Spalding & District Civic Society

Registered Charity No 259956

www.spaldingcivicsociety.org.uk

Mark-It Art Trail: Cattle Sculptures, Spalding

Planning Application

New Road, land adjacent to 5 New Road, Spalding, Lincolnshire, PE11 1BS

Full planning permission

Reference: **PP-13472079**

Address: Easting: 524697, Northing: 322786

Submitted alongside complementary planning application **PP-13348769** – Sheep Sculptures Spalding

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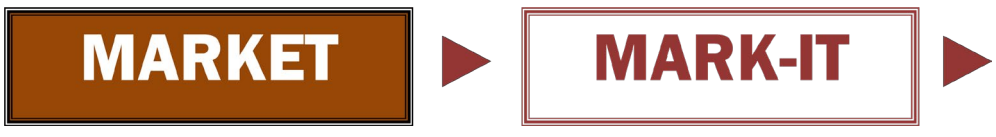
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1. Mark-It Art Trail Spalding – Cattle Sculptures New Road Site Location Plan 1:1250
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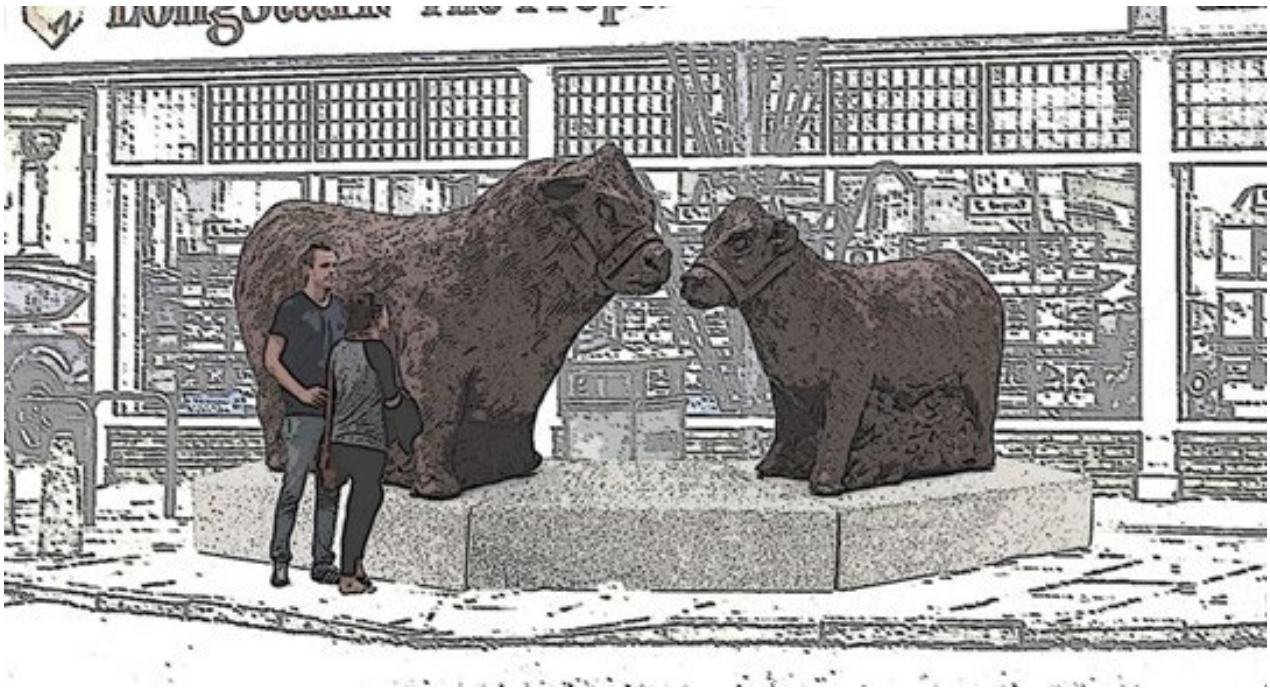


Figure 1 Artist's impression of the Cattle Sculptures' scale

1. Site addresses

Two sculptures on land adjacent to 5 New Road, Spalding, Lincolnshire, PE11 1BS.

2. Proposal

Erection of fixed stone sculptures on two sites (this application relates to New Road) in Spalding town centre, with two cattle sculptures mounted on a 450mm thick concrete raft with 150mm projecting above ground to form a plinth, set on a hardstanding pedestrian area adjacent to 5 New Road (with complementary sheep sculptures near 1 Sheep Market, Spalding subject to a separate planning application). The cattle sculpture group comprises a Lincoln Red bull and cow, and will be made from cove red sandstone.

Cattle dimensions:

- Bull – 750mm wide x 1400mm high x 2400mm long; approximate weight 6.1 tonnes
- Cow – 700mm wide x 1300mm high x 2200mm long; approximate weight 5.5 tonnes

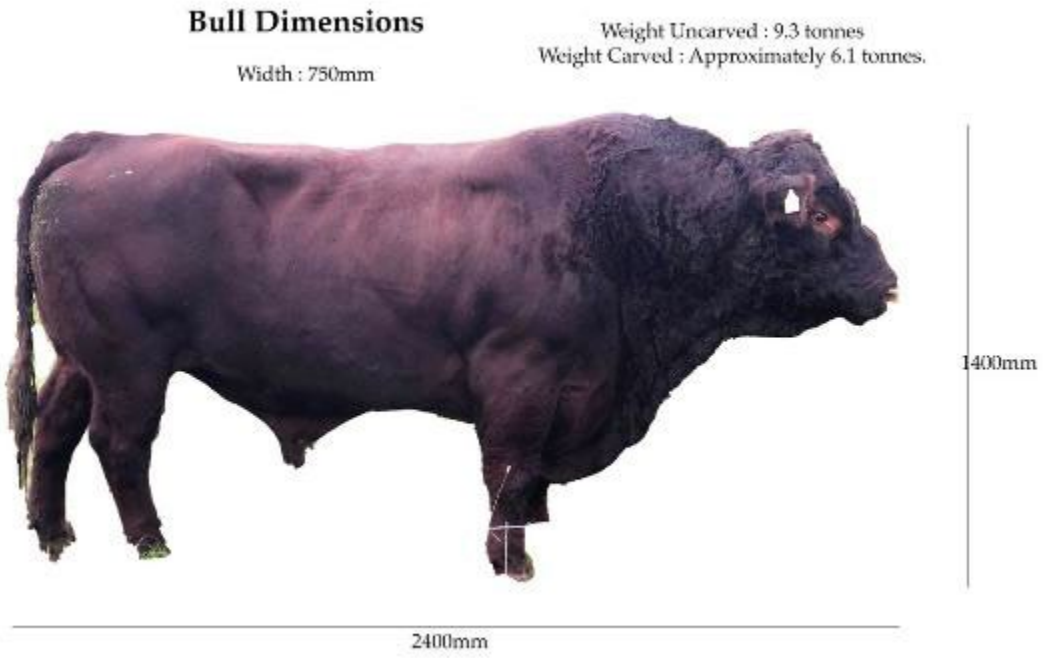


Figure 2 Dimensions and weight of carved bull sculpture

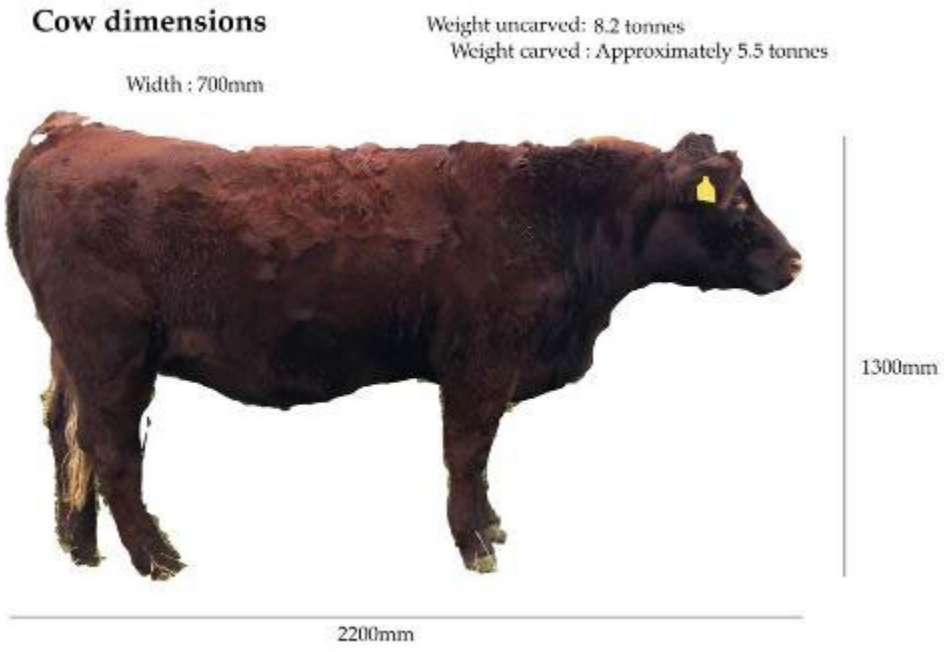
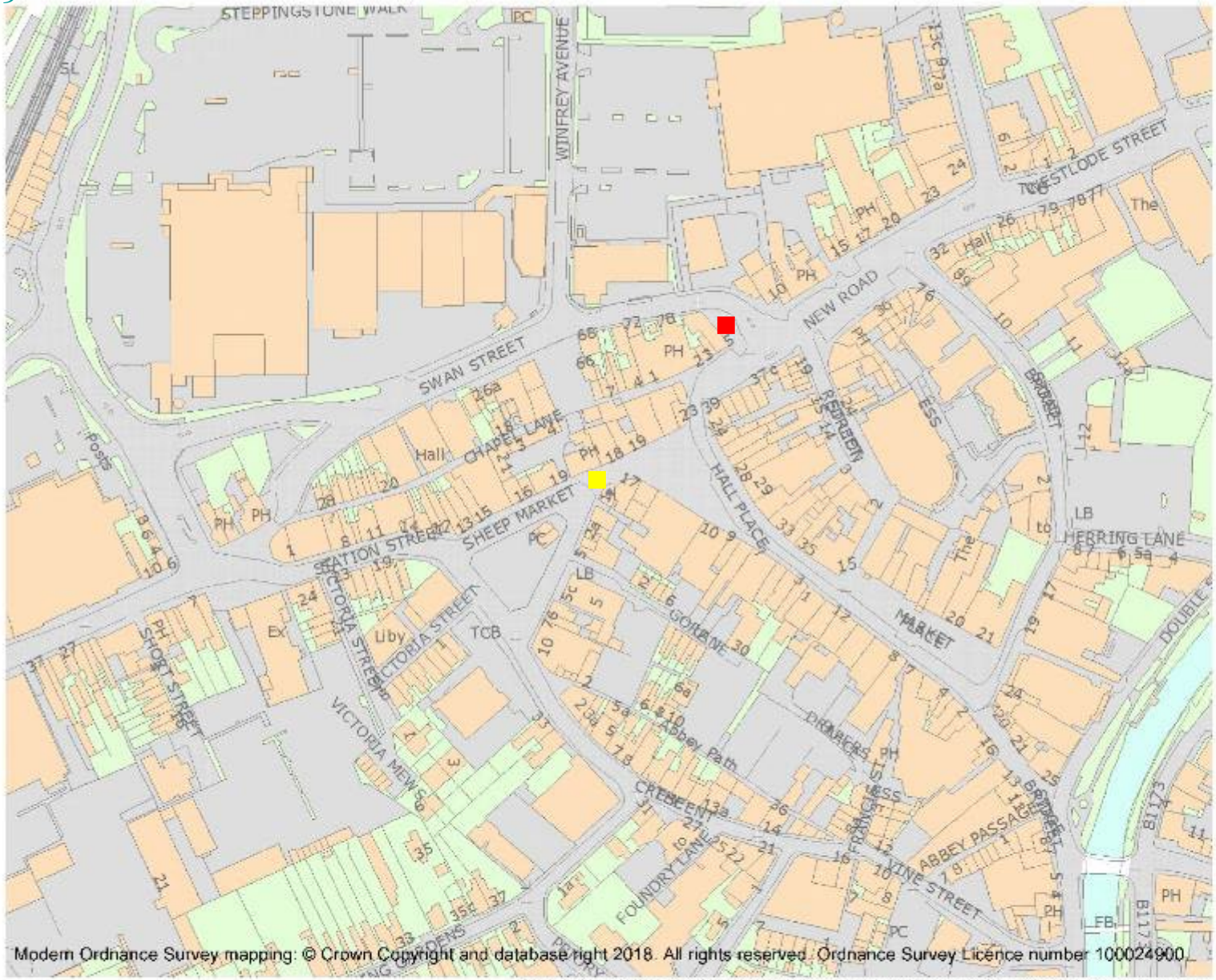


Figure 3 Dimensions and weight of carved cow sculpture

3. Site Location Plan



This is an A4 sized map and should be printed full size at A4 with no page scaling set.

Name: 1, SHEEP MARKET

Heritage Category: Listing

List Entry No : 1359545

Grade: II*

County: Lincolnshire

District: South Holland

Parish: Non Civil Parish

For all entries pre-dating 4 April 2011 maps and national grid references do not form part of the official record of a listed building. In such cases the map here and the national grid reference are generated from the list entry in the official record and added later to aid identification of the principal listed building or buildings.

For all list entries made on or after 4 April 2011 the map here and the national grid reference do form part of the official record. In such cases the map and the national grid reference are to aid identification of the principal listed building or buildings only and must be read in conjunction with other information in the record.

Any object or structure fixed to the principal building or buildings and any object or structure within the curtilage of the building, which, although not fixed to the building, forms part of the land and has done so since before 1st July, 1948 is by law to be treated as part of the listed building.

This map was delivered electronically and when printed may not be to scale and may be subject to distortions.

List Entry NGR: TF2464422707

Map Scale: 1:2500

Print Date: 16 September 2024

Historic England

HistoricEngland.org.uk

Taken from the National Heritage Listing, with proposed position of the sculpture groups marked with a red square (Cattle – this application) and yellow square (Sheep).



MARK-IT Trail New Road site



Figure 4 New Road site location plans (marked in red; 1:1250 & 1:200)

Site location plan detail indicating the hardstanding area (marked with a red line) where the cattle sculptures on Swan Street / New Road (marked as blue rectangles) will be sited. The sculptures will be orientated facing each other with the longer width of 2.4m (bull) and 2.2m (cow) set in parallel to the curve of the pavement on the raised area adjacent to the pedestrian pavement; the cattle will be viewable from a 360° perspective from the public highway of New Road (see figures below). The plinth will be inset into the paved area after hand excavation taking into consideration the known utilities in the area (see Appendix 1). The existing street furniture will not be affected. Accessibility either side of the sculpture group will be maintained, to ensure public pedestrian routes are preserved along each side of the sculpture group.



Figure 5 Proposed location for the cattle sculptures and plinth on Swan Street adjacent to New Road



Figure 6 Alternative view from Swan Street south towards New Road of the proposed cattle sculpture location



Figure 7 Alternative view north from the New Road junction with Swan Street of the proposed cattle sculpture location





Figure 8 Detail of setting for cattle sculptures (planter to be removed)

4. Design & Access Statement

4.1 Summary

Spalding and District Civic Society (SDCS) have commissioned sculptor Graeme Mitcheson to create inspiring, themed, quality stone sculpture artworks for public spaces in the centre of Spalding, Lincolnshire.

4.2 The Project

In 2016, SDCS commissioned Joseph Hillier's small bronzes *Portrait of a Town* trail, which featured people related to the area's food production, reflecting the unique character of Spalding and its importance to the nation's food supply. Addo Food's donation of *The Bakers* statue then brought in food processing (currently in storage). Laury Dizengremel's *The Hiring* is sited in Hall Place, commemorating the annual May Hiring Fair in Hall Place, when farmworkers and domestics converged on Spalding to offer their skills to employers as shepherds, ploughboys, or dairymaids.

SDCS have recently been awarded funding from the UK Shared Prosperity Fund to deliver the next phase of the *MARK-IT Trail*, to increase awareness and appreciation of the town's heritage through celebrating Spalding's markets in its livestock heyday, including the annual hiring fair, along with the massive contribution South Holland continues to make to the nation's food supply. The new artworks will be sited in the same streets as those in which animals were traditionally sold, within living memory, sheep in Sheep Market, cattle in New Road, and pigs in Red Lion Street.

This application relates to this phase focused on New Road/Swan Street with an complementary application submitted for a sheep sculpture group on Sheep Market/Hall Place. Cattle sculptures sited on the corner of New Road and Swan Street adjacent to Longstaff's estate agents is inspired by the cattle auctions that used to take place there. This location is a priority for intervention by South Holland District Council as the current flower bed planter is at the end of its life and is in urgent need of replacement. SDCS have secured support from key local councillors for the project and an indication that the proposal for this site would be firmly supported.

The project offers the prospect of a major uplift to the town centre. As well as enhancing its attractiveness for all who live and work here, it has the potential to become a visitor attraction, increasing footfall in the town.

4.3 Lead Artist

Graeme Mitcheson has been creating stone sculpture since graduating from Loughborough College of Art in 1995. He undertakes a wide variety of work including major public art sculpture, smaller private commissions, memorials and letter cutting work. Graeme has work sited in the public realm all over the UK including sculptures in Belfast, Northumberland, North and South Wales. Graeme also runs stone carving courses and workshops in schools. Complementary to the creation of new sculptures for Spalding, and through SDCS' partnership with arts organisation Transported, Graeme will be delivering a community and schools engagement programme.

Graeme Mitcheson is an elected member of the Royal British Society of Sculptors, and a leading UK based sculptor working in the mediums of stone and glass to create large scale public art sculpture as well as important National Memorials. His work is always site-specific and incredibly varied. People and history inspire Graeme to create often monolithic, tactile, eye-catching, thought provoking artworks that create an instant impact but that also seek to engage the viewer on a number of levels.

4.4 Justification

The sculptures represent an important historical narrative for Spalding with significant local meaning and connection to the places where sheep and cattle were originally sold. For this reason, we believe the proposal has a clear and convincing justification. As high quality public art, the sculptures build on previous public realm in the town and SDCS' ambition to create a market-themed 'MARK-IT' trail. The scale of the sculptures is in keeping with the proposed locations, creating visible, accessible artwork that will not be unduly prominent or distracting. The sculptures as stonework have been selected as appropriate materials for these locations. When seen and experienced from the pedestrian areas, pavements and highways, the sculptures will add interest without diminishing the special interest and significance of nearby Grade II listed buildings. The sculptures will not cause harm to any other heritage assets and will otherwise preserve the character and appearance of the conservation area. They will contribute to representing an important heritage narrative for Spalding through the medium of high quality public art.

4.5 Access

The sculptures will be situated in two separate public spaces in the centre of town so that they can be seen by the public in an accessible space adjacent to Swan Street and New Road (this application) and the Sheep Market area where it meets Hall Place (separate application). Site owners Lincolnshire County Council have confirmed their support for the proposal.

5. Heritage Statement & Impact Assessment

5.1 Context

Within living memory, the town centre had a weekly livestock market, full of jostling animals and auctioneers, with sheep in the Sheepmarket, cattle in New Road, and pigs in Red Lion Street. New Road was the site of a twice weekly cattle market held on the public highway until 1938, when a purpose built indoor livestock market opened. This closed in 1992 and as a consequence the importance of livestock in the town's history is rapidly being forgotten.

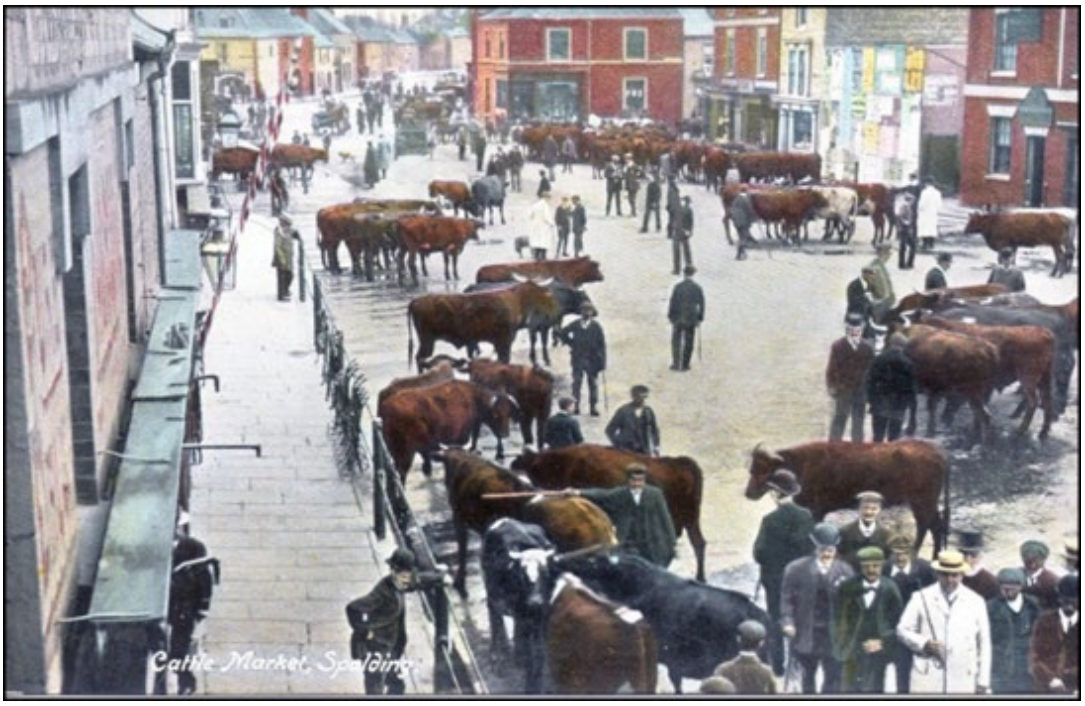


Figure 9 Traditional cattle market in New Road, Spalding

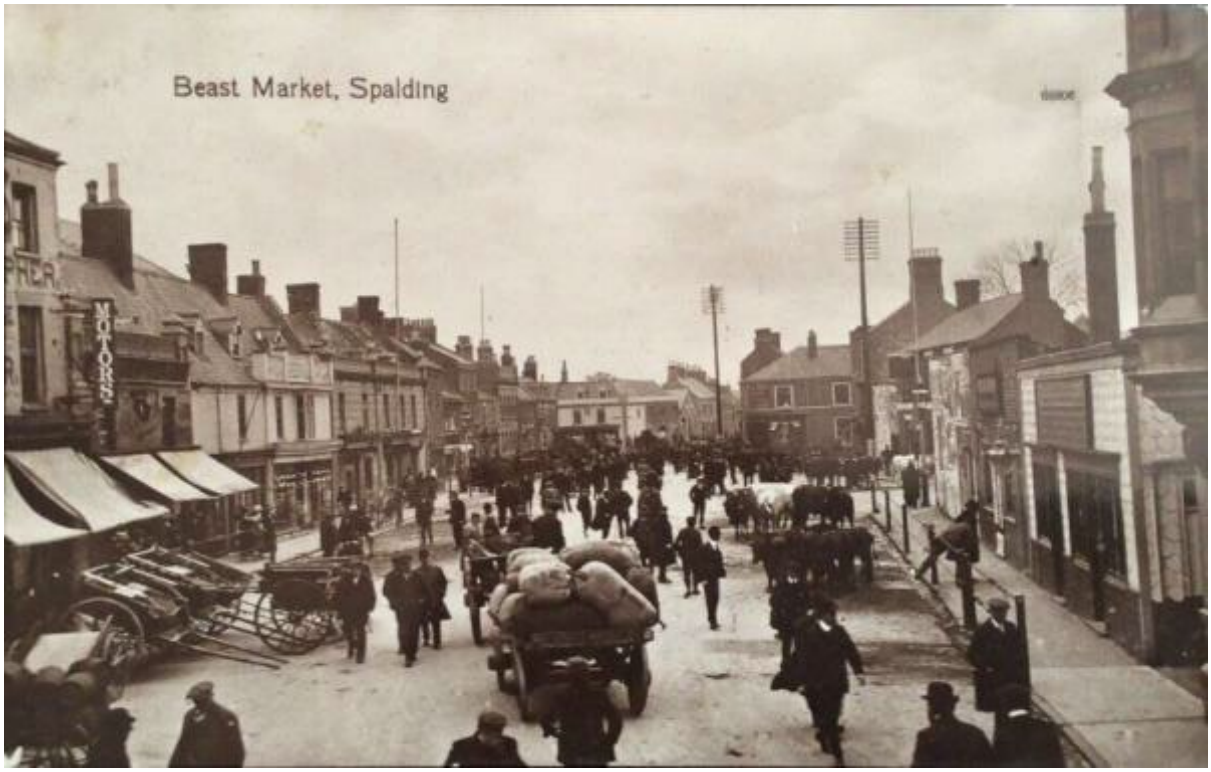


Figure 10 Breeds including Lincoln Red cattle were sold at the market; what is now Longstaff's offices is on the left in the image above



Figure 11 Site of road widening on Swan Street (Source: Heritage Explorer)

No 6 New Road was demolished in 1980 before the road layout was changed to widen the entrance into Swan Street in 1982. The former building was subsequently de-listed. This building was on the line of the present Swan Street, whilst the original line of Swan Street was on the proposed site. The map available in Lincolnshire Heritage Explorer indicates that none of the footprint of No 6 New Road is on the proposed site.

Although the firm R Longstaff & Co have only been on their current site since 1983, the firm have had a longstanding involvement with livestock markets in Spalding since the second half of the 19th century and acquired the firm of J Cooley & Son (also auctioneers, founded in 1770) in the 1900s.

5.2 Conservation Area

The proposed siting of the sculptures is in the Spalding Conservation Area. Lincolnshire County Council have confirmed that they own the two site locations for the cattle and sheep sculptures, and have given permission for the sculptures' erection and provided information about below ground utilities (Appendix 1). A concrete pad will be formed on the ground, also creating a plinth for the sculptures. The sculptures will not otherwise be permanently fixed into the ground.

5.3 Listed Buildings

New Road Cattle Sculptures

The sculpture site is in the vicinity of the following listed buildings (see Search the List - Historic England):

- 3-5 New Road, Grade: II (List Entry 1063955)
- The Black Swan Public House, Grade: II (List Entry 1063956)
- Punch Bowl Public House, Grade: II (List Entry 1063957)

As explained above, the sculptures represent an important historical narrative with significant local meaning. For this reason, we believe the proposal has a clear and convincing justification.

As public art and commemoration, the sculptures resonate with the market place setting. The scale of the sculptures is commensurate to the scale of the public realm and other public art in the town centre and will not be unduly prominent or distracting. The sculptures comprise appropriate materials for this location. When seen and experienced from the street, the sculptures will provoke interest without diminishing the special interest and significance of nearby listed buildings.

The sculptures will not cause harm to any other heritage assets and will otherwise preserve the character and appearance of the conservation area. We therefore consider the development to accord with the objective of preservation required under sections 66 and 72 of the Planning (Listed Buildings and Conservation Areas) Act 1990.

5.4 Planning Policy

We consider that this proposal is in line with relevant planning policy, as follows:

- Paragraph 196 (c) of the National Planning Policy Framework (NPPF) – the sculptures are new development which make a positive contribution to local character and distinctiveness.

- Paragraph 196 (d) of the NPPF requires opportunities should be taken to draw on the contribution made by the historic environment to the character of a place; these sculptures reflect an important narrative for the town and its historic identity.
- Policy 25 of the South East Lincolnshire Local Plan requires the council to promote opportunities to support and extend the offer of the town centres as destinations in a number of ways including enhancing the public realm through improvements to public spaces. The proposed installations are such an opportunity.
- Policy 29 of the South East Lincolnshire Local Plan requires that proposals within, affecting the setting of, or affecting views into or out of, a Conservation Area should preserve (and enhance or reinforce, as appropriate) features that contribute positively to the area's character, appearance and setting. The proposed sculptures do that by contributing towards telling the story of a significant part of the town's heritage immediately adjacent to the site of the original cattle market.

6. Flood Risk Assessment

The proposed siting of the sculptures is within a level 3 Flood Zone. Data related to this area was requested from the Lincolnshire and Northamptonshire Environment Agency (Ref. CCN-2024-373048 Request for Flood Risk Information for New Road, Spalding) (see Appendix 2).

Flood risk is a significant challenge in and around Spalding, however, the nature of the development comprises sculptures sized in keeping with the setting and area available set into a concrete plinth embedded in the ground. The stone weight is estimated at 6.1 and 5.5 tonnes for the bull and cow sculptures respectively. It is not anticipated that the sculptures will give rise to any additional flood risk.

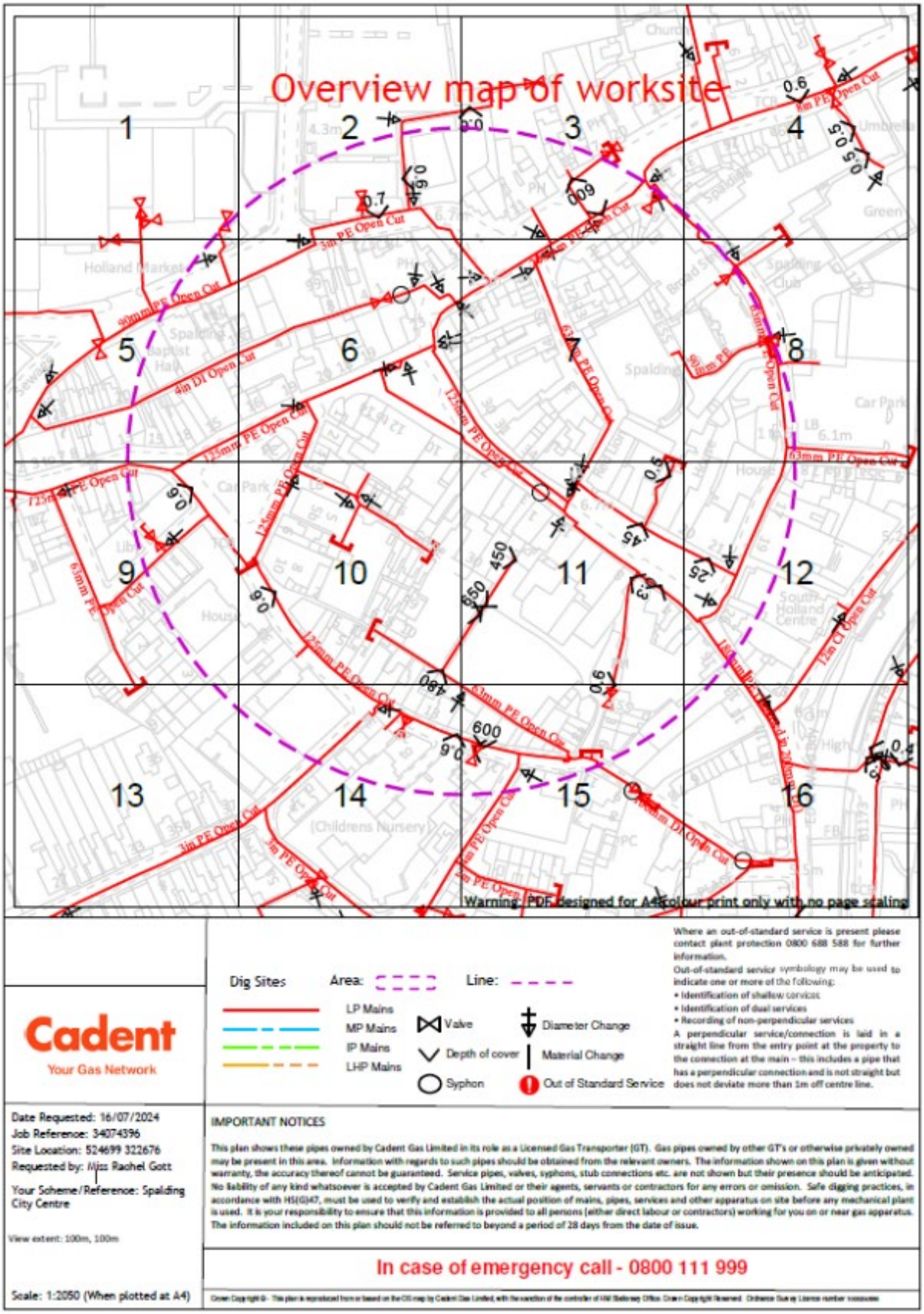
The nature of the development will not reduce the ability of the land around it to absorb rainfall or exacerbate surface run-off. In the case of sea/river flooding, the proposed sculpture will make no discernible difference to existing flood risk.

7. Biodiversity Net Gain

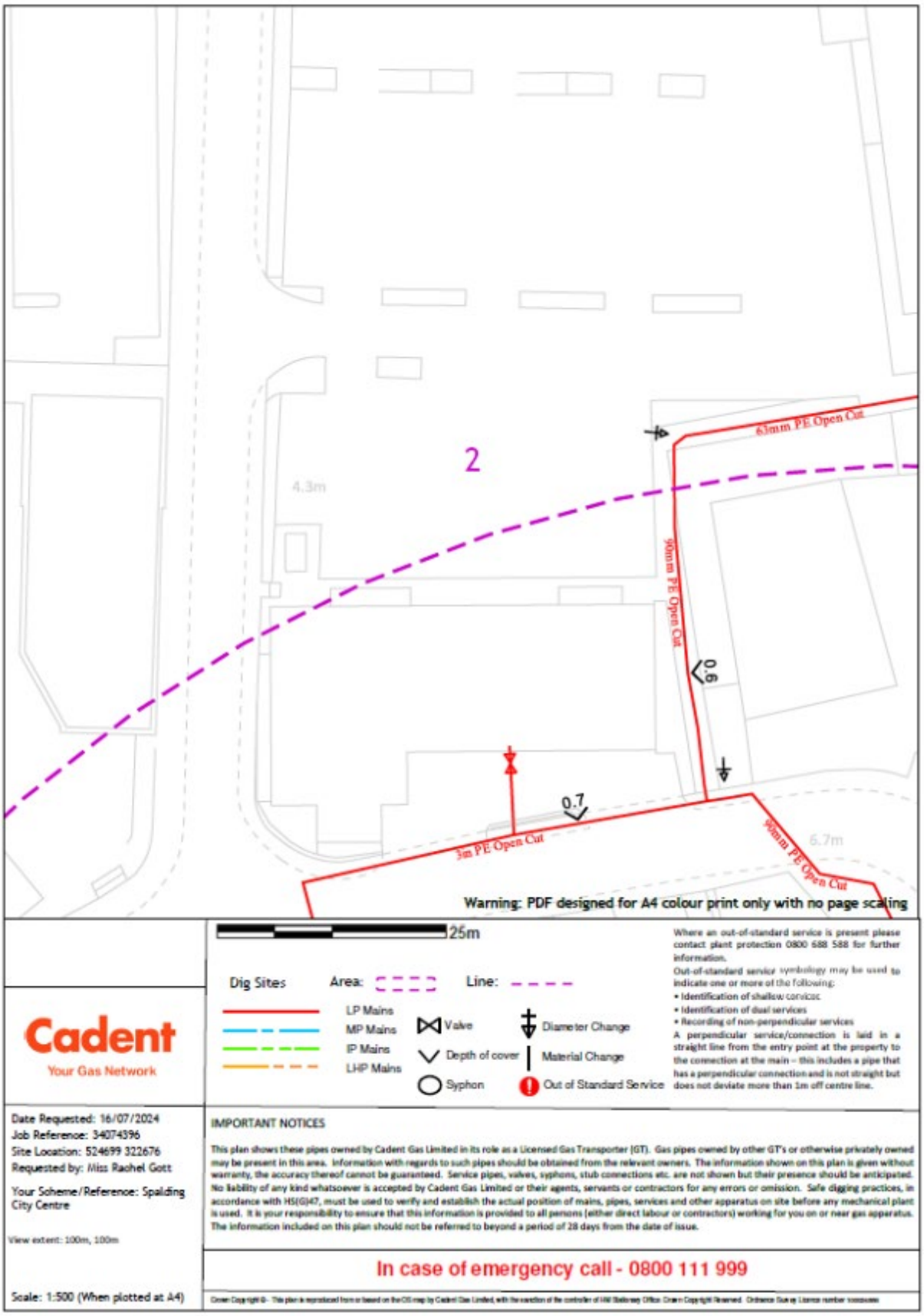
This proposal is a minor application which will demonstrate no net loss to biodiversity. We do not believe that planning permission would be subject to the biodiversity gain condition. The development is also small and below the de minimis threshold of 25m^2 with no priority habitat present. The footprint of the sculptures will be minimal, with the cattle sculptures under 3m^2 each. The proposal will not decrease the biodiversity of the sites which are existing pedestrianised hard standing areas. We are not proposing any reduction in existing planting.

Appendix 1: Utilities searches

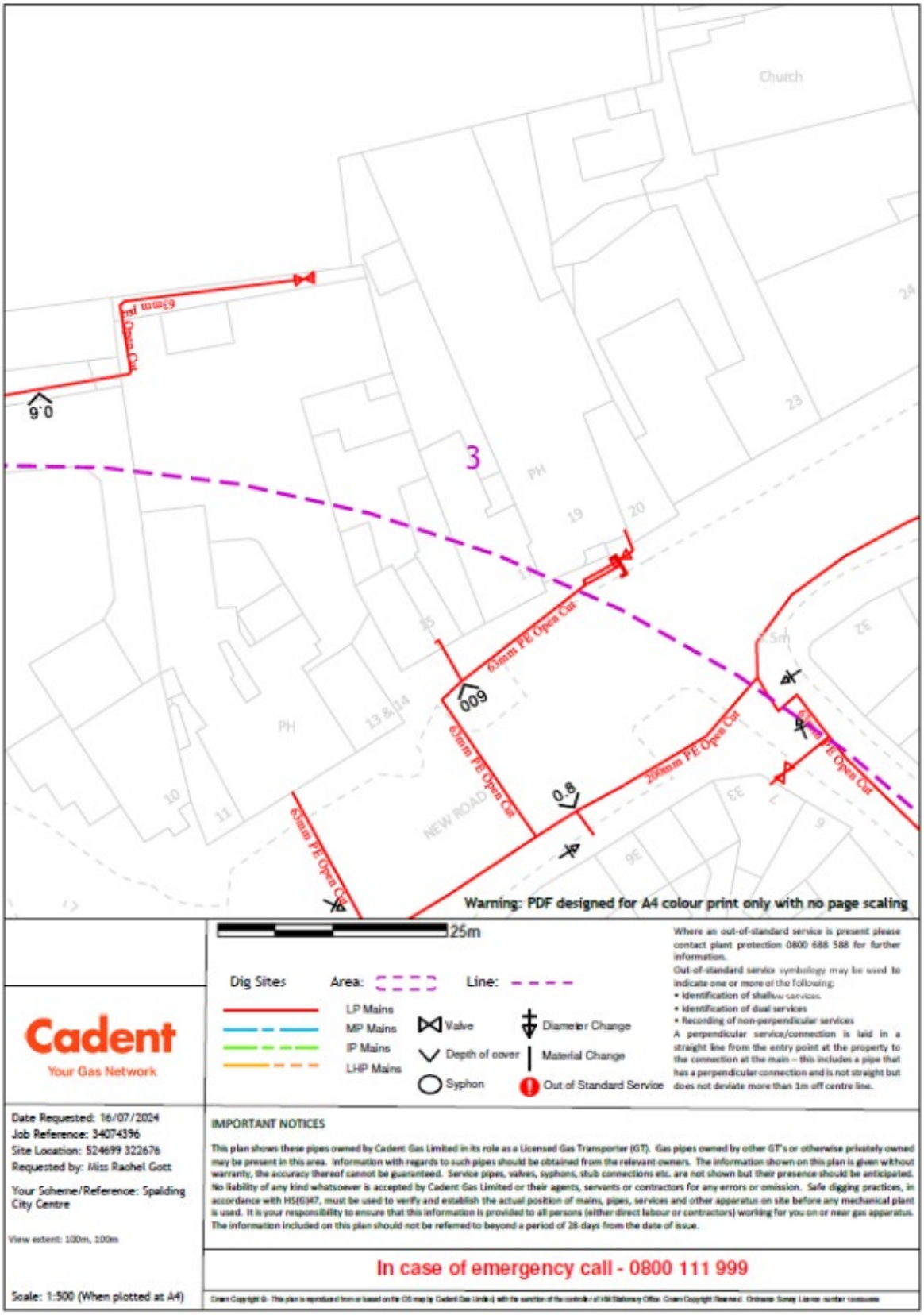
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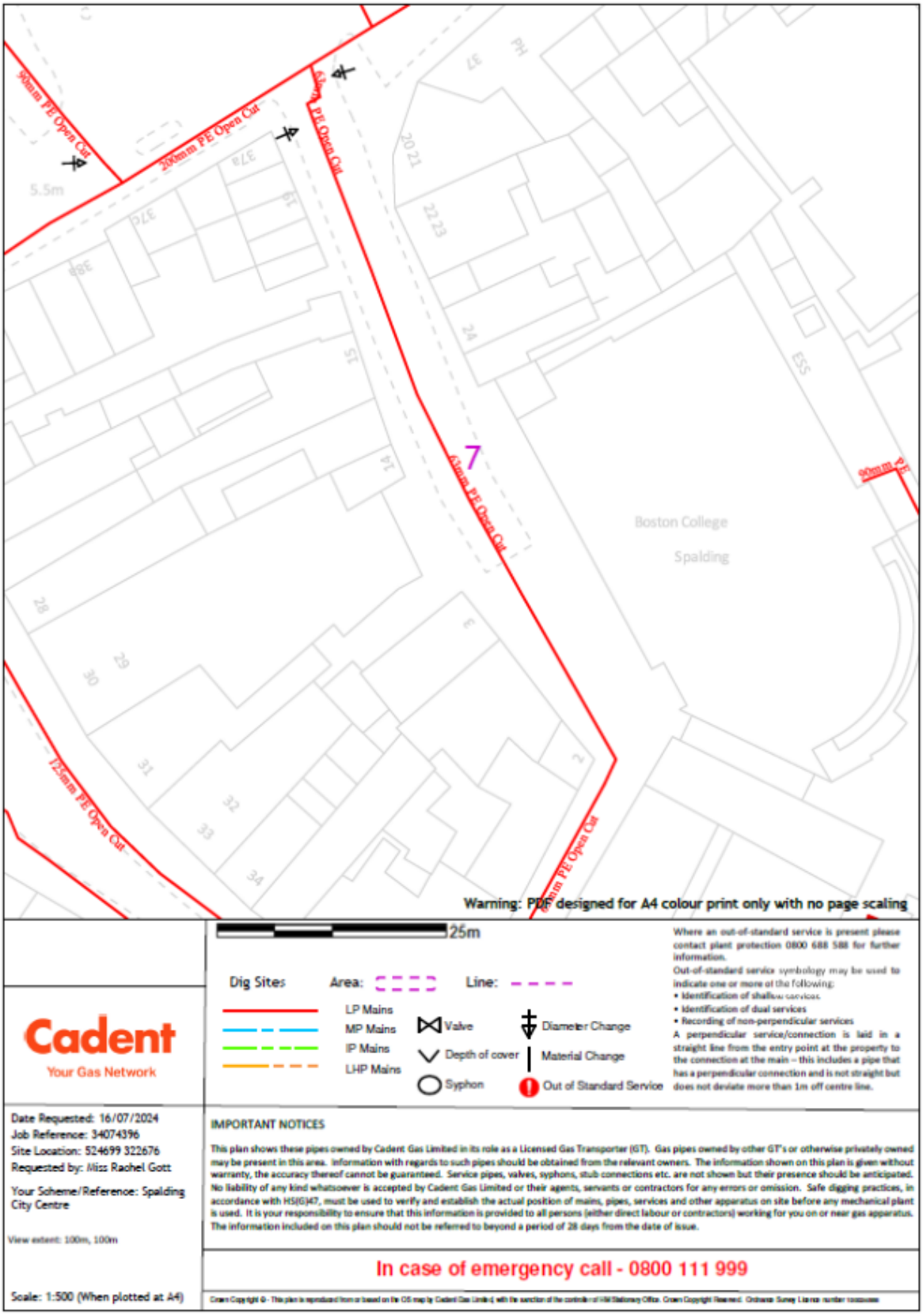
Swan Street utilities



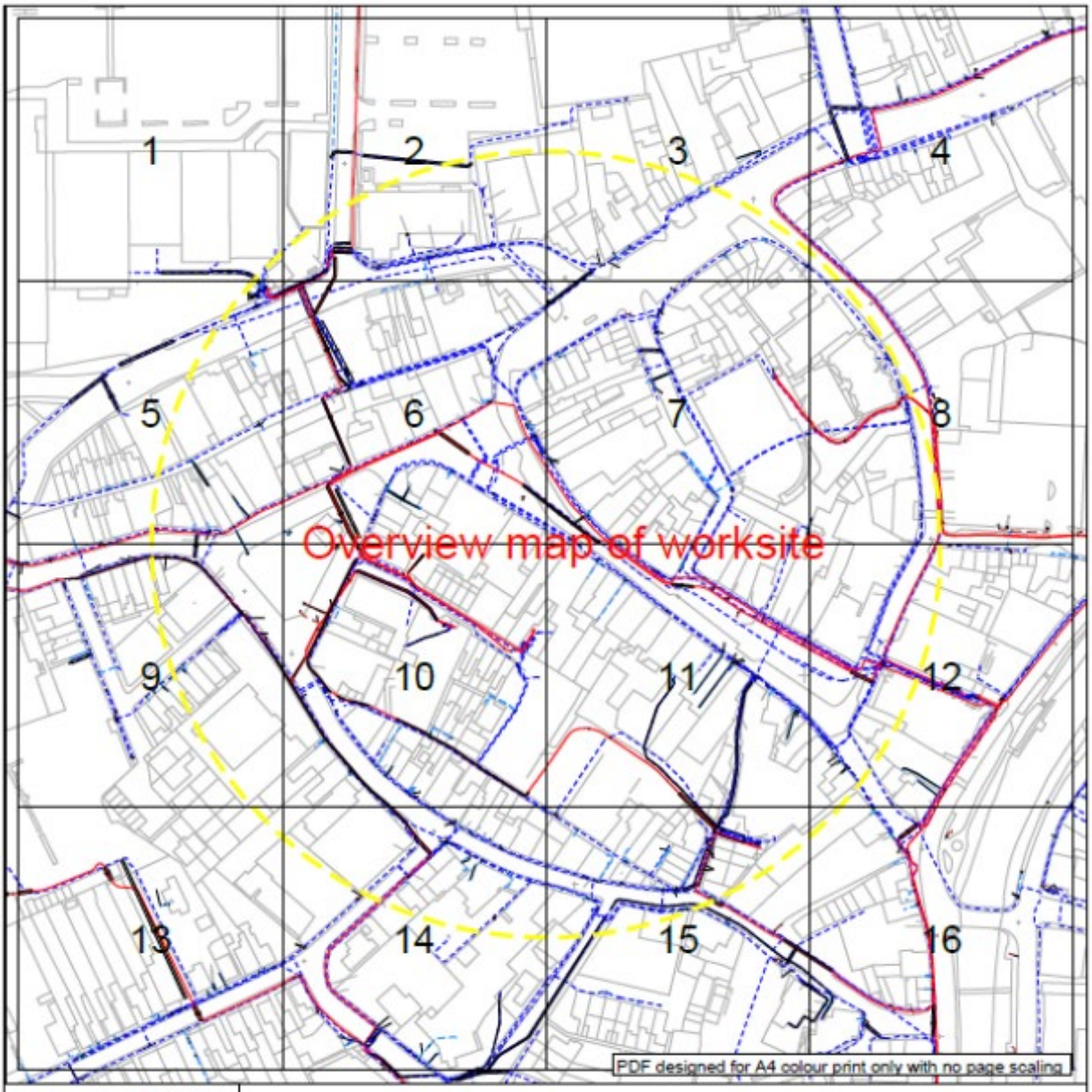
New Road utilities



New Road utilities (top left)



1.2 National Grid – Electricity Distribution



nationalgrid Electricity Distribution

Contact Us

Mapping Enquiries:
All areas 0121 623 9780

General Enquiries:
All areas 0800 096 3080

Date Requested: 16/07/2024
Job Reference: 34074396
Site Location: 524699 322676
Requested by: Miss Rachel Gott

Your Scheme/Reference:
Spalding City Centre

Scale: 1:2050 (When plotted at A4)

Link Box
Site Location
Line/Area

Overhead Line
PL
Service
LV
HV (11kV)
HV (33kV)
HV (66kV)
HV (132kV)

Underground Cable

National Grid Telecoms

Private Cables

PME Earth

Underground Earth

Pilot Cables

Pole Mounted Transformer

Ground Mounted Transformer

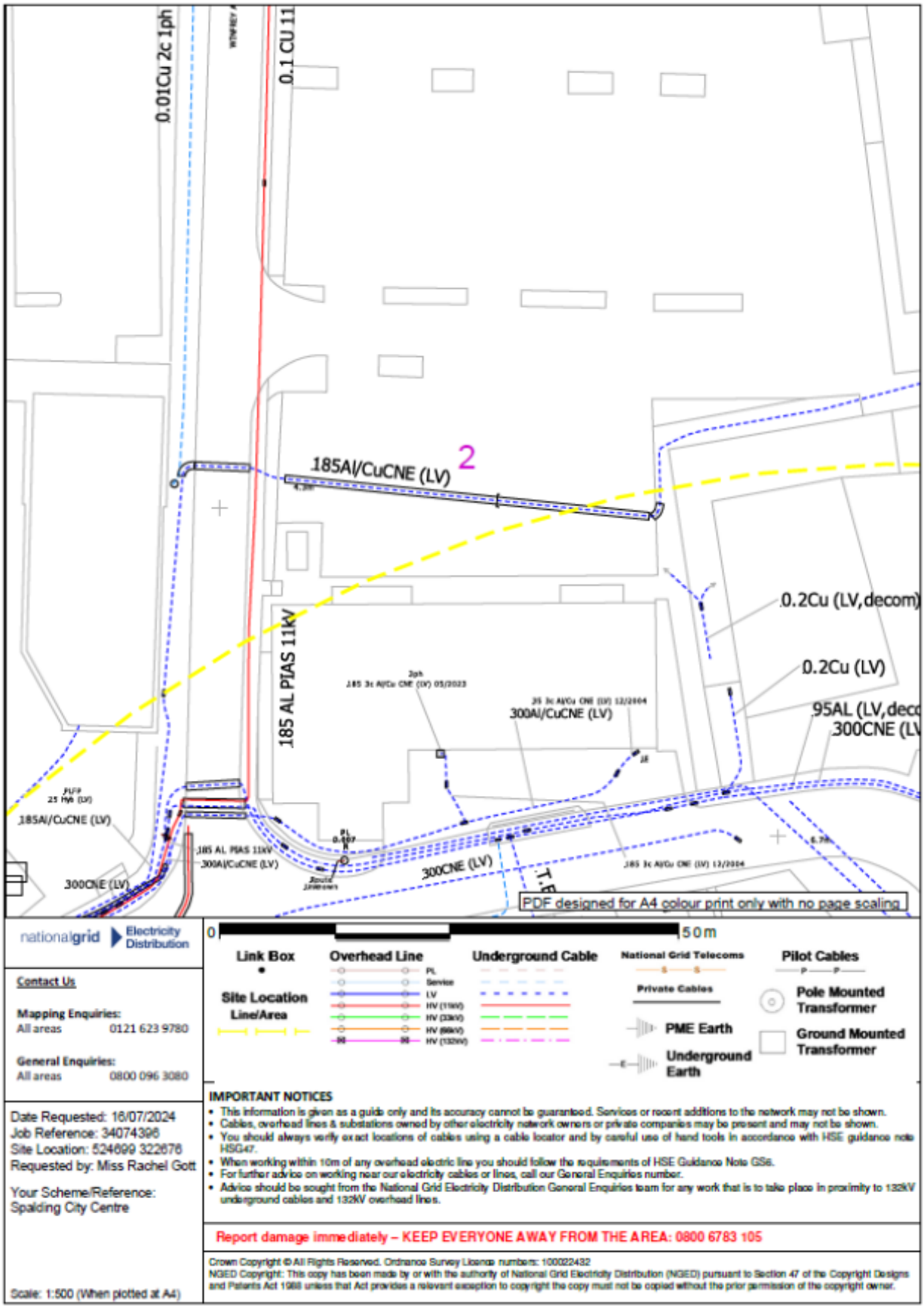
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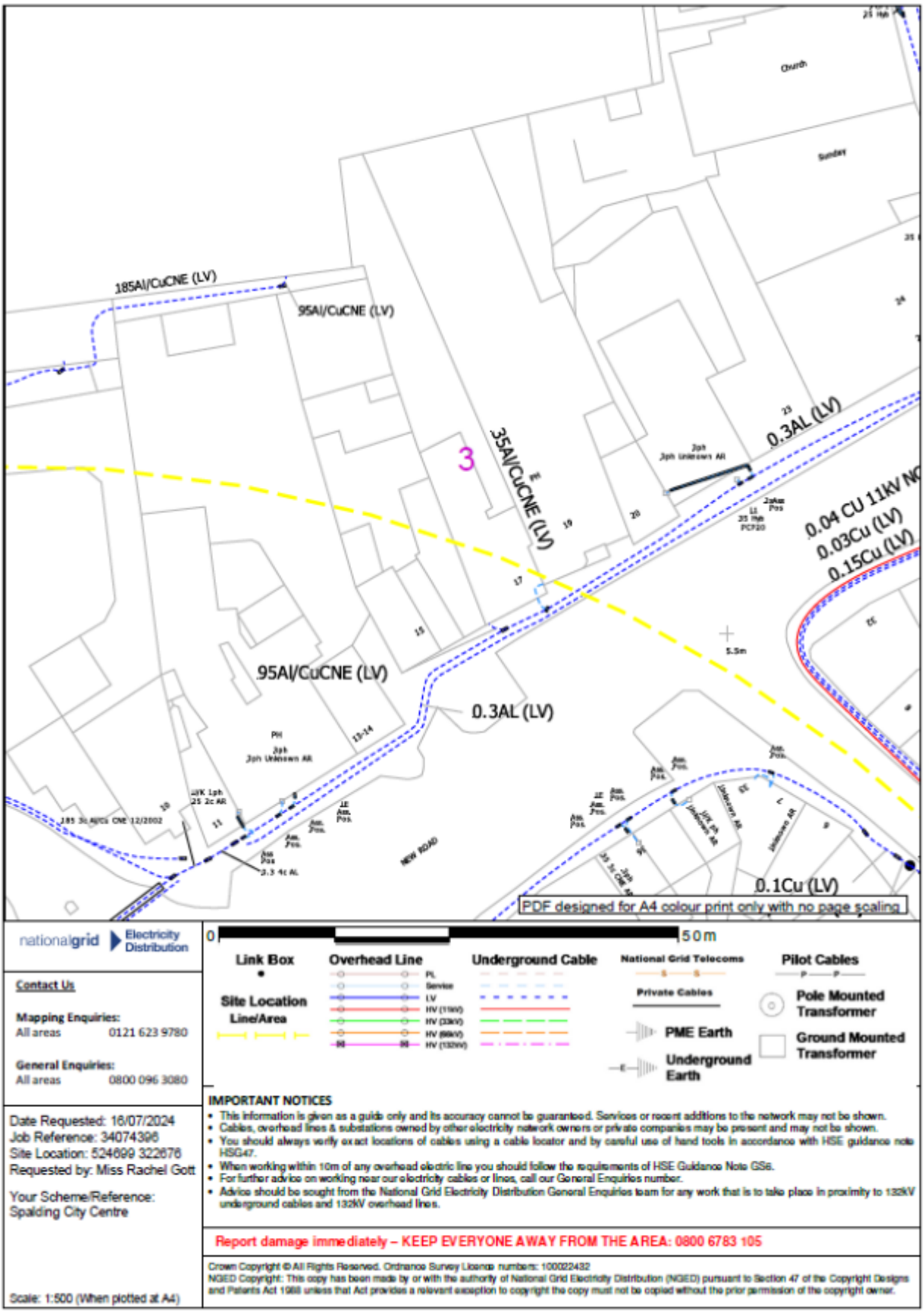
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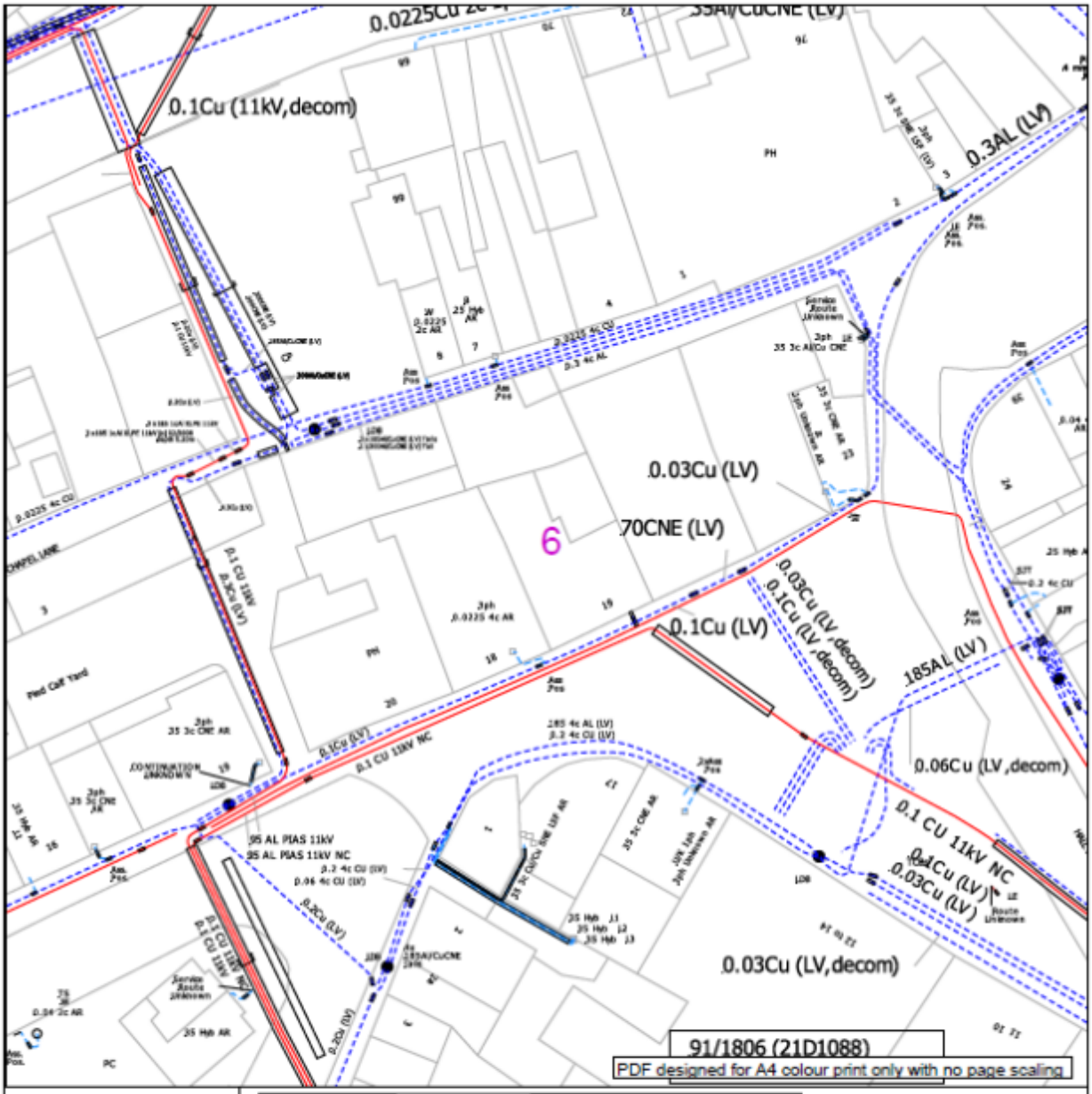
Swan Street utilities



New Road utilities`



New Road utilities (top right)



nationalgrid Electricity Distribution

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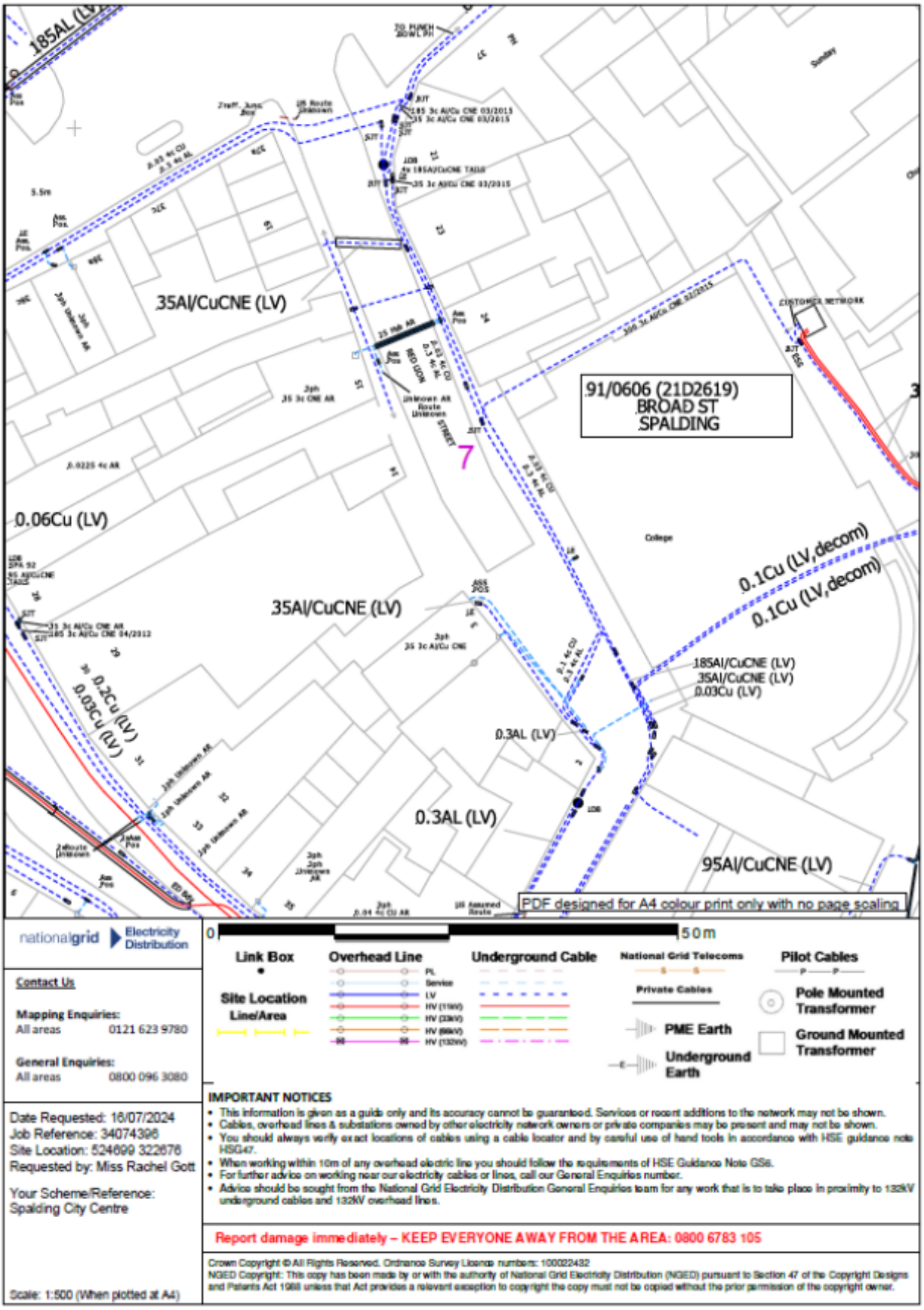
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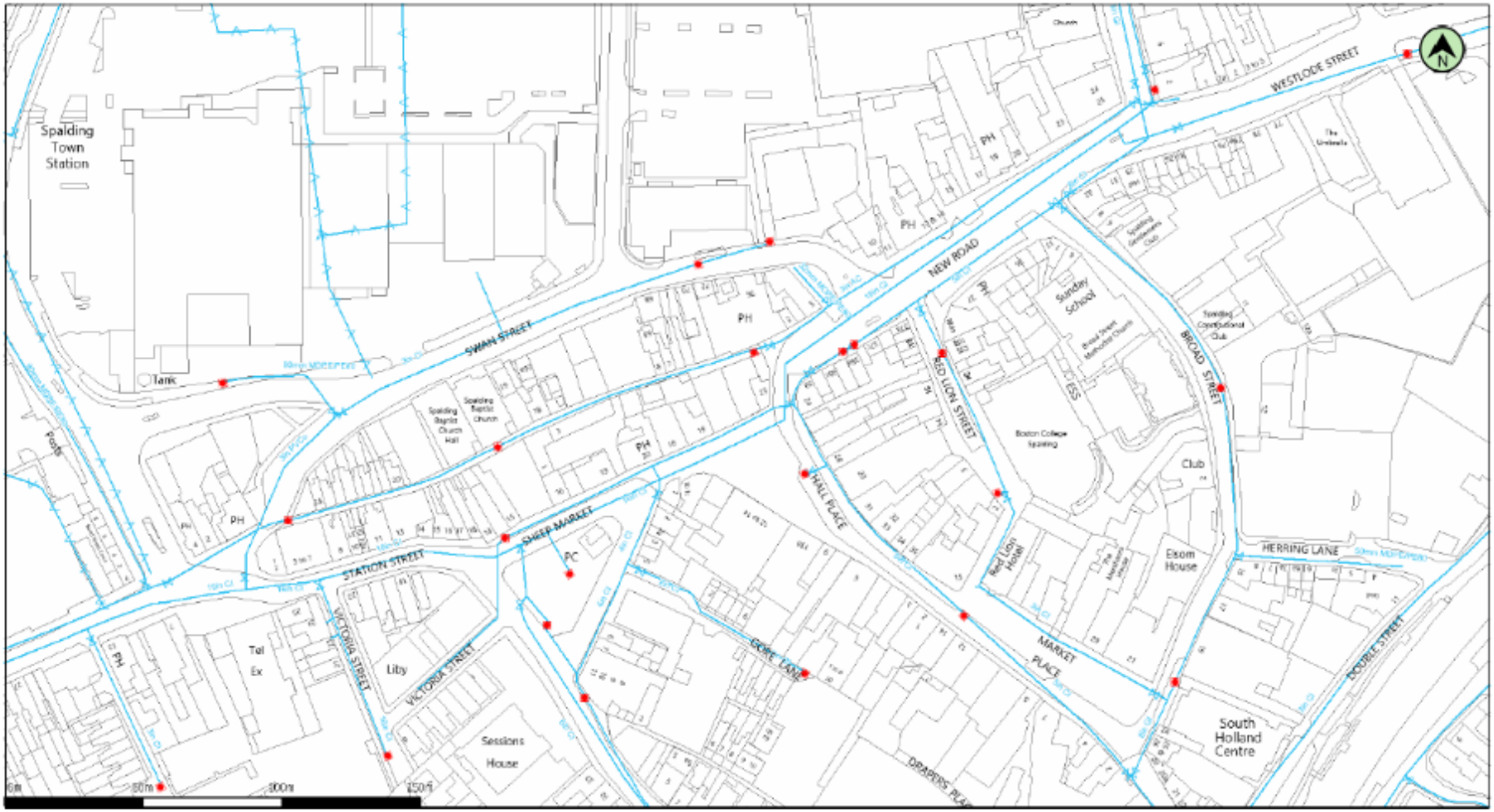
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New Road utilities (top left)



1.3 Anglian Water – Clean Water



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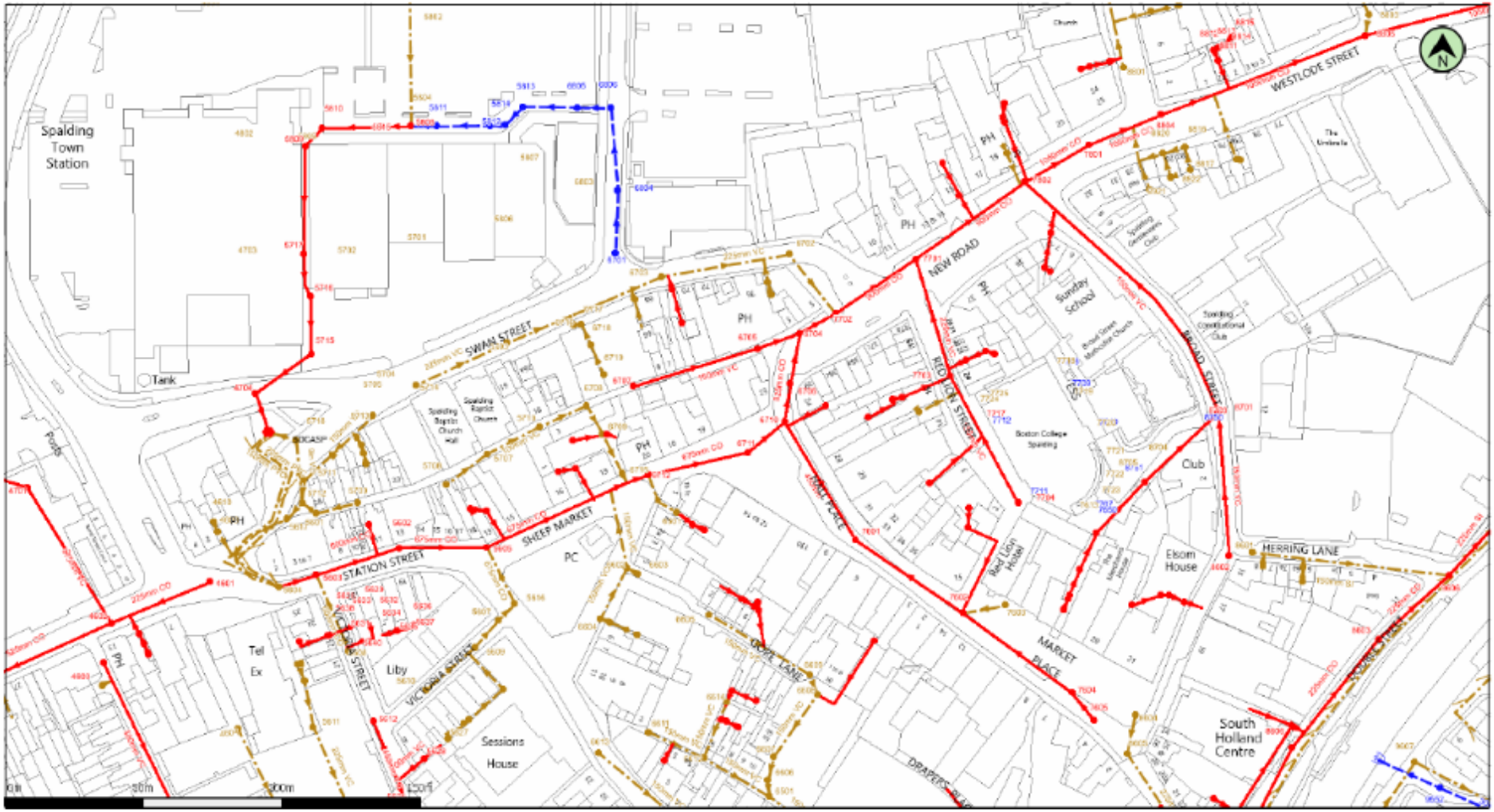
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Potable Water
Raw Water
Decommissioned Water
Fitting
Hydrant

alice.hagger@lincolnshire.gov.uk

love every drop anglianwater

1.4 Anglian Water – Waste Water



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Date: 11/07/24 Scale: 1:1936 Map Centre: 524671,322738 Data updated: 30/06/24

Wastewater Plan A4
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- Foul Sewer
- Surface Sewer
- Combined Sewer
- Final Effluent
- Rising Main*
- Private Sewer*
- Decommissioned Sewer*
- Outfall*
- Inlet*
- Manhole*
- Sewage Treatment Works
- Public Pumping Station
- Decommissioned Pumping Station

*(Colour denotes effluent type)

alice.hagger@lincolnshire.gov.uk

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1.5 Virgin Media – Telecoms Plan



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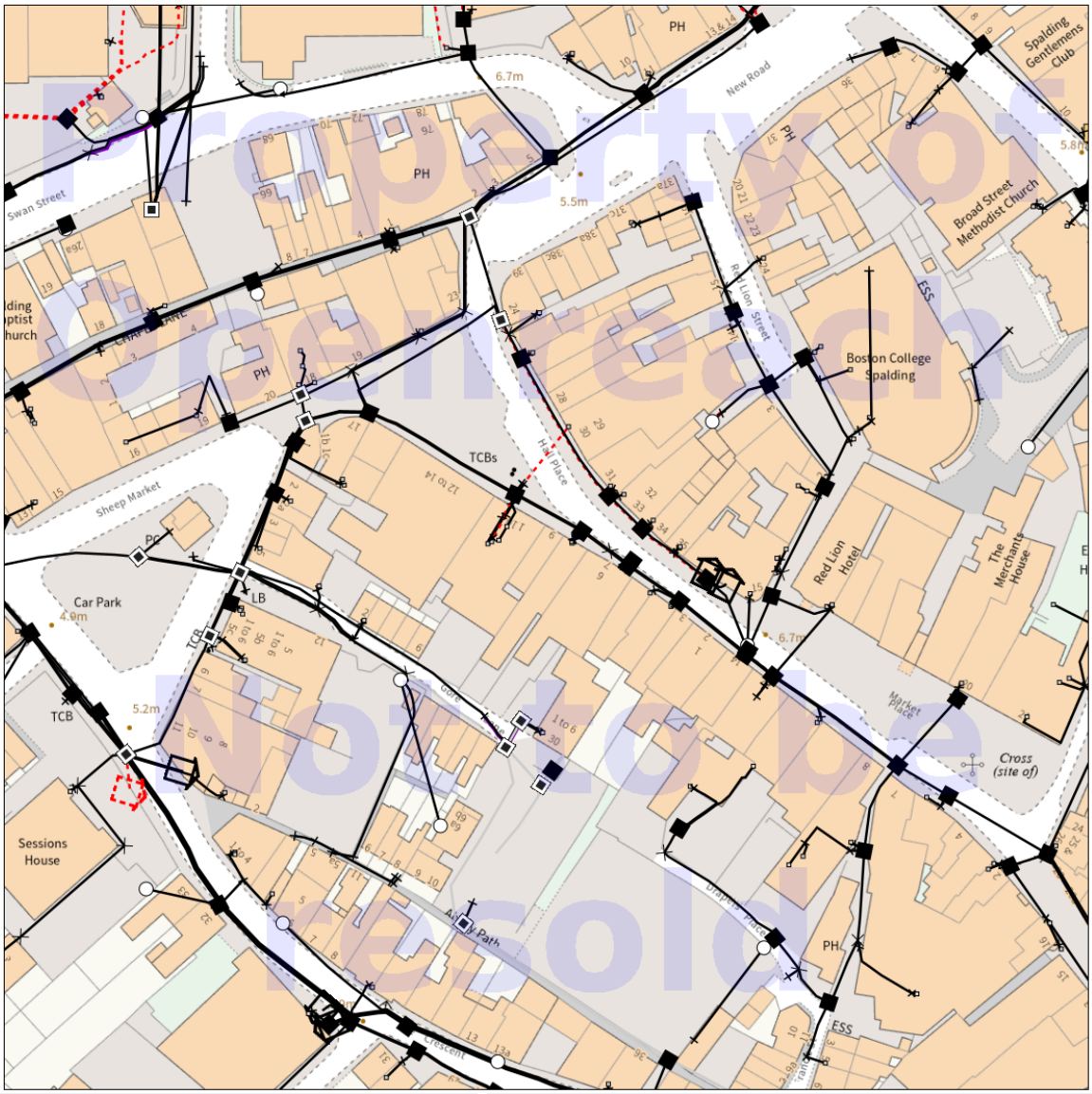
Important Information - please read The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where mains voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the "Affected Postcodes.pdf", which can be downloaded from this website. Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan. This plan is produced by Virgin Media Limited (c) Crown copyright and database rights 2024 Ordnance Survey 100019209.

Duct, Trench | Chamber | Cabinet

alice.hagger@lincolnshire.gov.uk

1.6 Openreach – Telecoms Plan

Maps on Demand Plant Information Reply



Property of Openreach Not to be resold

IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made newar to BT apparatus which may exist at various depths and may deviate from the marked route.

openreach

CLICK BEFORE YOU DIG

FOR PROFESSIONAL FREE ON SITE ASSISTANCE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS INCLUDING LOCATE AND MARKING SERVICE

email nnhc@openreach.co.uk

ADVANCE NOTICE REQUIRED
(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

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KEY TO BT SYMBOLS

	Planned	Live
PCP		
Pole		
Box		
Manhole		
Cabinet		

Change Of State	+	Hatchings	
Split Coupling	×	Built	
Duct Tee	▲	Planned	
Building		Inferred	
Kiosk	K	Duct	

Other proposed plant is shown using dashed lines.
BT Symbols not listed above may be disregarded.
Existing BT Plant may not be recorded.
Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.

	Pending Add	In Place	Pending Remove	Not In Use
Power Cable				
Power Duct				N/A

BT Ref : BJP12358W
Map Reference : (centre) TF2469822683
Easting/Northing : (centre) 524698,322683
Scale : 1:250
Issued : 12/07/2024 12:35:25

WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

Appendix 2: Flood Risk Data

2.1 Environment Agency

Provided by Environment Agency, Ceres House, Searby Road, Lincoln, LN2 4DW

Email: enquiries@environment-agency.gov.uk

Environment Agency ref: CCN-2024-373048

Date: 28/08/2024

Provision of Flood Risk Information for New Road, Spalding.

1. Flood Map

The attached map includes the current Flood Map for Planning for your area. The map indicates the area at risk of flooding, assuming no flood defences exist, for a flood with a 0.5% chance of occurring in any year for flooding from the sea, or a 1% chance of occurring for fluvial (river) flooding. It also shows the extent of the Extreme Flood Outline which represents the extent of a flood with a 0.1% chance of occurring in any year, or the highest recorded historic extent if greater.

In some locations, such as around the fens and the large coastal floodplains, showing the area at risk of flooding assuming no defences may give a slightly misleading picture in that if there were no flood defences, water would spread out across these large floodplains. This flooding could cover large areas of land but to relatively shallow depths and could leave pockets of locally slightly higher land as isolated dry islands. It is important to understand the actual risk of the flooding to these dry islands, particularly in the event of defence failure.

The Flood Map for Planning also shows the location of formal raised flood defences and flood storage reservoirs. It represents areas at risk of flooding for present day only and does not take account of climate change.

The Flood Map for Planning only indicates the extent and likelihood of flooding from rivers or the sea. It should also be remembered flooding may occur from other sources such as surface water sewers, road drainage, etc.

2. Recorded Flood Outlines

With regards to the history of flooding I can advise we do not have any records of flooding in this area. It is possible recent flooding may have occurred which we are currently investigating, therefore this information may be subject to change. It is possible other flooding may have occurred which other risk management authorities, such as the Lead Local Flood Authority (ie top tier council) or Internal Drainage Board (where they exist) have responsibility. Please note, our Recorded Flood Outlines do not reflect the latest (October 2023-present) flood incidents. Due to the scale of the events, it will take time to gather the information and verify the extent of the flooding before we are able to provide this information.

3. Schemes in the area

There are no ongoing capital projects to reduce or sustain the current flood risk to this site.

4. Fluvial Flood Risk Information

This site is considered to be at risk of flooding from main rivers.

The site may also be at risk from local ordinary watercourses for which other risk management authorities, such as the Lead Local Flood Authority (ie top tier council) or Internal Drainage Board (where they exist) have responsibility.

4.1 Fluvial Defence Information

There are no formal flood defences reducing the risk of flooding to this site.

4.2 Fluvial Modelled Levels and Flows

Available modelled fluvial flood levels and flows for the model nodes shown on the attached map are set out in the data table attached. This data is taken from the model named on the data table, which is the most up-to-date model currently available.

Please note these levels are “in-channel” levels and therefore may not represent the flood level on the floodplain, particularly where the channel is embanked or has raised defences. Our models may not have the most up to date climate change allowances. In time we will update our models for the latest allowances. You should refer to 'Flood risk assessments: climate change allowances' to check if the allowances modelled are appropriate for the type of development you are proposing and its location. You may need to undertake further assessment of future flood risk using different allowances to ensure your assessment of future flood risk is based on best available evidence.

4.3 Fluvial Modelled Flood Extents

Our modelled flood extents, which take into account flood defences, do not impact this site. There may still be a residual risk of fluvial flooding to your site due to the failure of flood management infrastructure such as a breach of a raised flood defence. You may need to undertake further assessment of this residual risk using the data provided.

4.4 Fluvial Hazard Mapping

For certain locations we have carried out modelling to map the maximum values of flood depth, velocity and hazard rating (danger to people) resulting from overtopping and / or breaching of defences at specific locations for a number of scenarios.

At present this information is available for fluvial flood risk in Northampton, Lincoln, Wainfleet and some isolated rural locations.

The number of locations we have this information for is expected to increase in time.

At present this site is not covered by any Environment Agency hazard mapping.

Detailed Hazard Mapping is available within the 2017 Update of South Holland Strategic Flood Risk Assessment. [Appended below]

5. Tidal Flood Risk Information

This site is not considered to be at risk from tidal flooding.

6. Other Flood Risk Management Authorities

The information provided with this letter relates to flood risk from main river or the sea. The Flood Map for Surface Water can be viewed at https://www.gov.uk/check-long-term-flood-risk

2.2 Gov.uk – Check your long term flood risk service

Search results using [Your long term flood risk assessment - Check your long term flood risk - GOV.UK (check-long-term-flood-risk.service.gov.uk)] – dated September 2024:

1, Sheep Market, Spalding, PE11 1BH

The highest risk of flooding at this location is from rivers and the sea.

This information tells you the flood risk of an area, not a specific property.

We have paused updates to information about flood risk from rivers and the sea and surface water while we get ready for new data.

Rivers and the sea

Yearly chance of flooding: Medium

Low-lying areas that are close to rivers or the sea are more likely to flood when water levels rise.

This information takes into account any flood defences.

Surface water

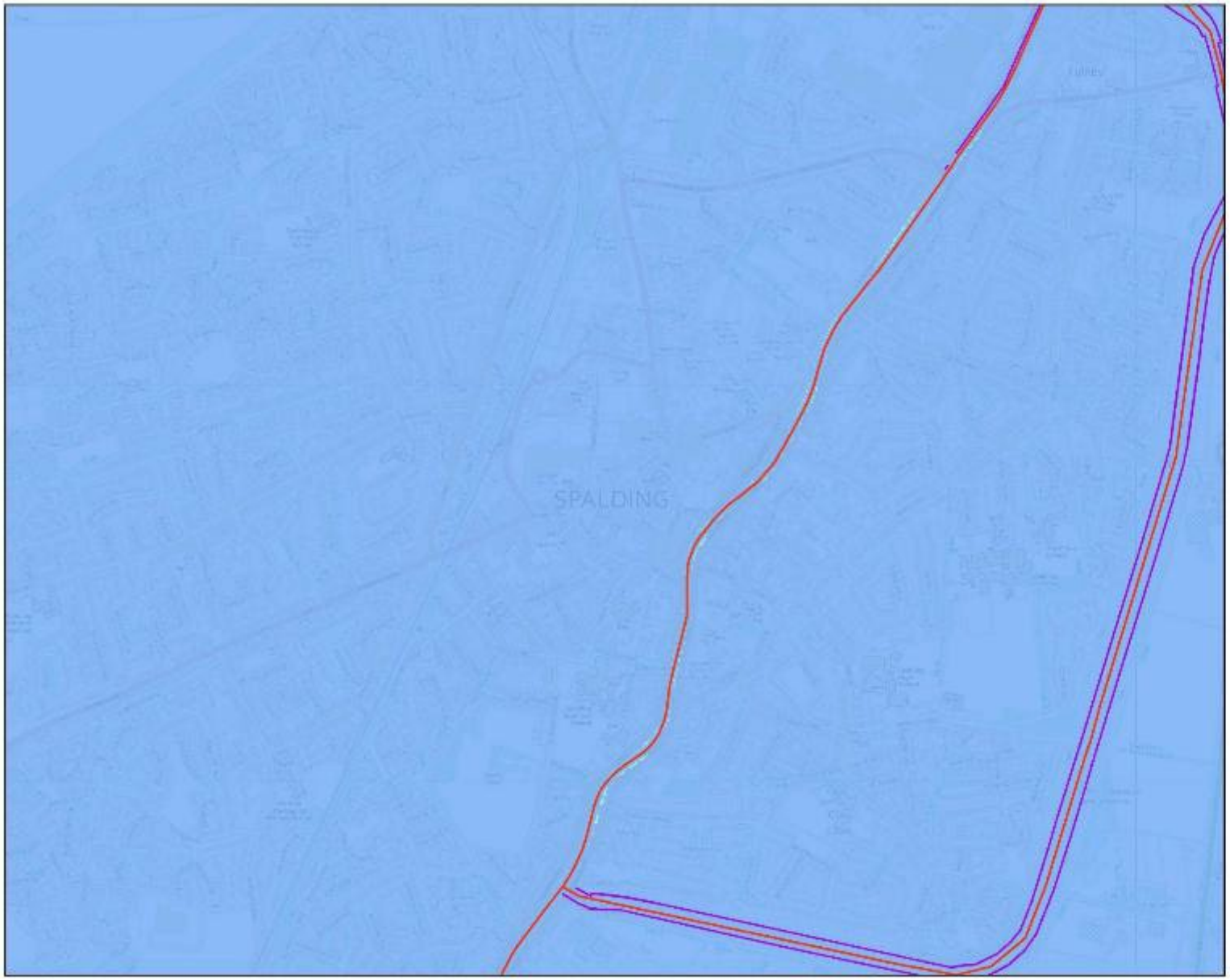
Yearly chance of flooding: Very low

Surface water flooding is sometimes known as flash flooding. It happens when rainwater cannot drain away through normal drainage systems.

Other flood risks

Groundwater	Flooding from groundwater is unlikely in this area.
Reservoirs	Flooding from reservoirs is unlikely in this area.

Flood Map centred on TF 24678 22735 - created August 2024 [Ref: CCN-2024-373048]



Environment Agency

Scale 1:10,000

N

Legend

- Main Rivers
- Raised Defences
- Flood Storage Areas
- Areas at Risk of Flooding from Rivers or the Sea
- Extreme Flood Outline

Dark blue shows the area that could be affected by flooding either from rivers or the sea, if there were no flood defences. This area could be flooded:

- from the sea by a flood that has a 0.5% (1 in 200) or greater chance of happening each year

- or from a river by a flood that has a 1% (1 in 100) or greater chance of happening each year

Light blue shows the extent of the Extreme Flood Outline, which represents the extent of a flood event with a 0.1% chance of occurring in any year, or the highest recorded historic extent if greater.

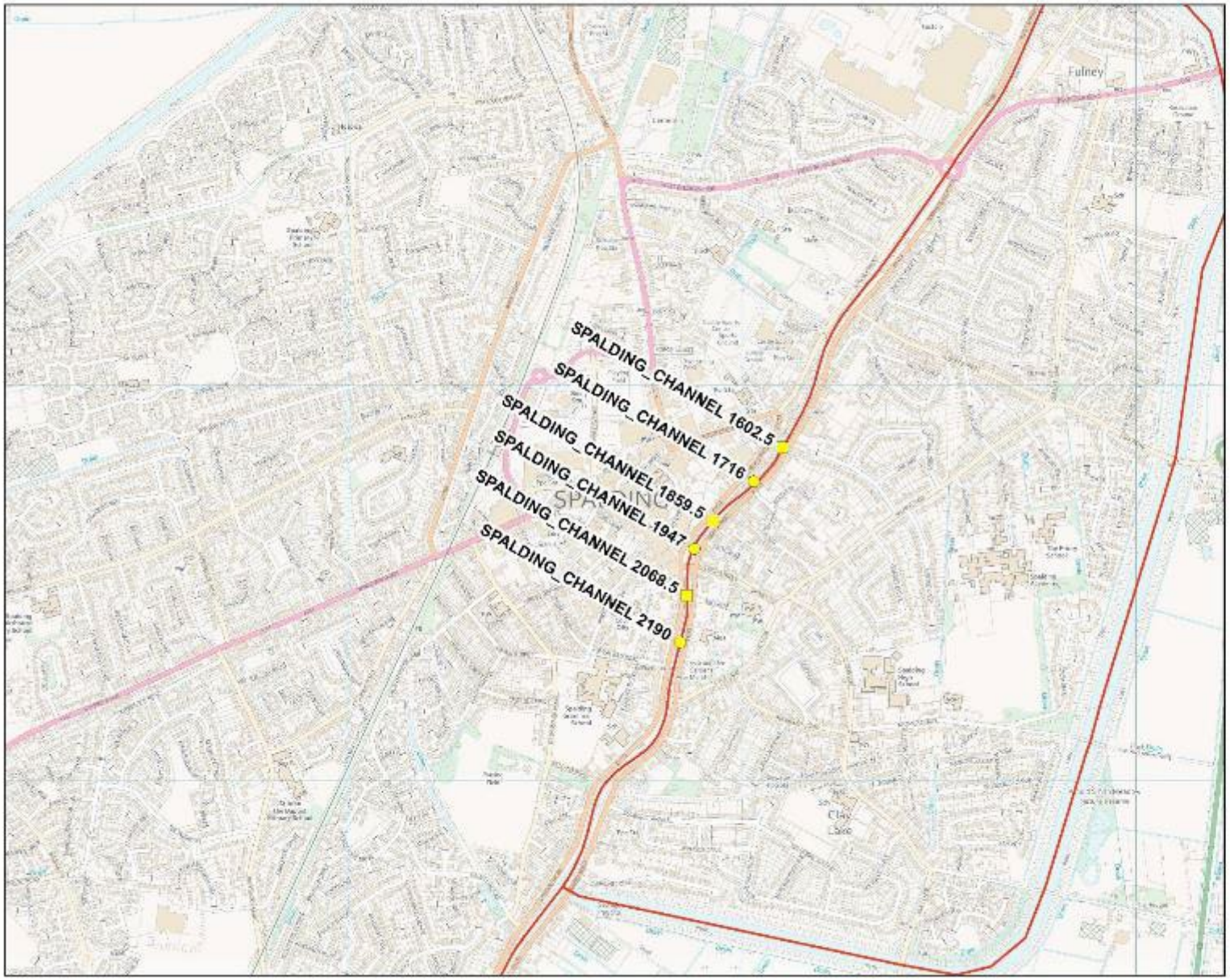
These two colours show the extent of the natural floodplain if there were no flood defences or certain other manmade structures and channel improvements. Sites outside the two extents, but behind raised defences, may be affected by flooding if the defences are overtopped or fail.

Created by the Partnerships and Strategic Overview Team, Kettering

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Contact Us: National Customer Contact Centre, PO Box 544, Rotherham, S60 1BY. Tel. 03708 506 506 (Mon-Fri 8-6). Email: enquiries@environment-agency.gov.uk

Modelled Nodes Map centred on TF 24678 22735 - created August 2024 [Ref: CCN-2024-373048]



Environment Agency

Scale 1:10,000

N

Legend

- Modelled Nodes - Flows
- Modelled Nodes - Levels
- Main Rivers

Created by the Partnerships and Strategic Overview Team, Kettering

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Fluvial Flood Levels (mODN)

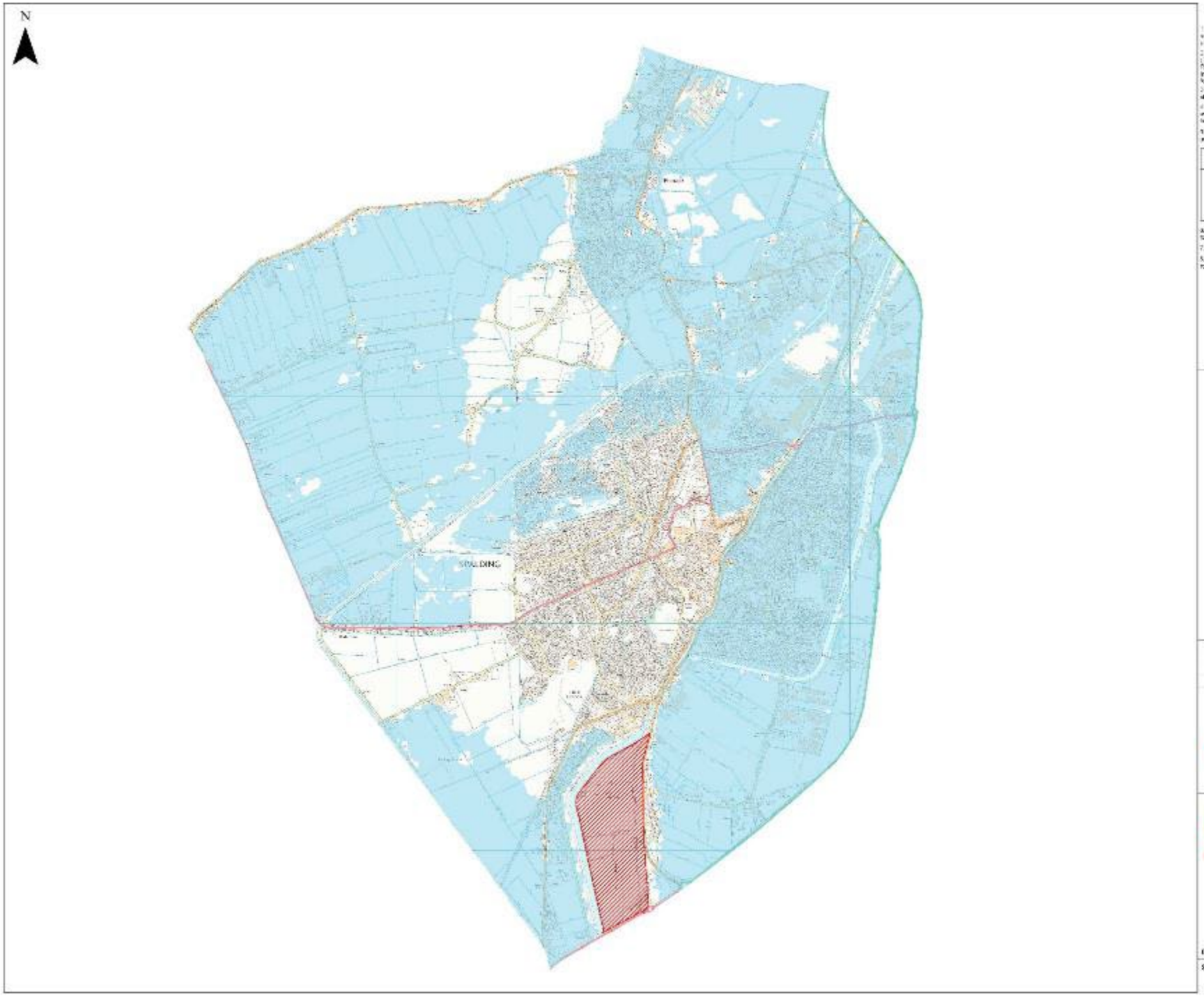
The fluvial flood levels for the model nodes shown on the attached map are set out in the table below. They are measured in metres above Ordnance Datum Newlyn (mODN).

			Annual Exceedance Probability - Maximum Water Levels (mODN)											
Node Label	Easting	Northing	50% (1 in 2)	20% (1 in 5)	10% (1 in 10)	5% (1 in 20)	3.33% (1in 30)	2% (1 in 50)	1.33% (1 in 75)	1% (1 in 100)	1% (1 in 100) inc 20% Climate Change	0.5% (1 in 200)	0.1% (1 in 1000)	0.1% (1 in 1000) inc 20% Climate Change
SPALDING_CHANNEL 1716	525031	322758	3.70	3.98	4.17	4.44	4.49	4.51	4.52	4.52	4.53	4.55	4.67	4.67
SPALDING_CHANNEL 1947	524880	322587	3.69	3.98	4.17	4.44	4.49	4.50	4.51	4.51	4.53	4.55	4.67	4.67
SPALDING_CHANNEL 2190	524844	322350	3.69	3.97	4.17	4.43	4.49	4.50	4.51	4.51	4.52	4.54	4.67	4.67

Fluvial Flood Flows (m³/s)

The fluvial flood flows for the model nodes shown on the attached map are set out in the table below. They are measured in metres cubed per second (m³/s).

			Annual Exceedance Probability - Maximum Flows (m³/s)											
Node Label	Easting	Northing	50% (1 in 2)	20% (1 in 5)	10% (1 in 10)	5% (1 in 20)	3.33% (1in 30)	2% (1 in 50)	1.33% (1 in 75)	1% (1 in 100)	1% (1 in 100) inc 20% Climate Change	0.5% (1 in 200)	0.1% (1 in 1000)	0.1% (1 in 1000) inc 20% Climate Change
SPALDING_CHANNEL 1602.5	525104	322844	3.30	4.61	5.03	5.75	5.85	5.51	6.12	6.48	6.34	5.83	8.63	8.54
SPALDING_CHANNEL 1859.5	524928	322659	3.69	4.97	5.86	6.68	6.87	6.45	7.03	7.47	7.43	6.90	9.83	9.44
SPALDING_CHANNEL 2068.5	524861	322469	3.93	5.64	6.49	7.42	7.70	7.22	7.75	8.23	8.30	7.75	10.68	10.13



NOTES

1. [illegible]

2. [illegible]

3. [illegible]

4. [illegible]

5. [illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

6. [illegible]

7. [illegible]

8. [illegible]

Map Legend

Flooding Probability levels :

- [illegible]
- [illegible]
- [illegible]
- [illegible]

REV	DATE	REMARKS
2	Feb 17	Modelling and Mapping Update
1	Dec 15	Modelling and Mapping Update

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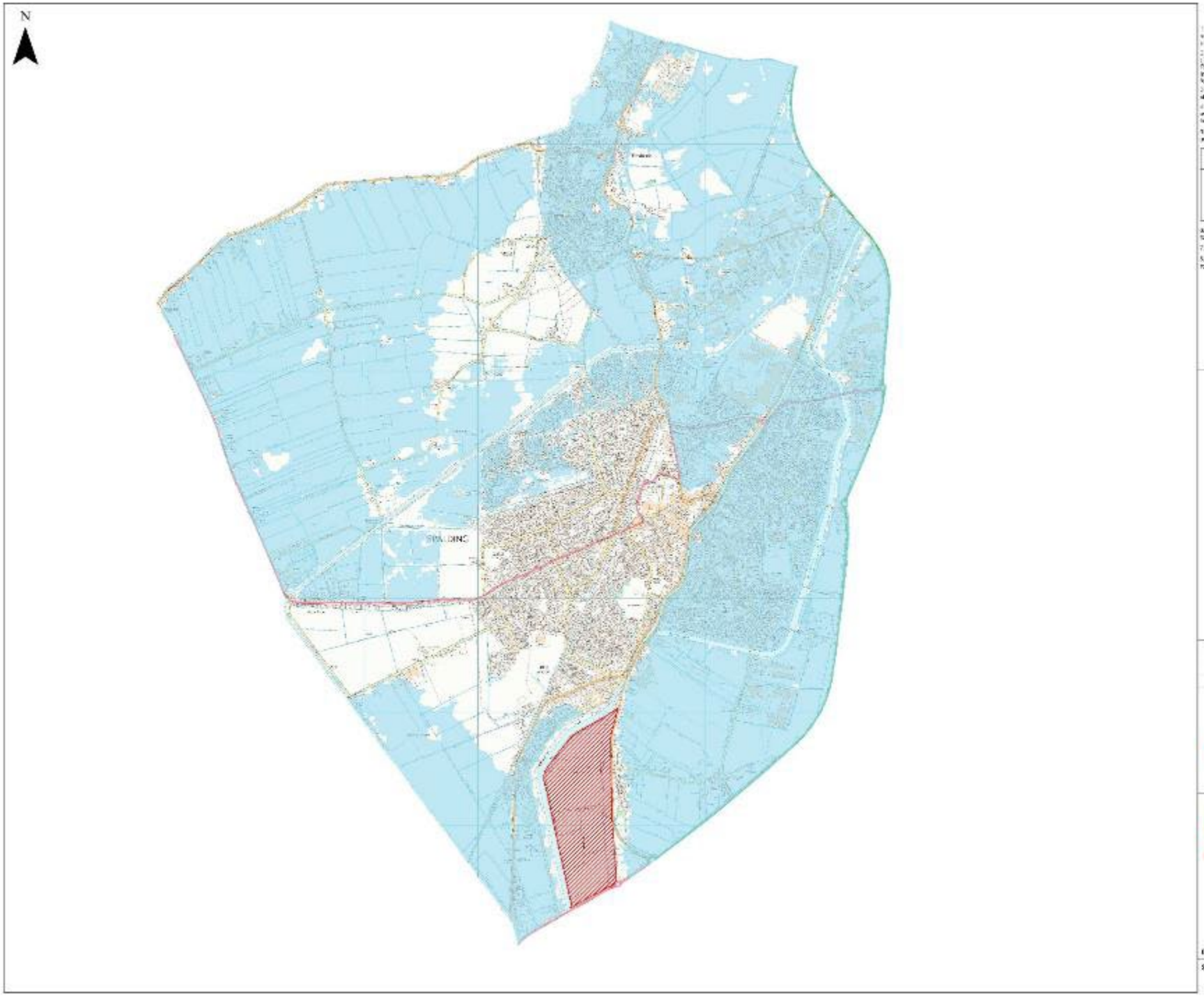
UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

Residual Risk Extent
Spalding - Year 2115
0.1% Event Probability

DATE OF ISSUE: Feb 2017 REV NO: 2

SCALE: 1 : 15 000 @ A1

MAP NO:



NOTES

1. [illegible]

2. [illegible]

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5. [illegible]

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7. [illegible]

8. [illegible]

Map Legend

[illegible]

REV	DATE	REMARKS
2	Feb 17	Modelling and Mapping Update
1	Dec 15	Modelling and Mapping Update

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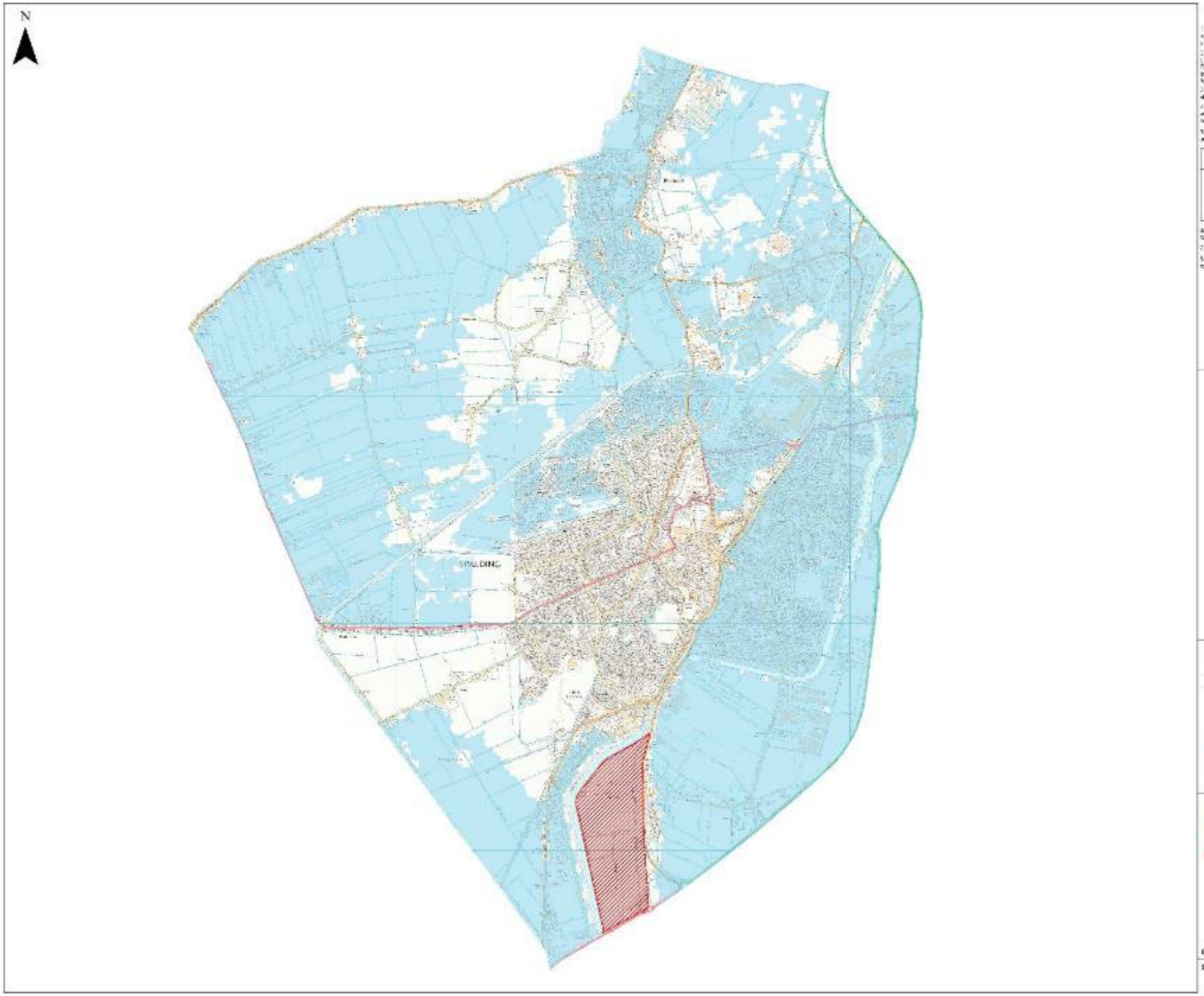
UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

Residual Risk Extent
Spalding - Year 2115
1% Fluvial / 0.5% Tidal Event Probability

DATE OF ISSUE: Feb 2017 REV NO: 2

SCALE: 1 : 15 000 @ A1

MAP NO:



NOTES

1. [illegible]

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4. [illegible]

5. [illegible]

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[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

6. [illegible]

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8. [illegible]

Map Legend

Flooding Probability levels :

[illegible]

[illegible]

[illegible]

[illegible]

REV	DATE	REMARKS
2	Feb 17	Modelling and Mapping Update
1	Dec 15	Modelling and Mapping Update

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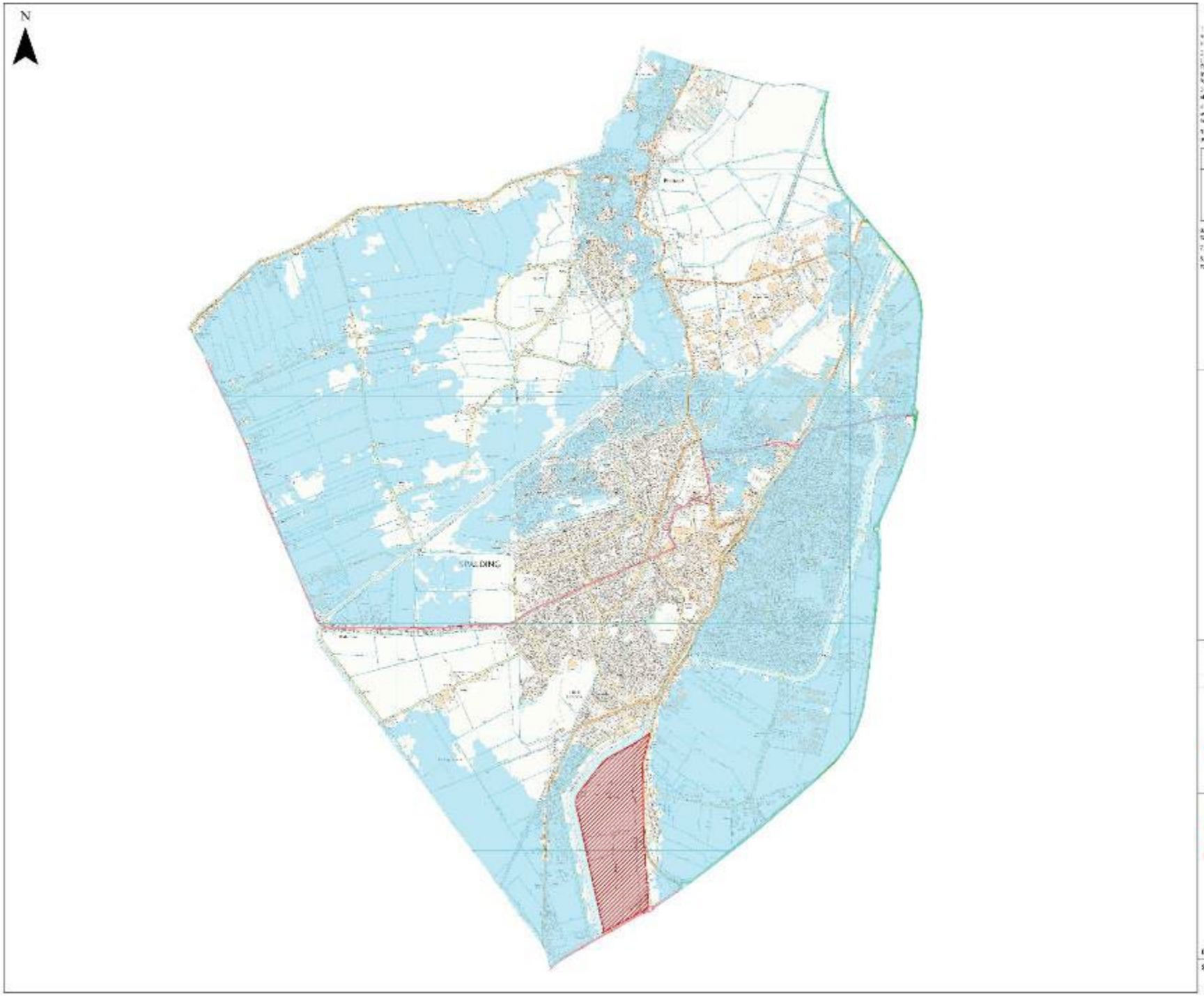
UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

Residual Risk Extent
Spalding - Present Day
0.1% Event Probability

DATE OF ISSUE: Feb 2017 REV NO: 2

SCALE: 1 : 15 000 @ A1

MAP NO:



NOTES

1. [illegible]

2. [illegible]

3. [illegible]

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[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

6. [illegible]

7. [illegible]

8. [illegible]

Map Legend

Flooding Probability levels :

- High
- [illegible]
- Residual Risk Zone
- [illegible]

REV	DATE	REMARKS
2	Feb 17	Modelling and Mapping Update
1	Dec 15	Modelling and Mapping Update

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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

Residual Risk Extent
Spalding - Present Day
1% Fluvial / 0.5% Tidal Event Probability

DATE OF ISSUE: Feb 2017 REV NO: 2

SCALE: 1 : 15,000 @ A1 MAP NO:



NOTES

1. The extent of flooding shown across Lincolnshire is primarily controlled by flooding from the River Welland, which is tidally influenced in its lower reaches. Flooding from the River Glen, River Witham, River Nene and River Great Ouse is also considered, but is not the dominant source of flooding in the areas shown on this figure.

2. The modelling of the River Welland, River Glen, River Witham, River Nene and River Great Ouse includes the effects of tidal locking, where high tide levels in the Wash prevent the discharge of fluvial flows to the sea.

3. The model does not include the effects of any defences, and therefore represents the undefended flood risk.

4. The model does not include the effects of any blockages to bridges or culverts.

5. This map shows the residual risk of flooding, which is the risk of flooding that remains after the presence of flood defences is taken into account.

6. This map shows the extent of flooding for the 0.1% annual probability (1 in 1000 year) event.

Map Legend



REV	DATE	REMARKS
2	Feb 17	Modelling and Mapping Update
1	Dec 15	Modelling and Mapping Update

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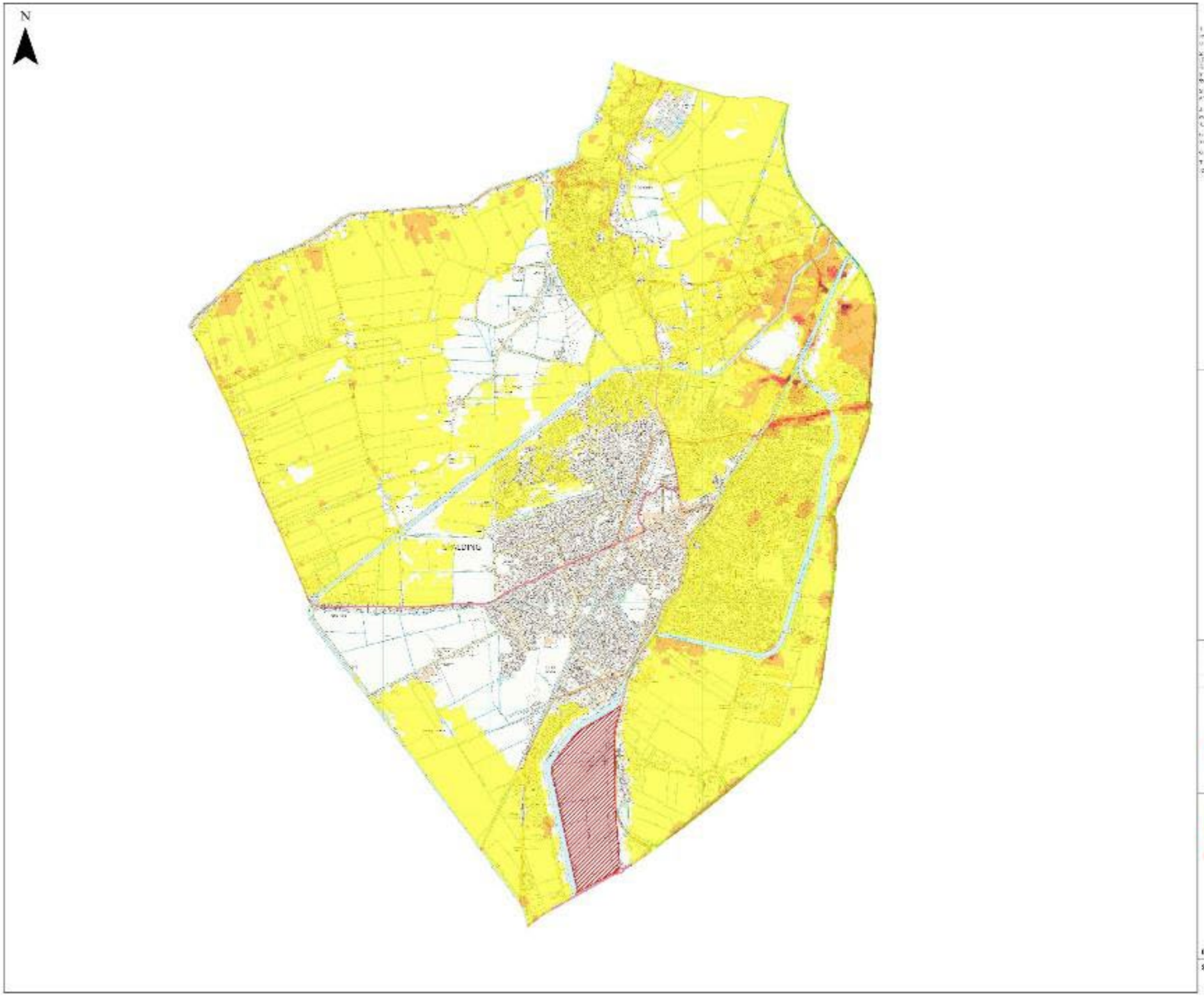
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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

Residual Peak Velocity
Spalding - Year 2115
0.1% Event Probability

DATE OF ISSUE: Feb 2017 REV NO: 2

SCALE: 1 : 15 000 @ A1 MAP NO:



NOTES

1. The extent of flooding shown across Lincolnshire is primarily modelled flooding from fluvial and tidal watercourses, with some limited overland flow and surface water ponding where shown.

2. The models are based on the Environment Agency's Tidal Hazard Mapping and Fluvial River Glen 2 models and flood hazard mapping (River Glen). Each model is the latest available, with some updates undertaken by the Lincolnshire and Witham Partnership to reflect recent flood events.

3. The models do not include the effects of any flood defences, and therefore represent the extent of flooding if no defences were present.

4. The simulations are designed as worst case scenarios. Flood flows from different sources (e.g. fluvial, tidal, surface water) are assumed to occur at the same time. In reality, flood peaks from different sources rarely occur at the same time.

5. The results do not take account of any uncertainties in the accuracy of the models or input data.

6. Flood defence data is based on the National Flood Defence Database (NFDD) 2012.

7. This map shows the extent of the flooding for the 1% fluvial / 0.5% tidal event probability, taking into account climate change.

Map Legend

Peak Velocity (metres per second)

0 - 0.5

0.5 - 1

1 - 2

2 - 4

4 +

Functional Floodplain

South Holland District boundary

REV	DATE	REMARKS
2	Feb 17	Modelling and Mapping Update
1	Dec 15	Modelling and Mapping Update

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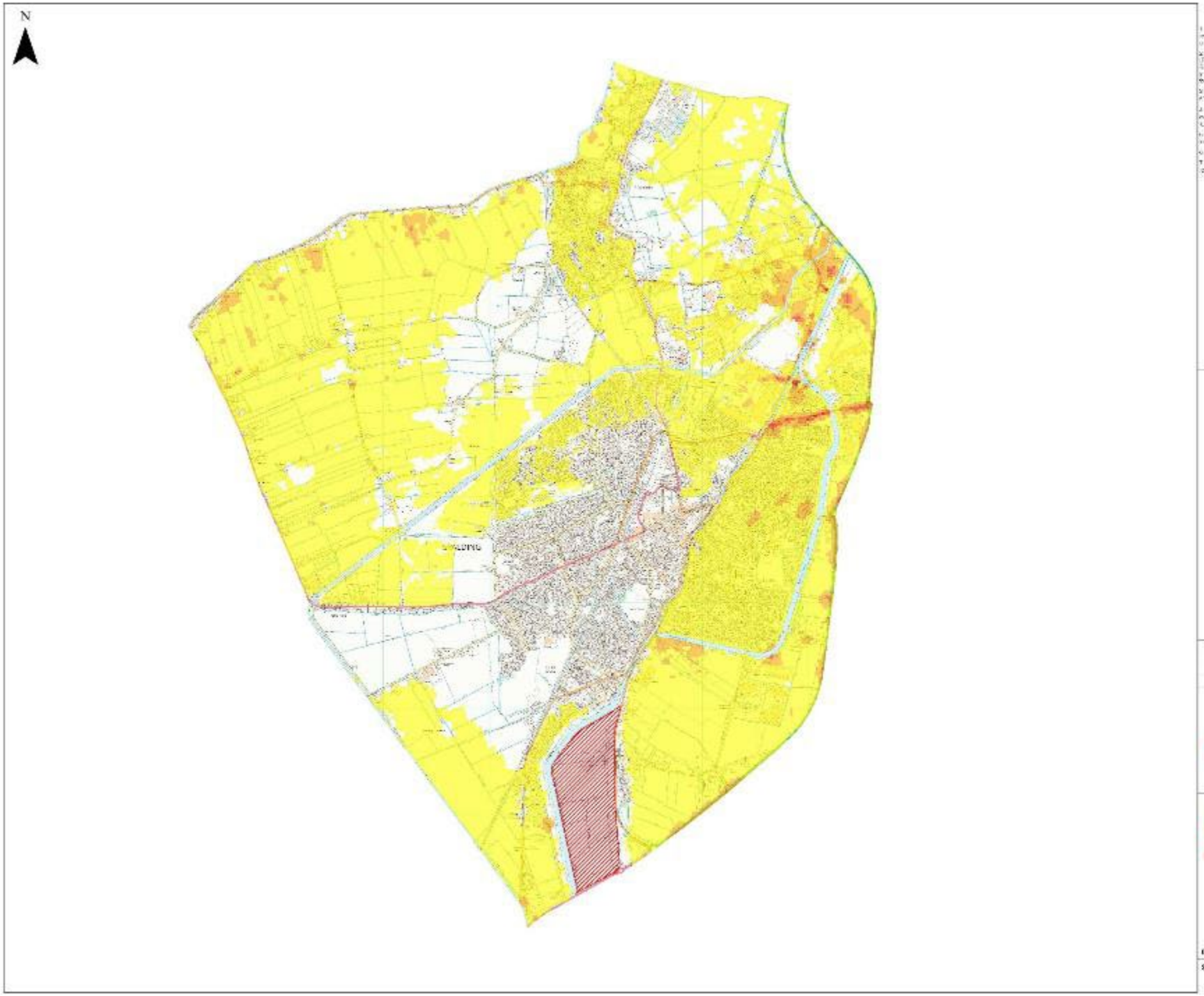
UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

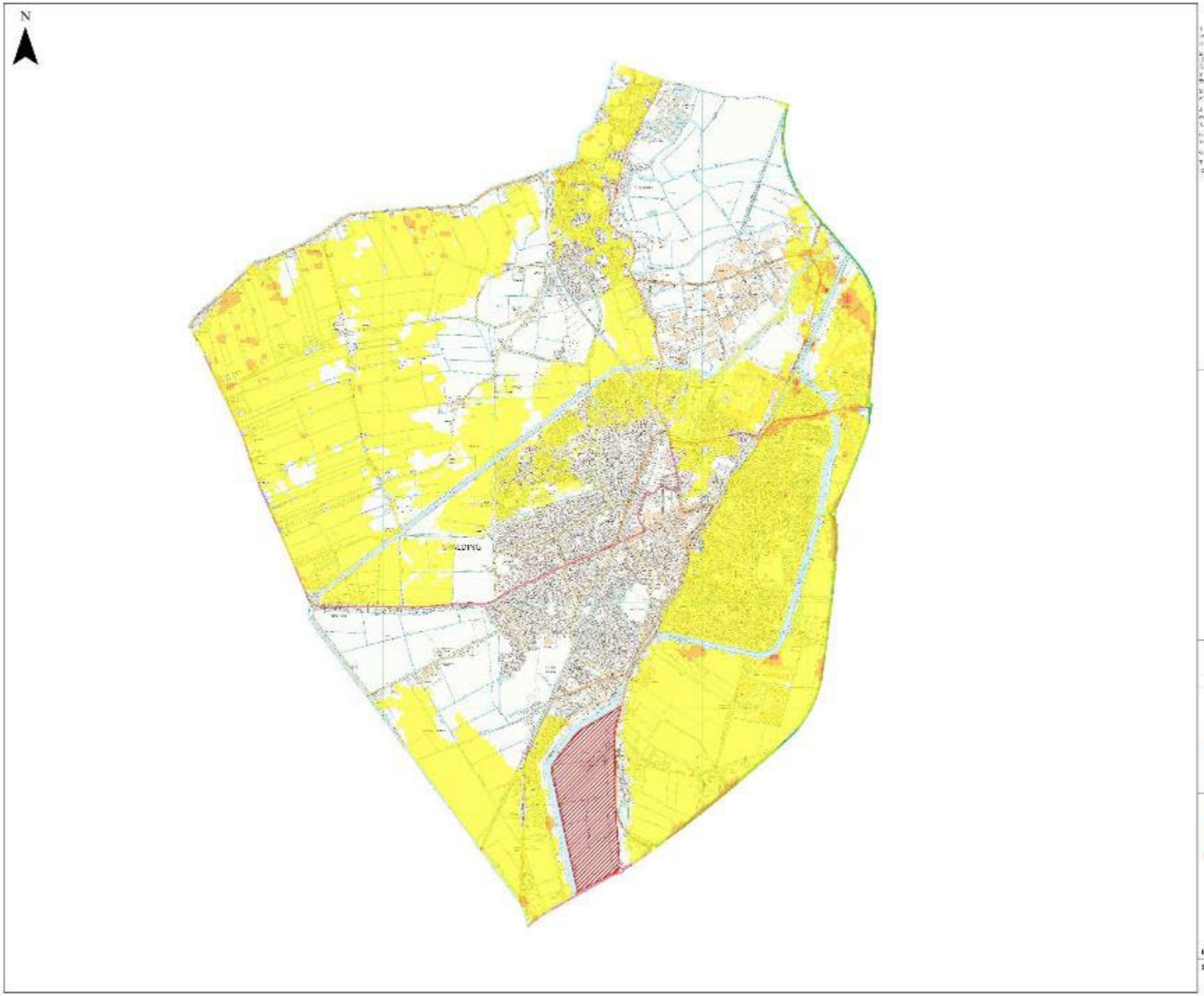
Residual Peak Velocity
Spalding - Year 2115
1% Fluvial / 0.5% Tidal Event Probability

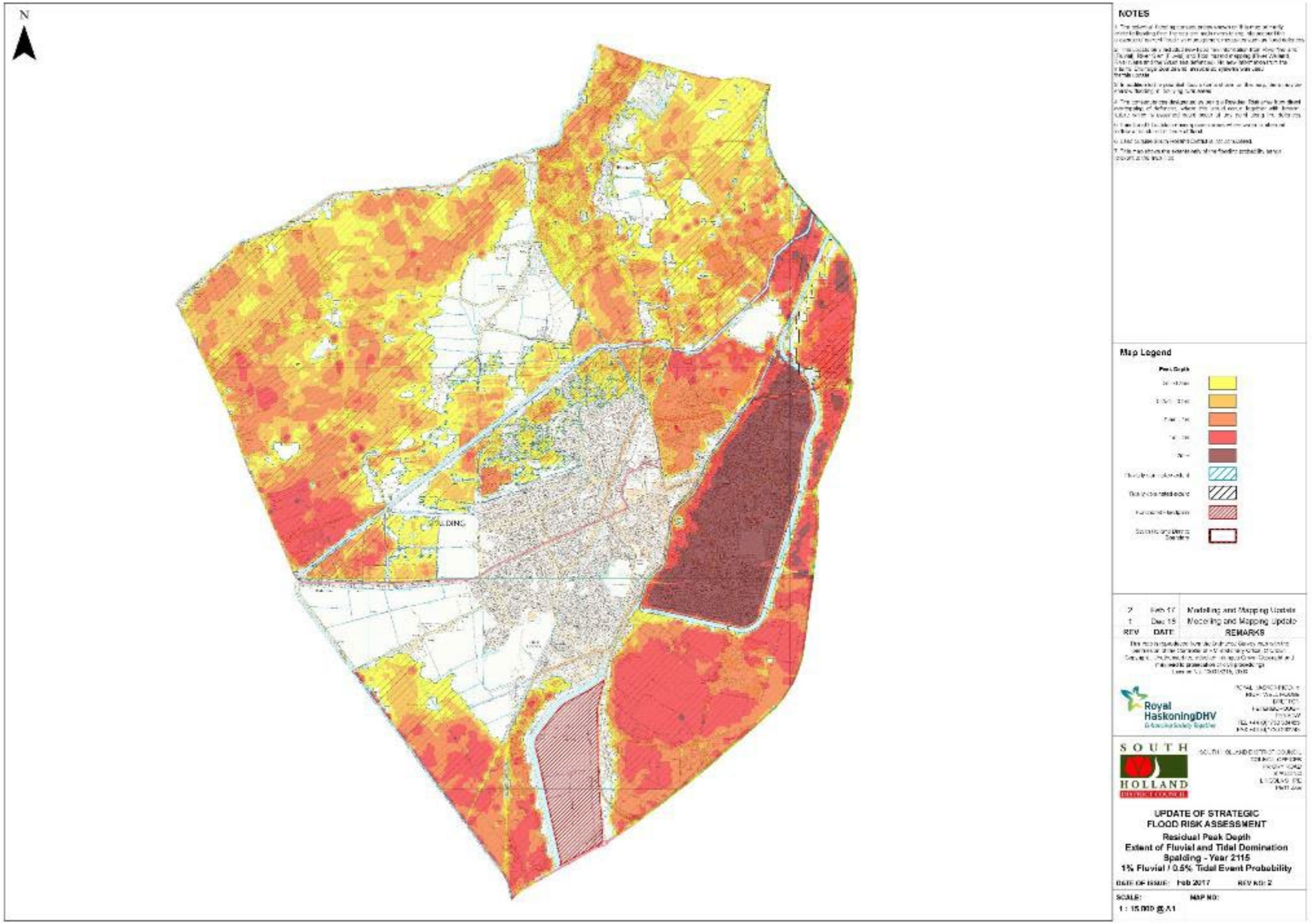
DATE OF ISSUE: Feb 2017 REV NO: 2

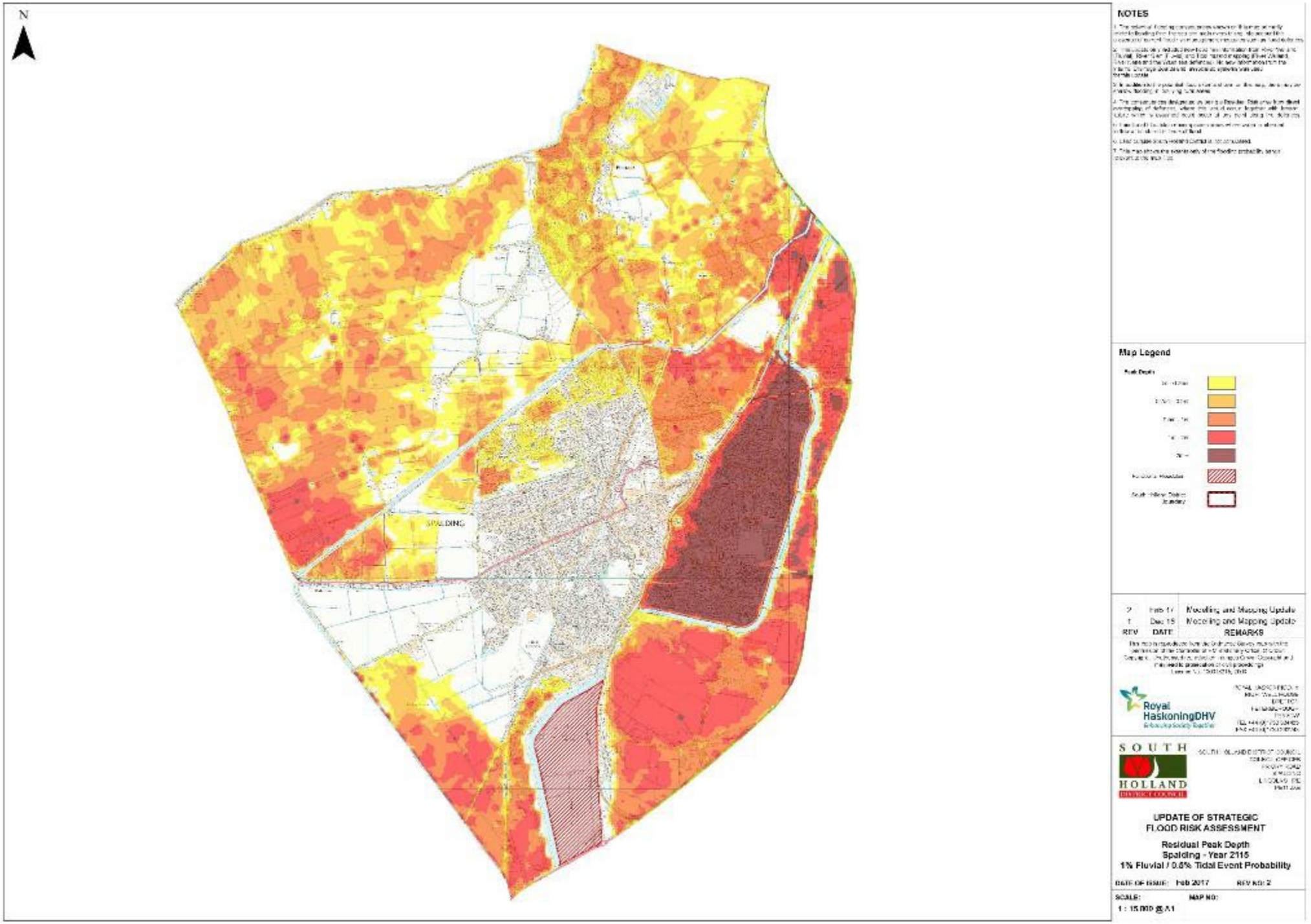
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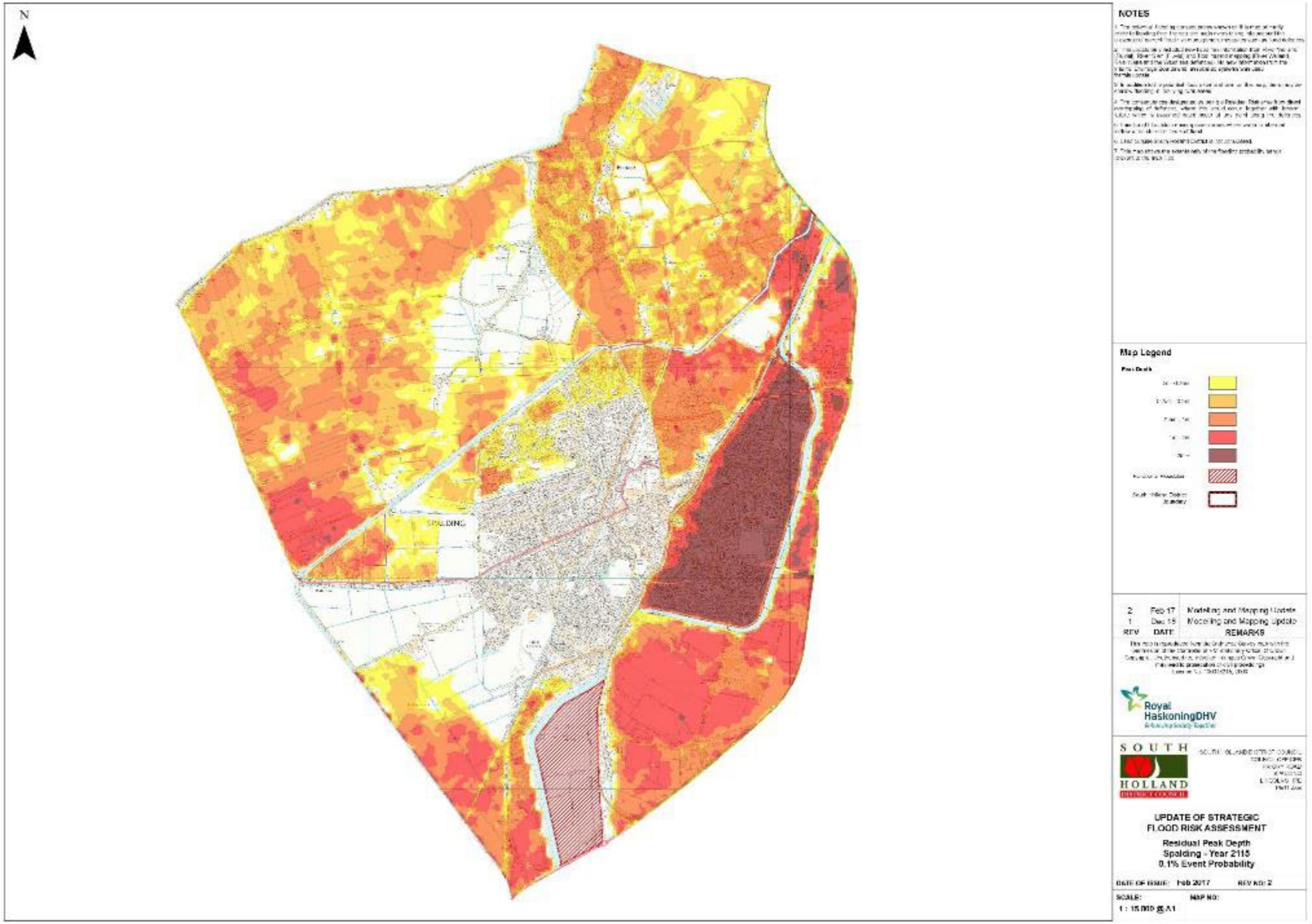
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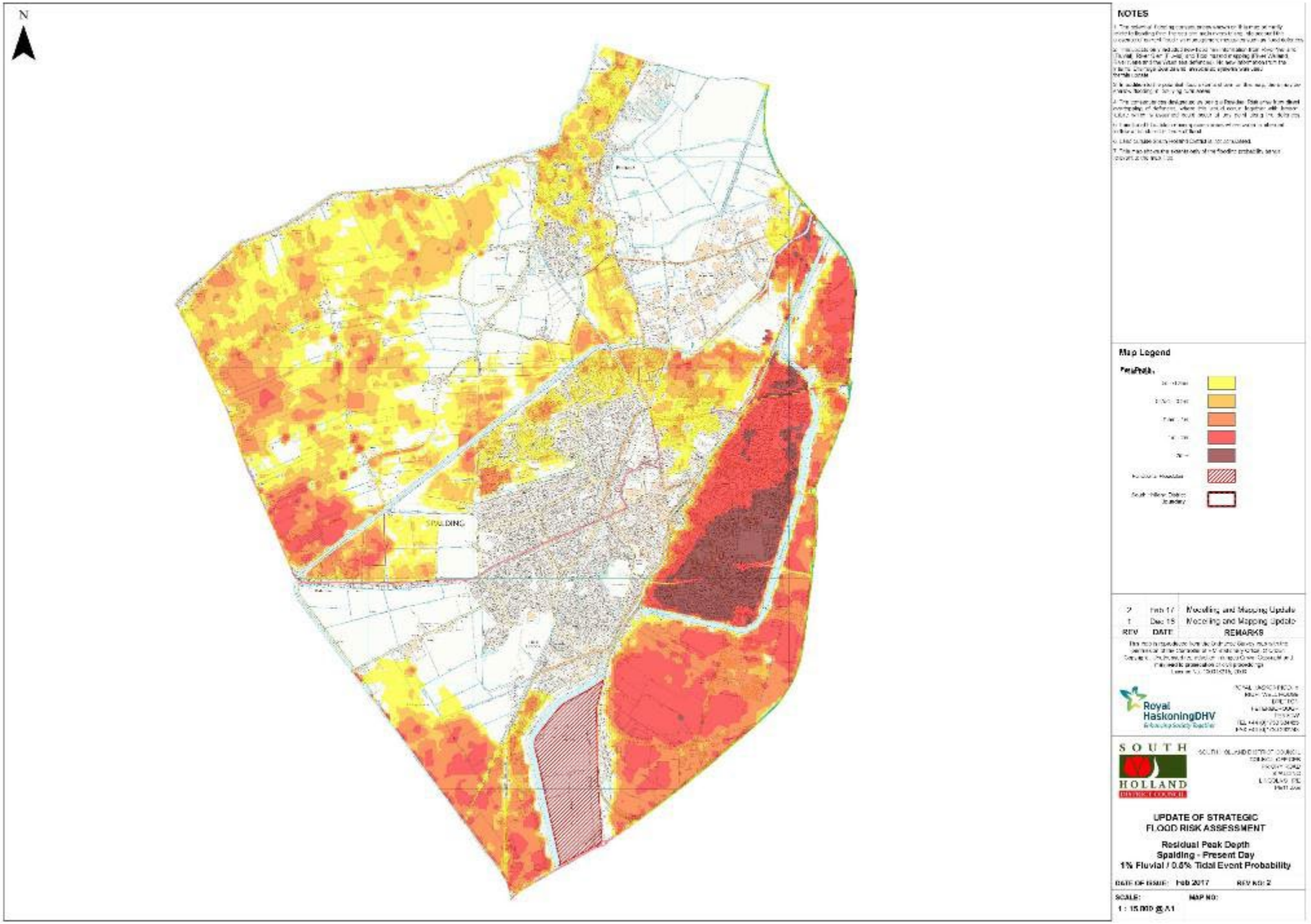

N
SPALDING
NOTES
Map Legend
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Royal HaskoningDHV
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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT
Residual Peak Velocity
Spalding - Present Day
0.1% Event Probability
DATE OF ISSUE: Feb 2017
REV NO: 2
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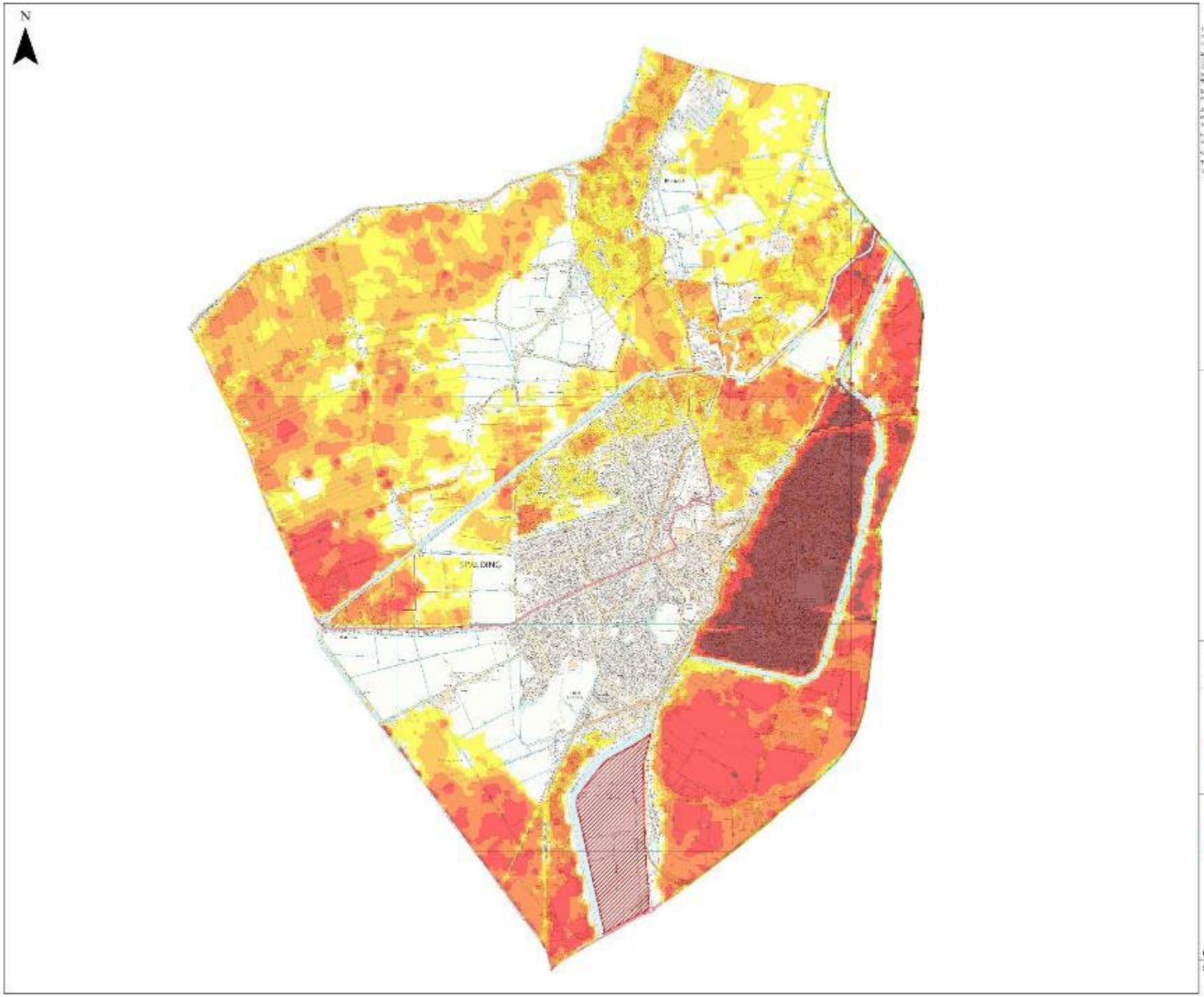

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Map Legend
Residual Flooding
Local Authority District boundary
2 Feb 17 Modelling and Mapping Update
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Royal HaskoningDHV
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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT
Residual Peak Velocity
Spalding - Present Day
1% Fluvial / 0.5% Tidal Event Probability
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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT
Residual Peak Depth
Extent of Fluvial and Tidal Domination
Spalding - Year 2115
1% Fluvial / 0.5% Tidal Event Probability
DATE OF ISSUE: Feb 2017
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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT
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NOTES

1. The extent of flooding shown across Spalding is primarily controlled by flooding from the River Welland. Flooding from the River Glen, Vernatts Drain, Pode Hole Drain, Pinchbeck Marsh Internal Drainage Board (IDB) Catchment, Surfleet Marsh IDB Catchment and Holbeach Marsh IDB Catchment is also considered.

2. The modelling of the River Welland and other watercourses flowing through Spalding is based on the Environment Agency's Welland Tidal Flood Model.

3. The model has been developed using a Digital Elevation Model (DEM) derived from LiDAR data collected by the Environment Agency in 2015. Where LiDAR data is not available, the DEM is based on Ordnance Survey 5m contour data.

4. The model includes the effects of existing flood defences and assumes that they will remain in place throughout the simulation.

5. Flood depths are relative to ground level.

6. Flood outlines are shown to the nearest 10m.

7. This map shows the extent and depth of the flooding for the 0.1% annual probability (1 in 1000 year) event.

Map Legend

Flood Depth

0.1 - 0.3m
0.3 - 0.6m
0.6 - 1.2m
1.2 - 2.0m
2.0m +
Functional Floodplain
South Holland District Boundary

REV	DATE	REMARKS
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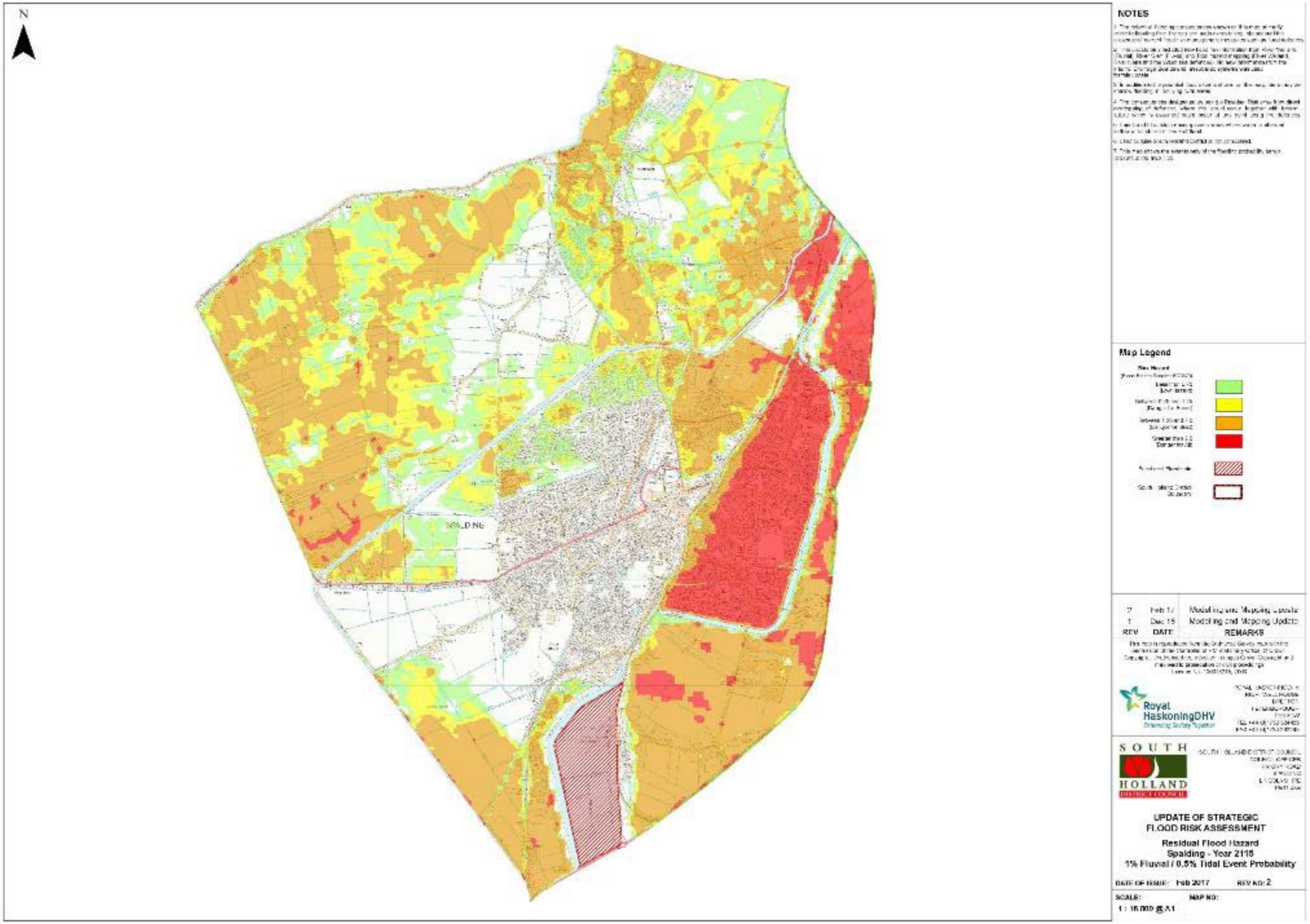
UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

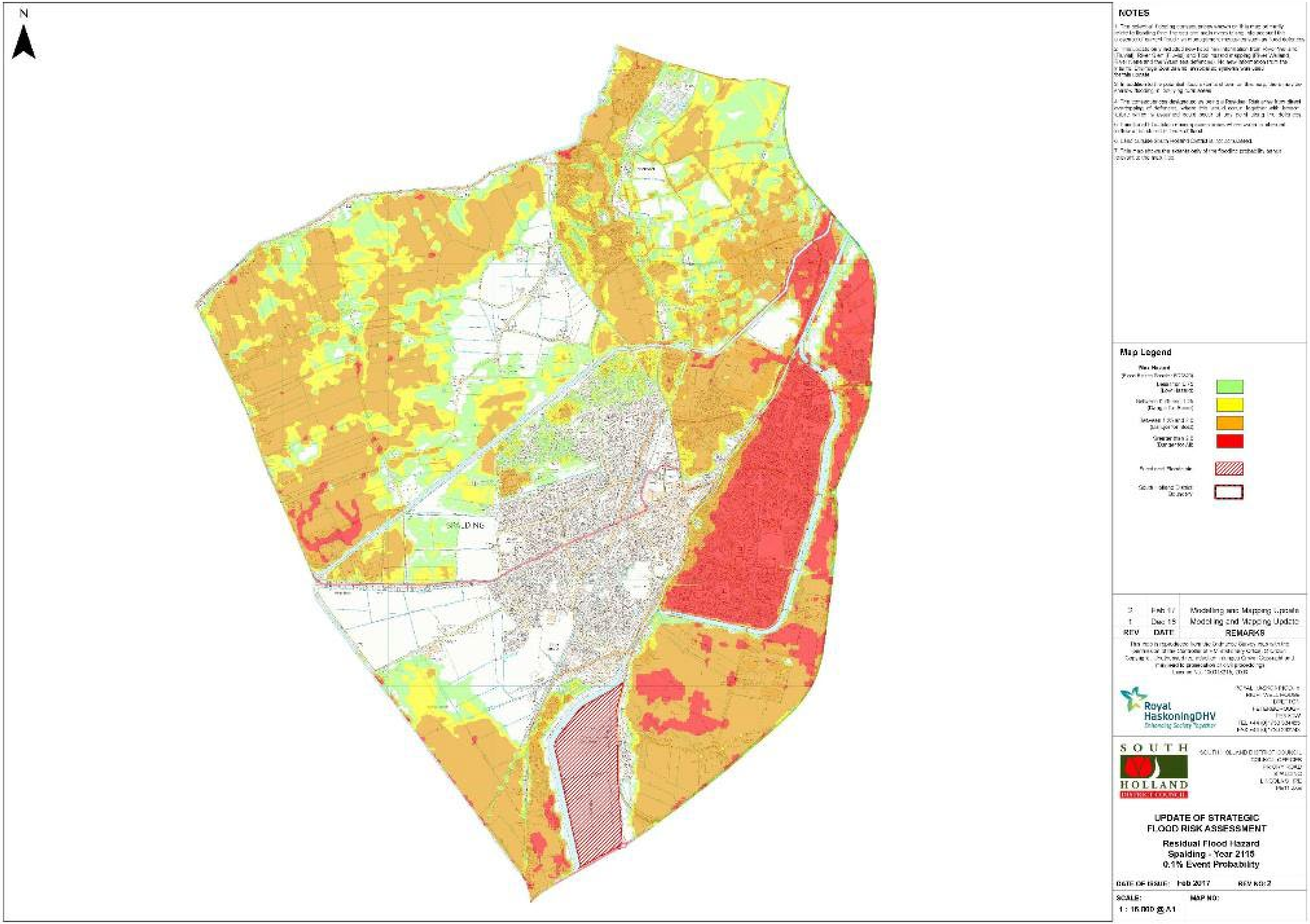
Residual Peak Depth
Spalding - Present Day
0.1% Event Probability

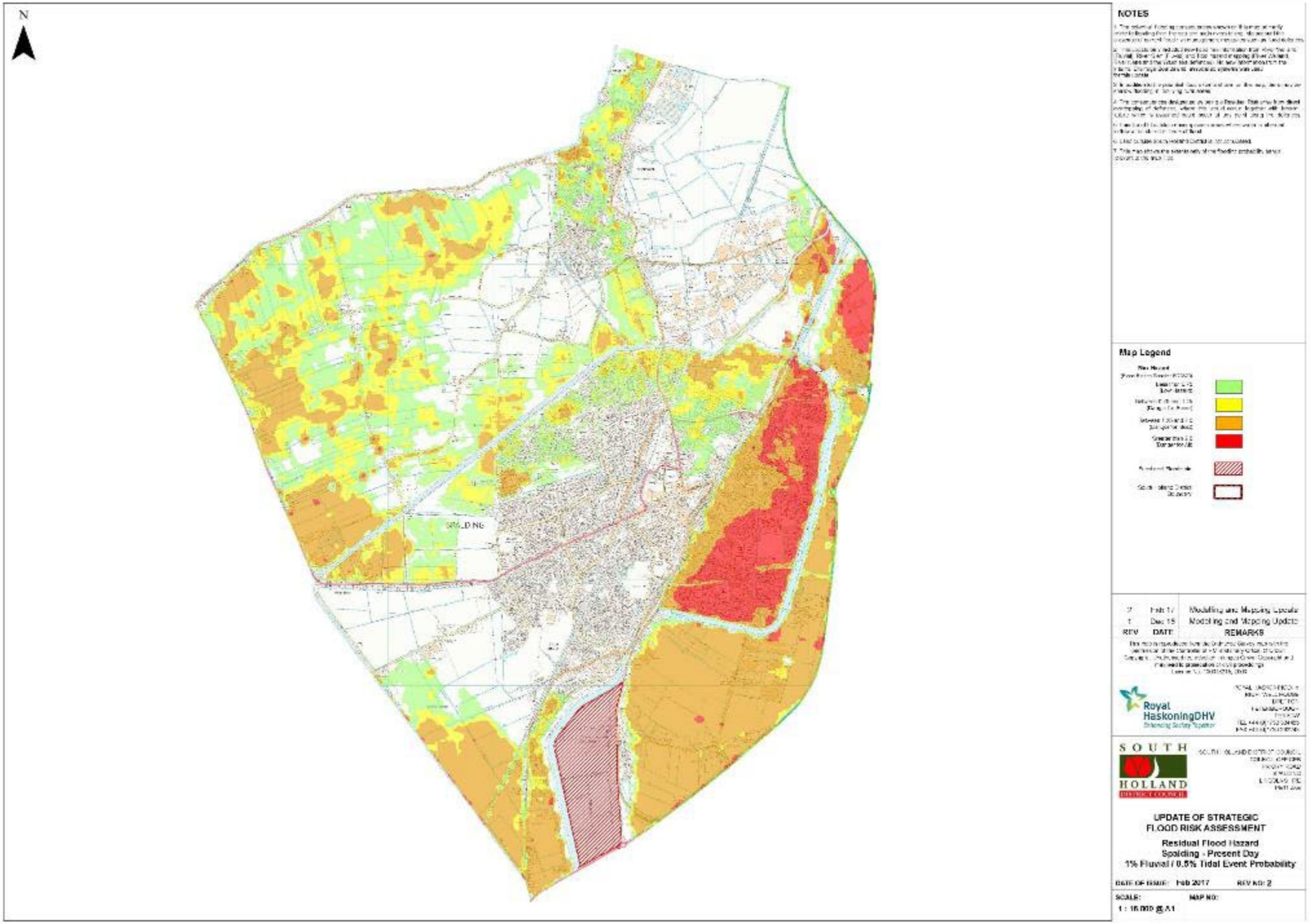
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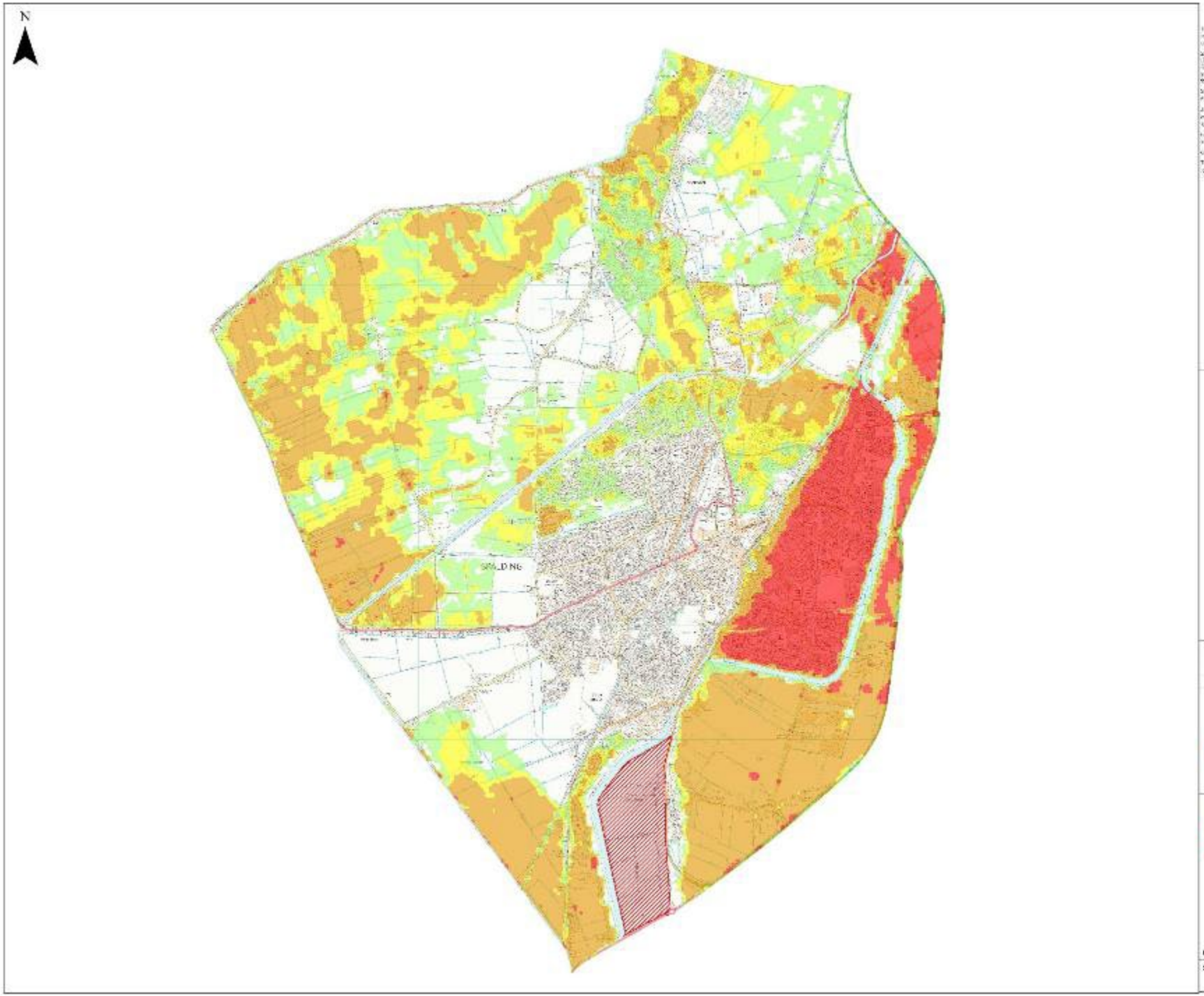
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FLOOD RISK ASSESSMENT
Residual Flood Hazard
Spalding - Year 2115
1% Fluvial / 0.5% Tidal Event Probability
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1% Fluvial / 0.5% Tidal Event Probability
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1 : 15000 @ A1
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NOTES

1. The extent of flooding shown across Spalding is primarily
2. This mapping is based on the Spalding Area Strategic
3. The mapping has been developed using
4. The mapping has been developed as part of a Strategic
5. The mapping is based on existing
6. Land outside Spalding Area is not included in this mapping.
7. This map shows the extent and depth of the flooding probability, and is

Map Legend

REV	DATE	REMARKS
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UPDATE OF STRATEGIC FLOOD RISK ASSESSMENT

Residual Flood Hazard
Spalding - Present Day
0.1% Event Probability

DATE OF ISSUE: Feb 2017 REV NO: 2

SCALE: 1 : 15 000 @ A1

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