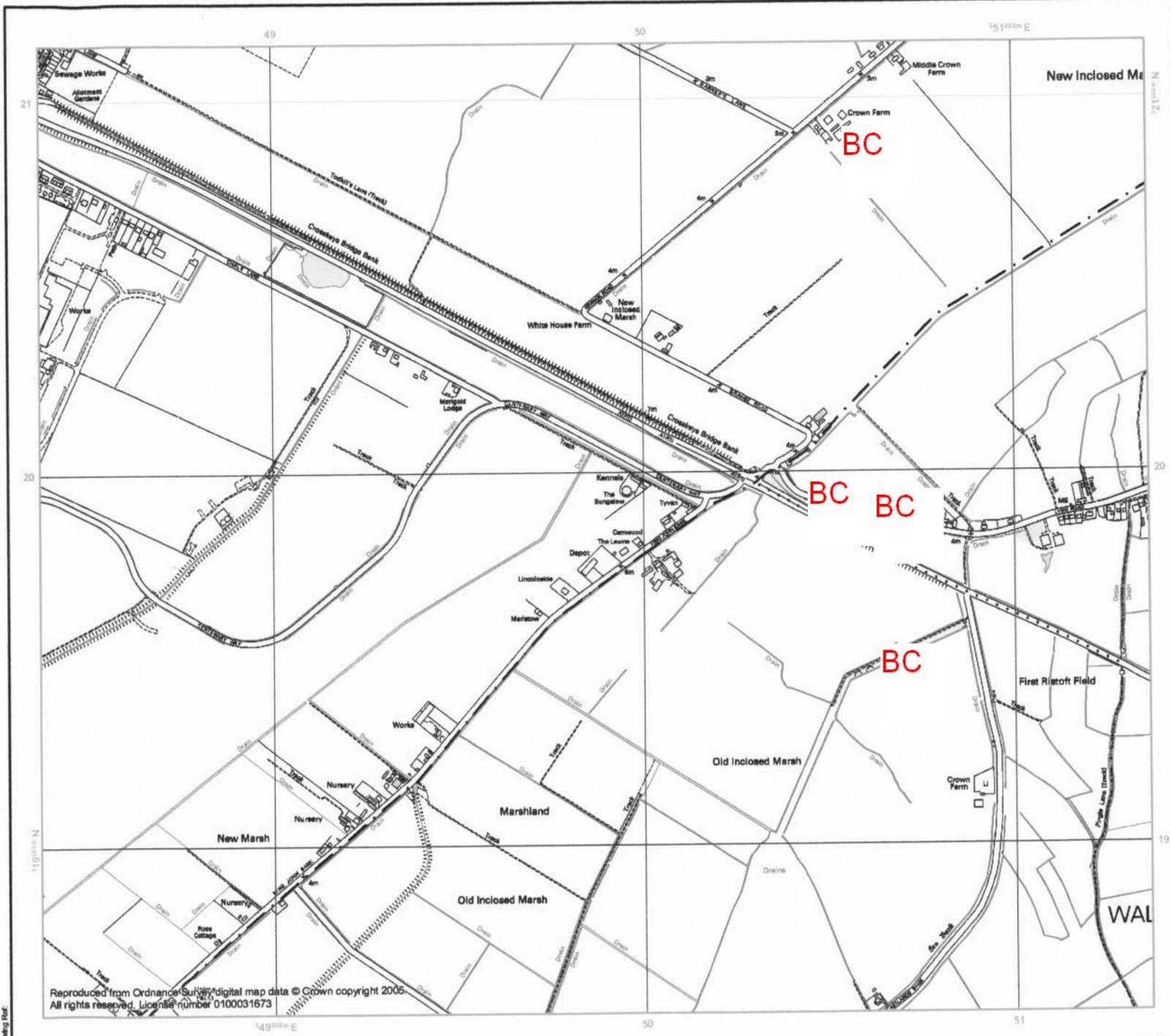
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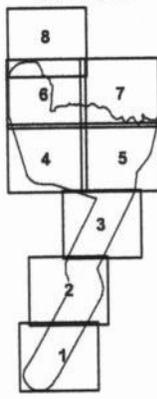
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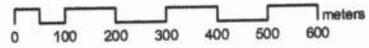


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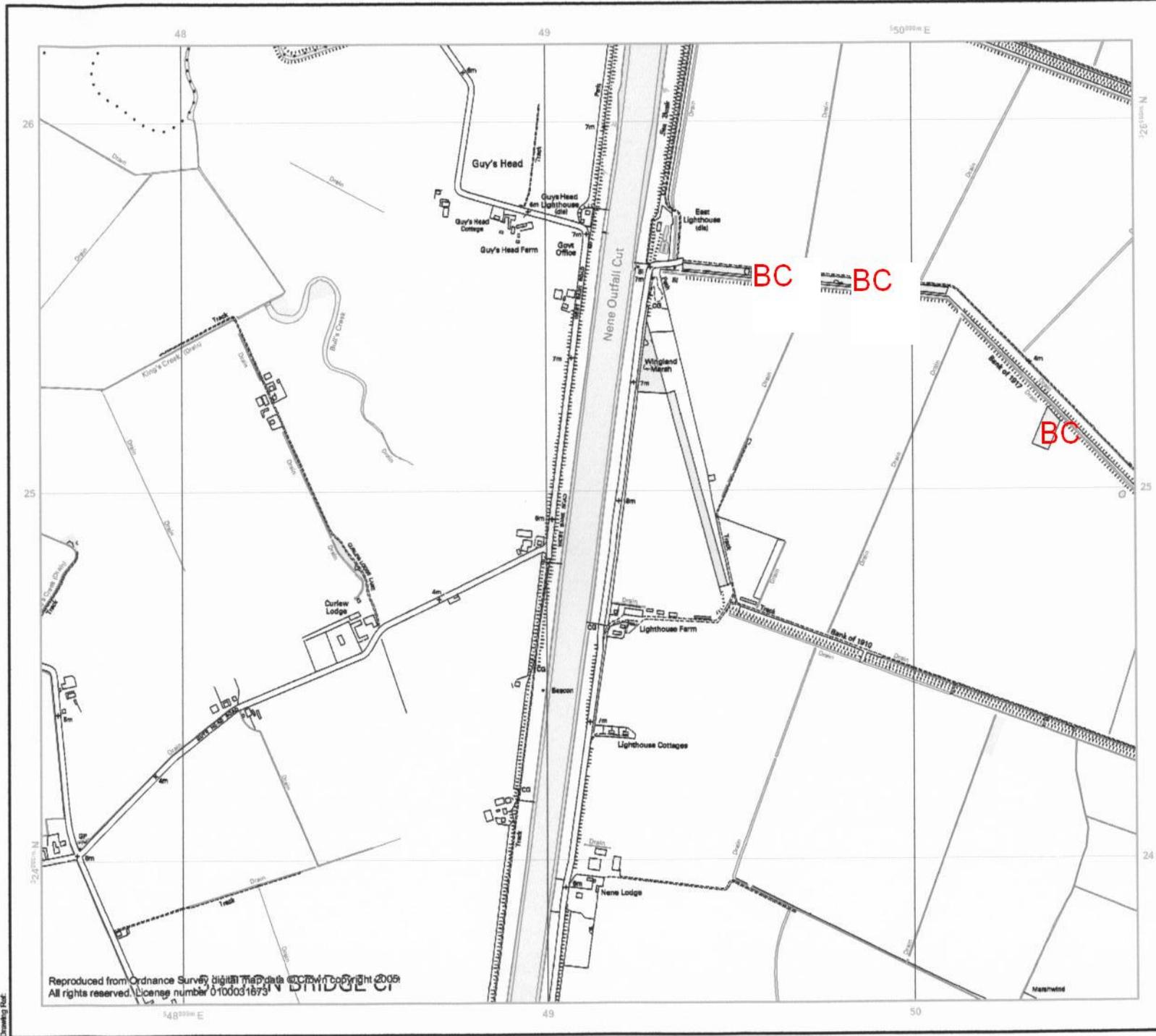


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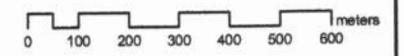
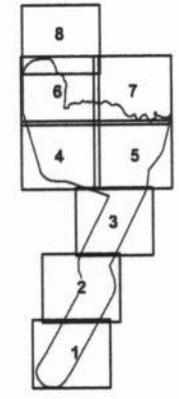
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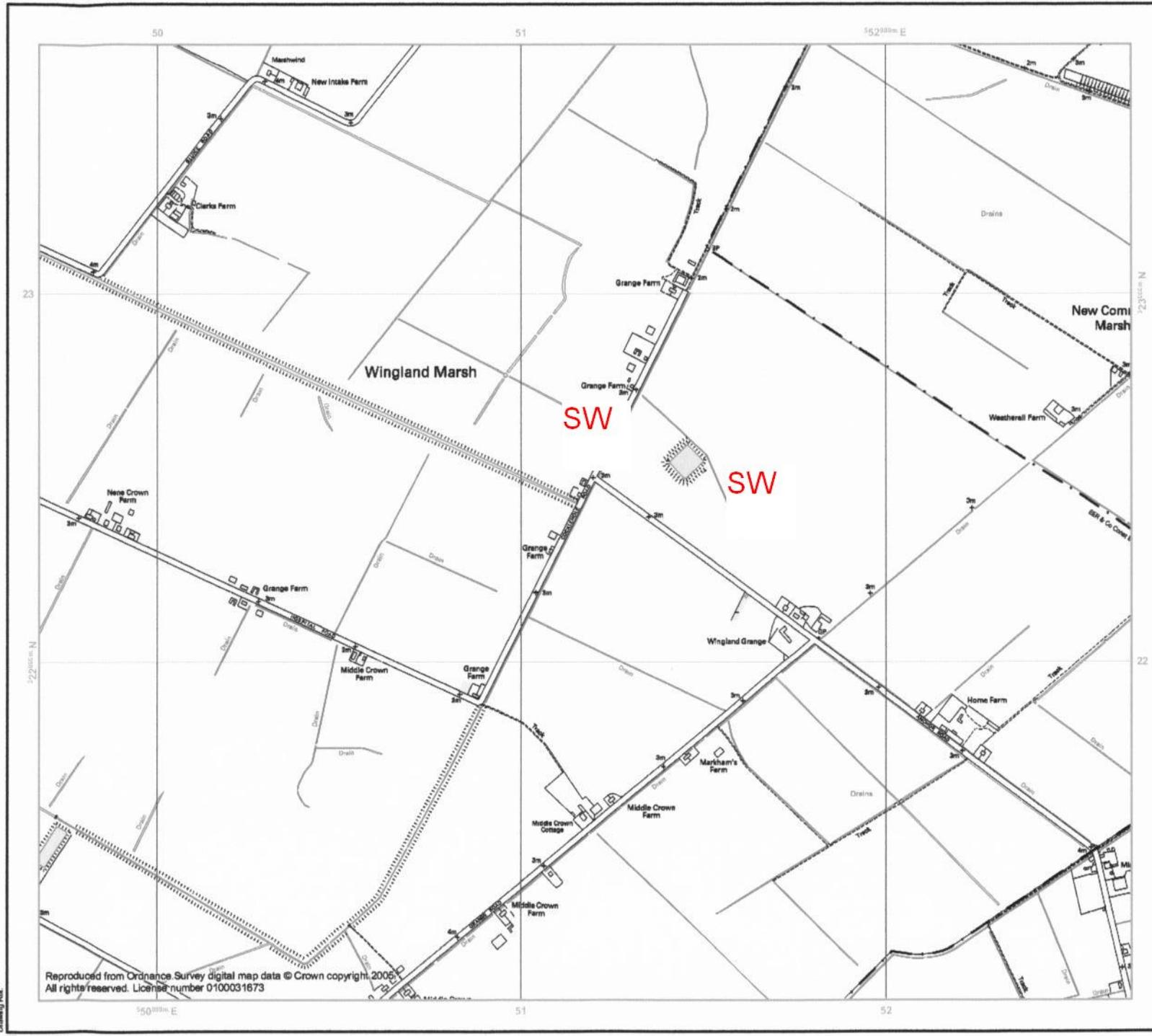
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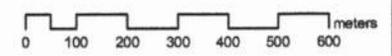
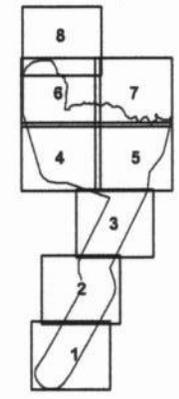
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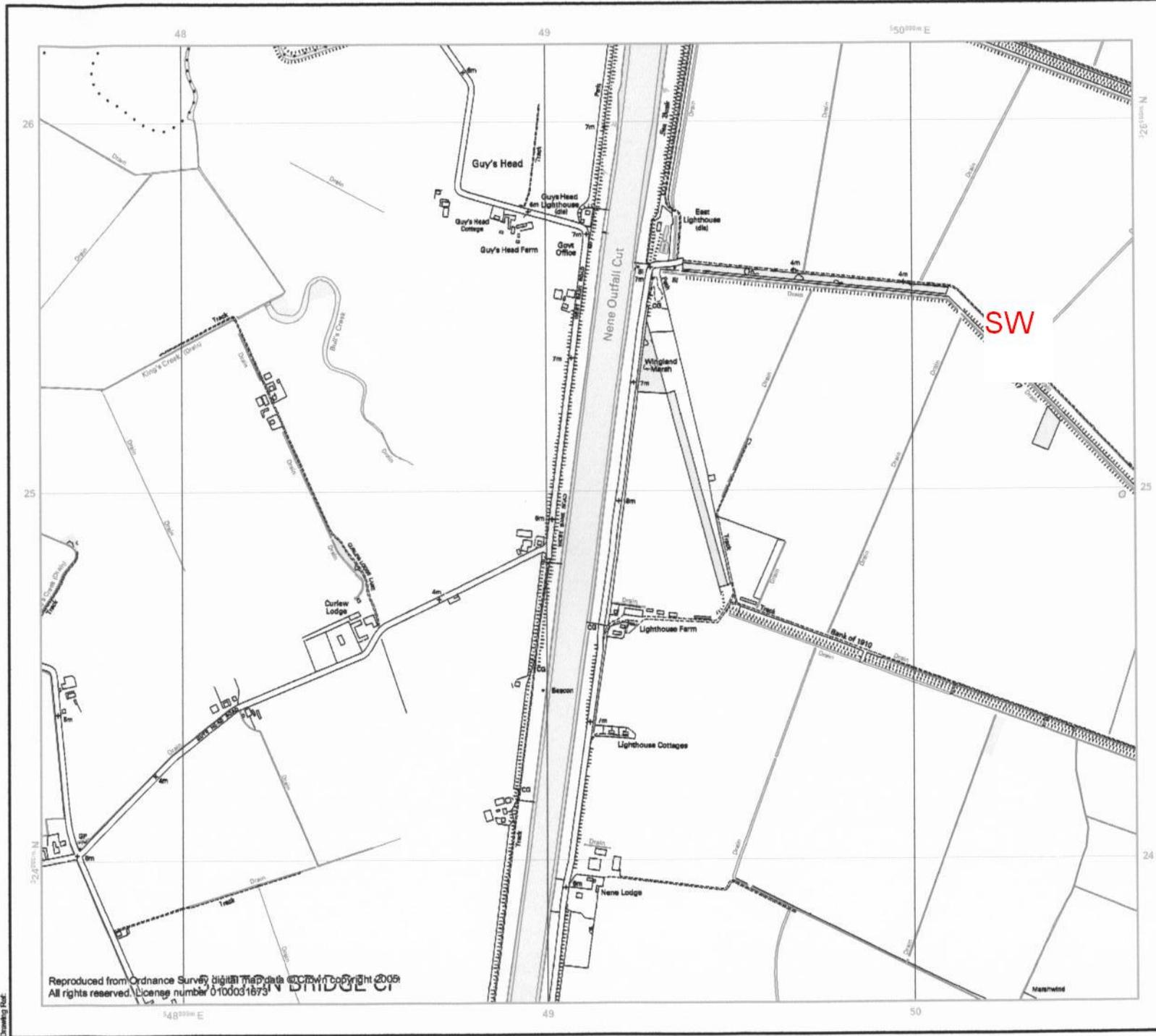


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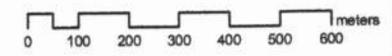
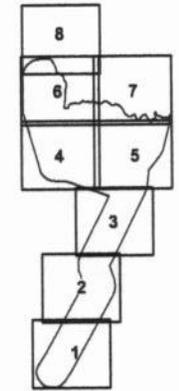
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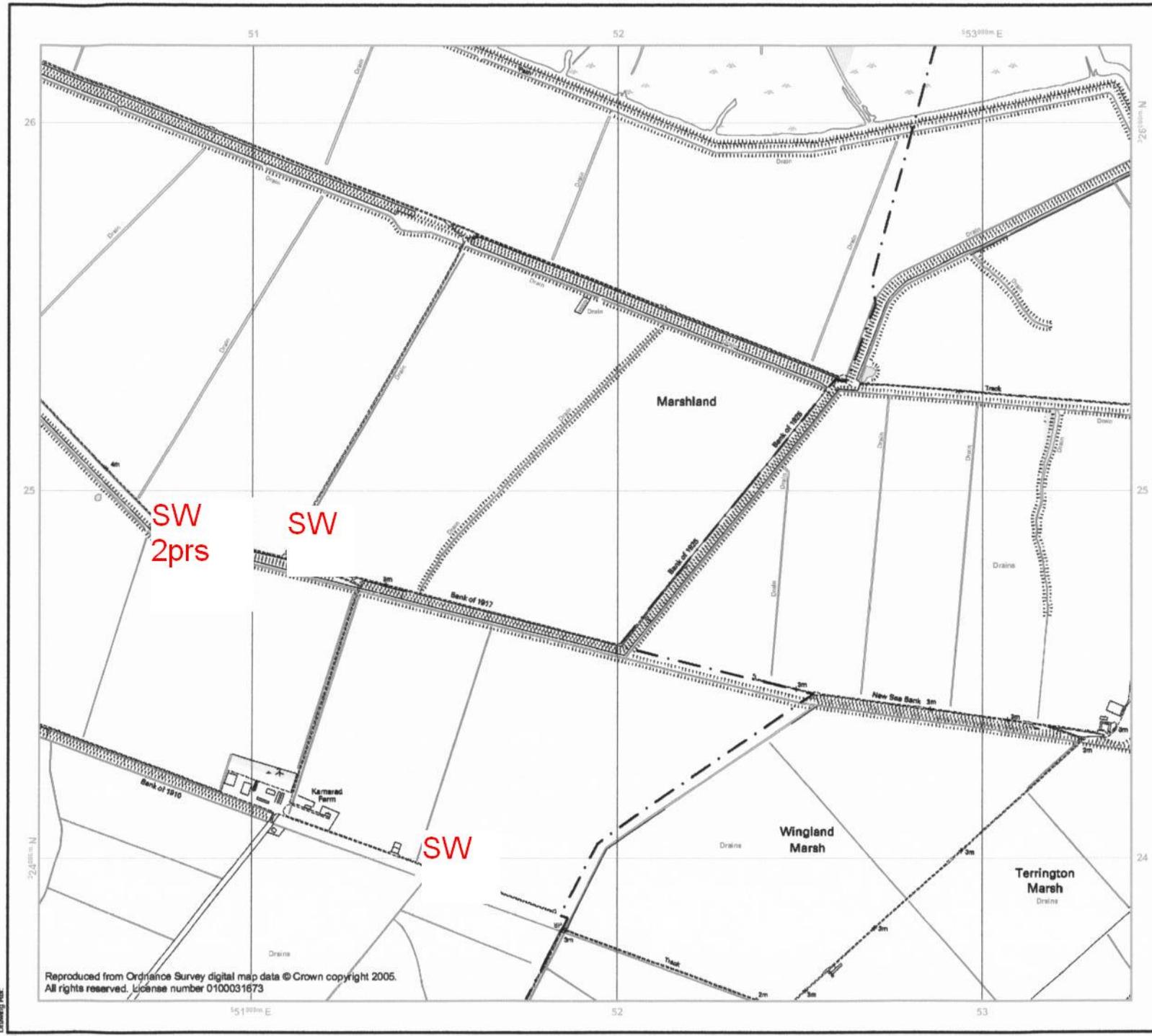


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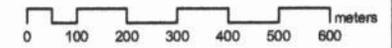
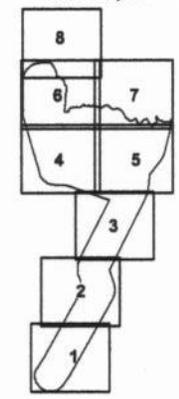
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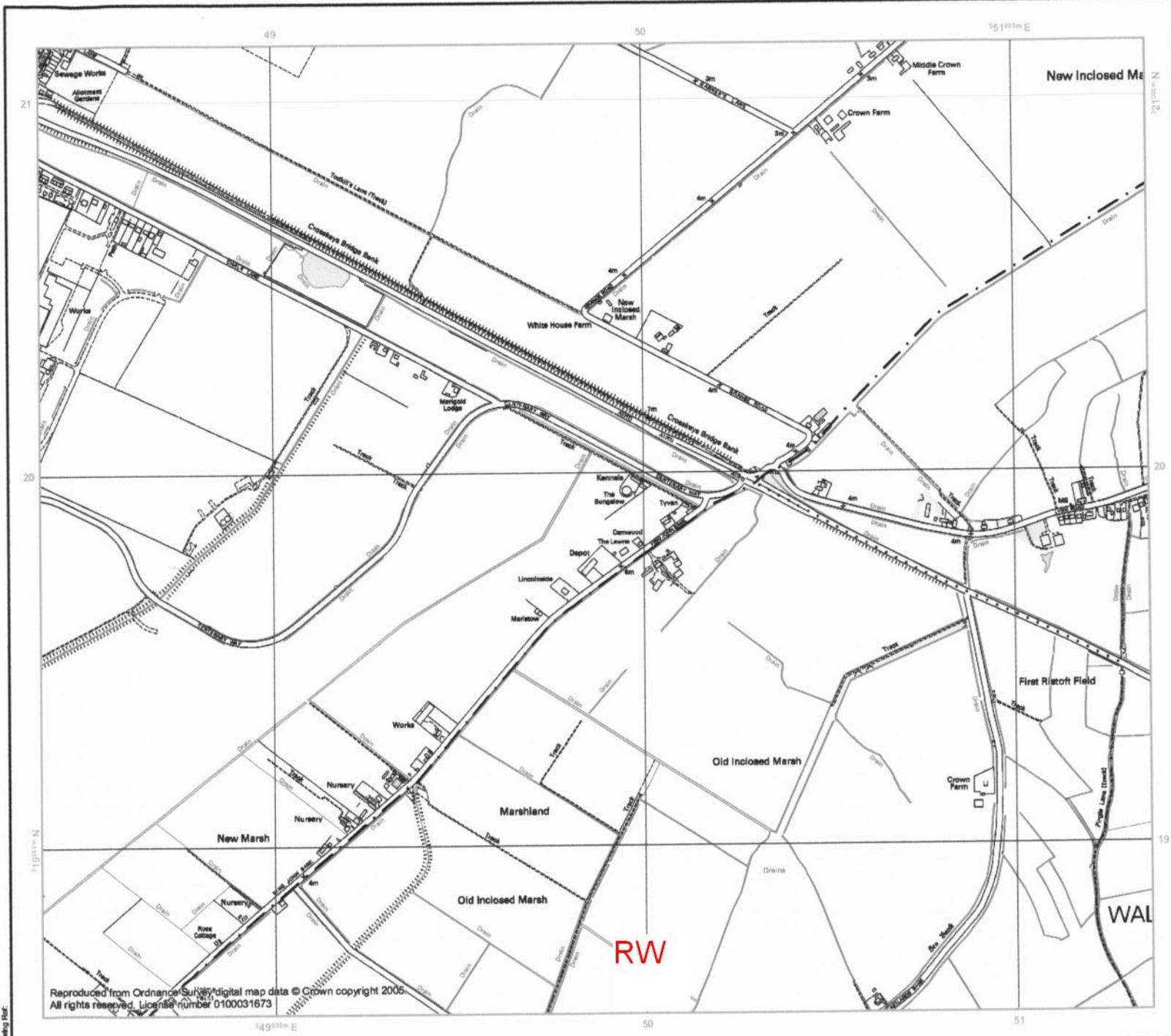
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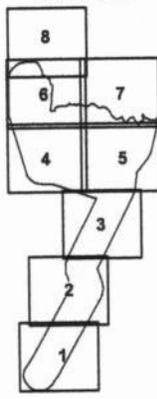
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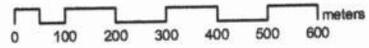


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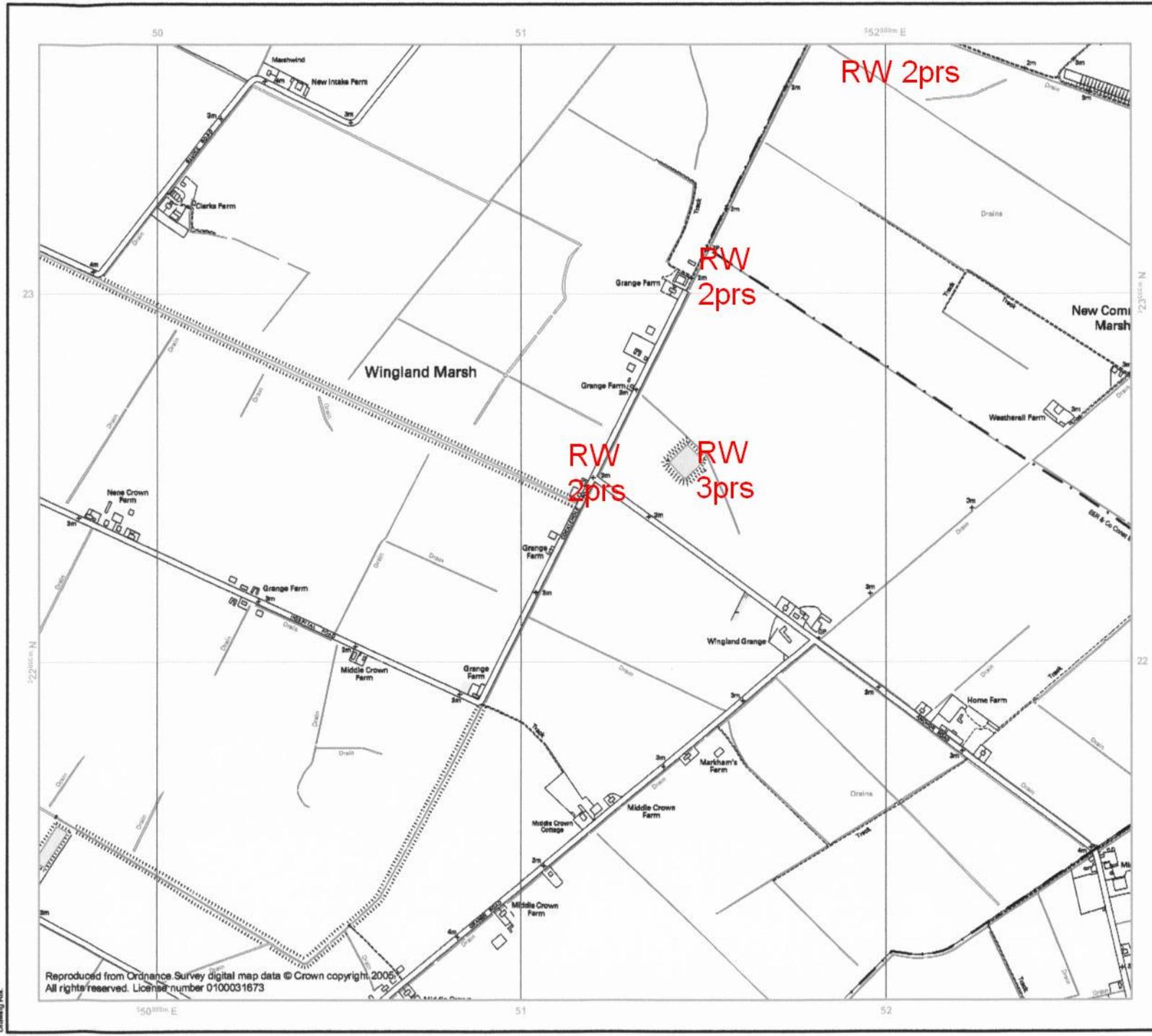


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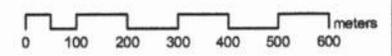
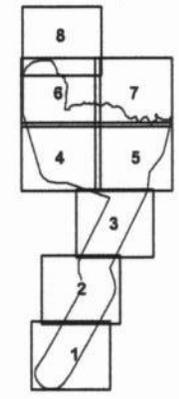
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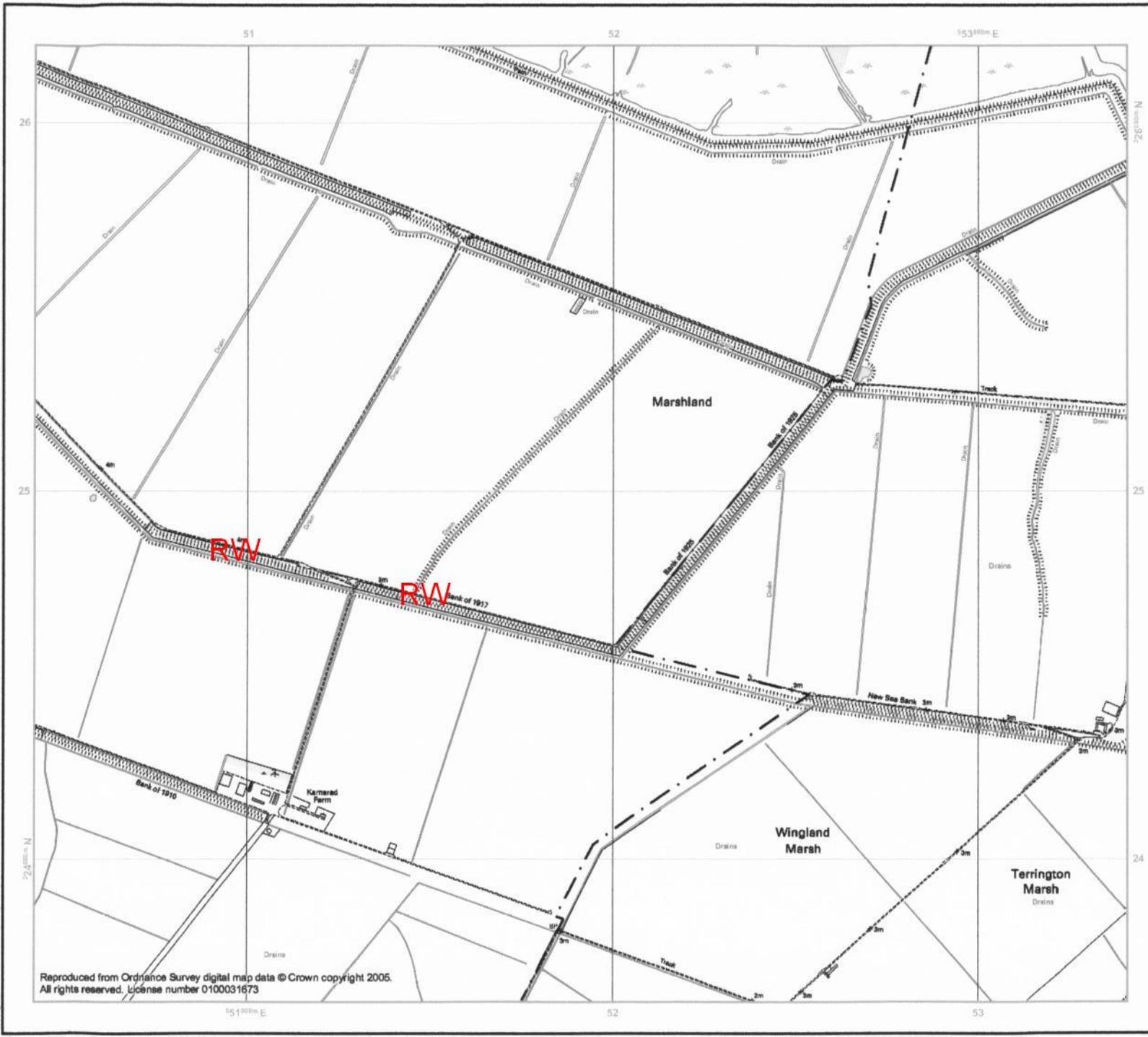


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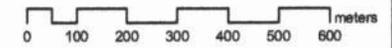
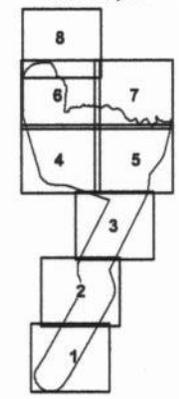


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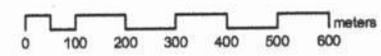
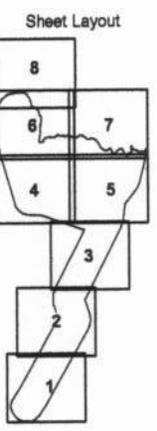
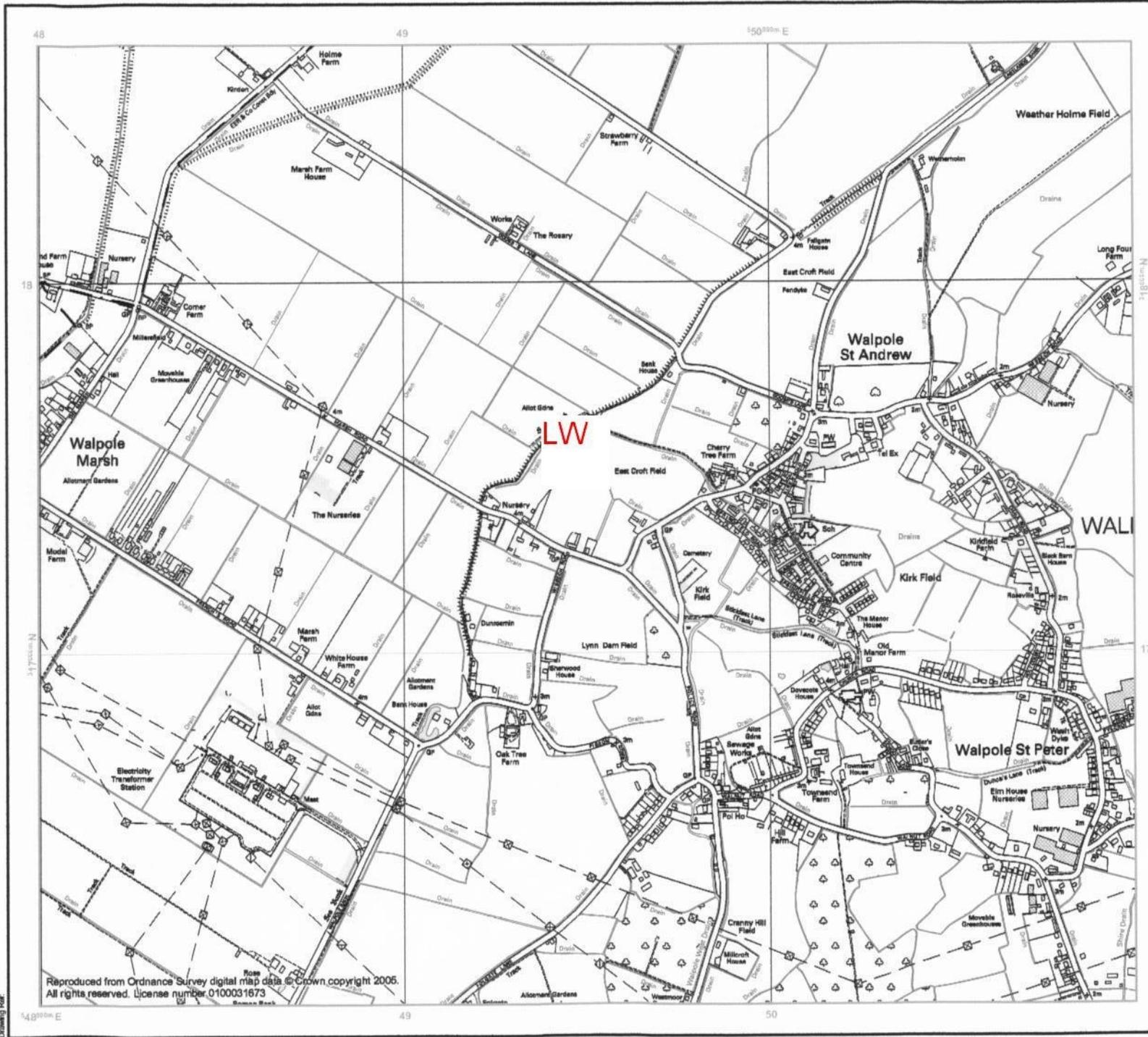
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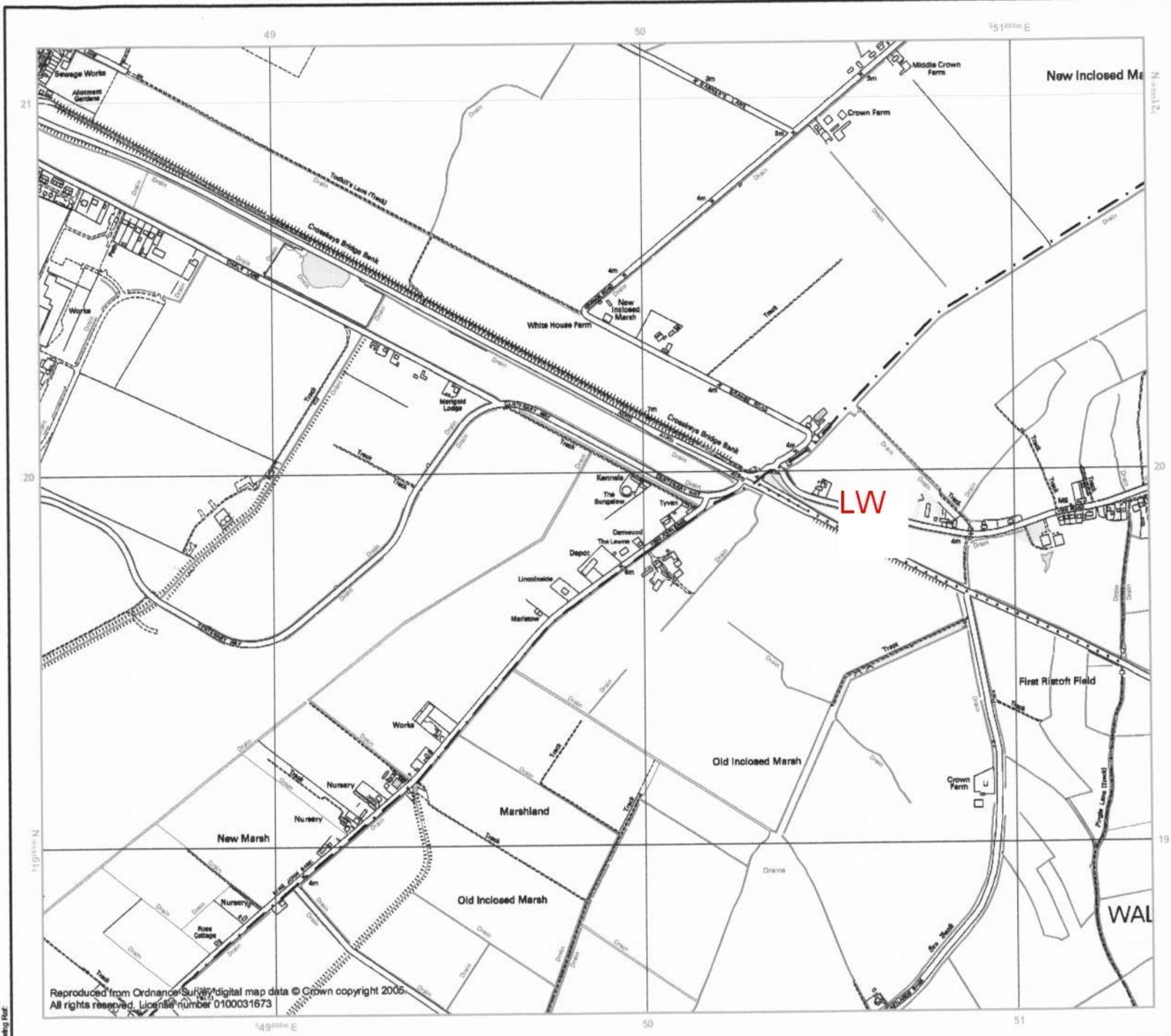
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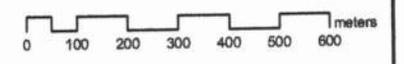
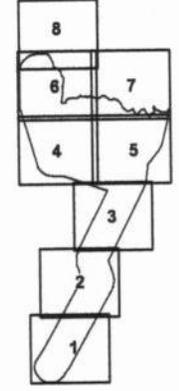
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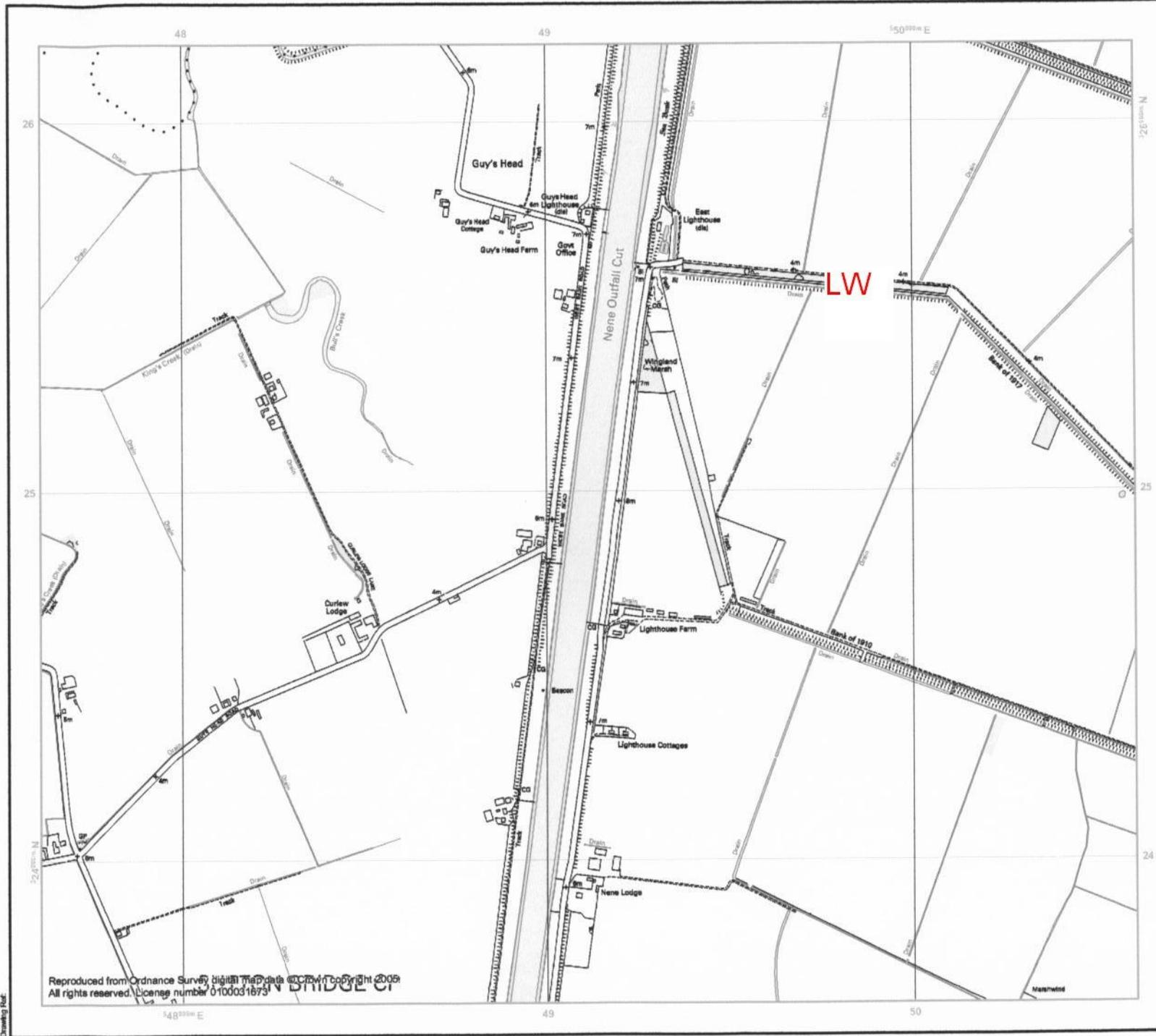
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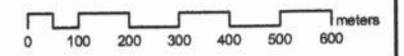
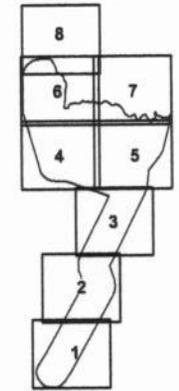
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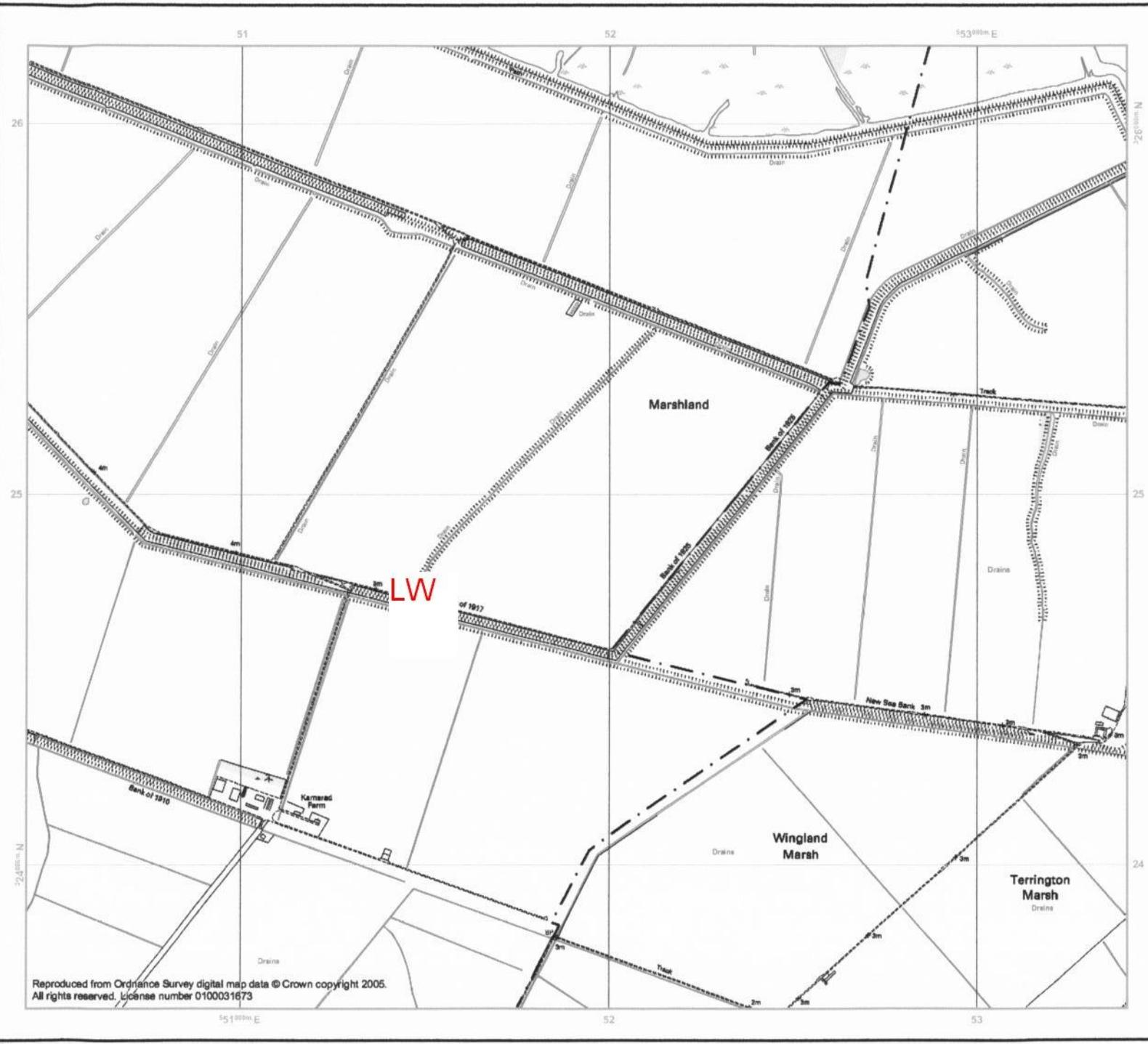
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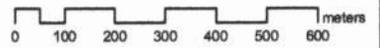
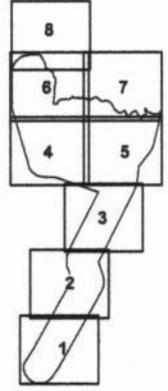
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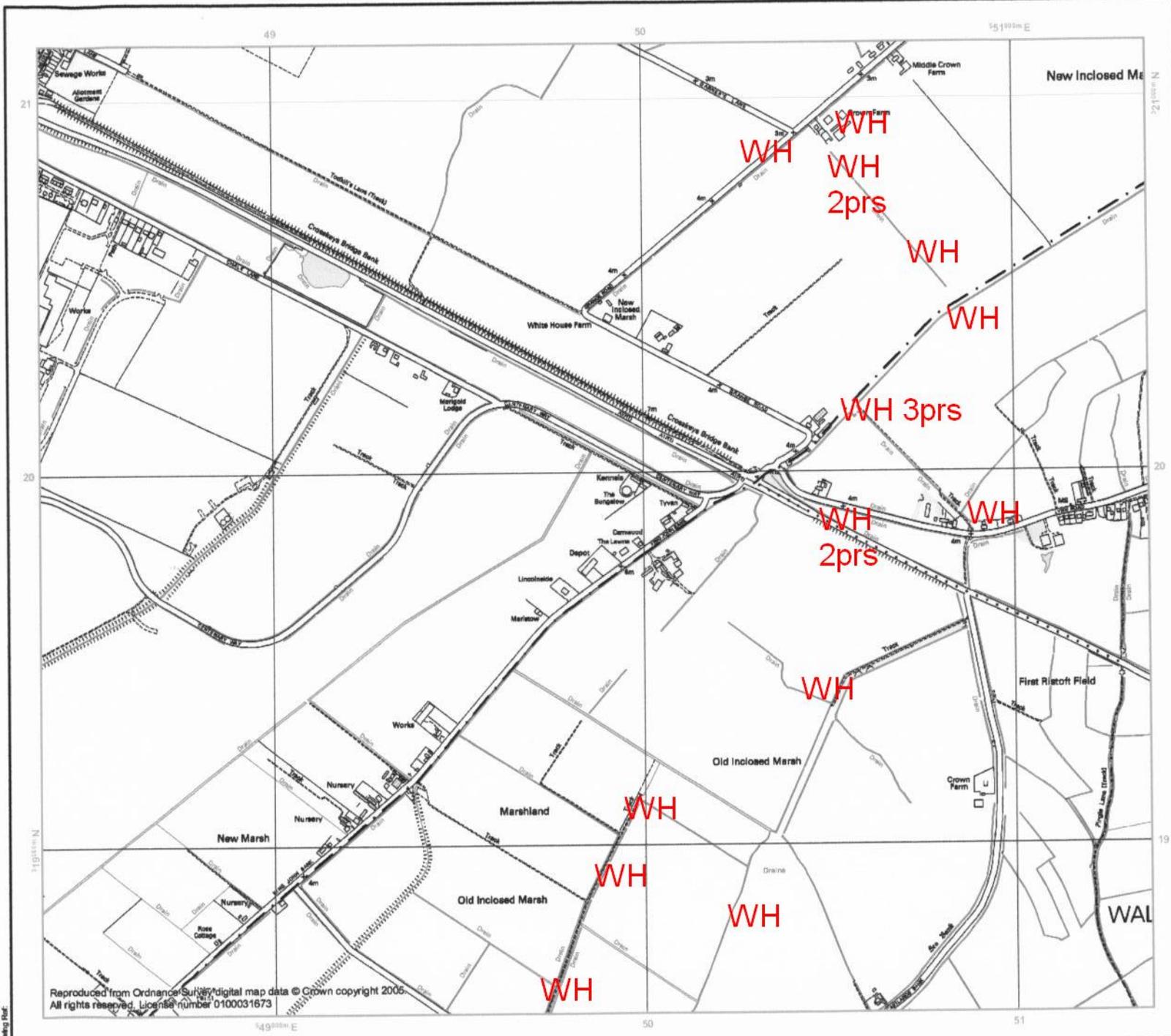
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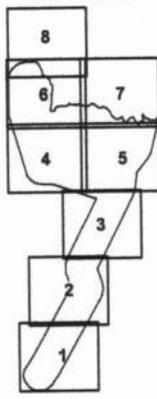
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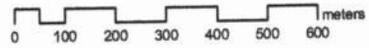


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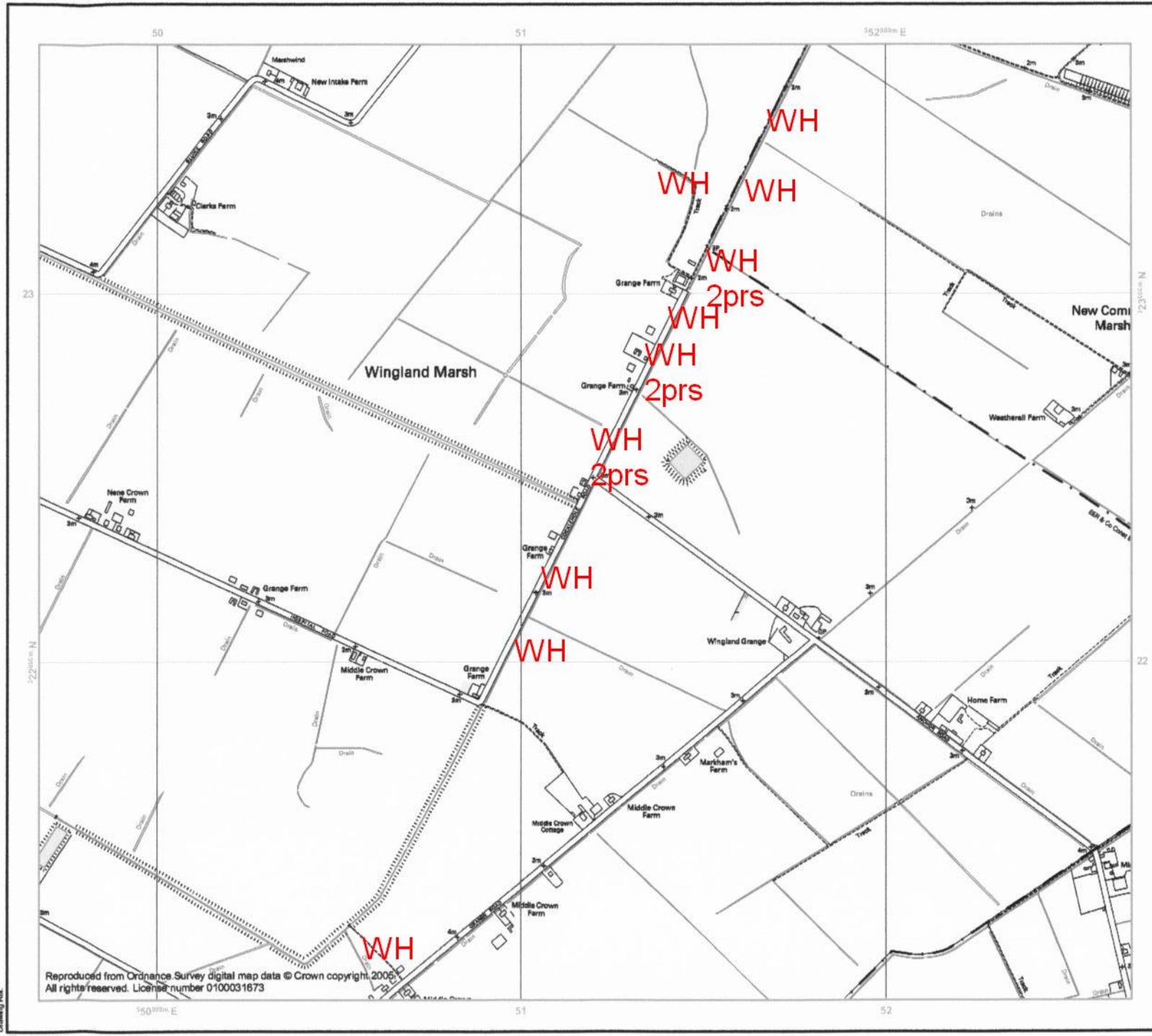




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 T 01480 486335 F 01480 489911 E rpscm@rpsgroup.com

Client: Centrica Renewable Energy Limited	
Project: Onshore Cable Routes Skegness and Walpole	
Title: Survey field sheets	
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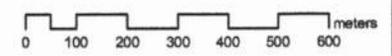
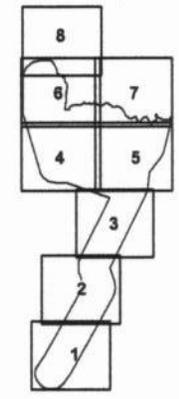
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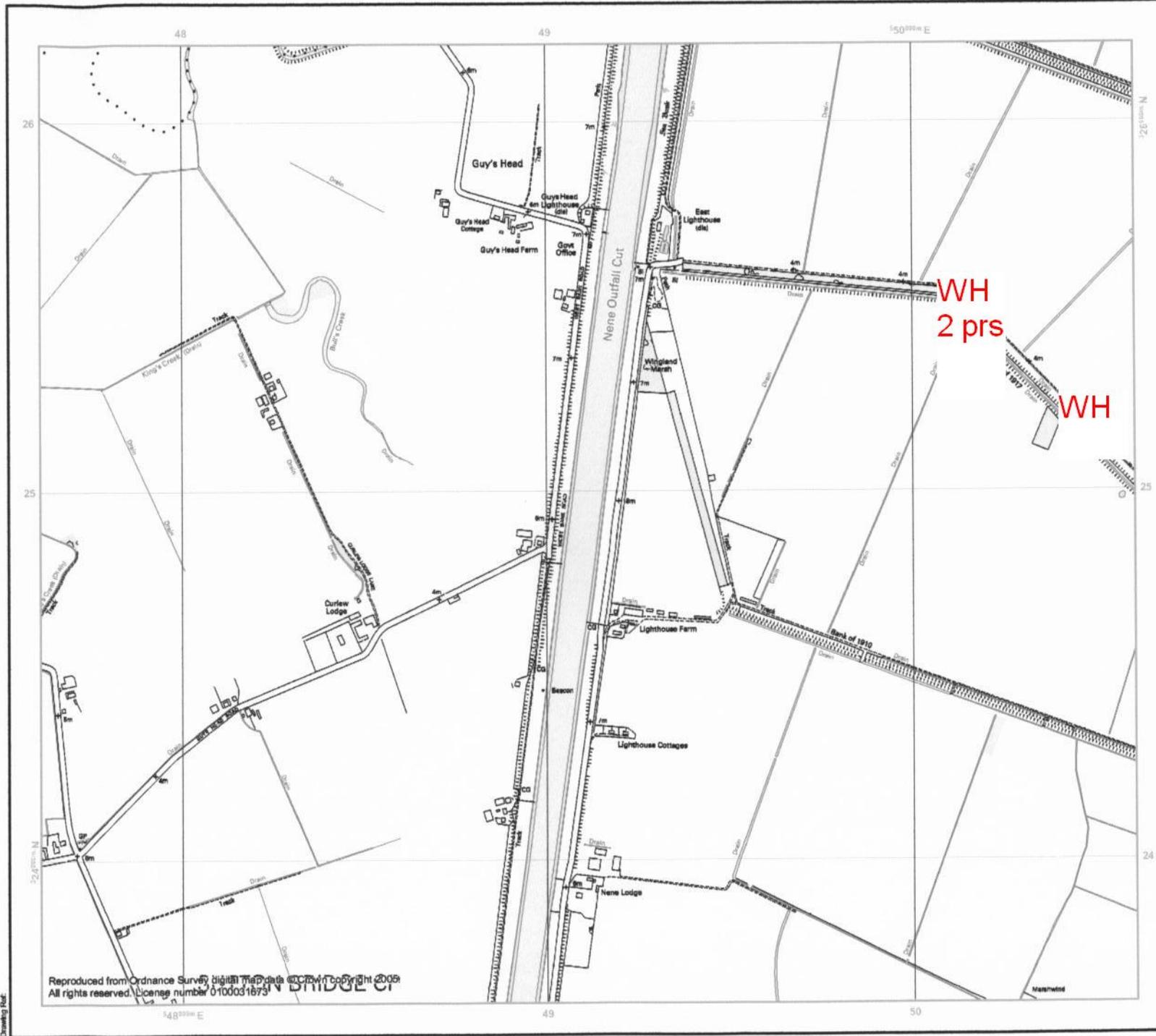


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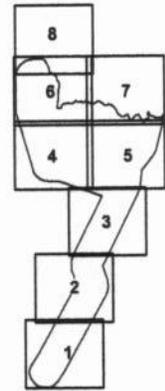


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Client:	Centrica Renewable Energy Limited		
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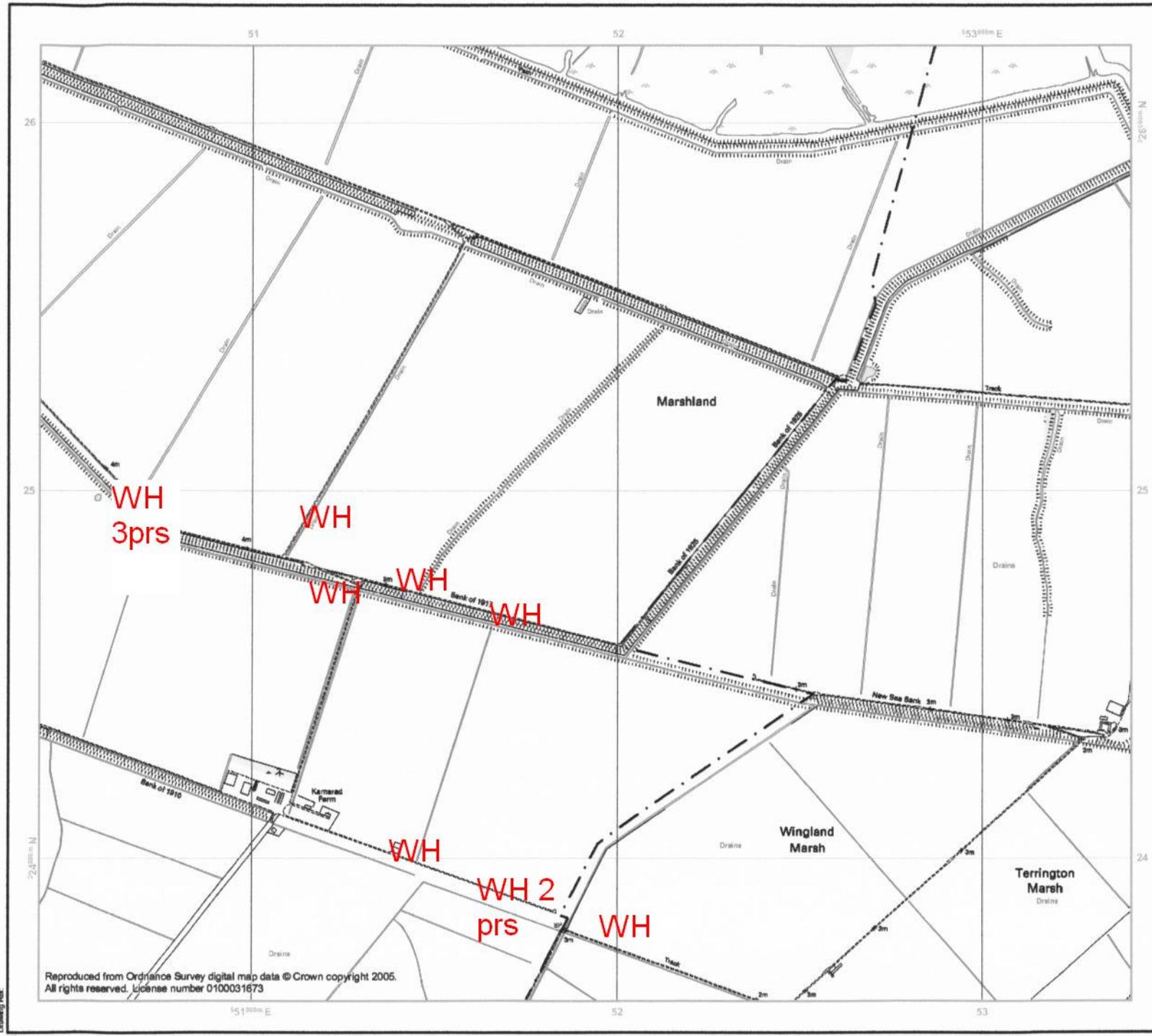
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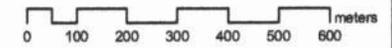
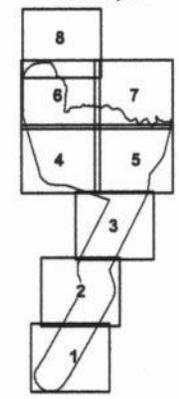
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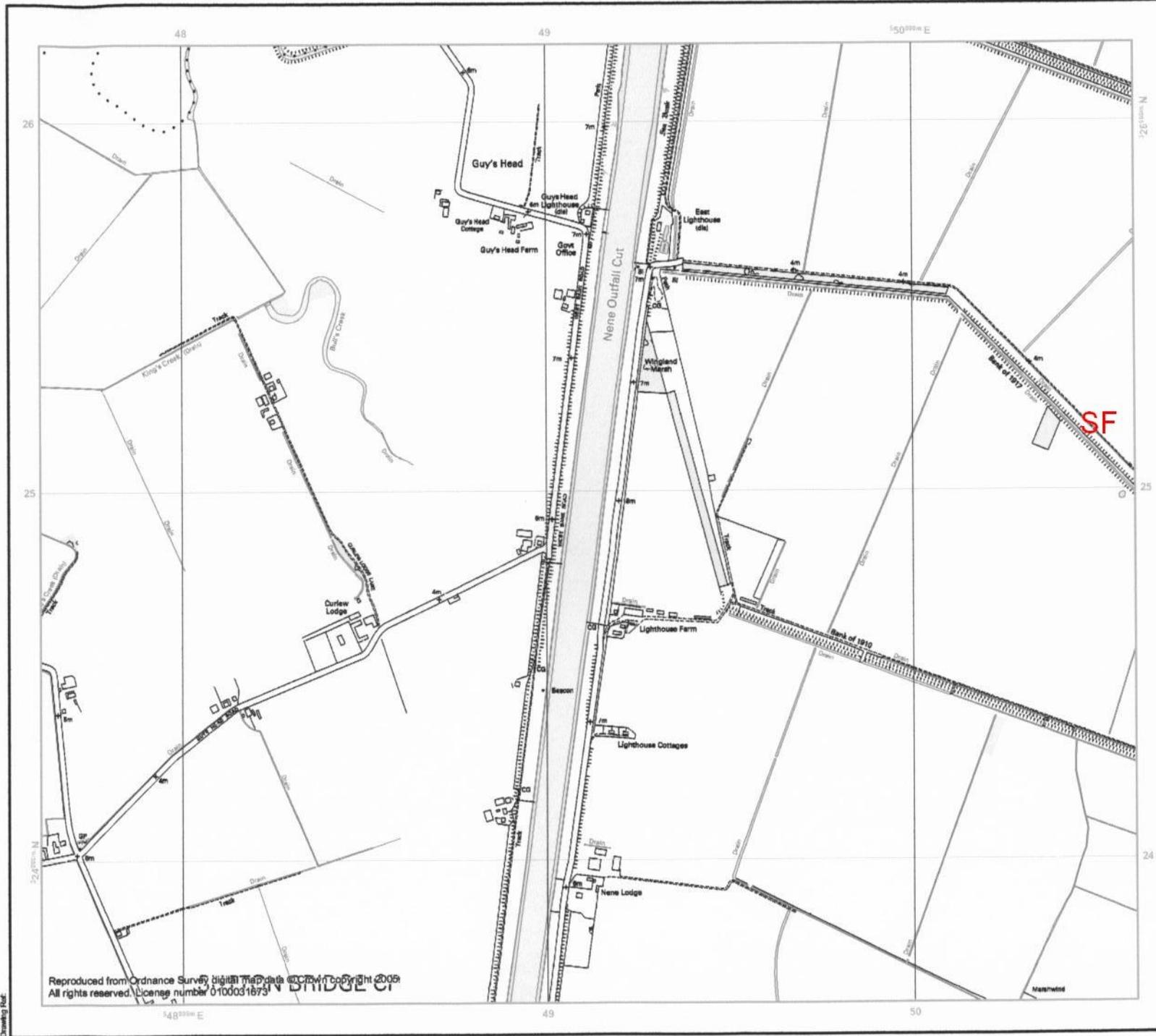
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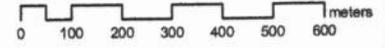
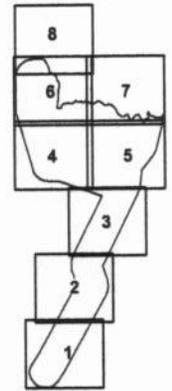
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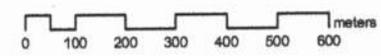
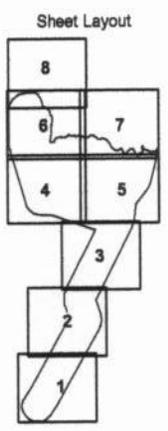
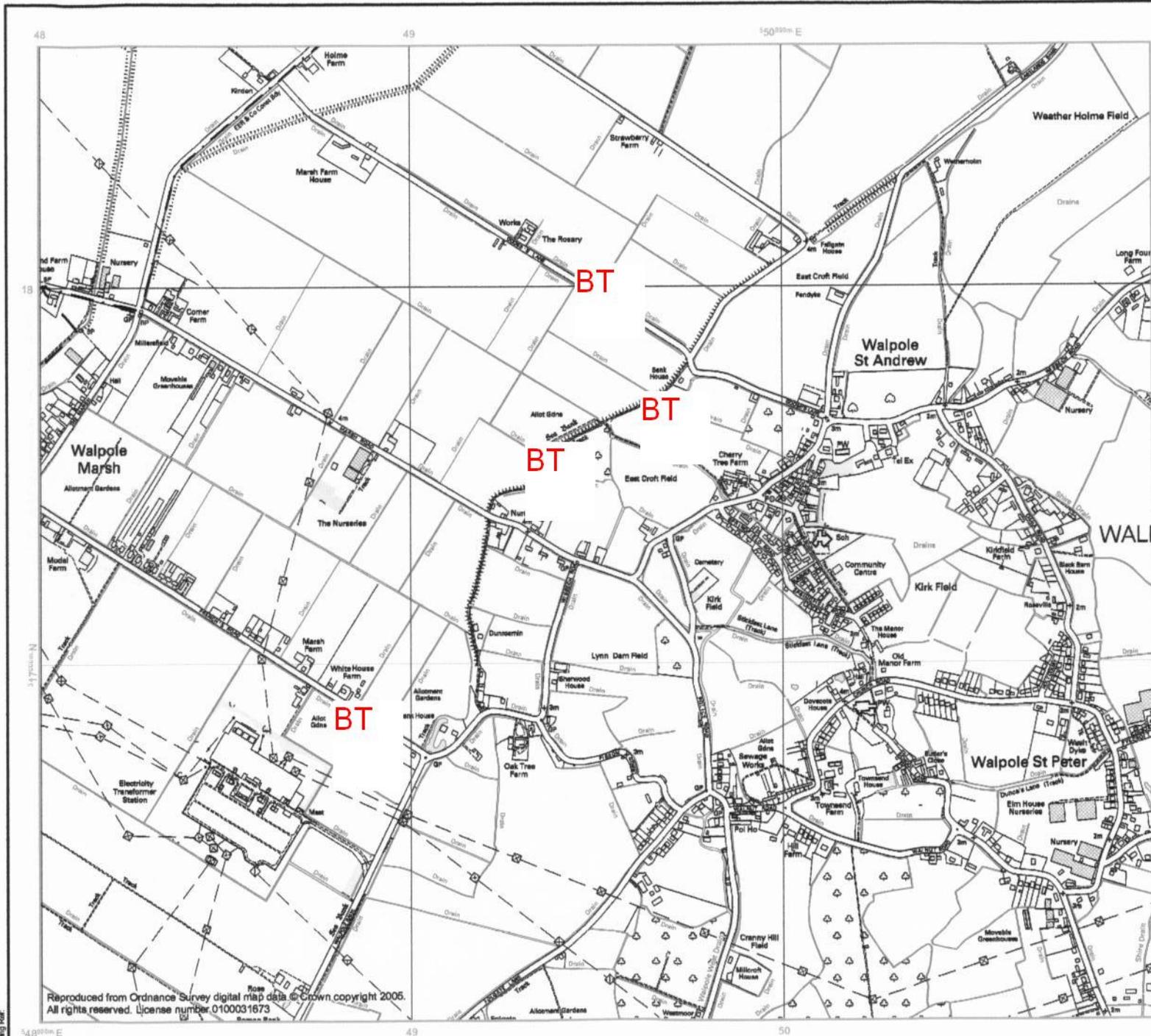
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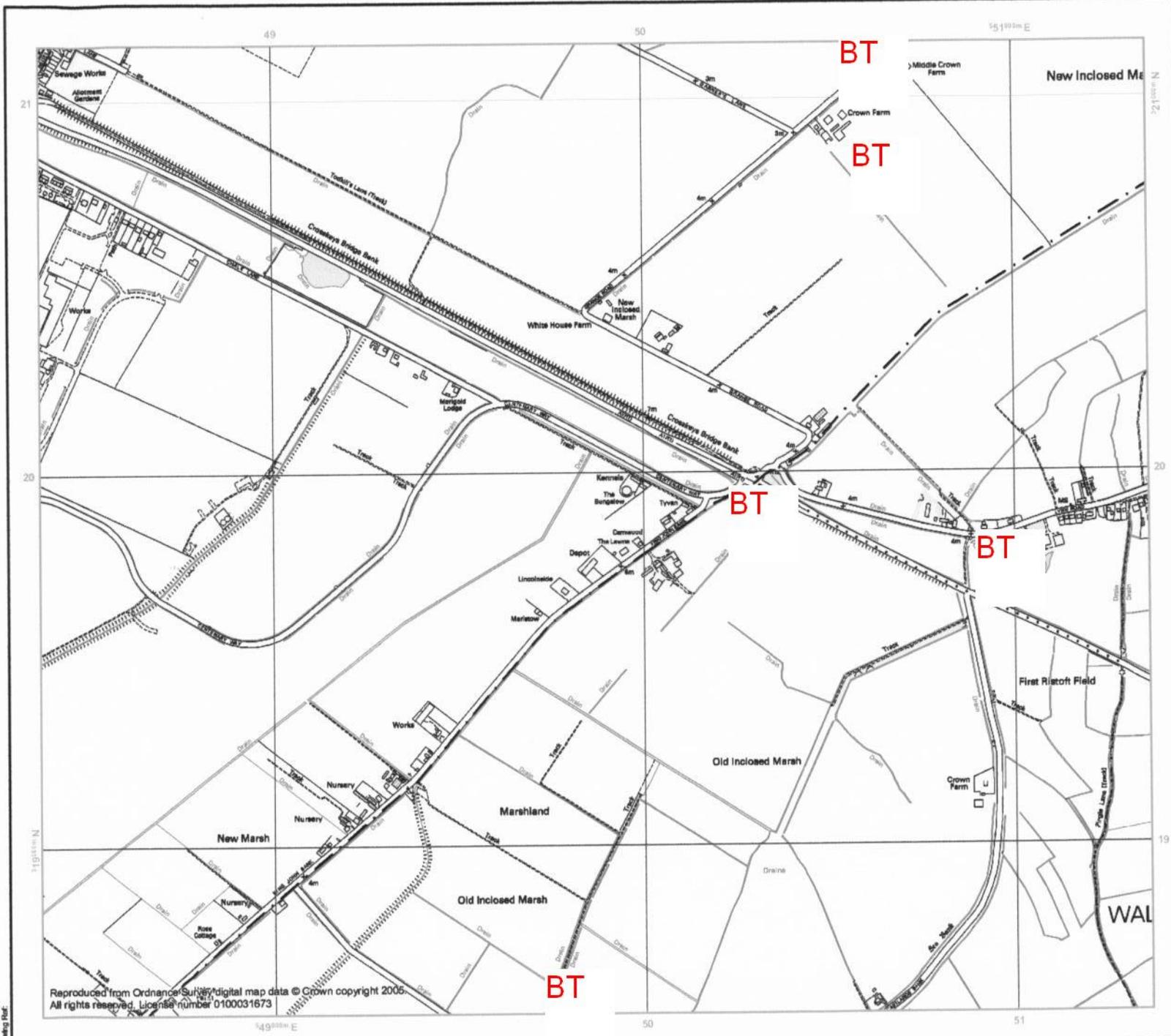
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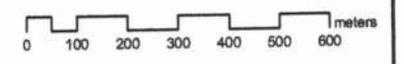
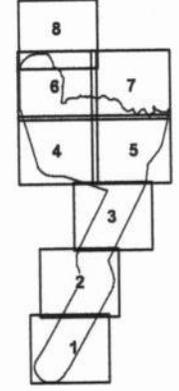
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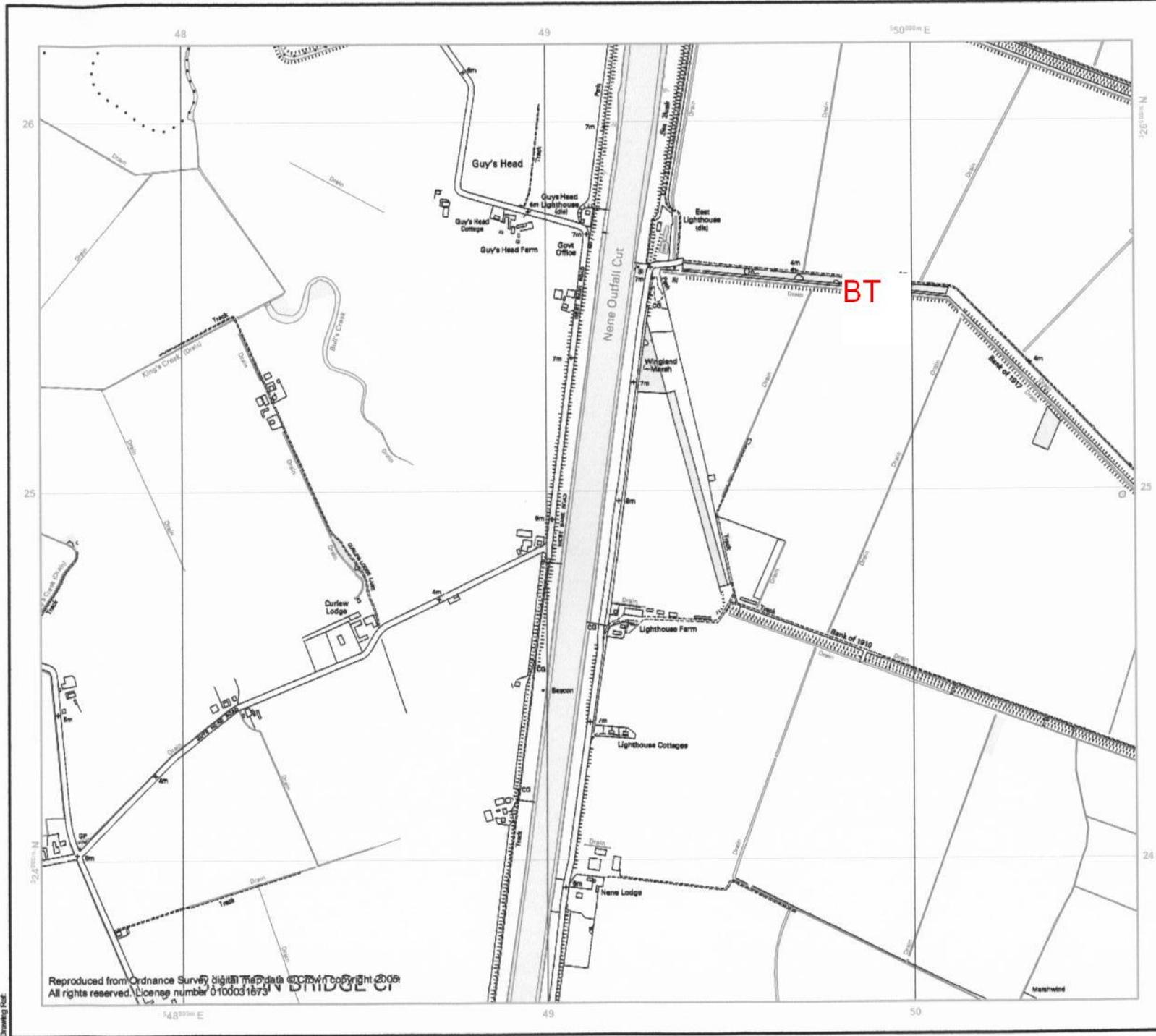
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Project:	Onshore Cable Routes Skegness and Walpole
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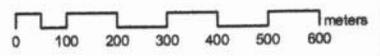
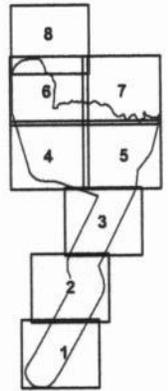
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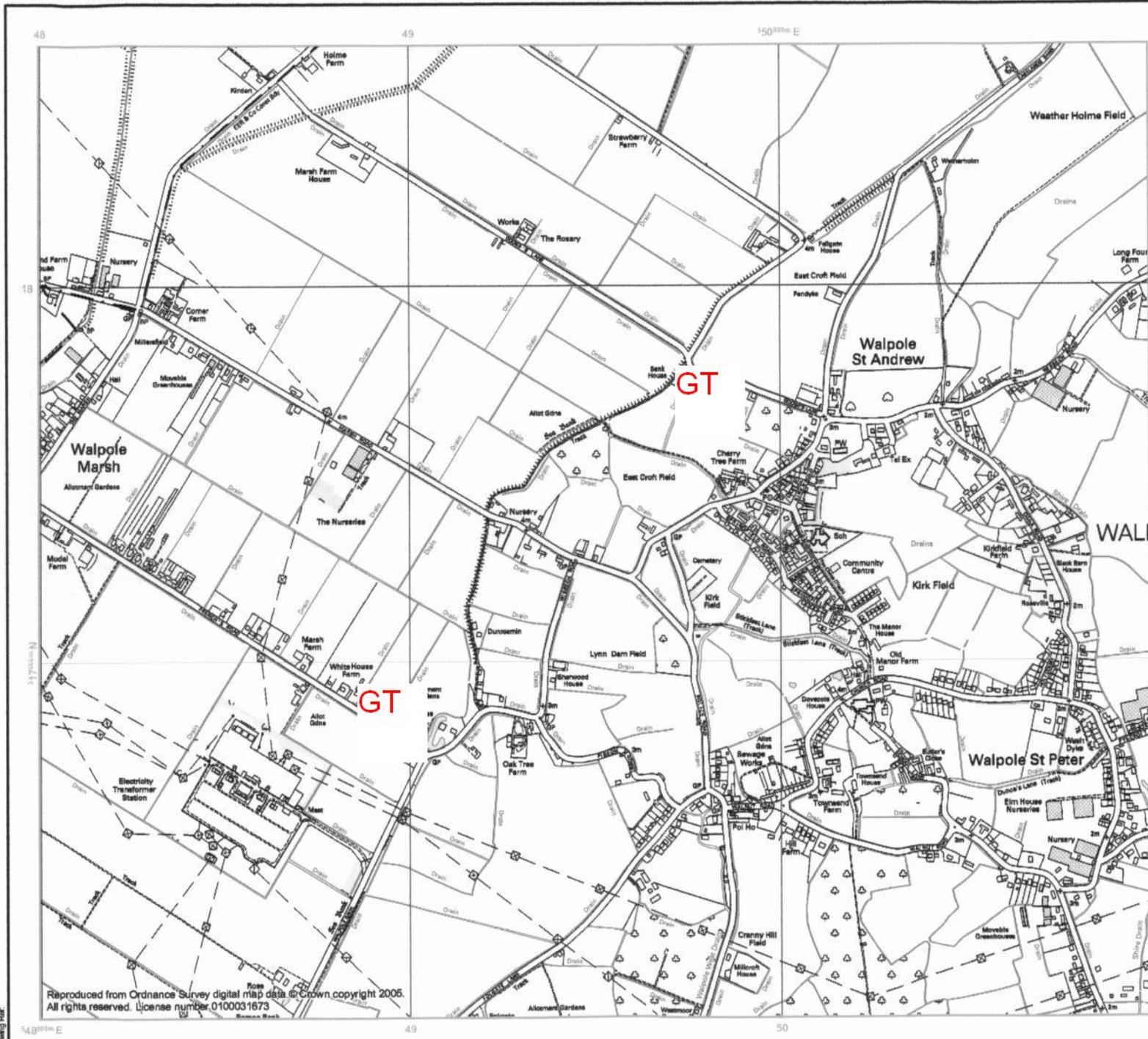
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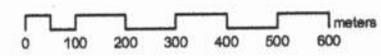
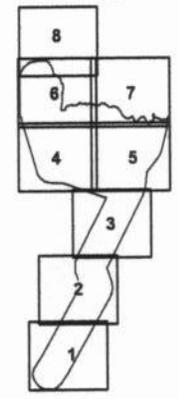
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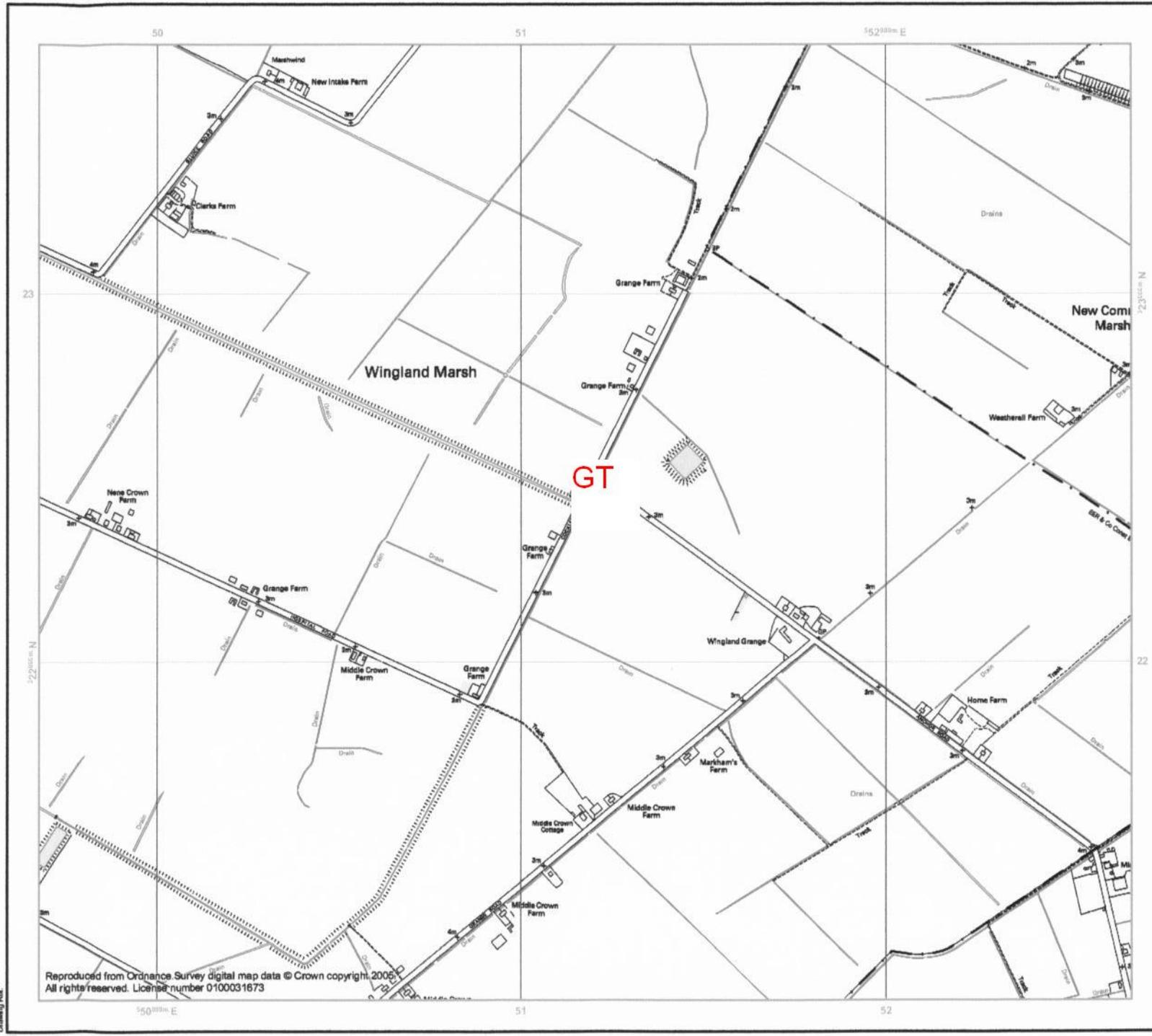
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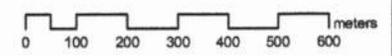
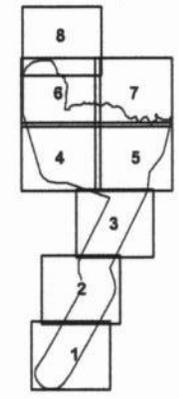
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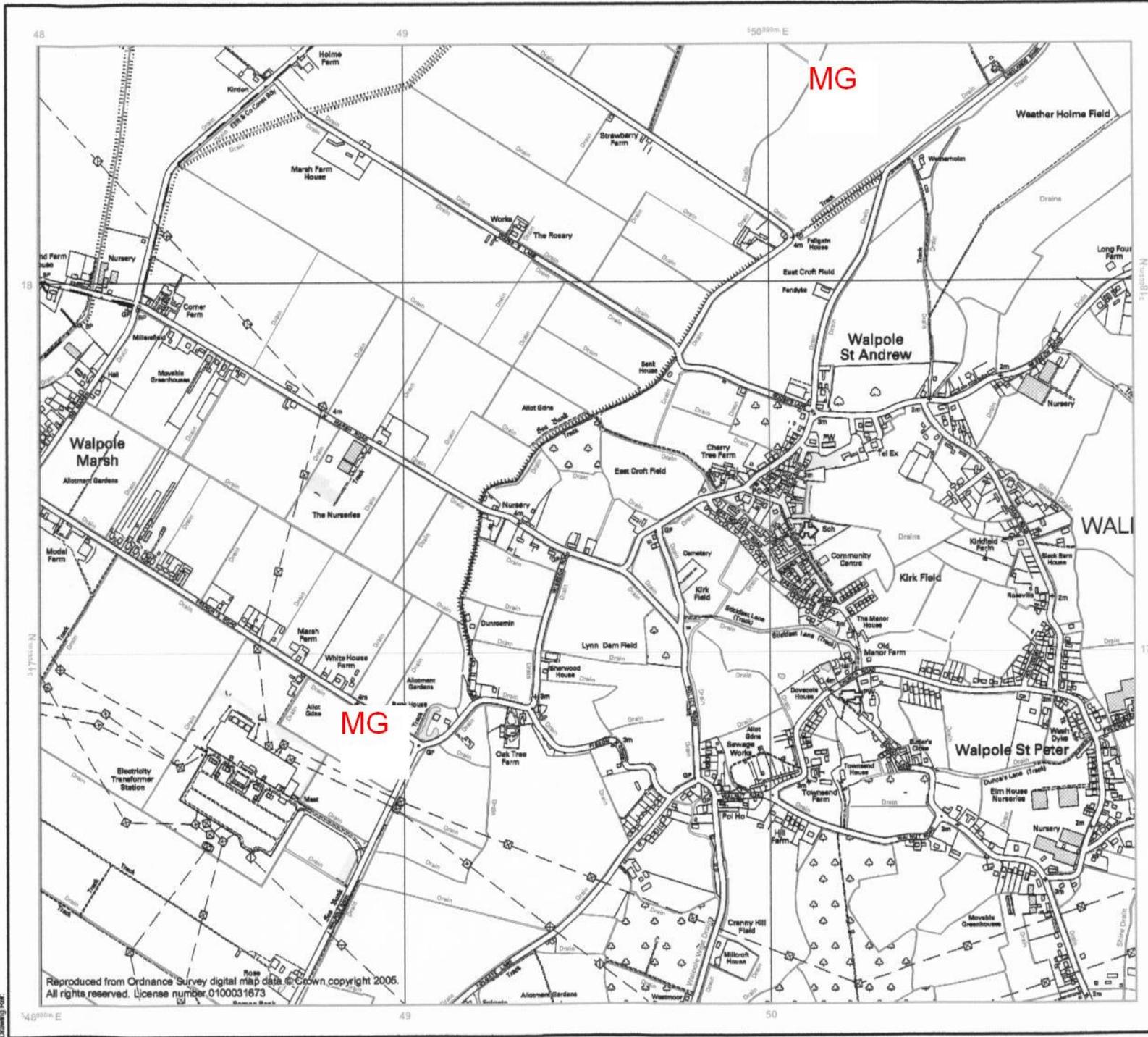


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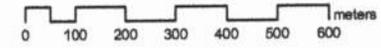
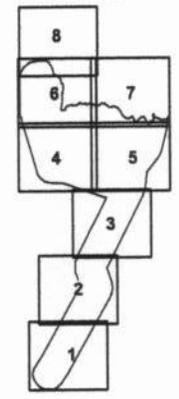


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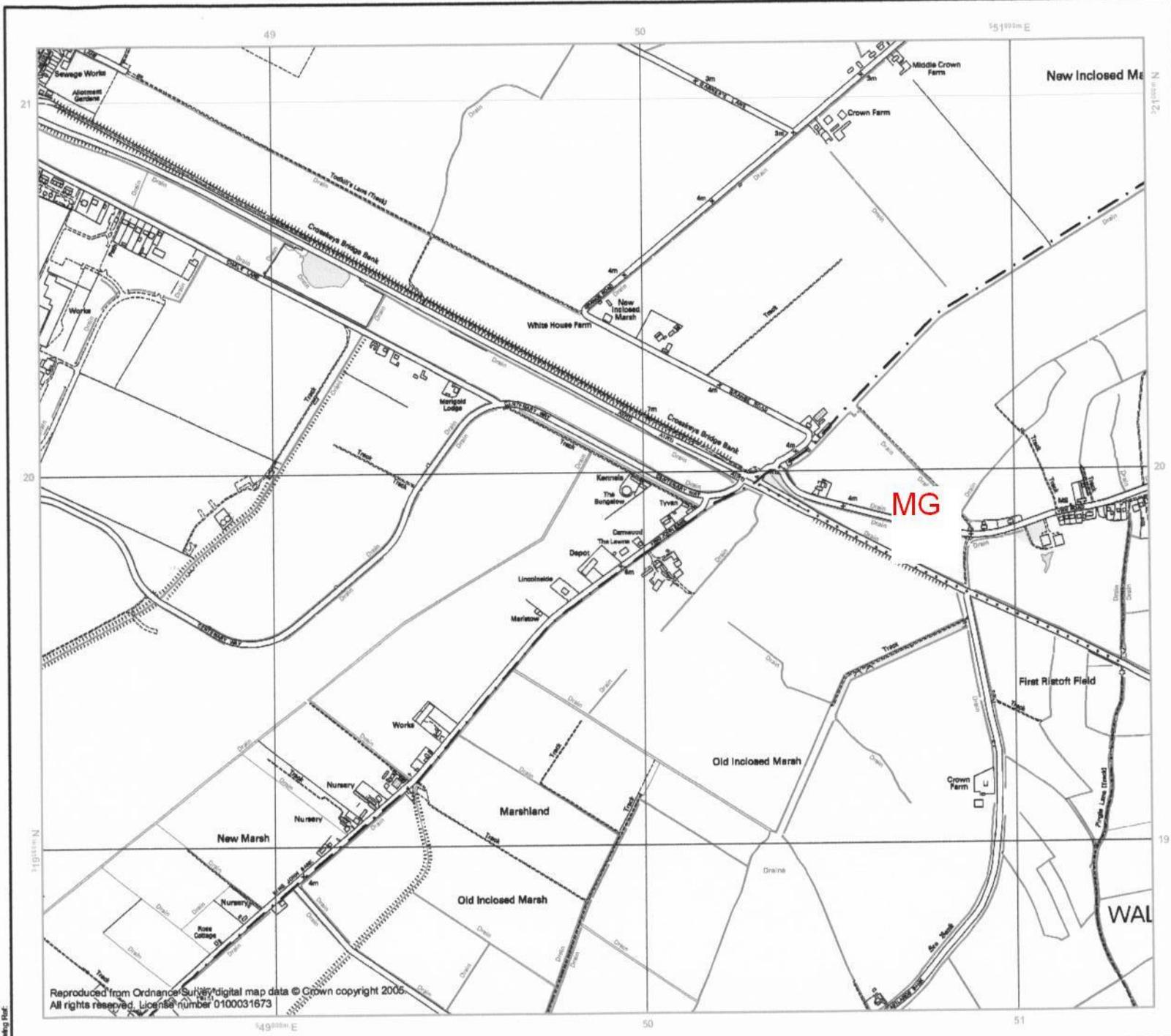
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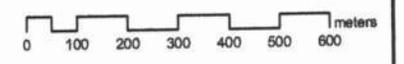
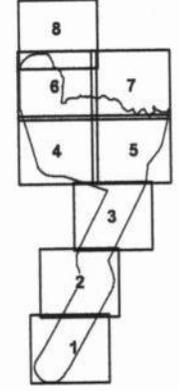
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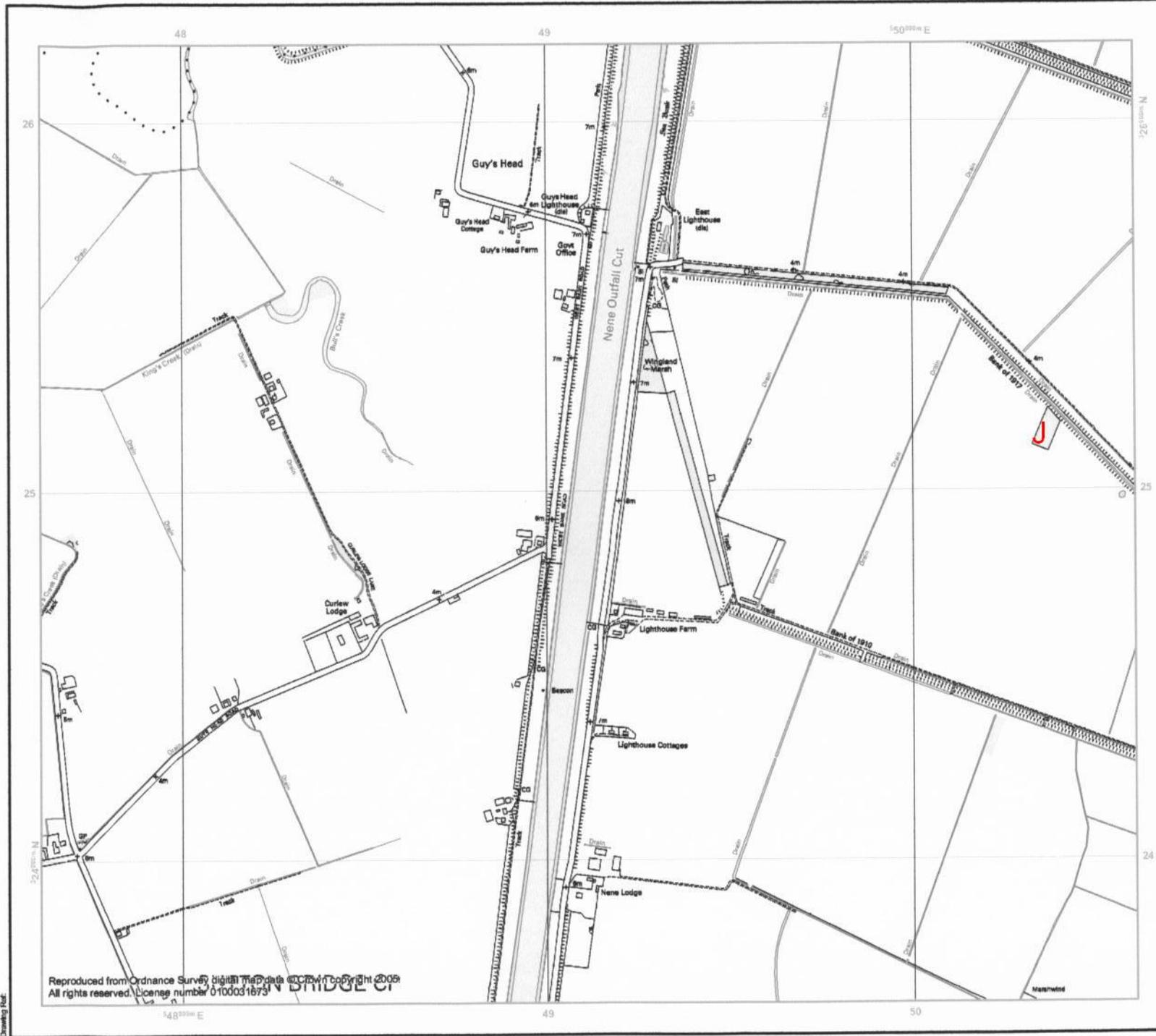


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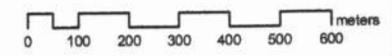
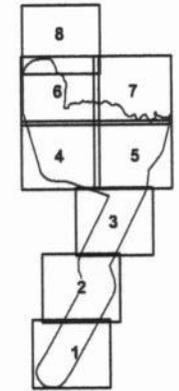
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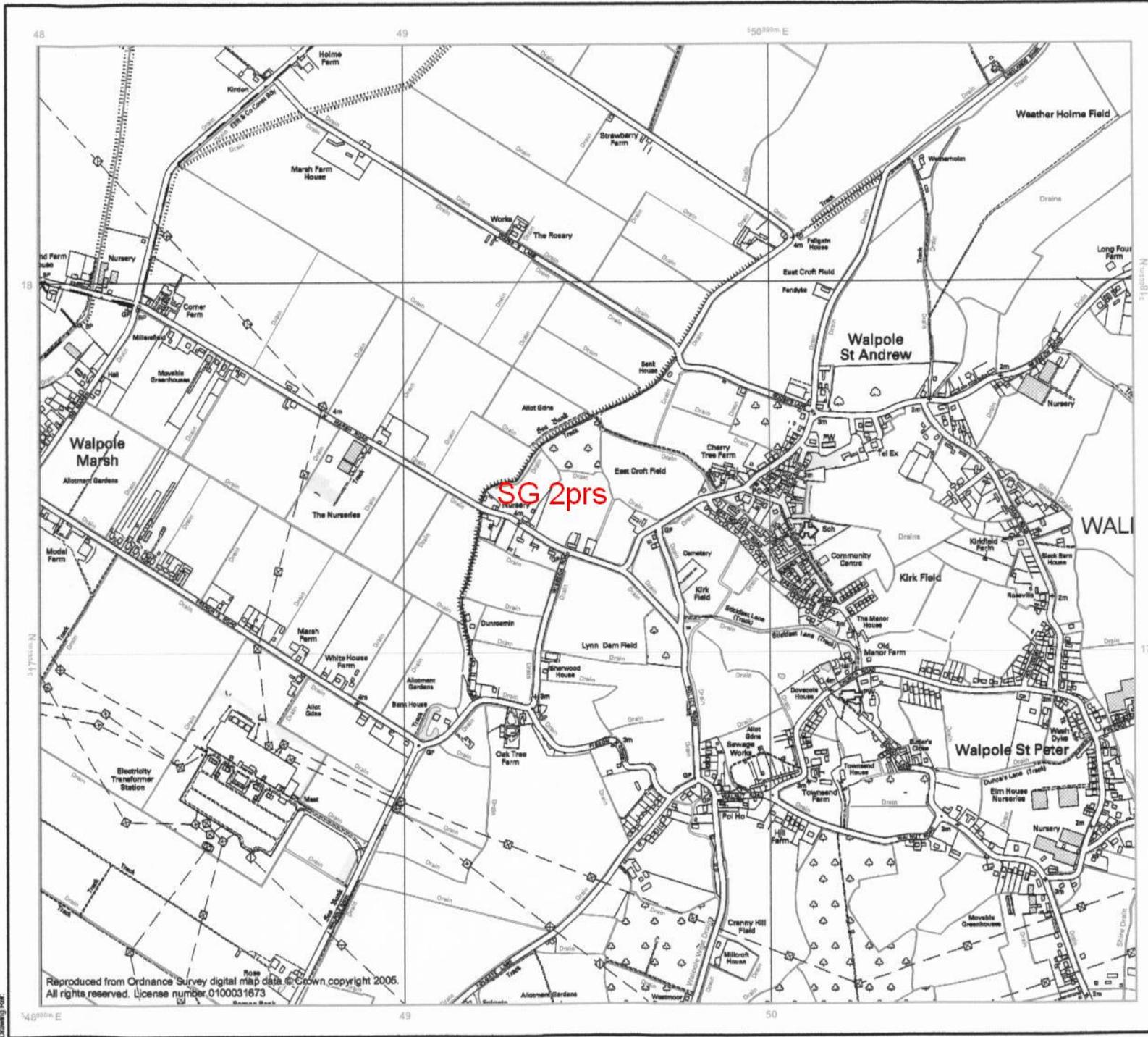
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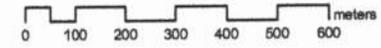
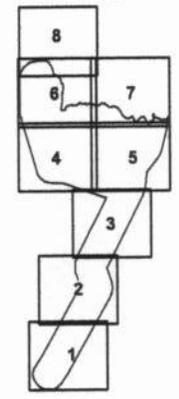
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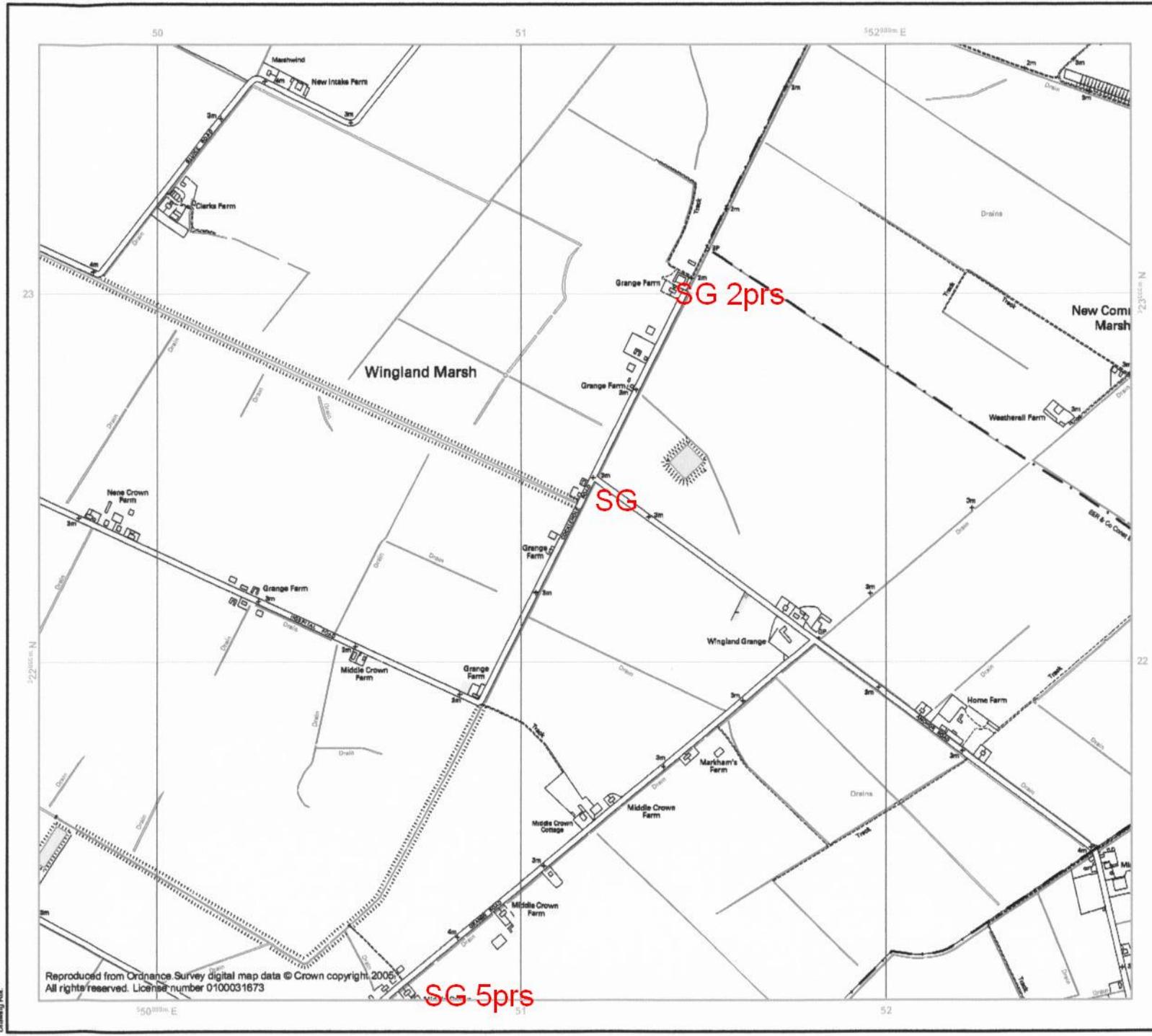
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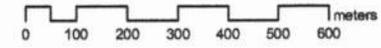
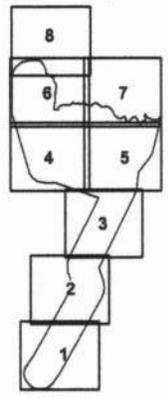
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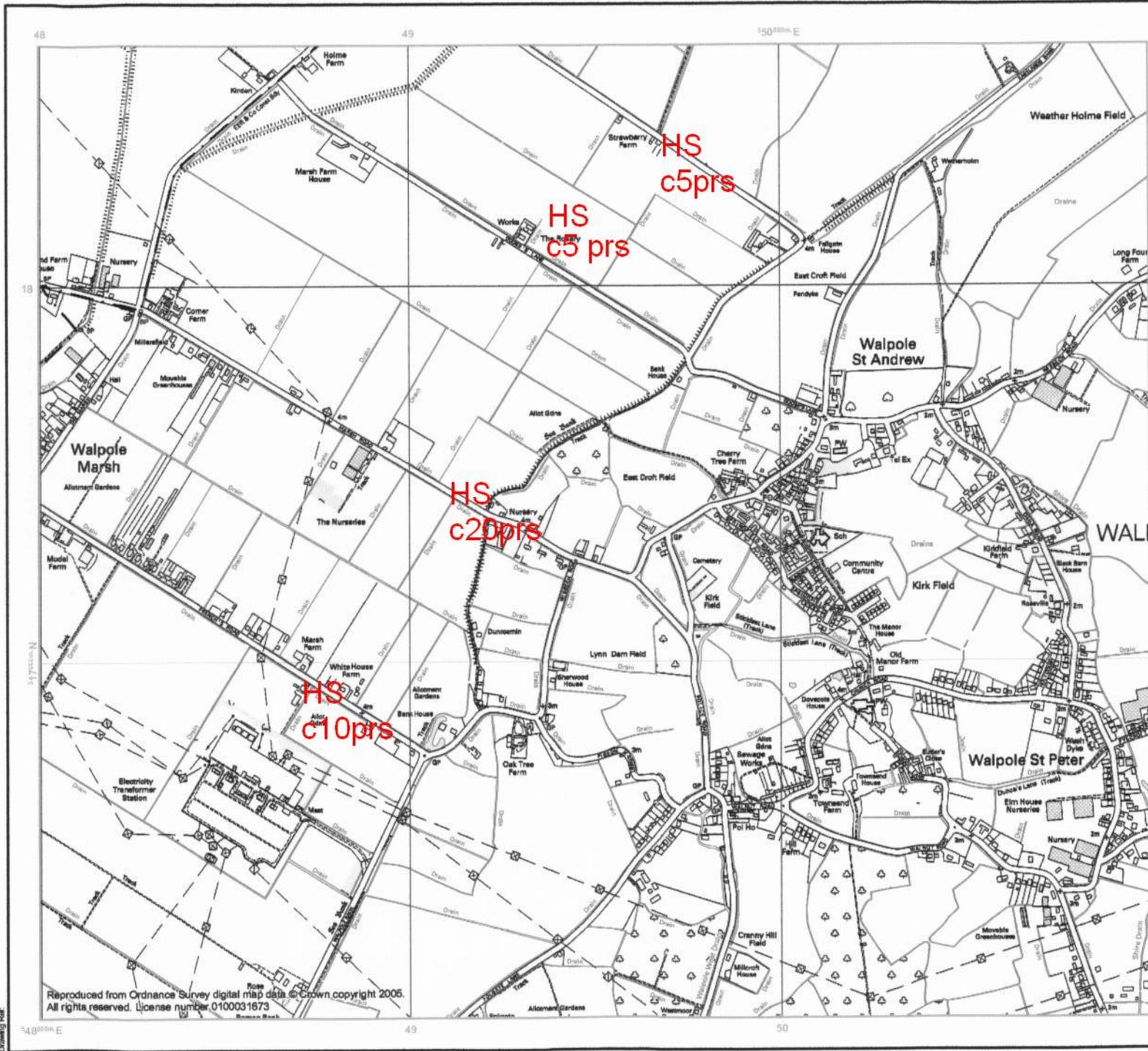
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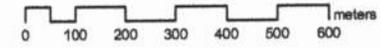
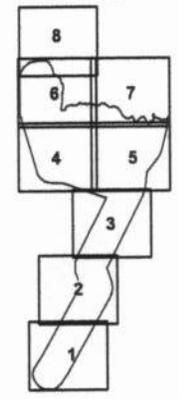
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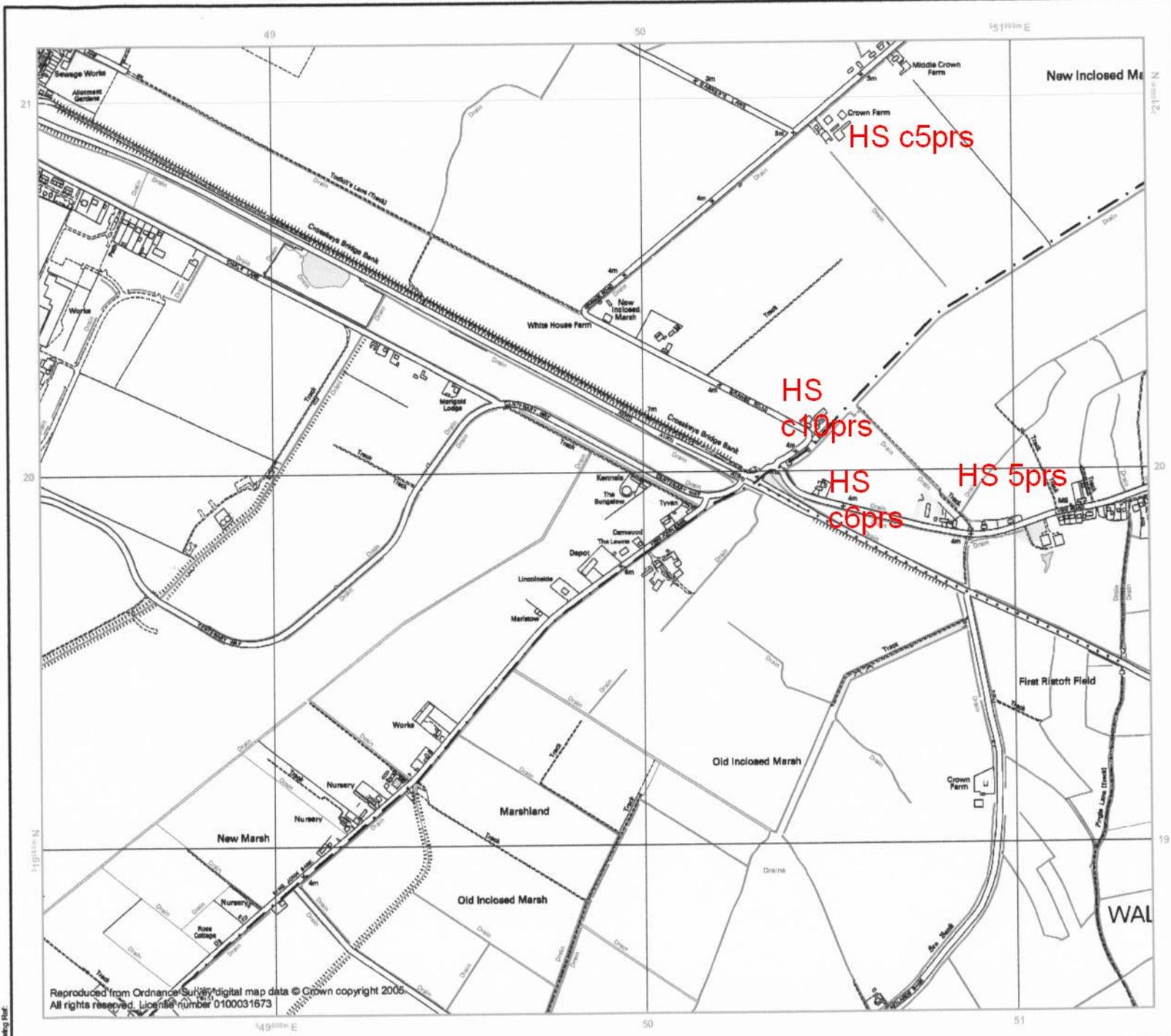
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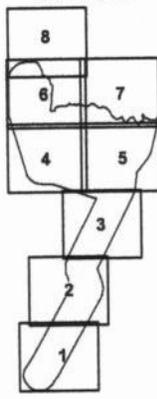
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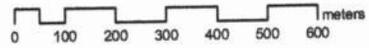


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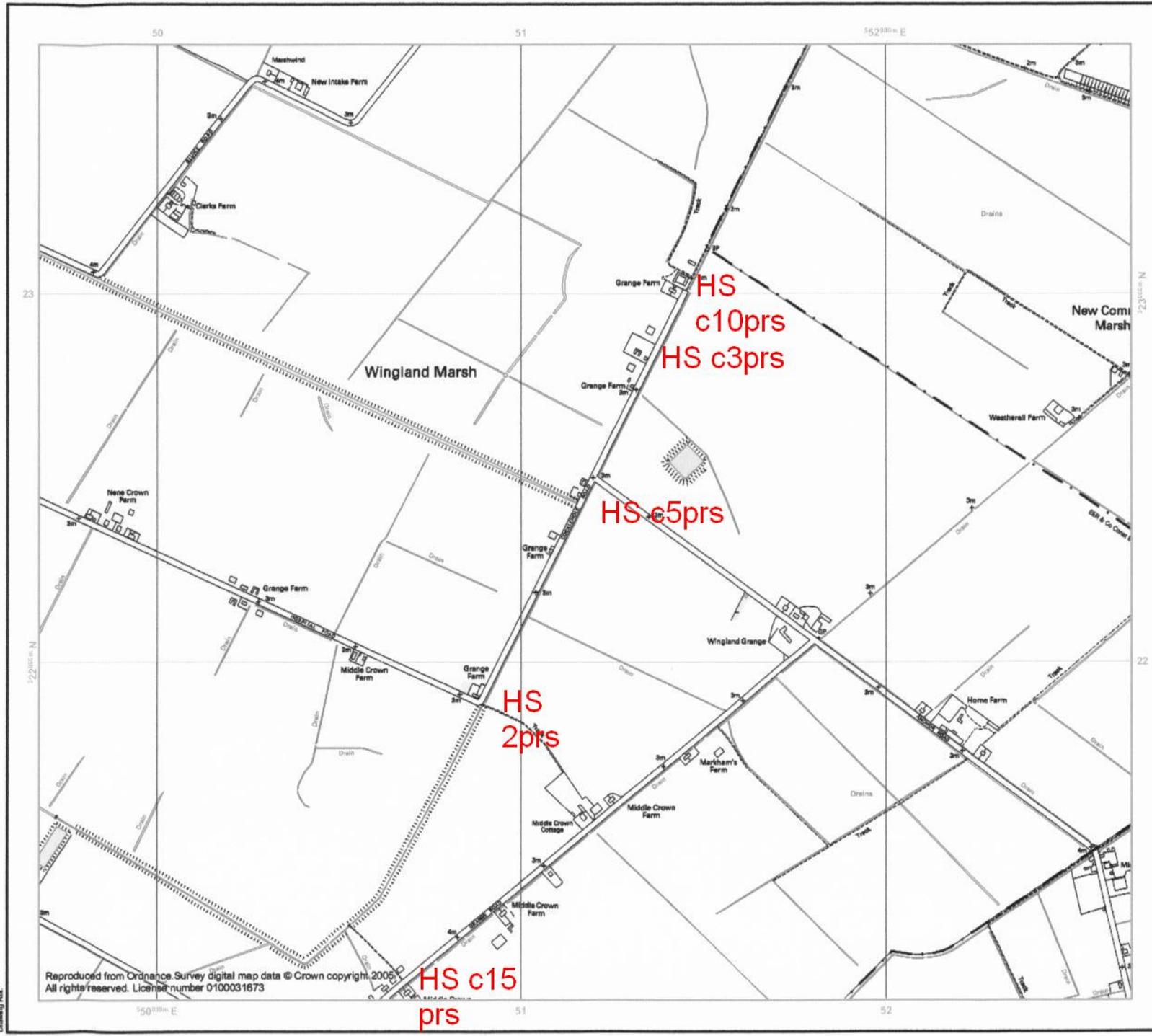


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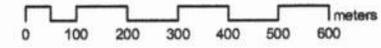
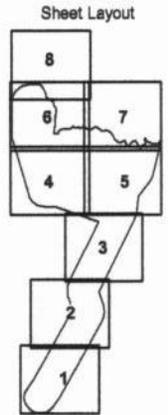
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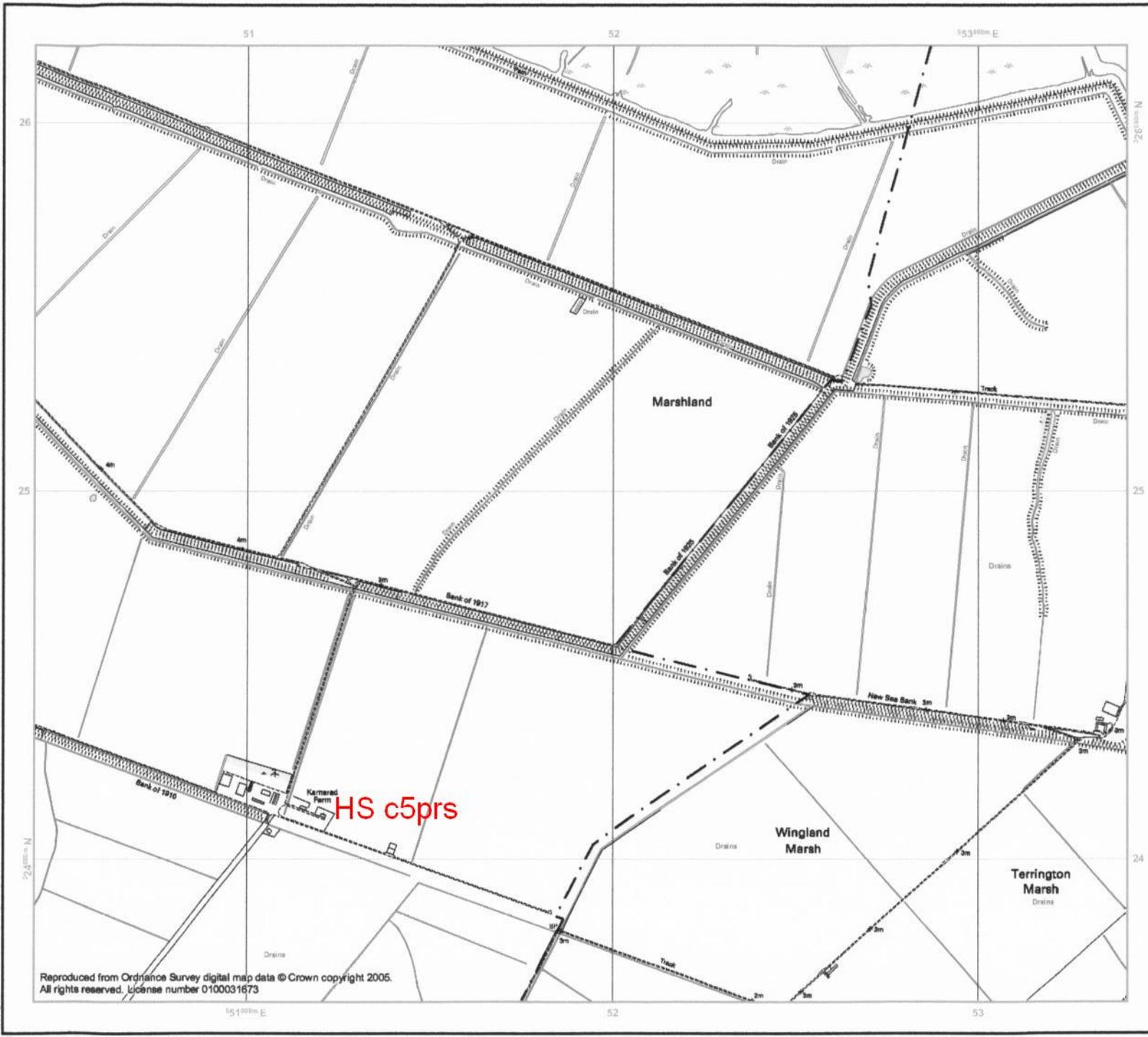
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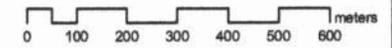
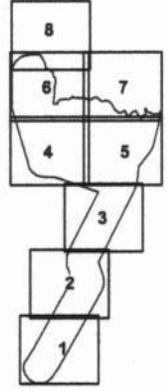
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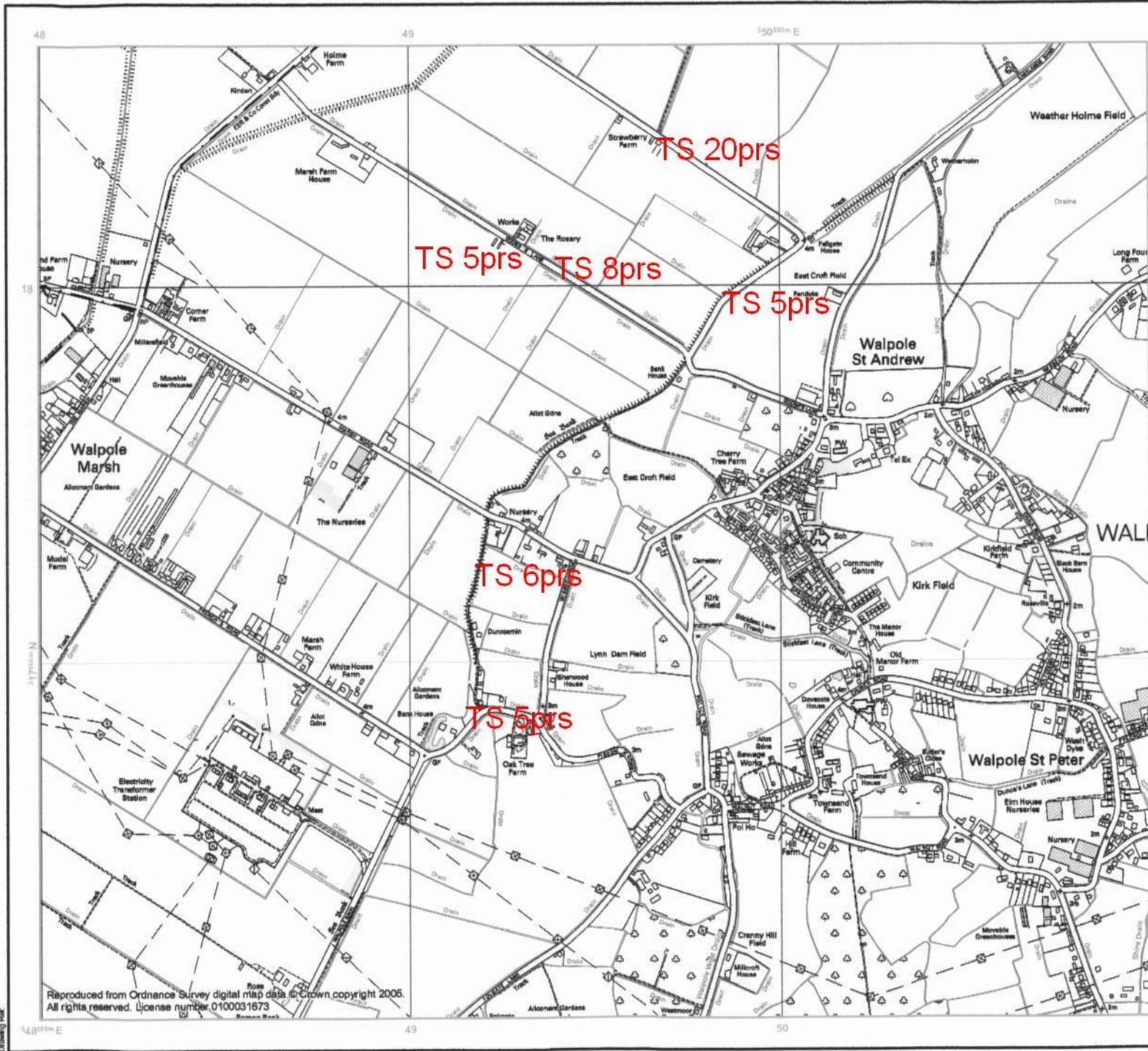
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St Ives, Cambridgeshire PE27 5JL
T 01480 466335 F 01480 466911 E rps@rpsgroup.com

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Project:	Onshore Cable Routes Skegness and Walpole		
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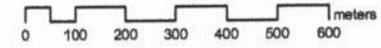
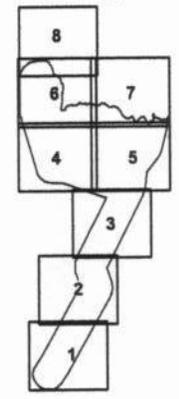
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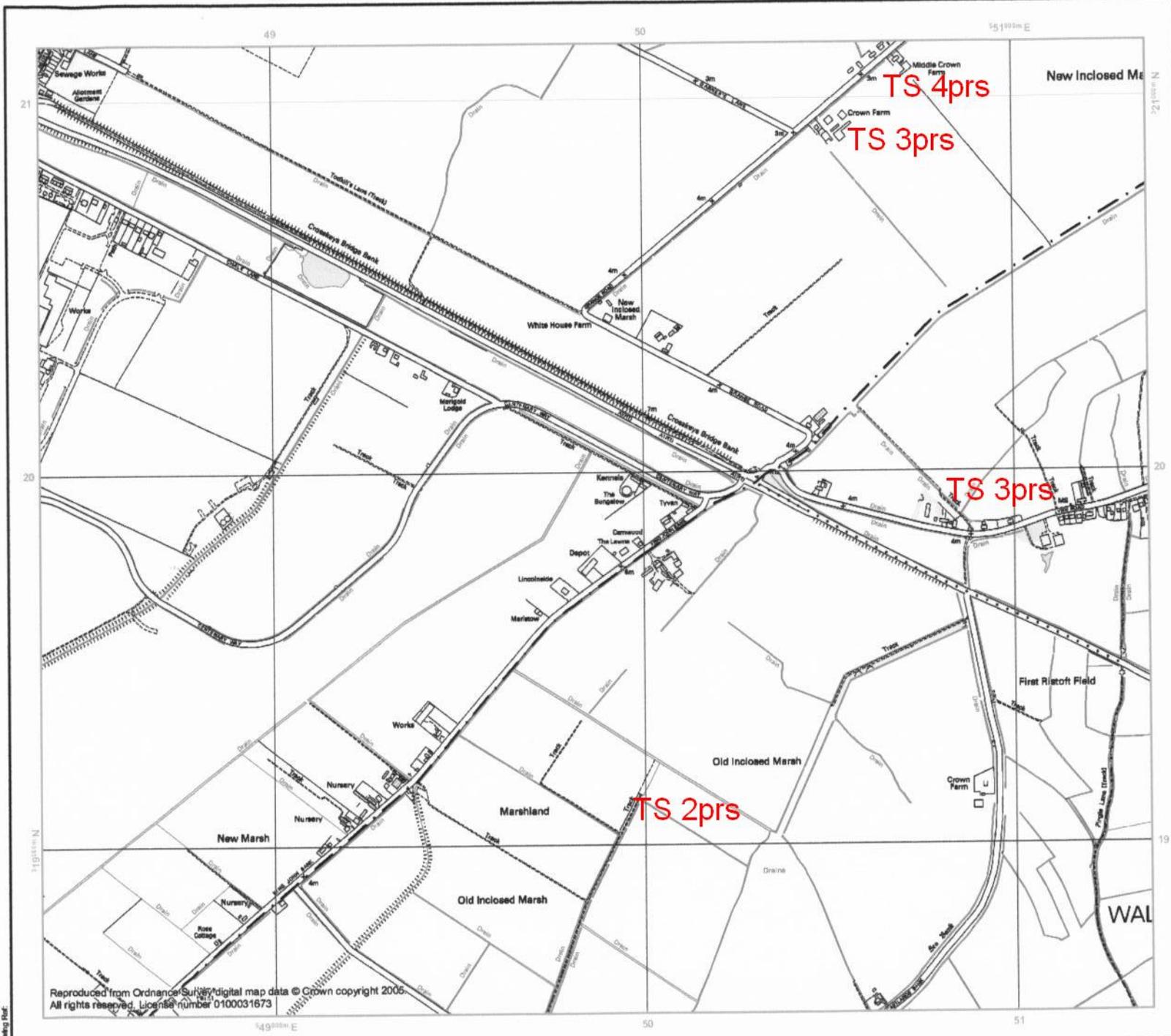
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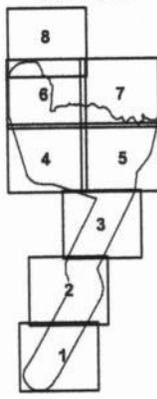
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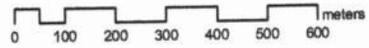


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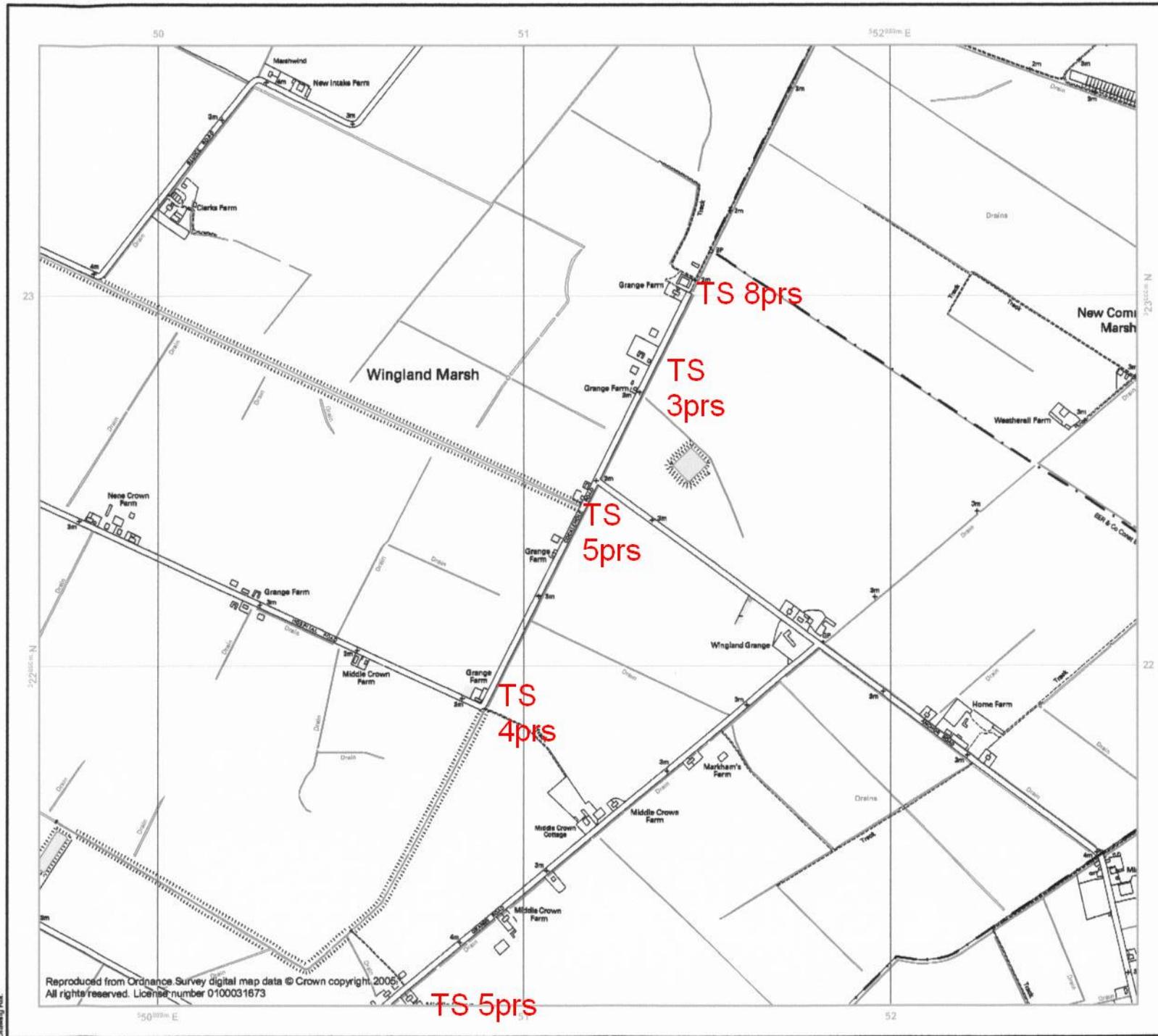




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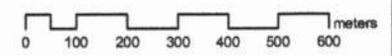
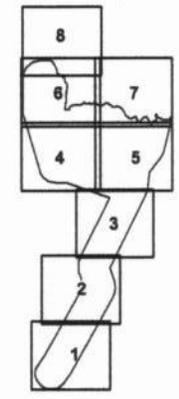
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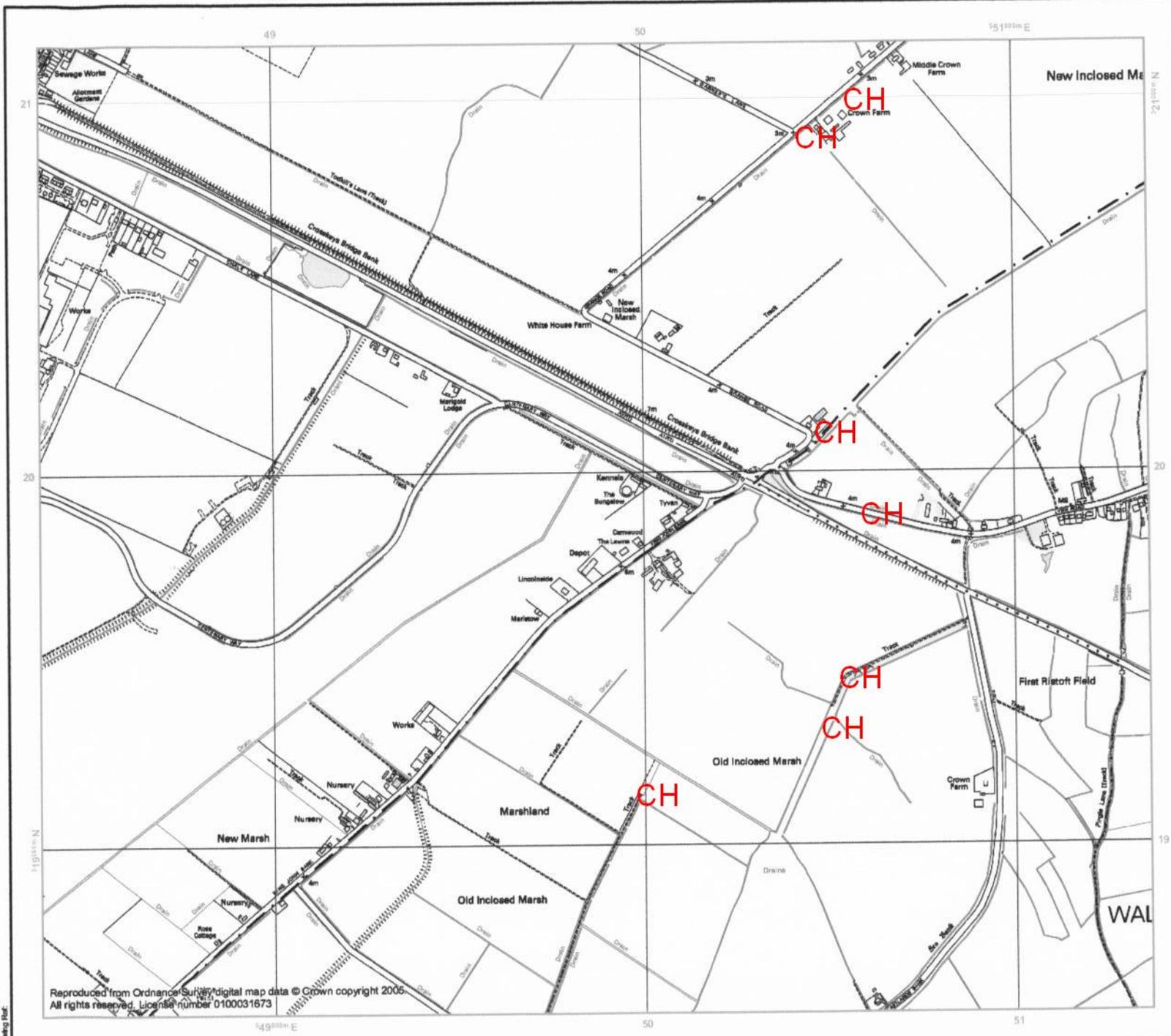
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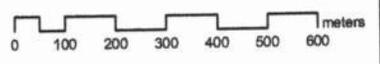
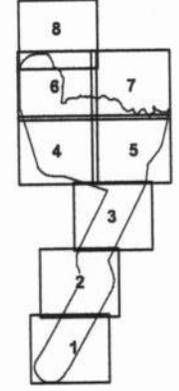
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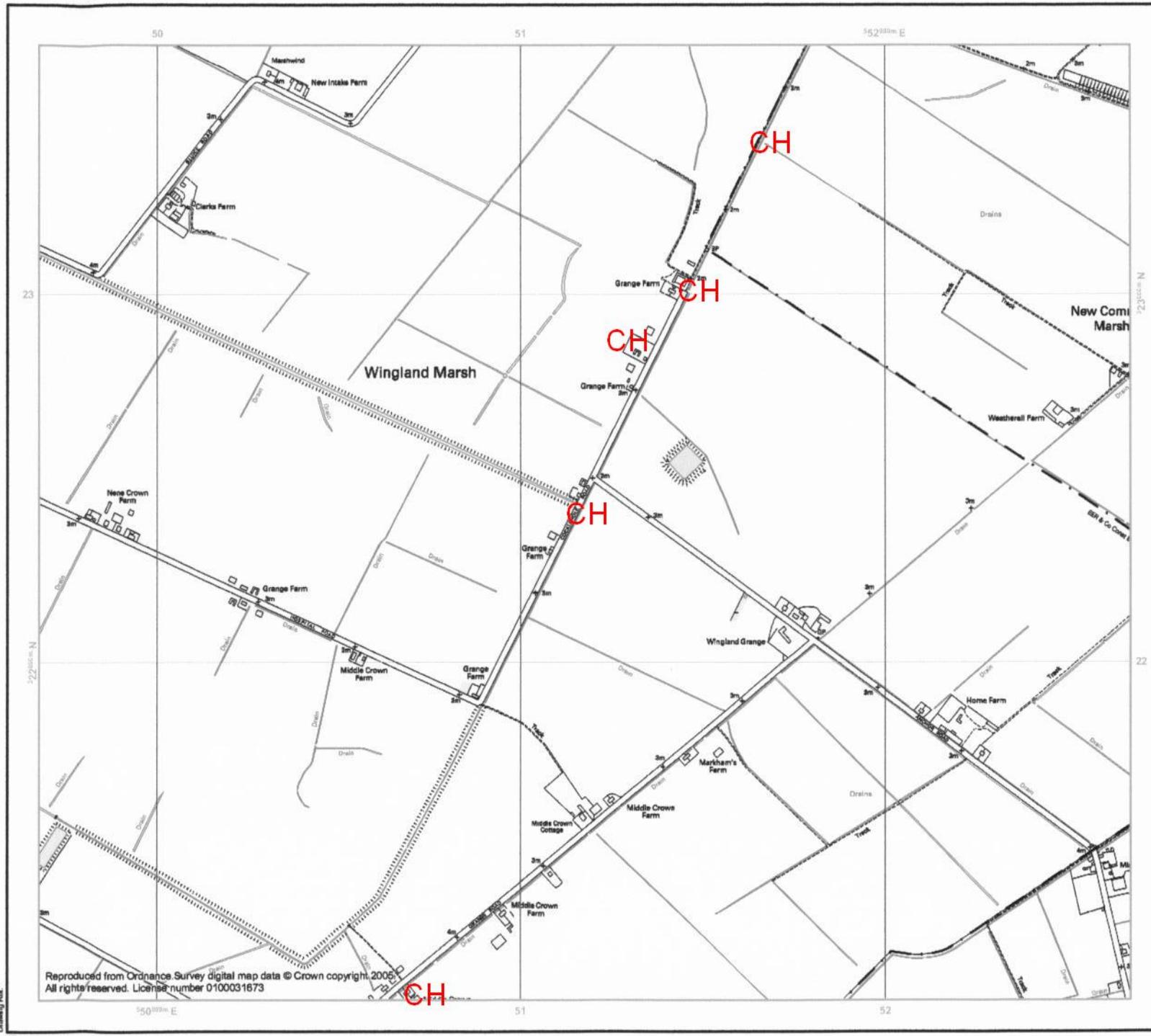
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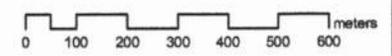
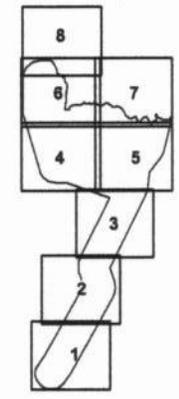
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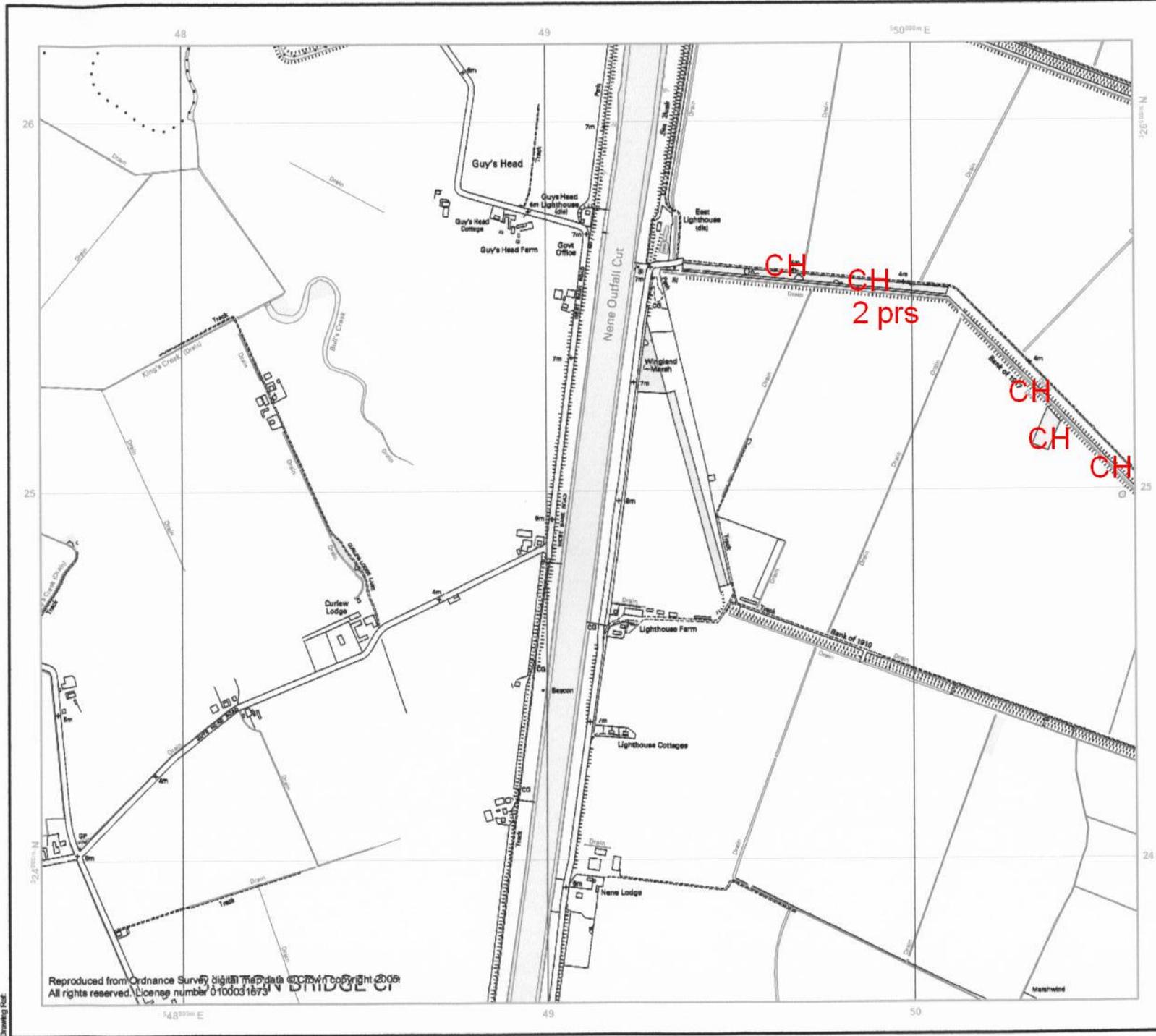


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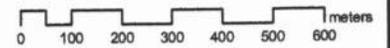
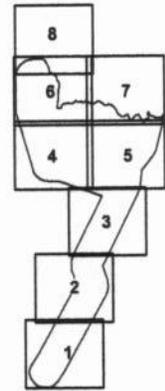
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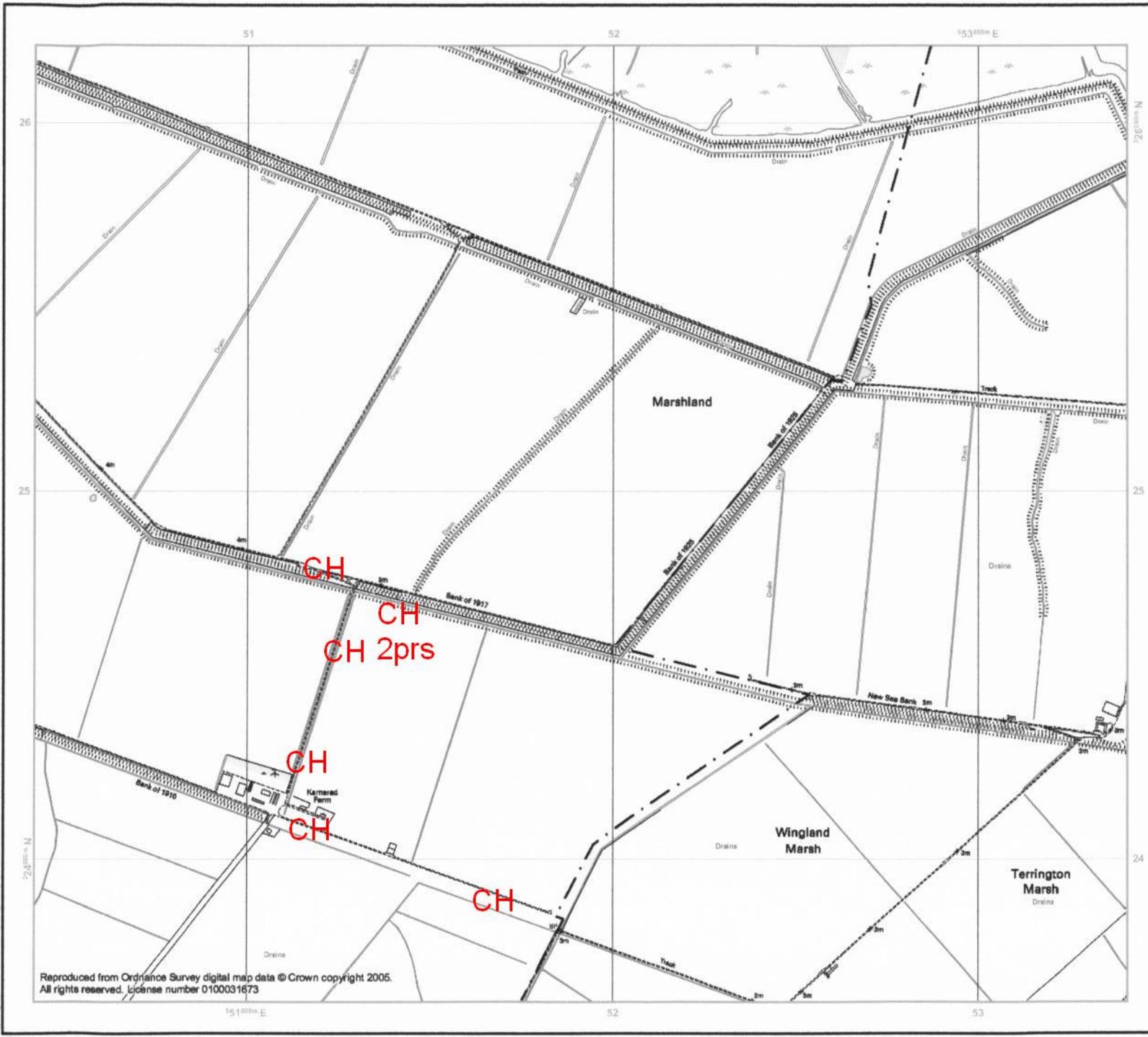
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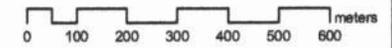
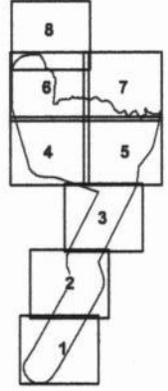
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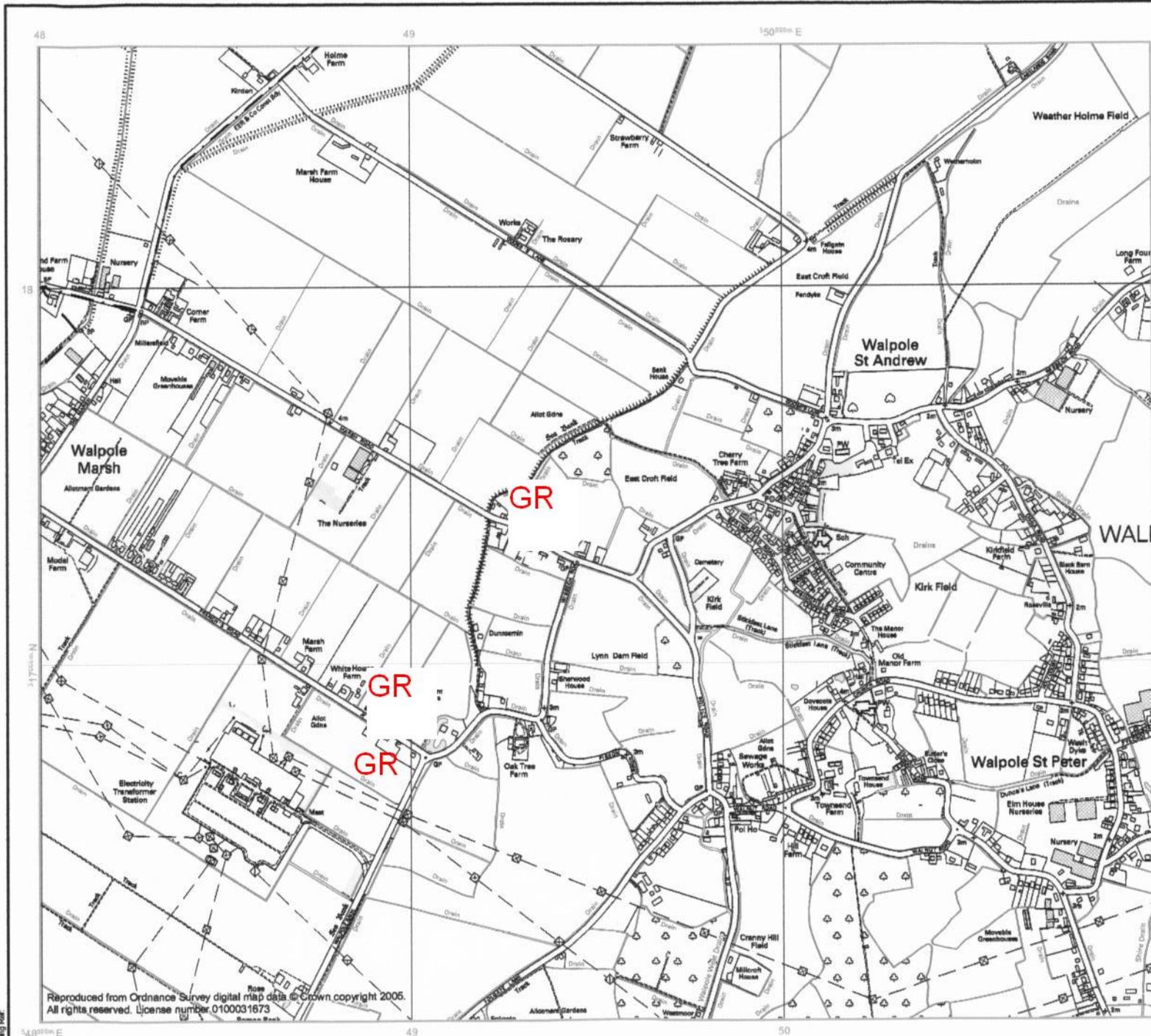
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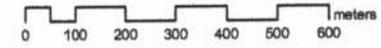
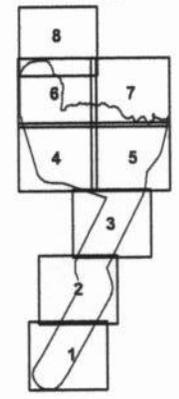
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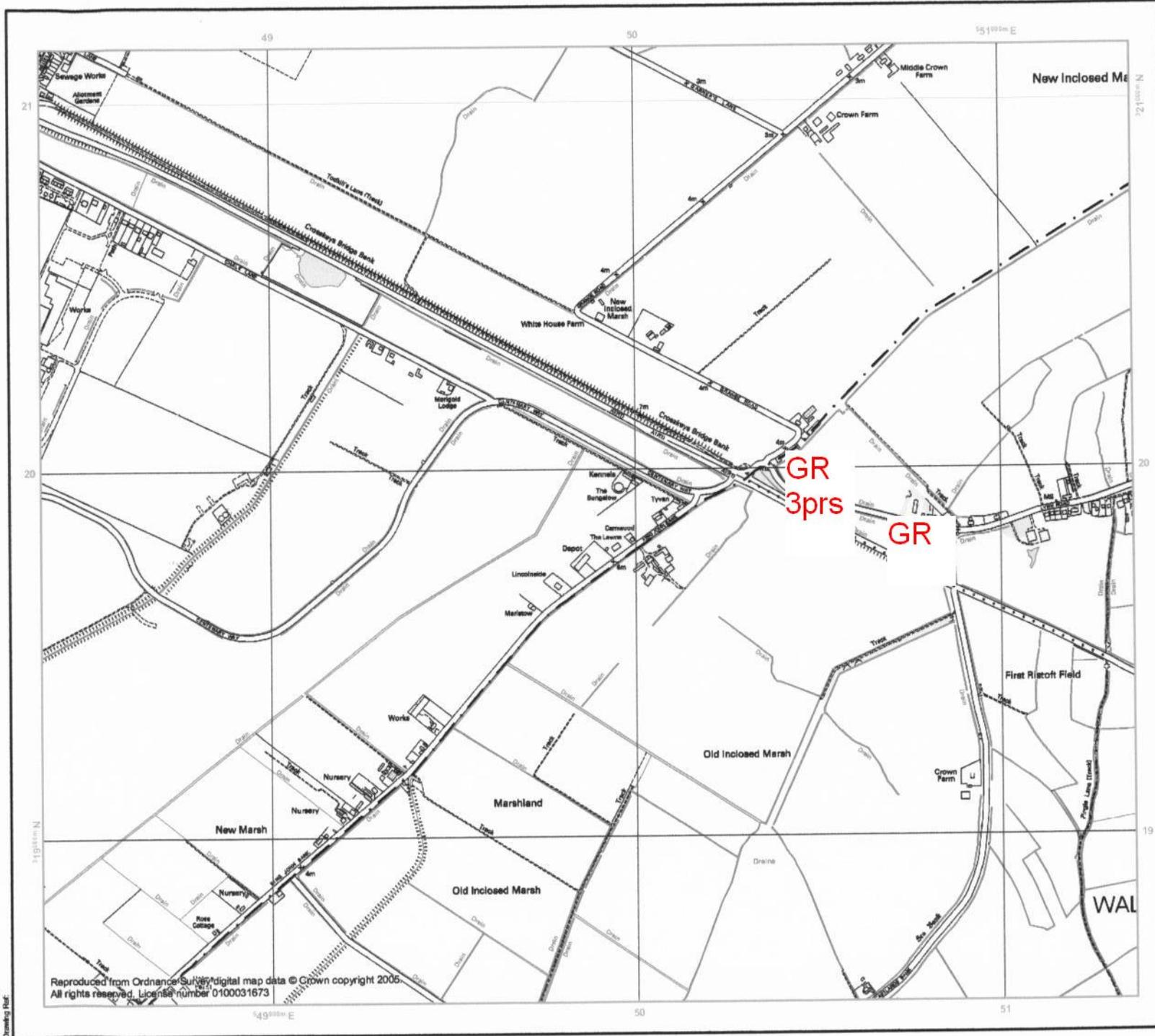
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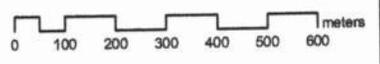
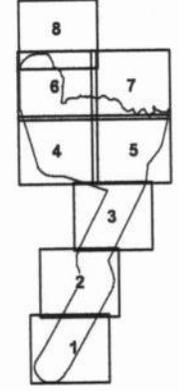
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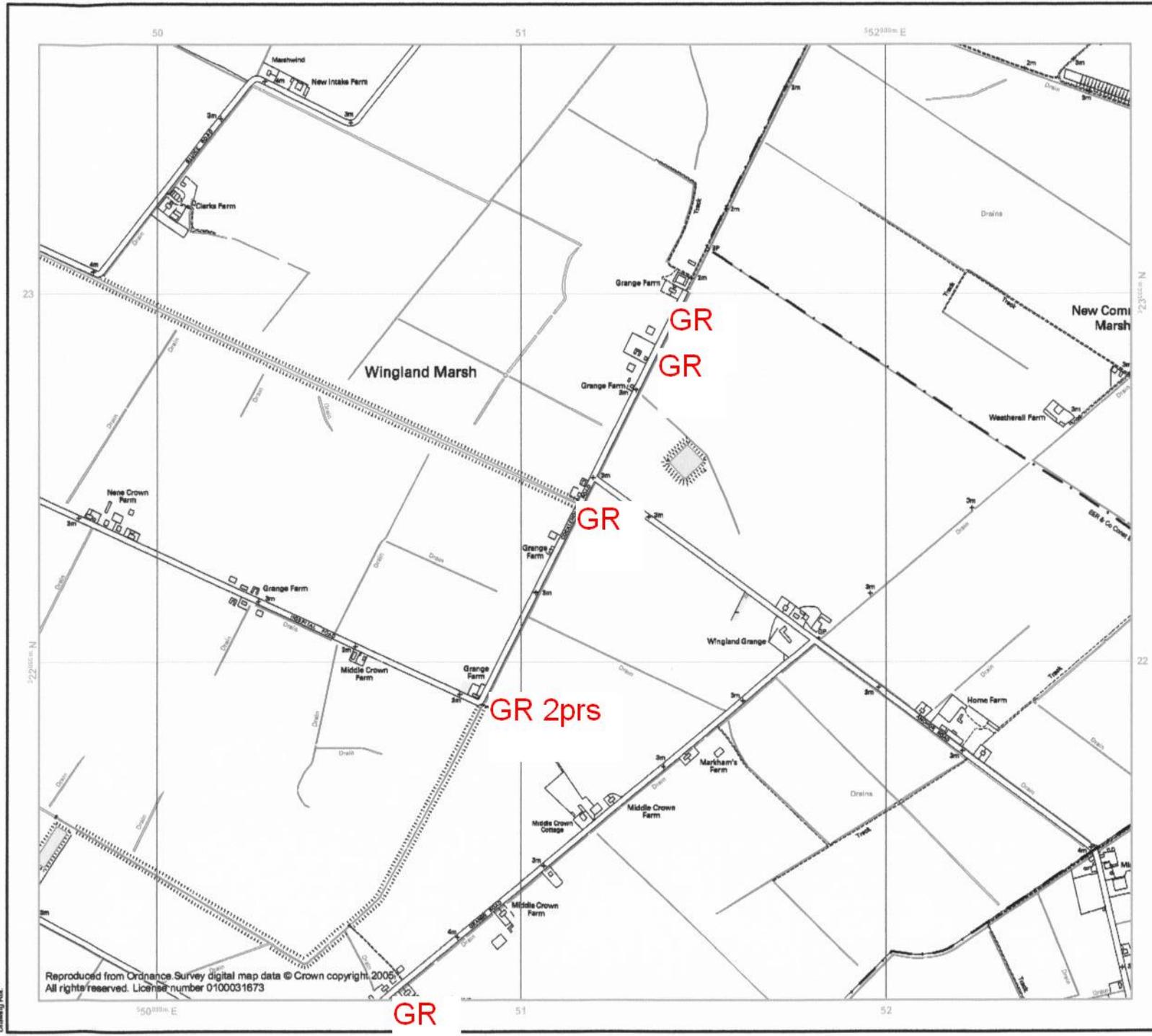
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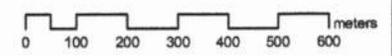
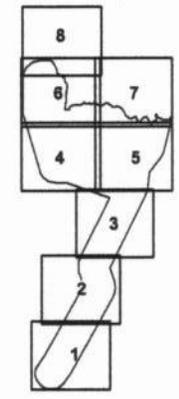
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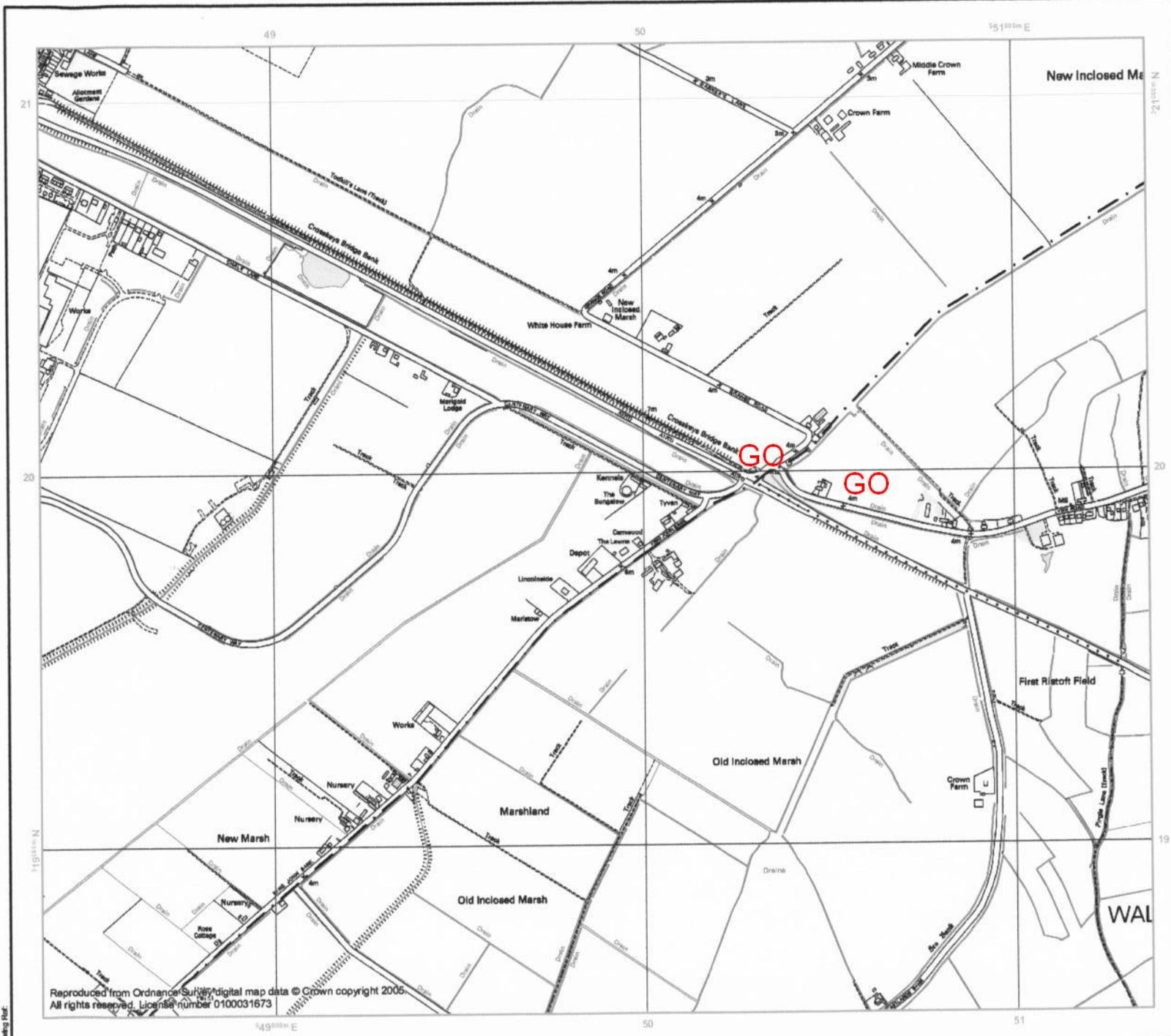


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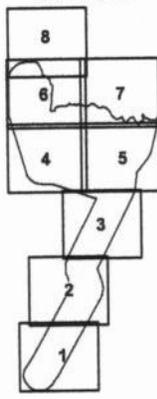
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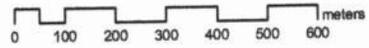


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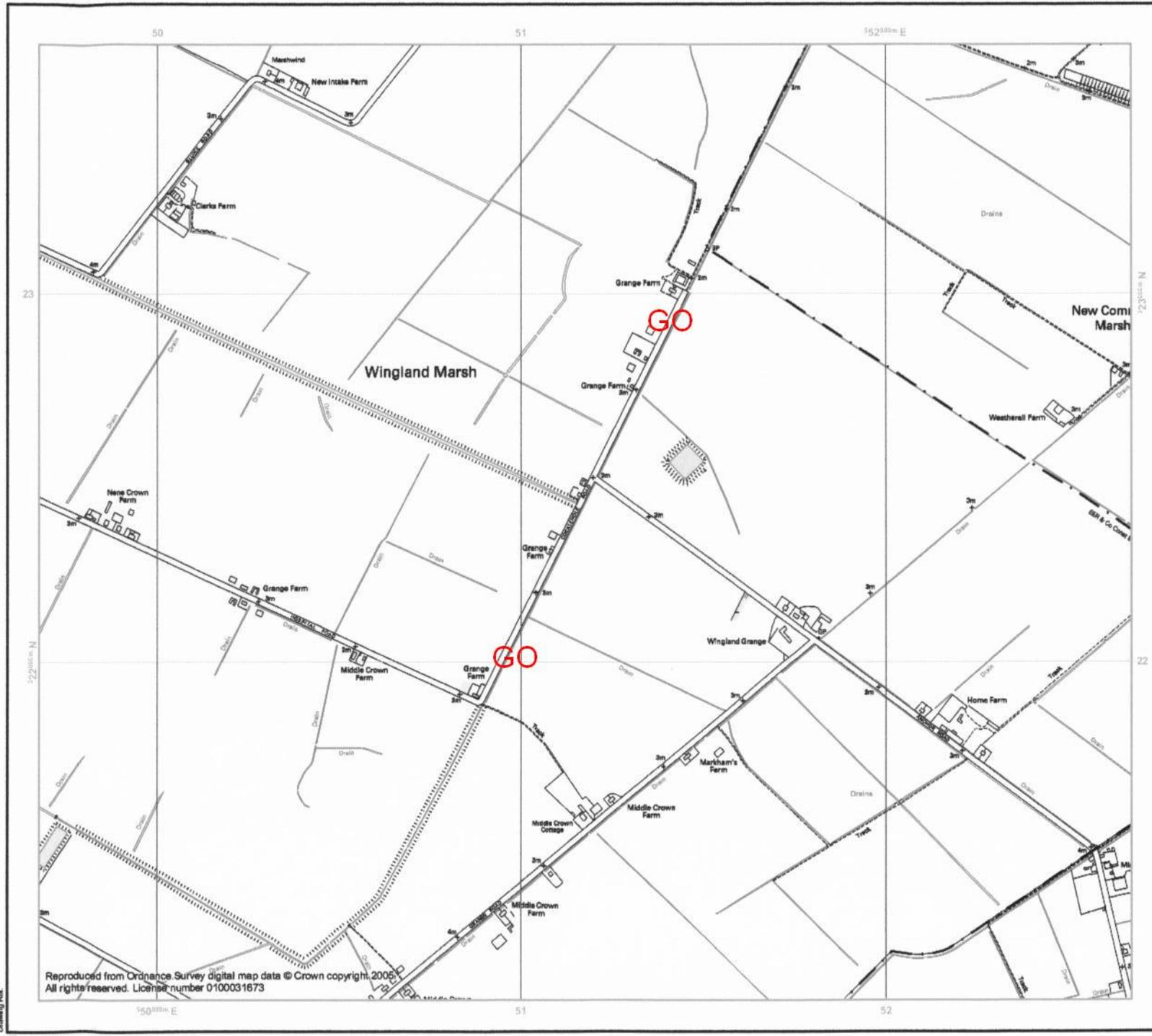


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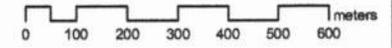
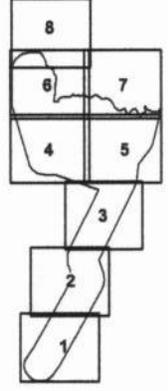
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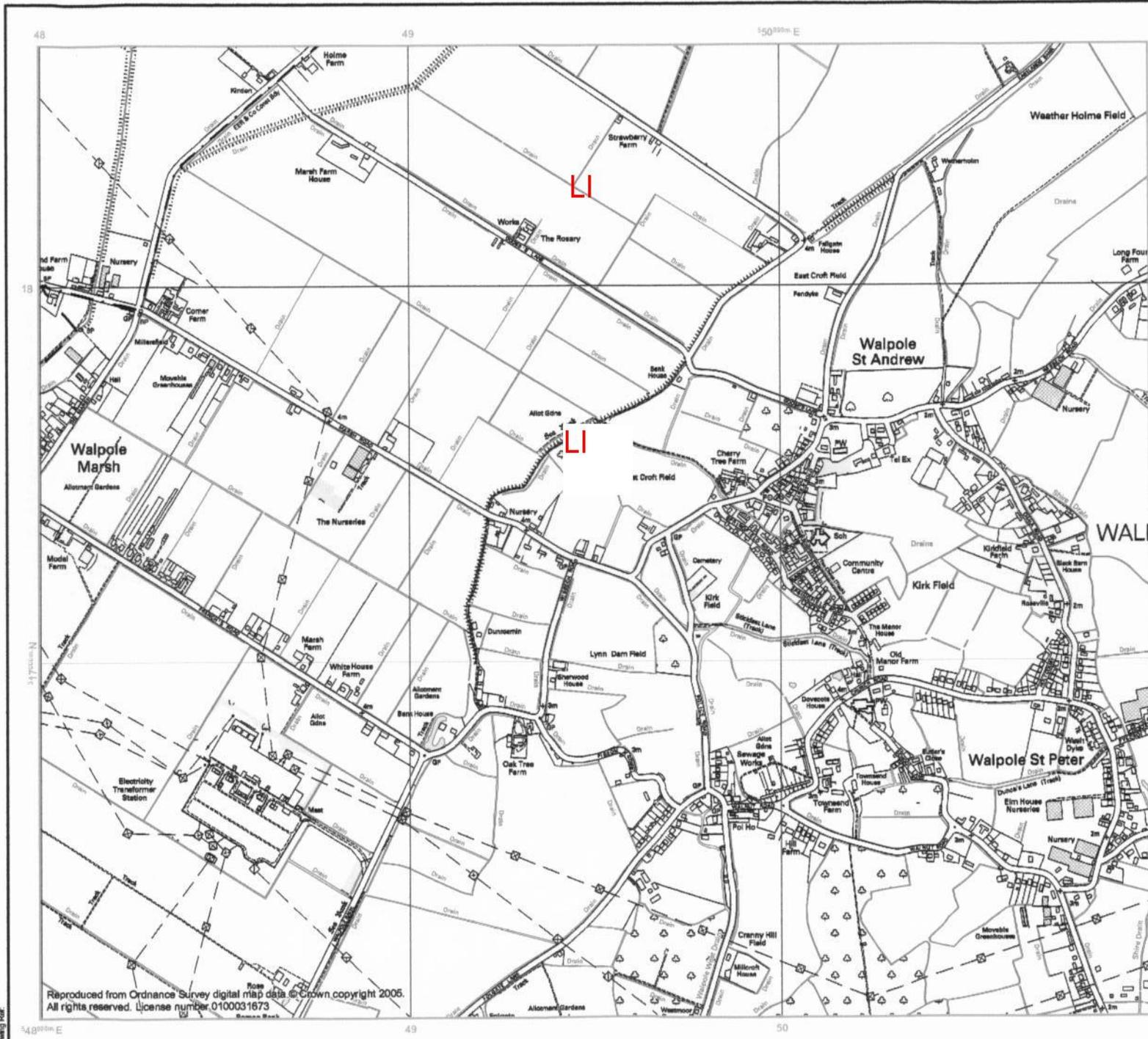


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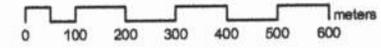
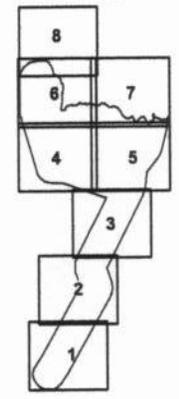


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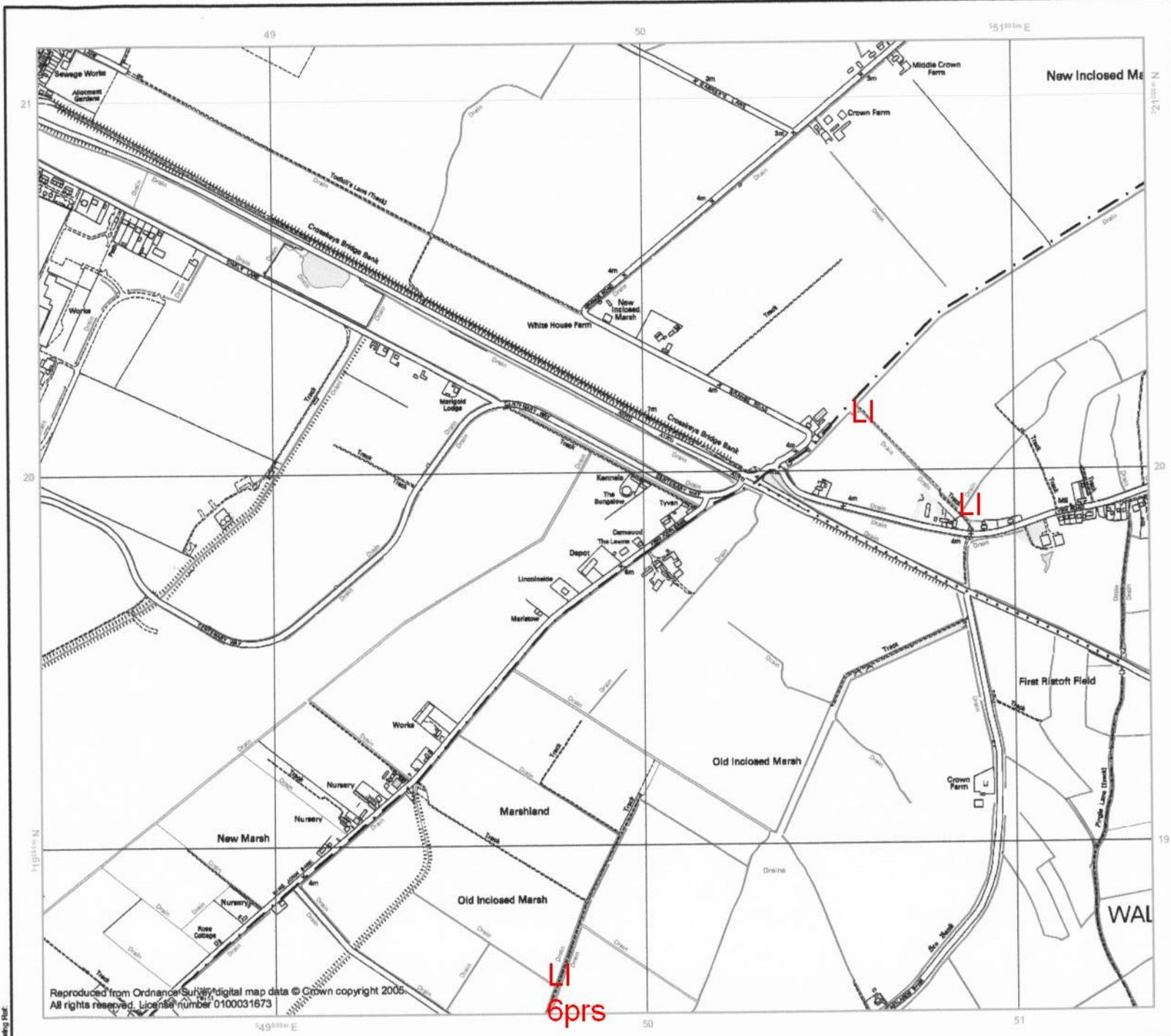
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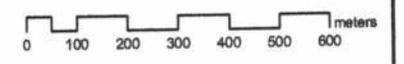
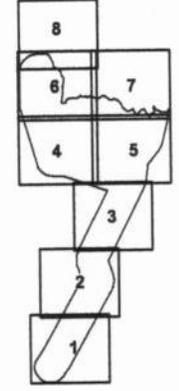
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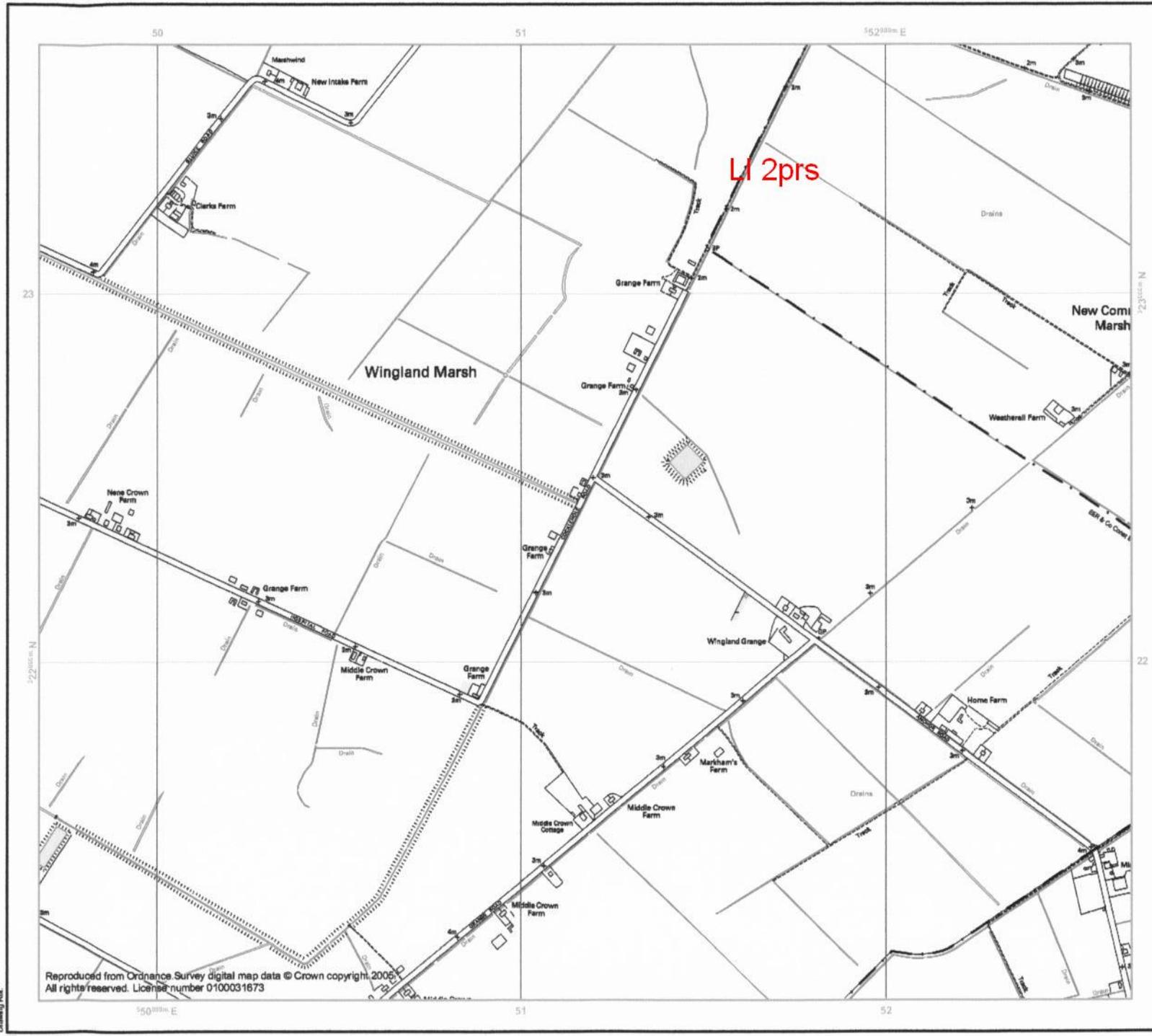
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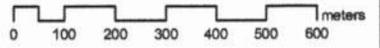
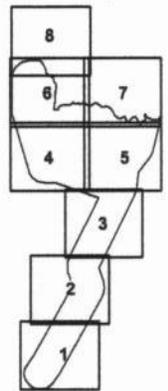
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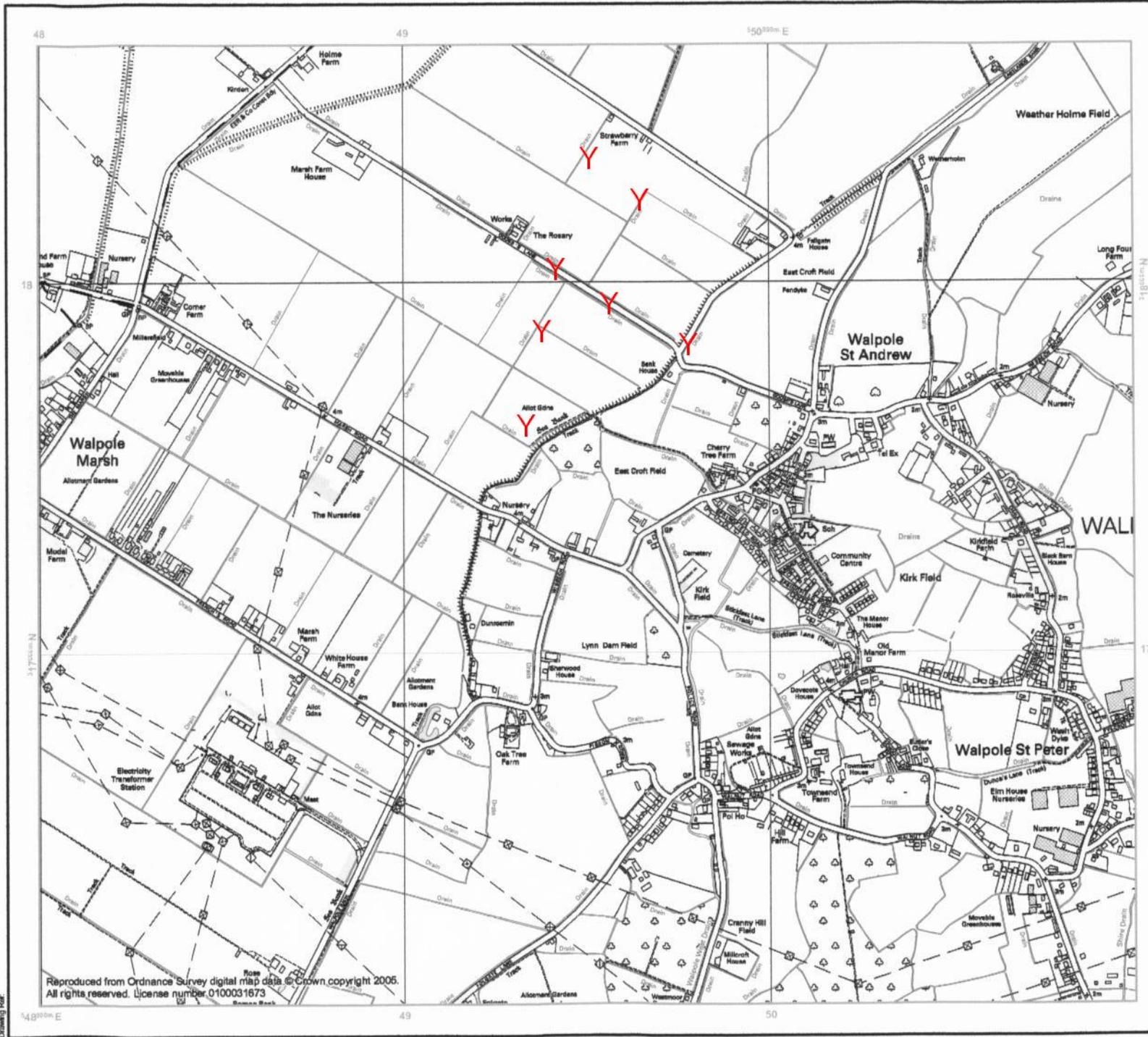


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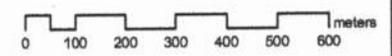
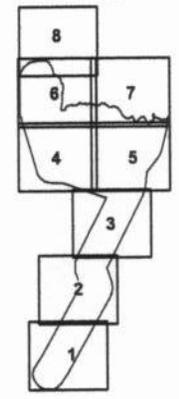
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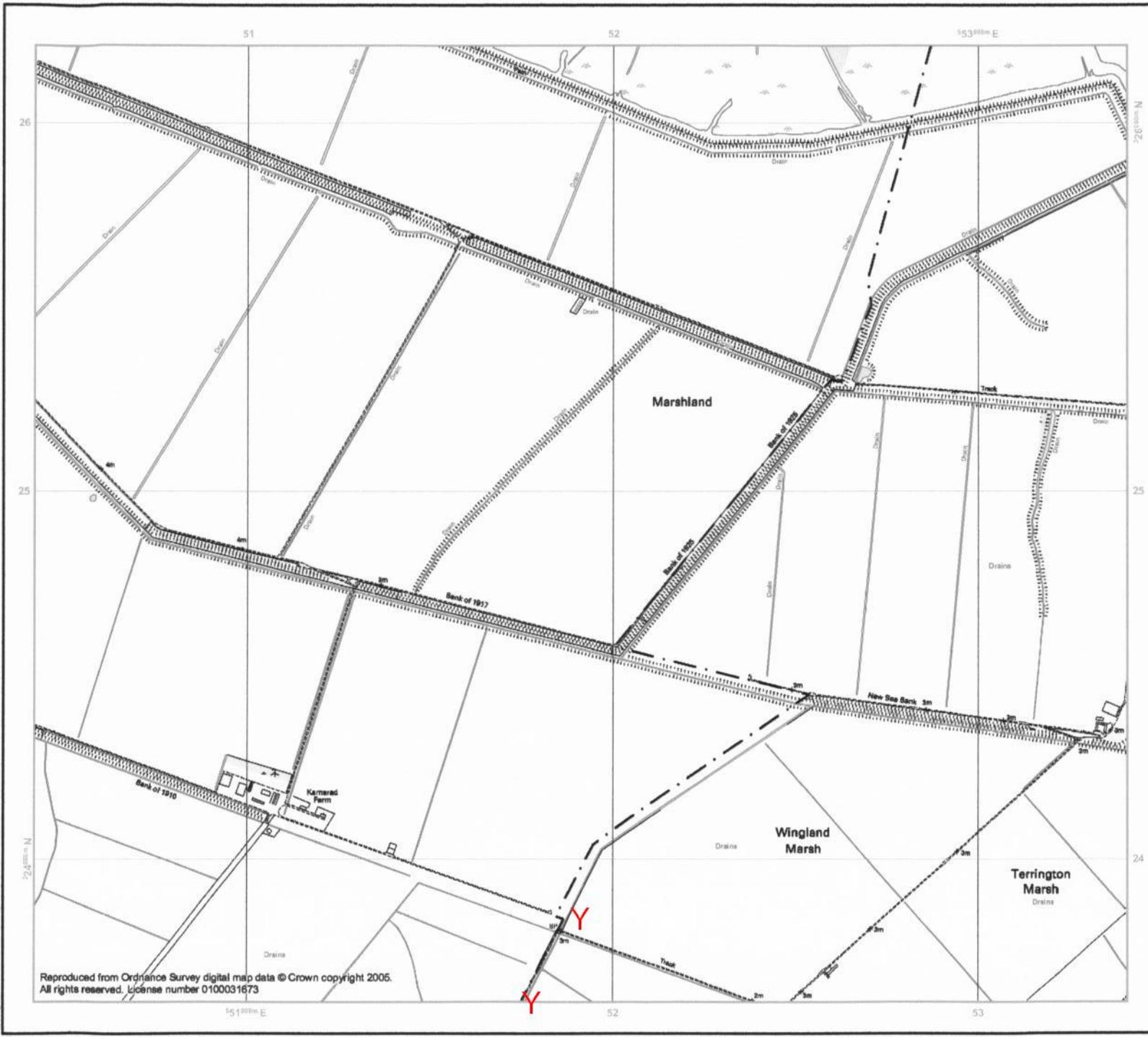
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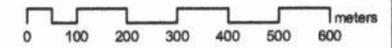
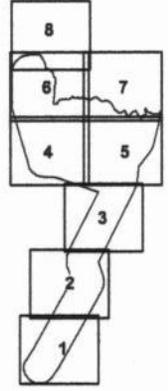
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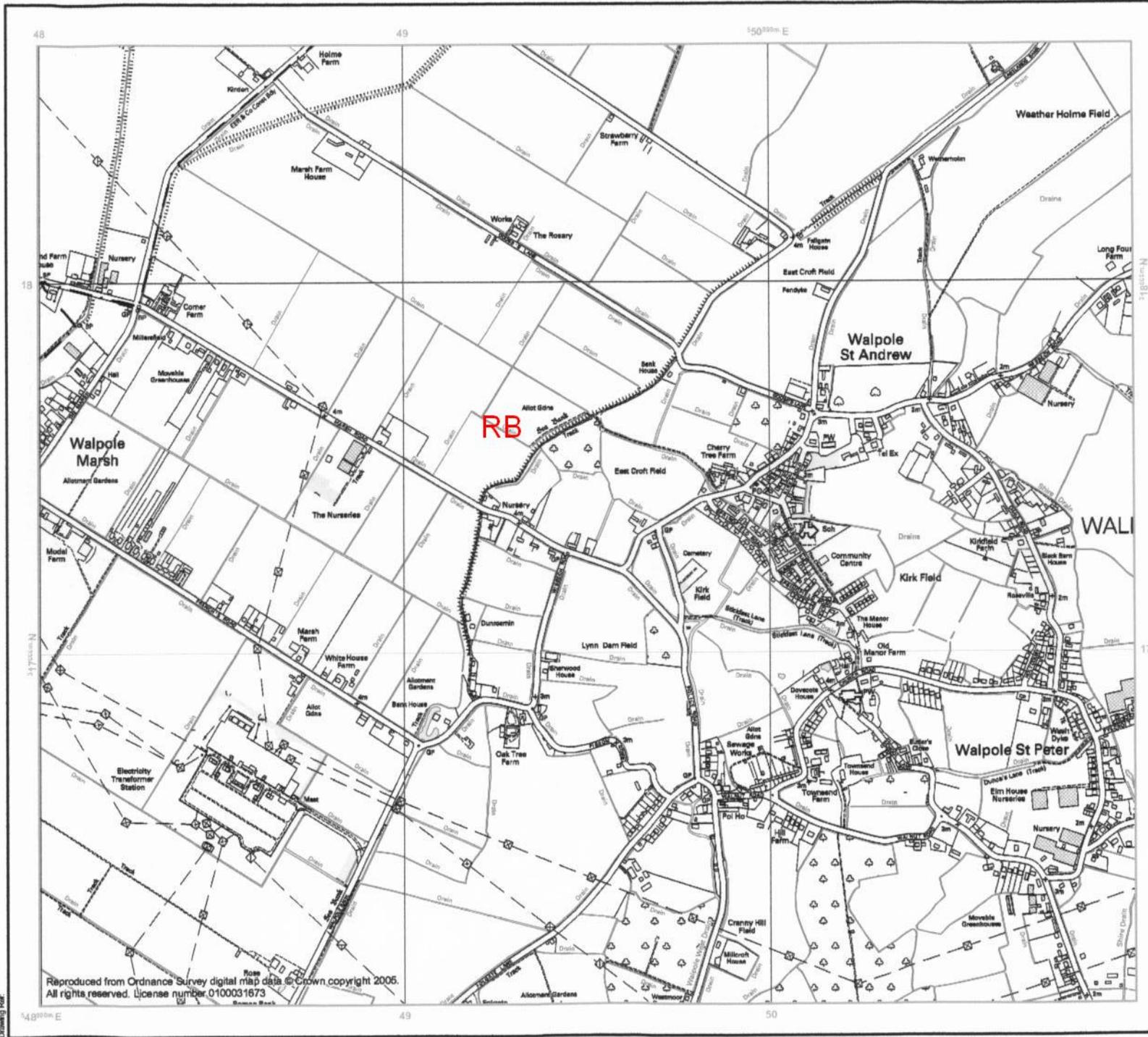
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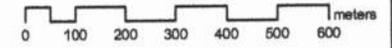
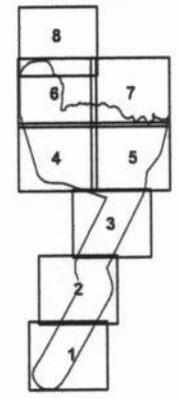
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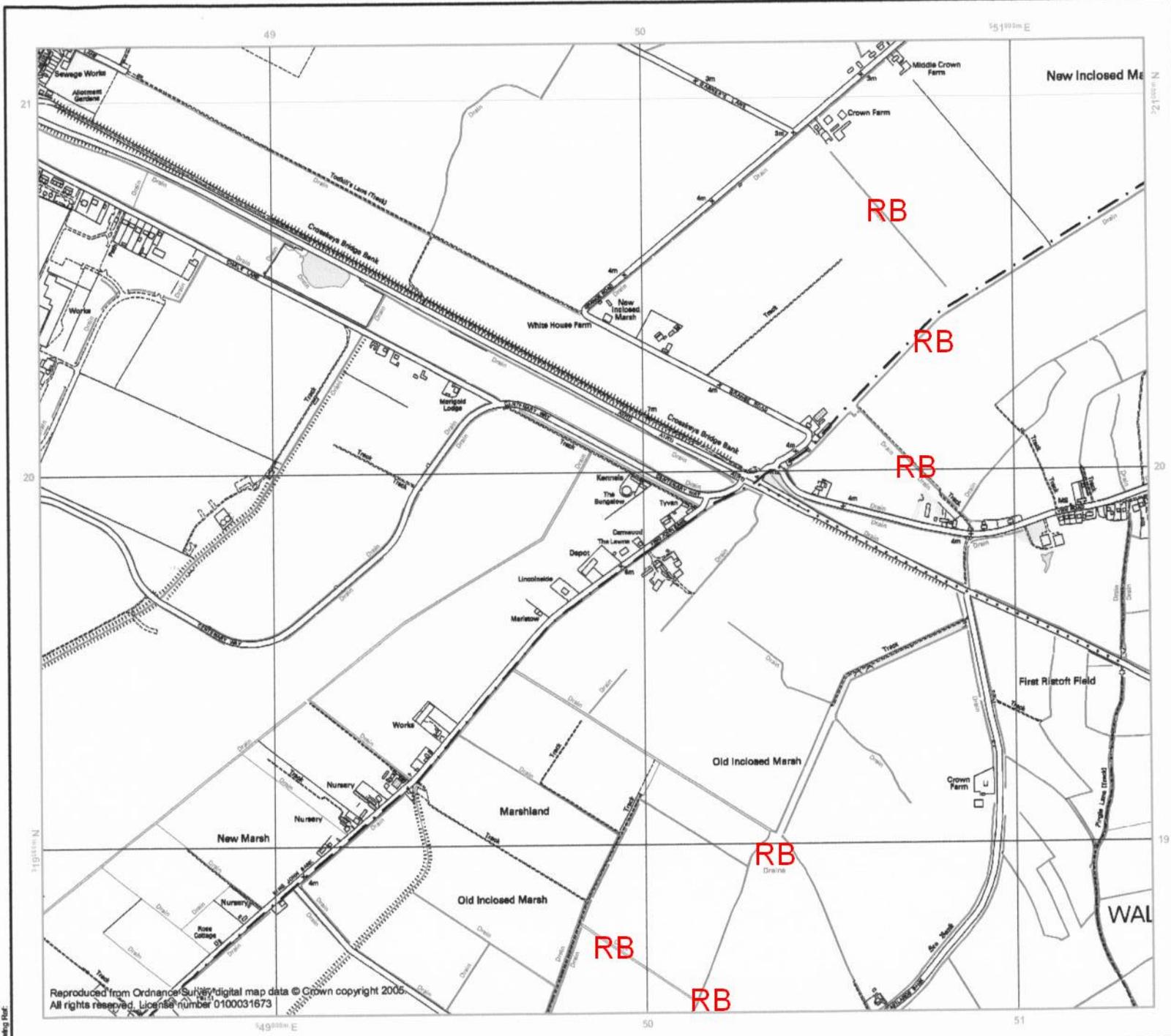
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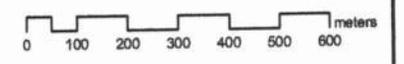
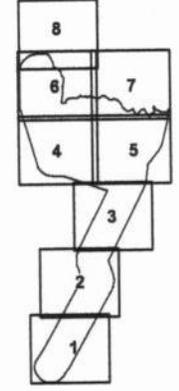
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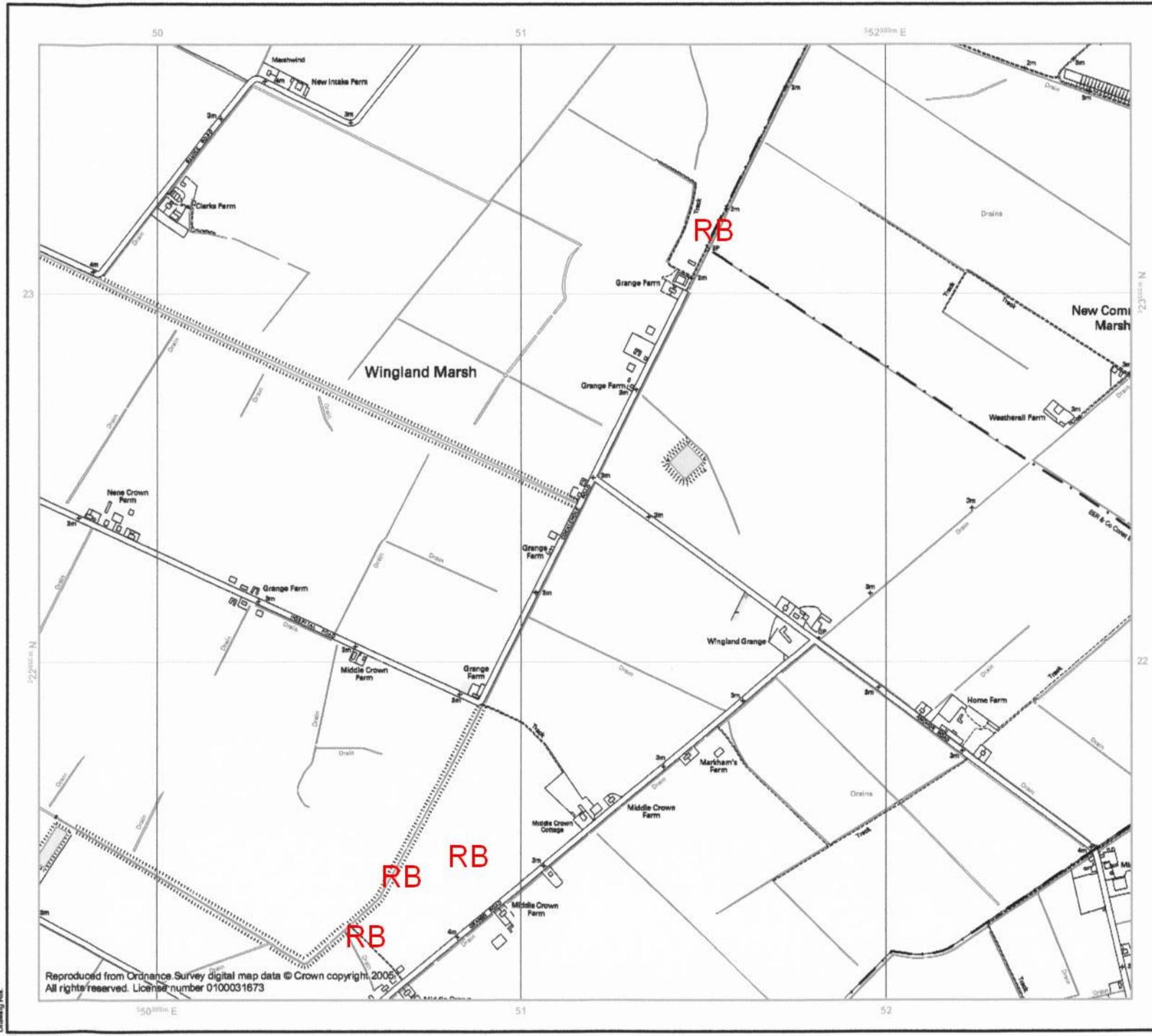
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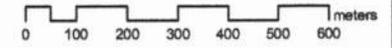
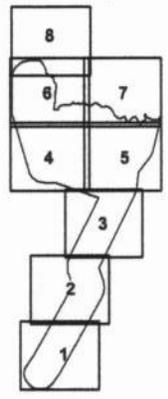
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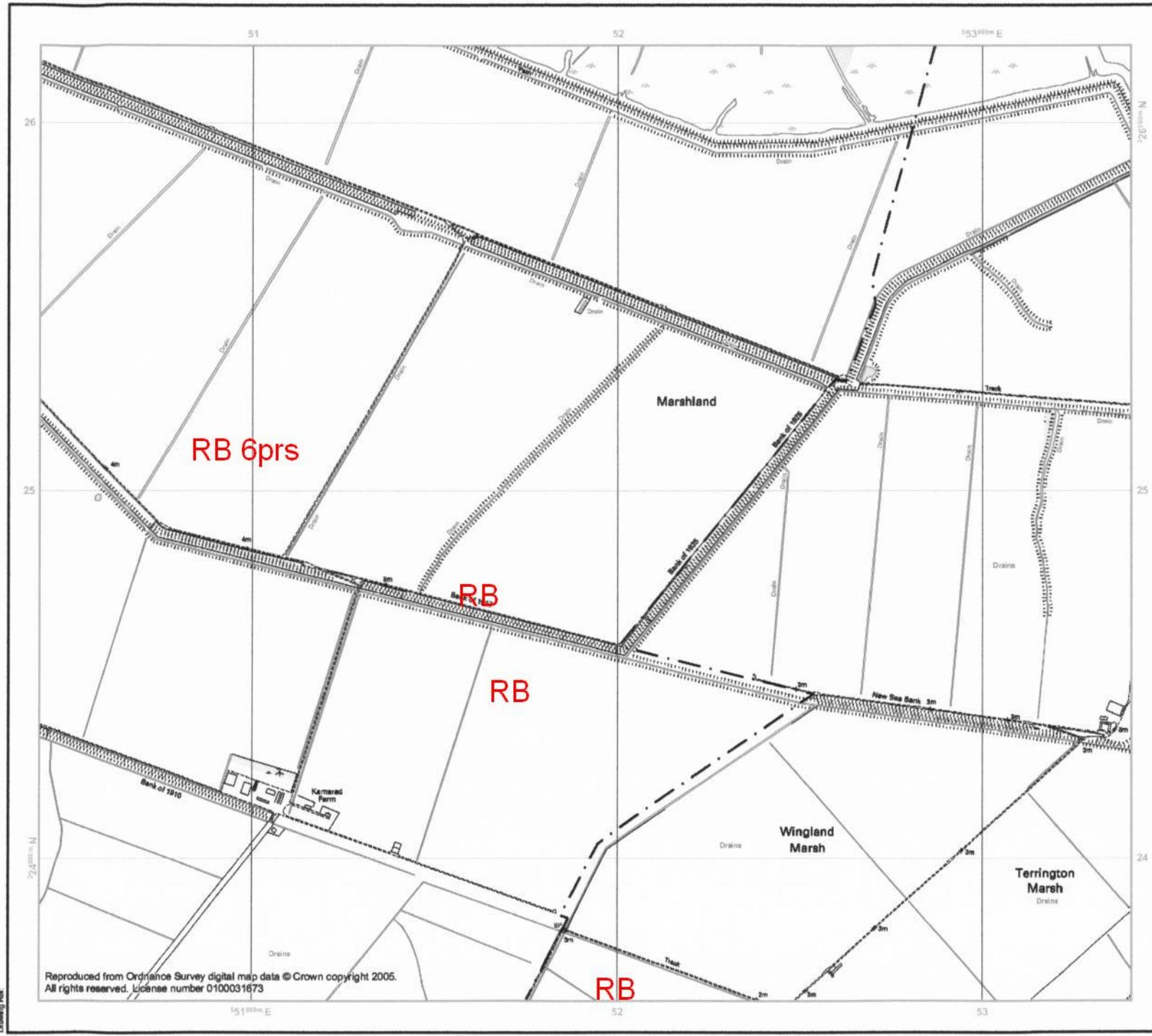


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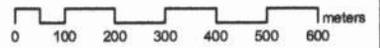
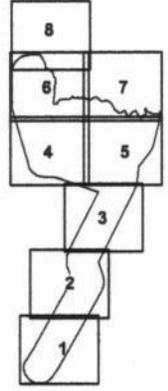
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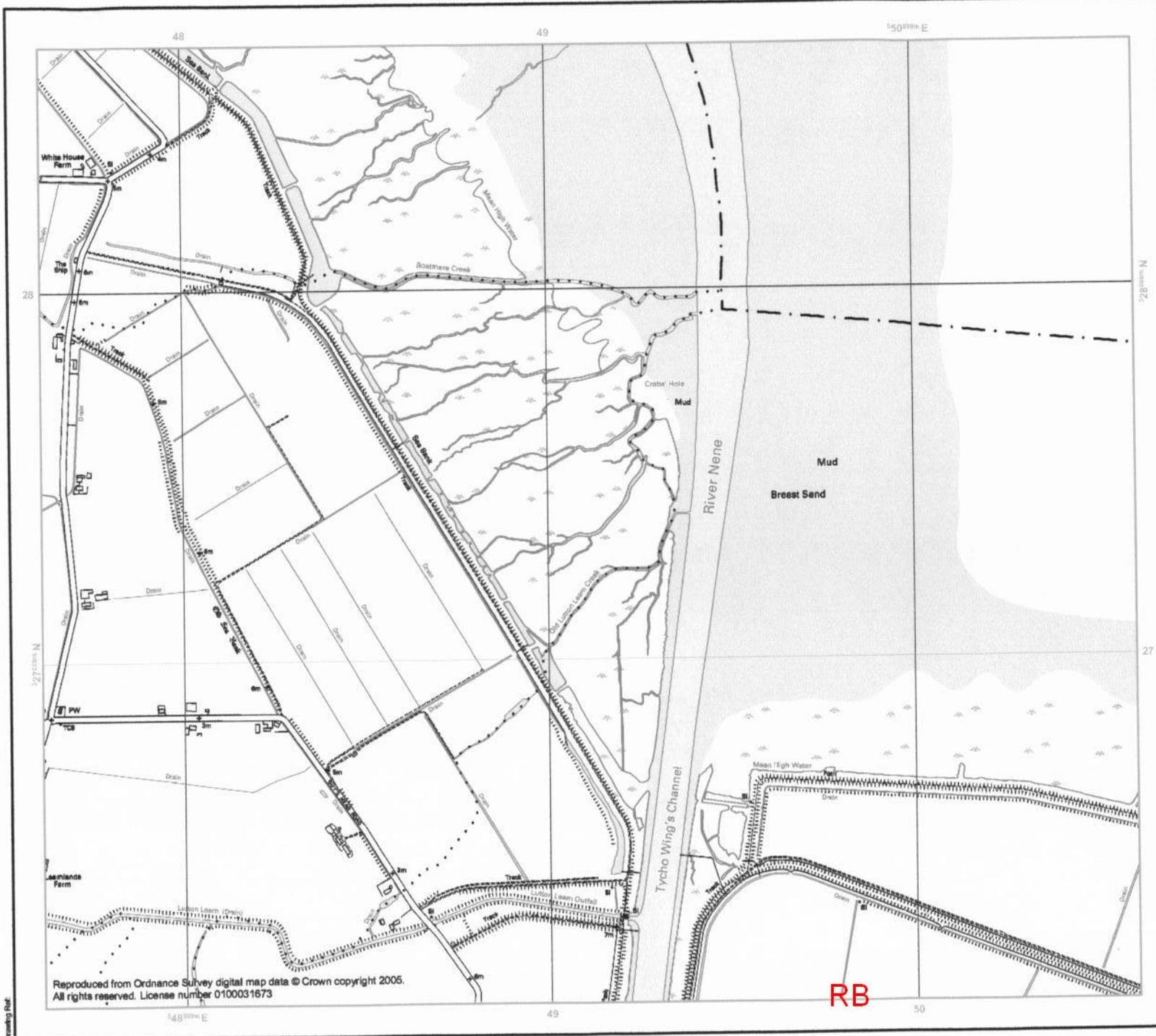


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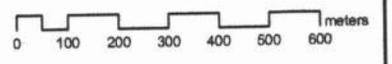
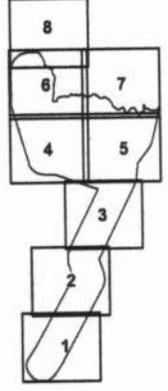
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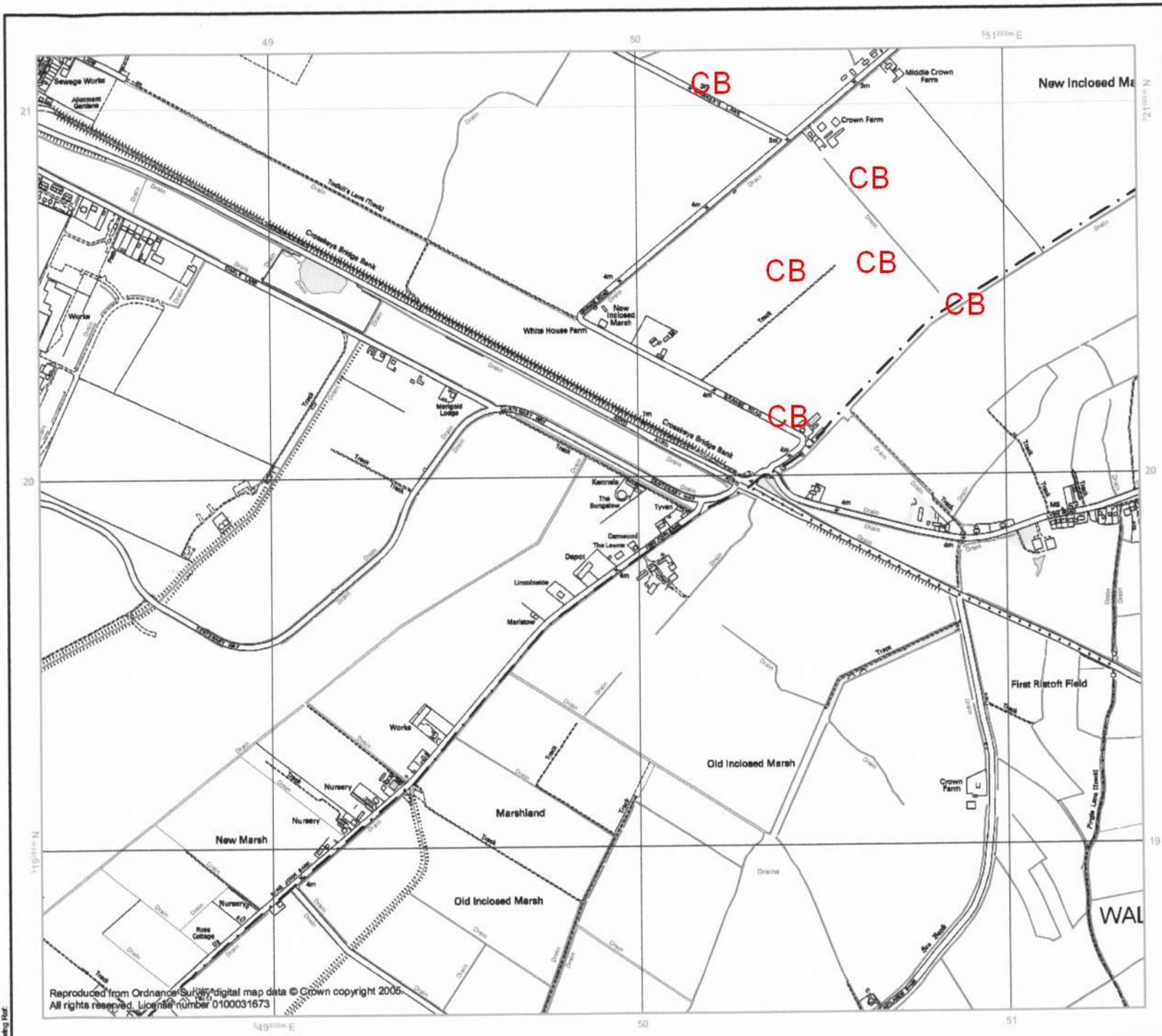
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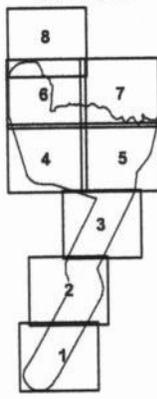
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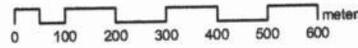
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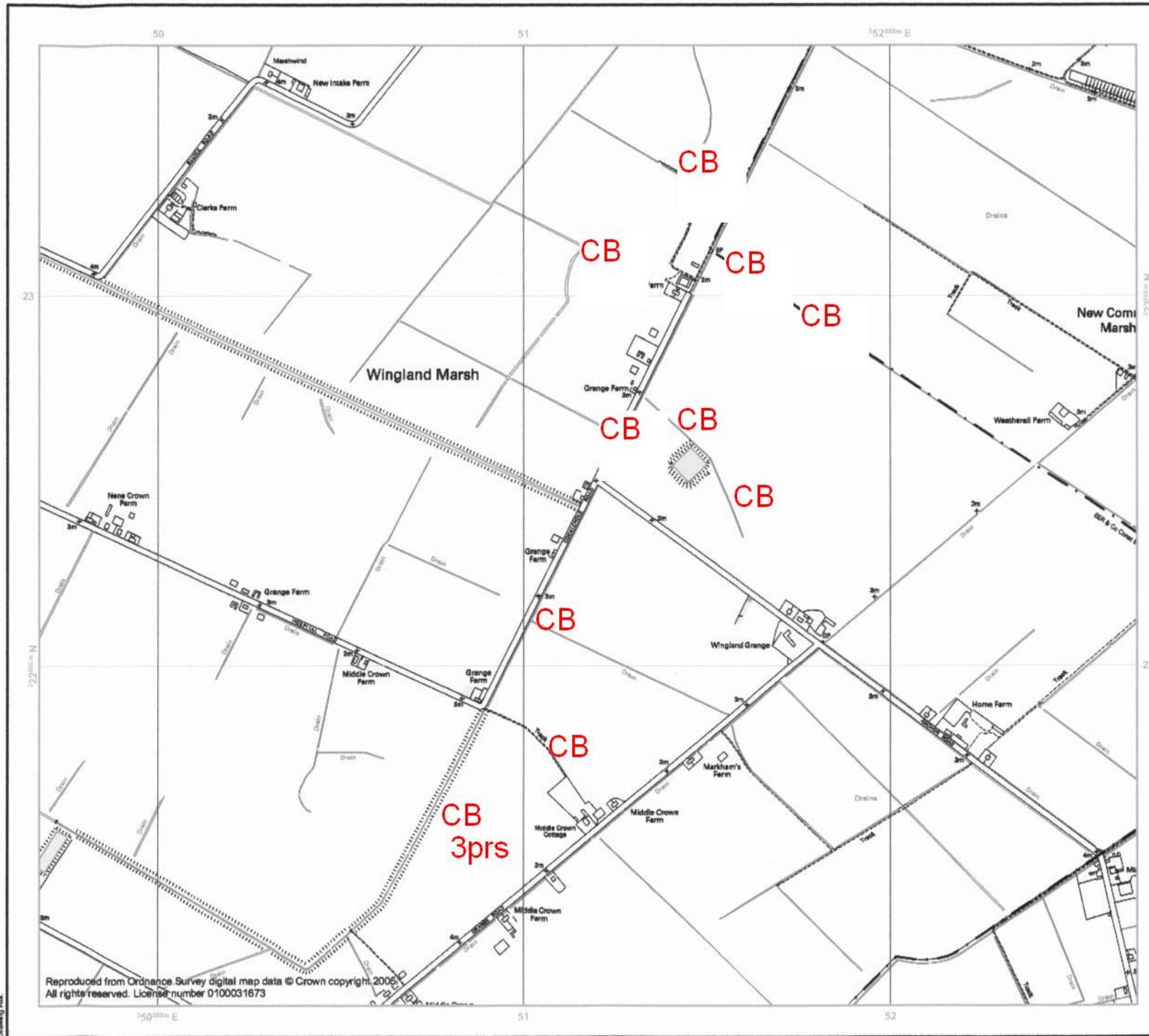
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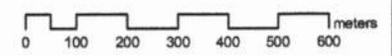
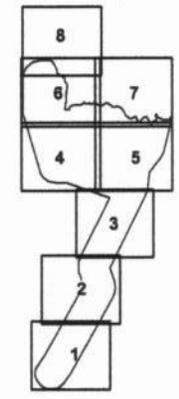
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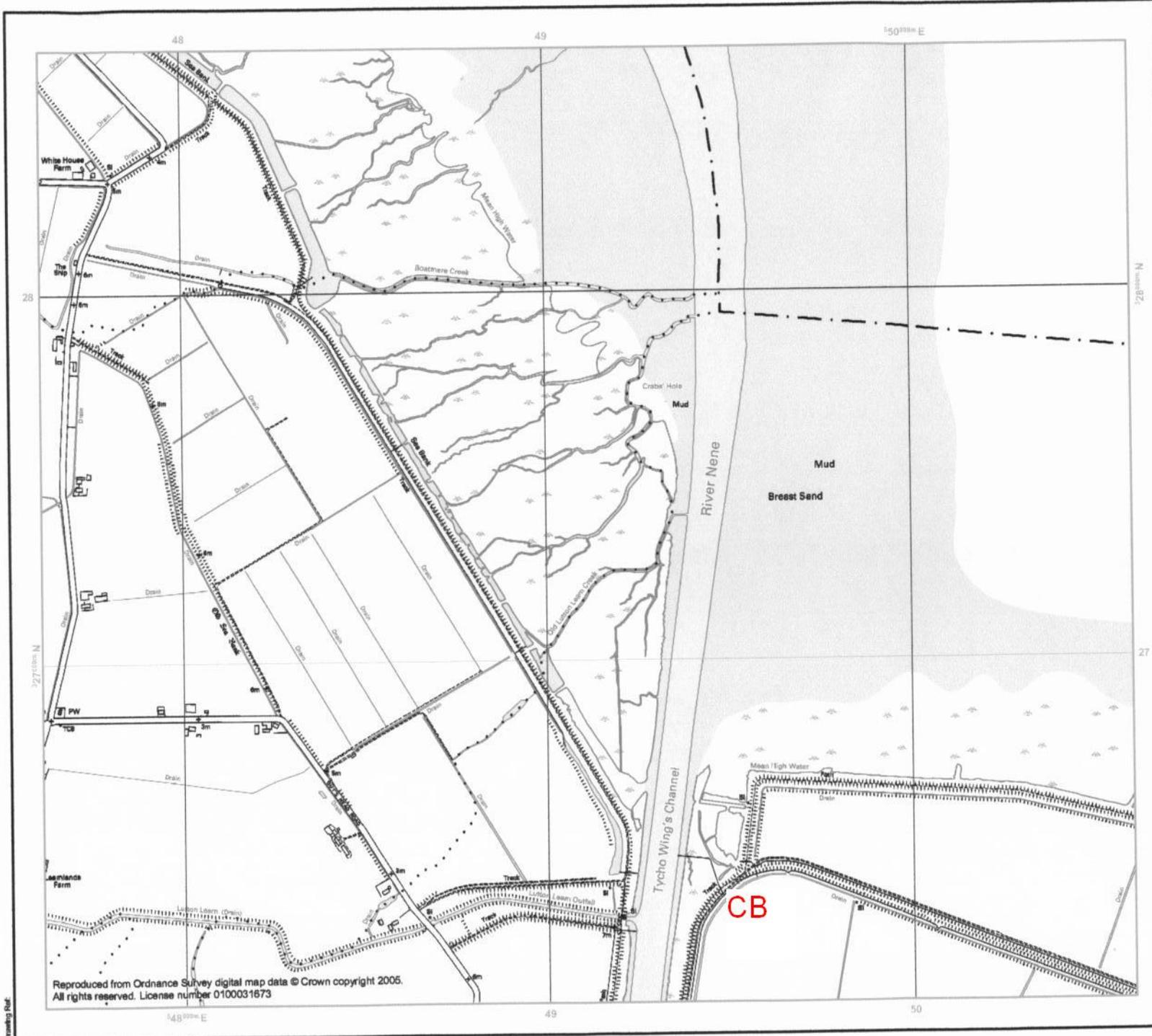


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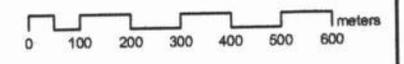
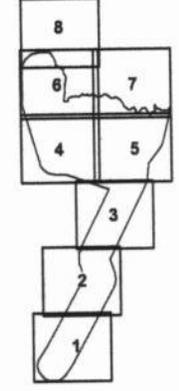


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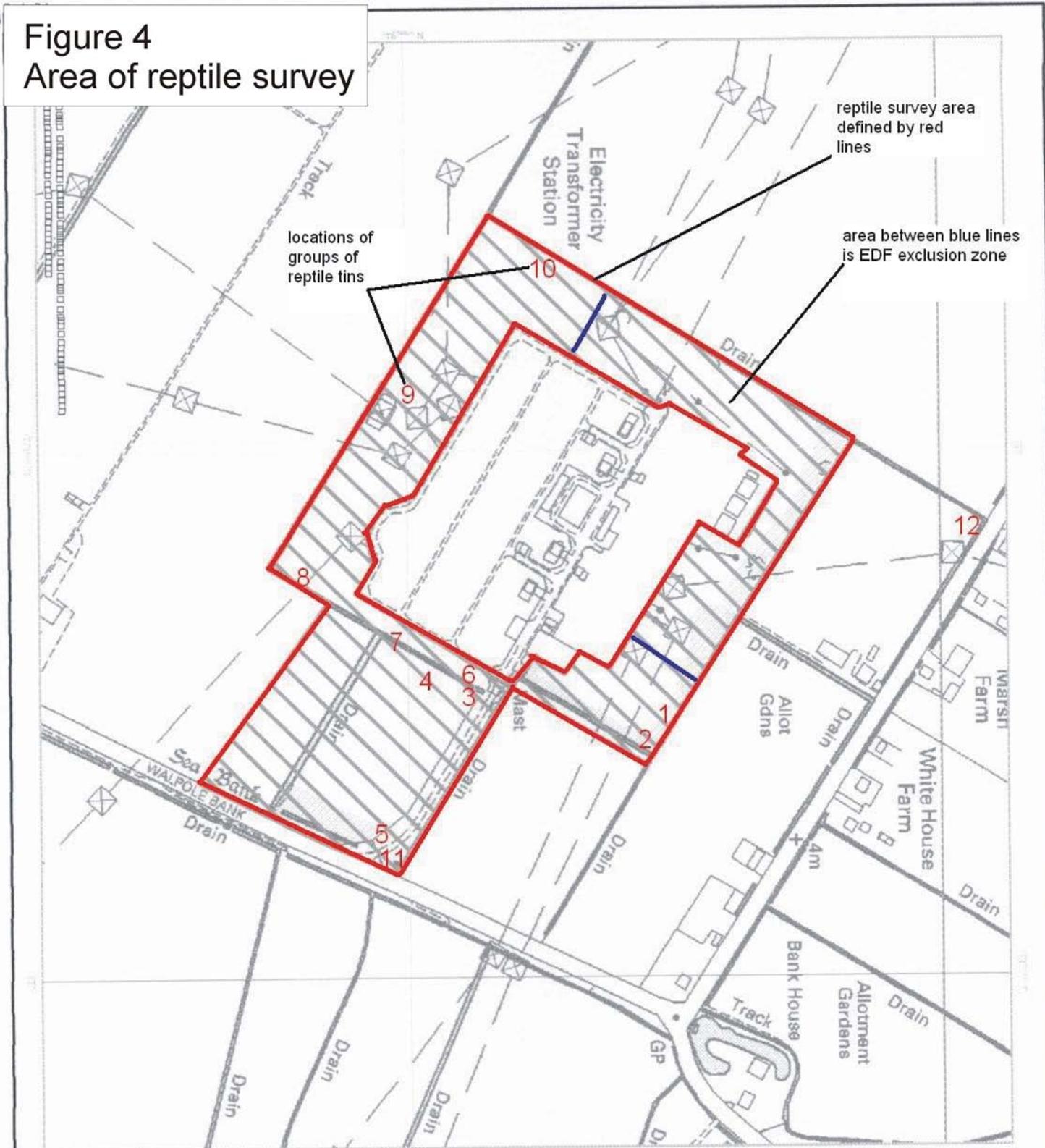
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Figure 4
Area of reptile survey



reptile survey area defined by red lines

locations of groups of reptile tins

area between blue lines is EDF exclusion zone

Electricity Transformer Station

White House Farm

Bank House Allotment Gardens

WARSPI Farm

Sea Bank WALPOLE BANK

Allot Gdns

Am

GP

Track

Track

Drain

10

9

8

7

4

3

6

5

1

2

12

12

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4

3

2

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11

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Annex 1 Farmland bird records

Breeding species

Bird species	BTO code	Status	Number of territories	Notes
Little grebe	LG	-	1	On irrigation reservoir
Mallard	MA	-	6	In drains
Marsh harrier	MR	WCA Schedule 1; BTO Amber List	1.5	1 pr in wheat field with second female nest building in same field, possibly paired with same male
Red-legged partridge	RL	-	4	-
Grey partridge	P	UK BAP priority; Lincs BAP; BTO Red List	4	-
Pheasant	PH	-	c10	-
Moorhen	MH	-	3	In drains
Coot	CO	-	1	On irrigation reservoir
Oystercatcher	OC	BTO Amber List	2	Both pairs in a pea field
Stock dove	SD	BTO Amber List	2 clusters	9 prs in two clusters in open farm buildings
Wood pigeon	WP	-	numerous	In thick hedge and trees
Collared dove	CD	-	c18	All around buildings
Turtle dove	TD	UK BAP priority; Lincs BAP; BTO Red List	2	-
Cuckoo	CK	BTO Amber List	2	-
Great spotted woodpecker	GS	-	1	In poplar tree
Skylark	S	UK BAP priority; Lincs BAP; BTO Red List	c83	Nesting mainly in pea and beet fields and in set-aside
Swallow	SL	BTO Amber List	17	In farm buildings
House martin	HM	BTO Amber List	16	On farm buildings

Meadow pipit	MP	BTO Amber List	c44	Nesting at field edges and in set-aside
Yellow wagtail	YW	BTO Amber List	16	Nesting in pea fields and in set-aside
Pied wagtail	PW	-	3	Around farm buildings
Wren	WR	-	35	-
Dunnock	D	BTO Amber List	17	-
Robin	R	-	26	-
Blackbird	B	-	33	-
Song thrush	ST	UK BAP priority; Lincs BAP; BTO Red List	5	-
Mistle thrush	M	BTO Amber List	2	-
Sedge warbler	SW	-	7	In drains and oil seed rape fields
Reed warbler	RW	-	12	In reed-filled drains and oil seed rape fields
Lesser whitethroat	LW	-	4	Hedges
Common whitethroat	WH	-	53	Mainly hedges and drains with some in oil seed rape
Garden warbler	GW	-	1	-
Blackcap	BC	-	7	-
Goldcrest	GC	BTO Amber List	1	-
Spotted flycatcher	SE	UK BAP priority; BTO Red List	1	In poplar trees
Blue tit	BT	-	10	-
Great tit	GT	-	8	-
Jay	J	-	1	In poplar trees
Magpie	MG	-	4	Probably controlled
Starling	SG	BTO Red List	14	In farm buildings
House sparrow	HS	BTO Red List	c106	In colonies around houses and farms

Tree sparrow	TS	UK BAP priority; Lincs BAP; BTO Red List	c86	Around farms and in thick hedges; large colony of c20 prs in old timber buildings at Strawberry Farm
Chaffinch	CH	-	c30	-
Greenfinch	GR	-	13	-
Goldfinch	GO	-	4	-
Linnet	LI	UK BAP priority; Lincs BAP; BTO Red List	13	-
Yellowhammer	Y	BTO Red List	23	Field edges
Reed bunting	RB	UK BAP priority; Lincs BAP; BTO Red List	22	Mostly field edge with 6 prs in oil seed rape
Corn bunting	CB	UK BAP priority; Lincs BAP; BTO Red List	18	In set-aside and field edges

Probable breeding species

Bird species	BTO code	Status	Notes
Shelduck	SU	BTO Amber List	Several birds seen but no sign of breeding
Tufted duck	TU	-	1 pr on irrigation reservoir but no sign of breeding
Sparrowhawk	SH	-	A few single sightings
Kestrel	K	BTO Amber List	1 pr possibly at Middle Crown Farm
Hobby	HY	WCA Schedule 1	2 records, one of a bird feeding on dragonflies over the irrigation reservoir
Barn owl	BO	WCA Schedule 1; BTO Amber List	1 bird regularly seen hunting
Little owl	LO	-	1 pr possibly nesting at Kamerad Farm
Swift	SI	-	Feeding over site but no breeding seen
Crow	C	-	2 prs with fledged young but nest sites not seen; probably controlled

Other records

Bird species	BTO code	Notes
Cormorant	CA	occasional bird flying over
little egret	ET	occasional bird flying over and feeding in drains
grey heron	H	occasional bird flying over and feeding in drains
brent goose	BG	flock of c70 overhead on 16 May
whimbrel	WM	2 birds flying SW on migration
curlew	CU	occasional bird flying over
redshank	RK	-
greenshank	GK	1 flying S on migration
green sandpiper	GE	migrants returning south
Montagu's harrier	MO	Male seen hunting, likely to be breeding outside study area
black-headed gull	BH	occasional bird flying over and feeding in fields
common gull	CM	occasional bird flying over
lesser black-backed gull	LB	occasional bird flying over and feeding in fields
herring gull	HG	occasional bird flying over
great black-backed gull	GB	1 bird feeding in field with lesser black-backed gulls
sand martin	SM	8 birds flying S on 12/7
jackdaw	JD	-
rook	RO	-

Annex 2 Foraging bats survey data

Weather conditions at the times of survey were as follows:

Visit 1: dry, light breeze, cool, 13.3C at 2145, 66% cloud cover

Visit 2: dry, light breeze reducing inland, 17.1C at 2150, 100% cloud cover

Visit 3: dry, light breeze, 20.8C at 2140

Times of the observations were:

Visit 1: 2145-0010

Visit 2: 2150-0010

Visit 3: 2140-2400

observation point	Visit 1 (27/6/06)	visit 2 (4/7/06)	visit 3 (19/7/06)
1	2140-2150	2150-2210	2140-2150
2	2155-2200	2215-2220	2155-2202
3	2208-2217	2226-2231	2210-2215
4	2230-236	2241-2246	2229-2235
5	2238-2246	2250-2258	2238-2246
6	2250-2256	2304-2309	2251-2256
7	2258-2305	2312-2317	2300-2305
8	2324-2331	2324-2329	2307-2314
9	2335-2340	2334-2339	2319-2324
10	2342-2347	2343-2348	2327-2335
11	2353-2358	2352-2357	2339-2347
12	0002-0010	0001-0010	2351-2400

Annex 3 Great crested newt survey data for survey visits

Pond	Netting	Torching	Water temp	Air temp
Rose Hall Farm	V1 2145-2155	V1 2145-2155	V1 13.3C	V1 7.2C
	V2 N/A	V2 2200-2210	V2 15.0C	V2 12.5C
	V3 N/A	V3 2150-2200	V3 20.0C	V3 22.0C
	V4 2155-2205	V4 2155-2205	V4 19.0C	V4 17.1C
Kamerad Farm	V1 N/A	V1 2130-2140	V1 14.5C	V1 13.9C
	V2 2115-2130	V2 2115-2130	V2 13.8C	V2 8.3C
	V3 2120-2125	V3 2135-2140	V3 15.0C	V3 11.5C
	V4 2120-2130	V4 2130-2140	V4 23.0C	V4 20.0C
Crown Farm	V1 2115-2130	V1 2145-2210	V1 20.0C	V1 19.0C
	V2 2100-2115	V2 2130-2155	V2 22.0C	V2 18.0C

Annex 4 Reptile survey data

Details of reptile tin groups

Group	Number of tins	Location
1	4	In front of south-west facing edge of bramble patch at edge of grassland; sunny warm location; light shade provided by overhanging bramble stems
2	4	In front of south-west facing edge of bramble patch at edge of grassland; sunny warm location; light shade provided by overhanging bramble stems
3	3	In front of south-east facing edge of bramble patch at edge of set-aside; sunny warm location; light shade provided by overhanging bramble stems
4	4	At edge of long grass of drain bank; facing south-east; sunny warm location; light shade provided by small hawthorn bushes
5	3	In front of south-east facing edge of bramble patch at edge of set-aside; sunny warm location; light shade provided by overhanging bramble stems
6	3	On sloping south-east facing drain side by concrete sluice; sunny warm location
7	3	On sloping south-east facing side of drain in sunny warm location
8	3	In front of west facing edge of bramble patch at edge of grassland; warm location; light shade provided by overhanging bramble stems
9	4	In front of east facing edge of bramble patch at edge of grassland; sunny warm location; light shade provided by overhanging bramble stems
10	3	In front of east facing edge of patch of snowberry scrub at edge of grassland; sunny warm location; light shade provided by overhanging scrub
11	5	In front of south facing edge of bramble patch at edge of grassland; sunny warm location; light shade provided by overhanging bramble stems
12	6	At northern corner of arable field on headland in south facing sunny warm location with shelter provided by adjacent tree belts

Survey results

	1	2	3	4	5	6	7
Date	7/9/06	8/9/06	8/9/06	12/9/06	12/9/06	13/9/06	13/9/06
Time	1130-1215	0910-0955	1015-1055	0920-1000	1035-1110	0930-1010	1030-1115
Group 1	-	-	-	-	-	-	-
Group 2	-	-	-	-	-	-	-
Group 3	-	-	-	-	-	-	-
Group 4	-	-	-	-	-	-	-
Group 5	-	-	-	-	-	-	-
Group 6	-	-	-	-	-	-	-
Group 7	-	-	-	-	-	-	-
Group 8	-	-	-	-	-	-	-
Group 9	-	-	-	-	-	-	-
Group 10	-	-	-	-	-	-	-
Group 11	-	-	-	-	-	-	-
Group 12	-	-	-	-	-	-	-
Cold searching between groups	-	-	-	-	-	-	-
Air temp	19C	16C	18C	19C	20C	20C	22C
Cloud cover	3/8	4/8	6/8	8/8	3/8	2/8	3/8
Sun	Strong	Strong	Hazy	Strong	Strong	Strong	Strong
Breeze	Moderate	Light	Light	Light	Light	Light	Light
Rain	-	- (heavy dew)	-	Earlier in the day	-	The previous night	-