



C112U30-1

TUESDAY, 14 JUNE 2022 - MORNING

GCSE

GEOGRAPHY B – Component 3

Applied Fieldwork Enquiry

1 hour 15 minutes plus your additional time allowance

Surname

First name(s)

Centre Number

Candidate Number

0

ADDITIONAL MATERIALS

Resource folder. You may also require a calculator and a ruler.

INSTRUCTIONS TO CANDIDATES

Use black ink, black ball-point pen or your usual method.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces on the previous page.

Answer ALL questions.

Write your answers in the spaces provided in this booklet. Additional space is provided for some questions within the booklet (if required). If further space is required for any question, use the additional pages at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

You are reminded that assessment will take into account your ability to spell, punctuate and use grammar and specialist terms accurately in your answer to Part C, Question 3(f).

(Turn over)

PART A: INVESTIGATING THE USE OF QUALITATIVE SURVEYS IN FIELDWORK

Answer ALL parts of this question.

1 (a) Study MAP 1.1 opposite.

Students carried out an investigation into the risk of coastal erosion. They used a sampling technique to select specific locations to collect data along the coastline.

(i) Give ONE advantage of using a sampling technique to select fieldwork sites in the area shown on MAP 1.1. [2 marks]

(Turn over)

Students used a bipolar survey to evaluate the risk of coastal erosion at 4 fieldwork sites. **DIAGRAM 1.2** opposite shows part of their recording sheet.

1 (a) (ii) Select the correct pair of statements to complete **DIAGRAM 1.2**. TICK (✓) ONE box. [1 mark]

INCREASES EROSION RISK	DECREASES EROSION RISK	TICK (✓) ONE BOX
Sea defences present.	Sea defences broken or non-existent.	
Sea defences broken or non-existent.	Sea defences present.	
Sea defences look ugly.	Sea defences look attractive.	

(Turn over)

1 (b) Twenty-two students used the bipolar survey to record their own views on how rock structure affects risk of coastal erosion at the 4 fieldwork sites.

(i) Study GRAPH 1.3 opposite. Circle the correct site letters in the table below. [3 marks]

RISK OF EROSION DUE TO ROCK STRUCTURE	CIRCLE THE CORRECT SITE(S)			
Which site has a very high risk? Circle ONE site.	A	B	C	D
Which site did 8 students think had no risk? Circle ONE site.	A	B	C	D
Which TWO sites have similar levels of risk? Circle TWO sites.	A	B	C	D

(Turn over)

- 1 (b) (ii) The students used a questionnaire to investigate whether local people viewed coastal erosion differently based on how far away they live from the sea. One part of the students' questionnaire is shown below:

How far do you live from the sea?	1–5	5–10	10–15	15–20
-----------------------------------	-----	------	-------	-------

Suggest TWO improvements that could be made to this part of the questionnaire. [2 marks]

Improvement 1

Improvement 2

(Turn over)

Study the sketch opposite.

- 1 (c) Field sketches were used by the students as part of their fieldwork.**

Evaluate ONE strength and ONE weakness of this field sketch as a method of showing coastal erosion issues. [4 marks]

[illegible]

(Turn over)

Additional space for question 1(c) only:

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END OF PART A

(Turn over)

PART B:**INVESTIGATING PLACE THROUGH FIELDWORK**

Answer ALL parts of the following question.

- 2 (a) A group of students decided to investigate **PLACE** using the town of Lowestoft in Suffolk.

Study **PHOTOGRAPH 2.1** opposite.

TICK (✓) TWO enquiry questions that could be chosen in an investigation of **PLACE** in Lowestoft. [2 marks]

ENQUIRY QUESTION	TICK (✓) TWO
Do flood levels in Lowestoft increase in winter?	
Does living near the river influence how positively people view Lowestoft?	
Is farming economically sustainable in this area?	
Does the length of time residents have lived in Lowestoft affect how they view the city?	
Does the velocity of the river change downstream?	

(Turn over)

- 2 (b) A student has written a description of the location of Lowestoft, which contains two mistakes. Study TEXT BOX 2.2, which shows part of their description, and the maps on PAGES 2 AND 3 of the Resource Folder.**

TEXT BOX 2.2 – LOCATION OF LOWESTOFT

Lowestoft is a coastal town in Western England. It is north east of London, in the county of Suffolk. Lowestoft is located around Lake Lothing (Grid Reference 5692) and Oulton Broad (Grid Reference 5192).

Identify and correct the TWO mistakes in the student's description of the location of Lowestoft. Complete the table opposite. [4 marks]

- 2 (c) The students designed a fieldwork recording sheet to compare the environment of East Lowestoft and West Lowestoft.**

Study the recording sheet on PAGE 4 of the RESOURCE FOLDER.

Explain ONE strength and ONE weakness of this data recording sheet. [4 marks]

Strength

(Turn over)

Weakness

- 2 (d) Students collect secondary data from the National Census. Study the MAP 2.3 opposite.**
- (i) In 2019 Area B had a deprivation score of 72. Complete MAP 2.3 for Area B. [1 mark]**
- (ii) Tick (✓) ONE correct conclusion that can be drawn from MAP 2.3. [1 mark]**

	Tick (✓) ONE
Area A is a more deprived area than Area B, so that people are likely to have less income, employment and education.	
Area B is a more deprived area than Area A, so people are likely to suffer more crime, barriers to housing and health challenges.	
Area A is the most deprived area in Lowestoft, so people are likely to have less income and suffer more crime than the rest of Lowestoft.	

END OF PART B

(Turn over)

PART C: THE WIDER UK DIMENSION

Answer ALL parts of this question.

You should use your understanding of UK geography to support your answers.

3 The way people shop is changing, which might change our towns and cities. Study GRAPH 3.1 opposite .

(a) Complete the statements below to describe the trend. Use GRAPH 3.1. [2 marks]

Internet sales have _____
from 2010 to 2019 as a percentage of all retail
sales.

In 2019 internet sales are _____
percent of all retail sales.

(Turn over)

3 (b) (i) Explain why retail provision is changing in the UK. [6 marks]

[illegible]

(Turn over)

- 3 (b) (ii) Online (internet) shopping can have social and economic impacts. Explain why.**
[6 marks]

(Turn over)

**3 (c) Crompton Place is Bolton's central retail area.
Study the information on PAGE 5 of the
RESOURCE FOLDER.**

**(i) Calculate the percentage of vacant retail
premises in Crompton Place's ground floor.
Show your working. [3 marks]**

Percentage of vacant retail premises in Crompton

Place's ground floor _____%

(Turn over)

- 3 (c) (ii) The number of vacant retail premises in the UK is 9% of all available retail premises.**

Compare the percentage of vacant retail premises in Crompton Place's ground floor to the rest of the UK. [1 mark]

- 3(d) Crompton Place is undergoing proposed changes. Study DIAGRAM 3.2 opposite and TABLE 3.3 below.**

TABLE 3.3

Homes	150
Food units	25
Hotel beds	75
Retail units	50

- (i) Give TWO ways that Diagram 3.2 could be improved to represent the data in TABLE 3.3 more clearly. [2 marks]**

Way 1

(Turn over)

Way 2

(Turn over)

Study TABLE 3.4.

TABLE 3.4 - USE OF FLOOR SPACE

Leisure space (m²)	12 000
Office space (m²)	10 000
Events space (m²)	15 000

- 3 (d) (ii) Select ONE correct numerical method to compare the amount of office space with events space shown in TABLE 3.4.**
- [1 mark]**

	TICK (✓) ONE BOX
Inter-quartile range	
Ratio	
Mean	

(Turn over)

- 3 (d) (iii) Suggest why a pie chart would be a suitable graph to show the data for Leisure, Office and Events space in TABLE 3.4. [1 mark]**

3 (e) Study TABLE 3.5 below.

TABLE 3.5 – AVERAGE AMOUNT SPENT WHEN SHOPPING IS COMBINED WITH OTHER ACTIVITIES

ACTIVITY	AVERAGE SPEND (£)
Entertainment	87.50
Banking	75.16
Refreshments	74.63
Visiting parks	34.48
AVERAGE	67.94

Suggest why a bar chart is a suitable way to represent this data. [2 marks]

(Turn over)

- 3 (f) Retail provision is changing in the UK and this is changing our towns and high streets. Study the picture on PAGE 6 of the RESOURCE FOLDER.**

“Changing shopping habits have brought positive new developments to UK towns and high streets.”

To what extent do you agree with the statement?

Use information in the exam paper, RESOURCE FOLDER and your wider understanding of the UK to support your answer. [12 marks]

Your ability to spell, punctuate and use grammar and specialist terms accurately will be assessed in your answer to this question. [4 marks]

(Turn over)

(Turn over)

(Turn over)

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(Turn over)

(Turn over)

END OF PAPER

(Turn over)

Question number	ADDITIONAL PAGE, IF REQUIRED. WRITE THE QUESTION NUMBER(S) IN THE LEFT-HAND MARGIN.

(Turn over)

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(Turn over)

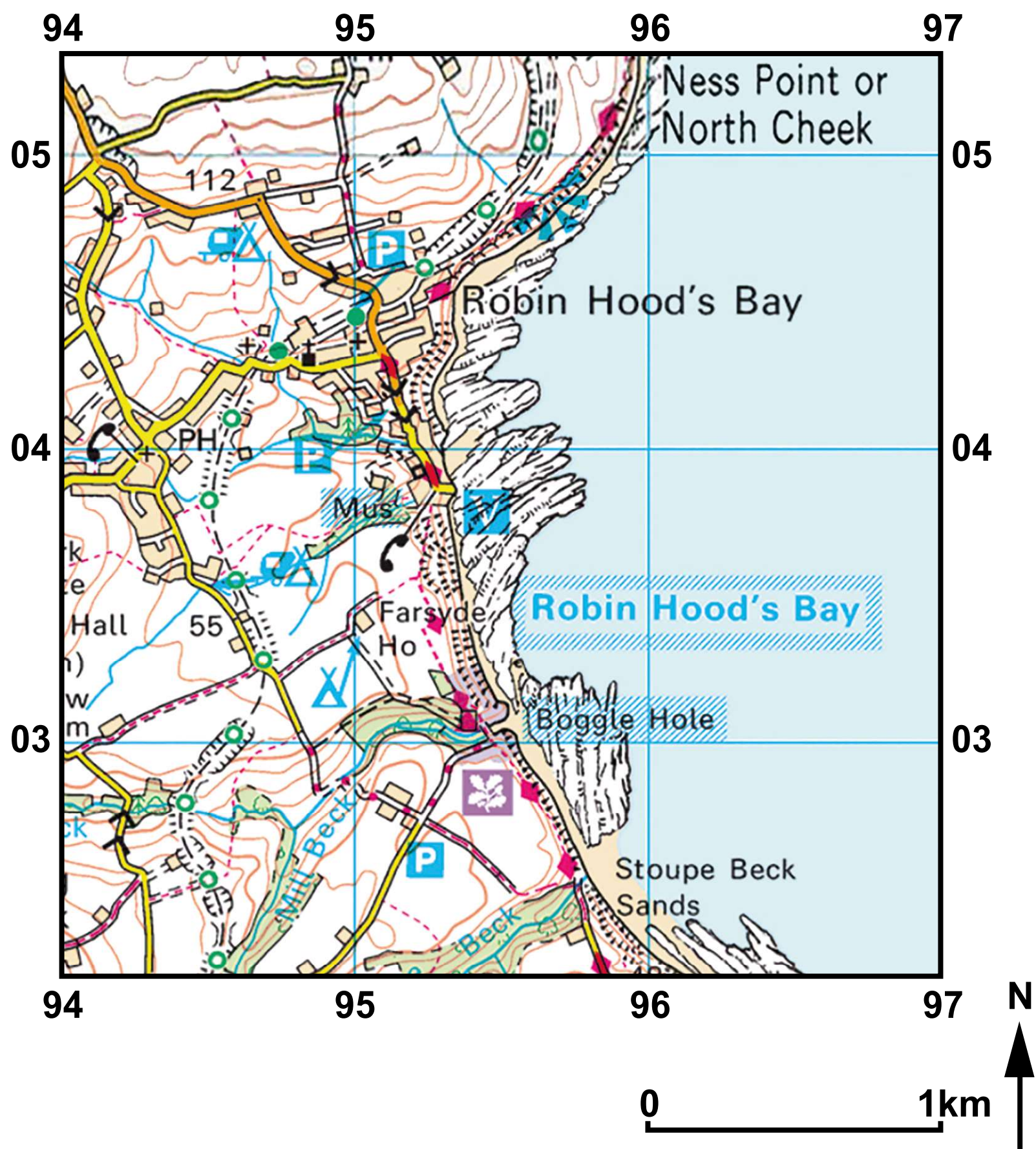
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(Turn over)

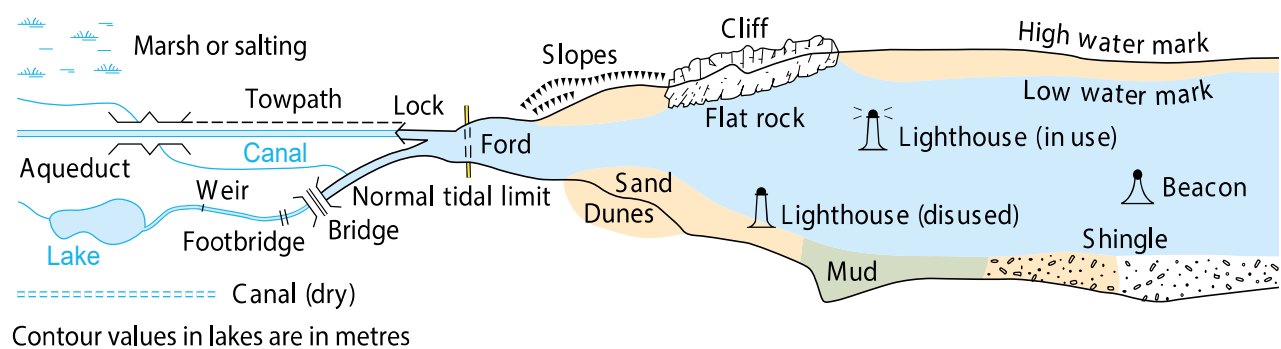
Question number	ADDITIONAL PAGE, IF REQUIRED. WRITE THE QUESTION NUMBER(S) IN THE LEFT-HAND MARGIN.

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
Part A	12	
Part B	12	
Part C	36	
SPaG	4	
Total	64	

MAP 1.1 - OS MAP OF ROBIN HOOD'S BAY, NORTH YORKSHIRE



WATER FEATURES

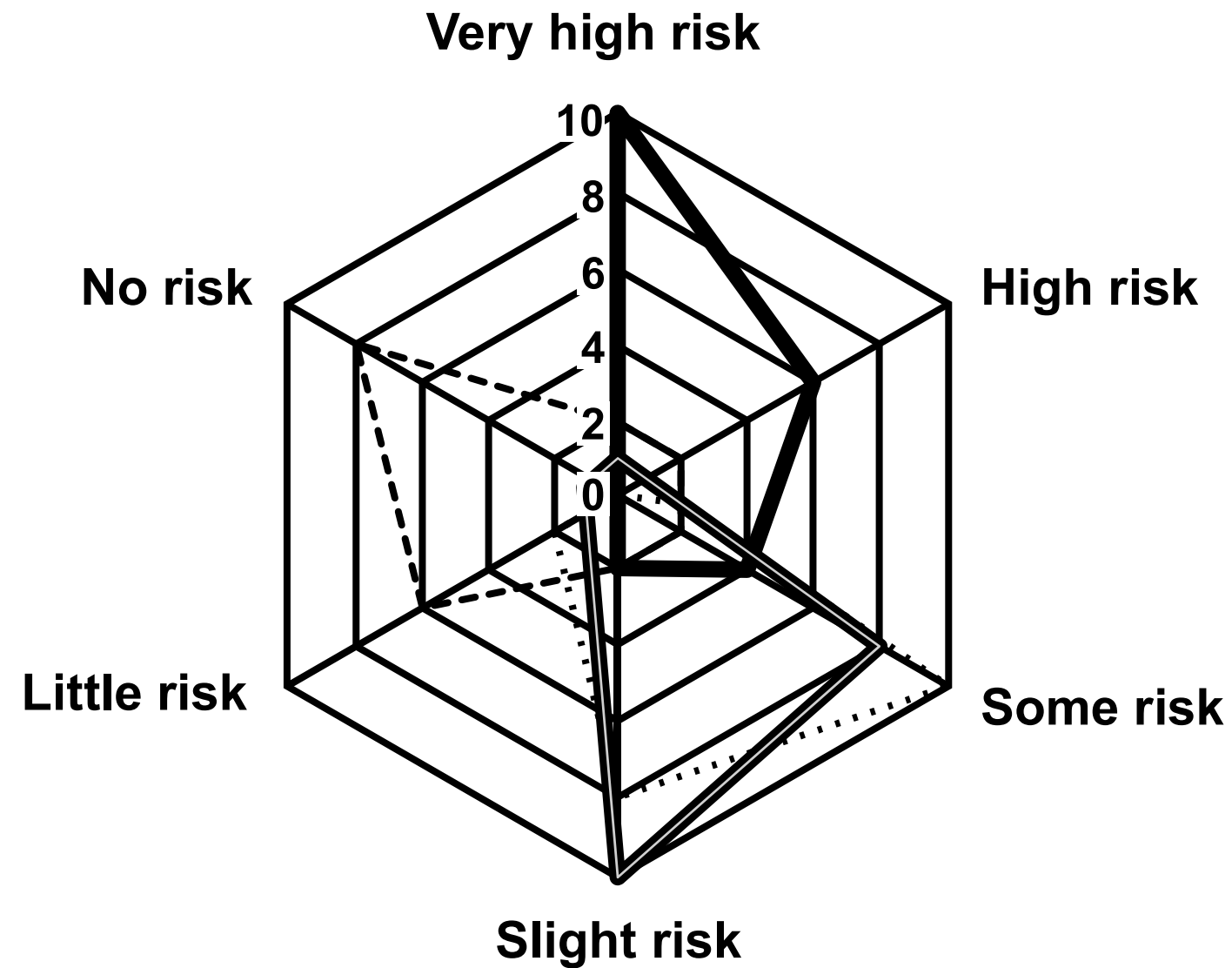


1:50 000 Map Legend can be found on the back of the Resource Folder

Diagram 1.2 – Bipolar survey investigating the risk of coastal erosion

	INCREASES EROSION	RISK LEVEL						DECREASES EROSION
		VERY HIGH	HIGH	MODERATE	SOME	LITTLE	NONE	
ROCK STRUCTURE	Evidence of rock weakness, lots of cracks/joints							No evidence of rock weakness and no obvious cracks/joints
COASTAL PROTECTION								

Graph 1.3 - shows all 22 students' results.



Key:

Number of student responses

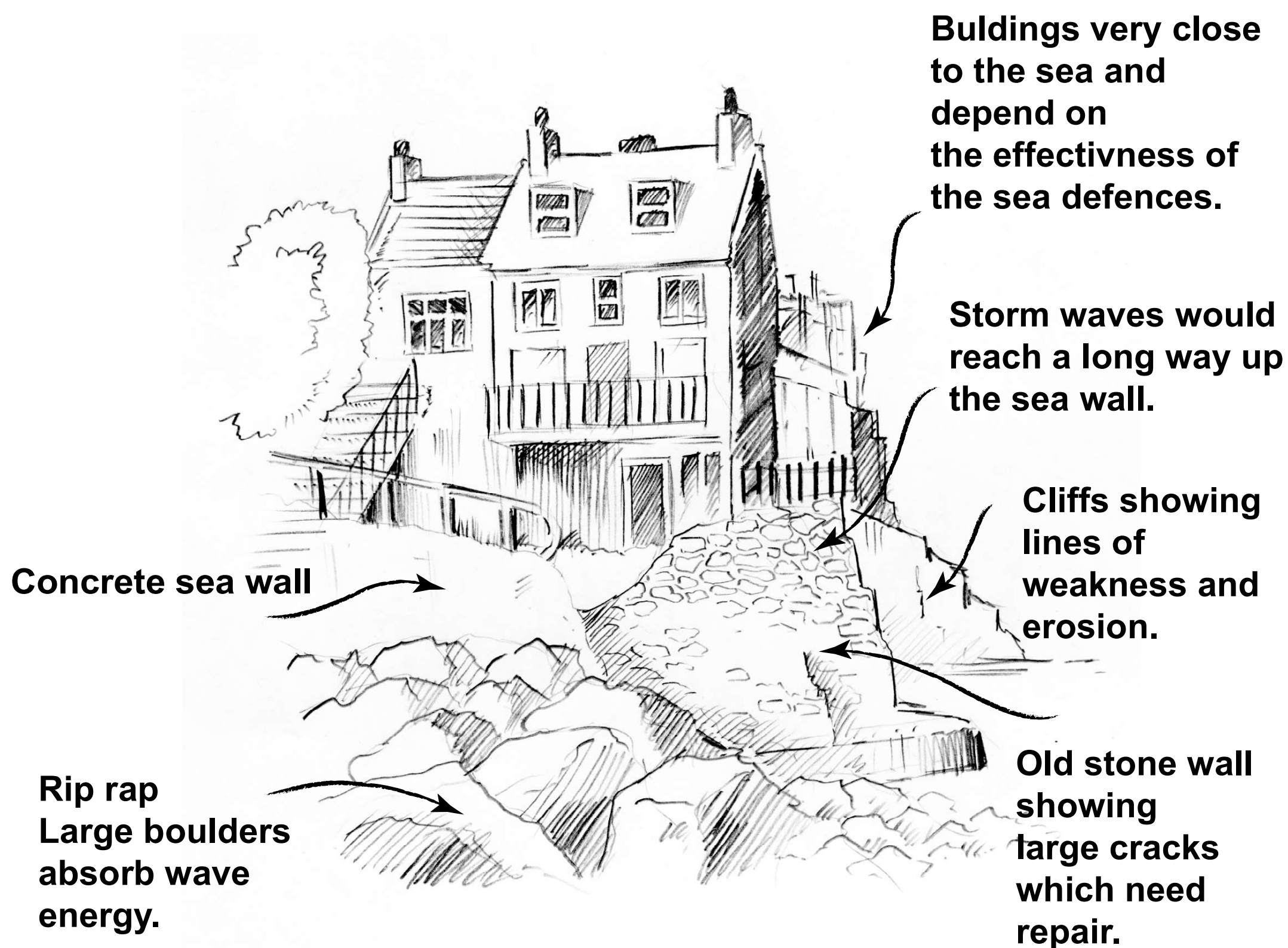
— Site A

---- Site B

..... Site C

==== Site D

Diagram 1.4 - shows an example of one of these field sketches



PHOTOGRAPH 2.1 - LOWESTOFT, SUFFOLK. EAST OF ENGLAND



QUESTION 2 (b)

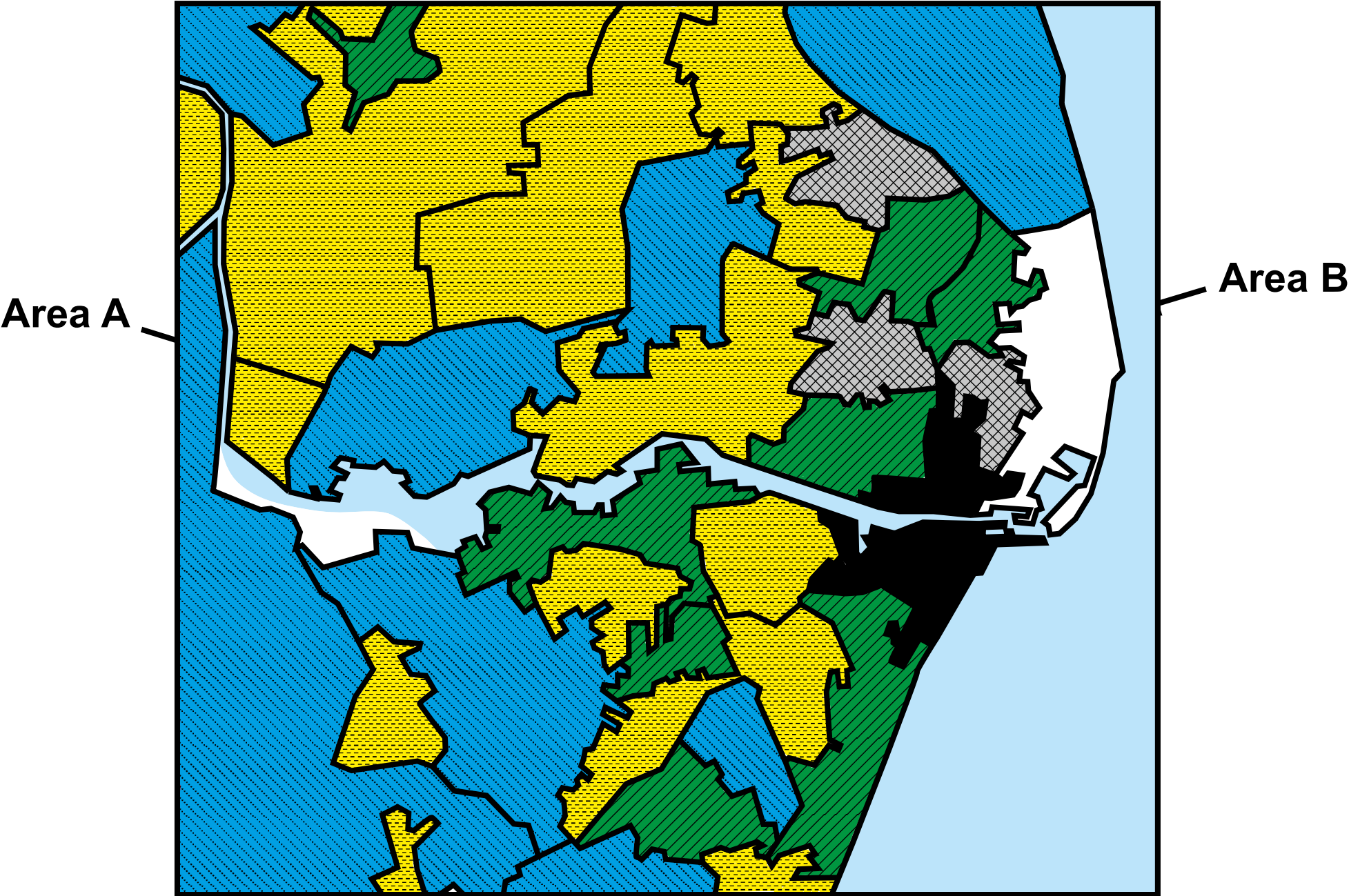
Mistake 1 _____ →

Correction 1 _____

Mistake 2 _____ →

Correction 2 _____

Map 2.3 - Choropleth map showing Deprivation levels in Lowestoft in 2019



Deprivation Score 2019 (higher number = more deprivation)

>2 – 18	>18 – 34	>34 – 50	>50 – 66	>66 – 82
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Graph 3.1 - Internet sales as a percentage of total retail sales (2010 to 2019)

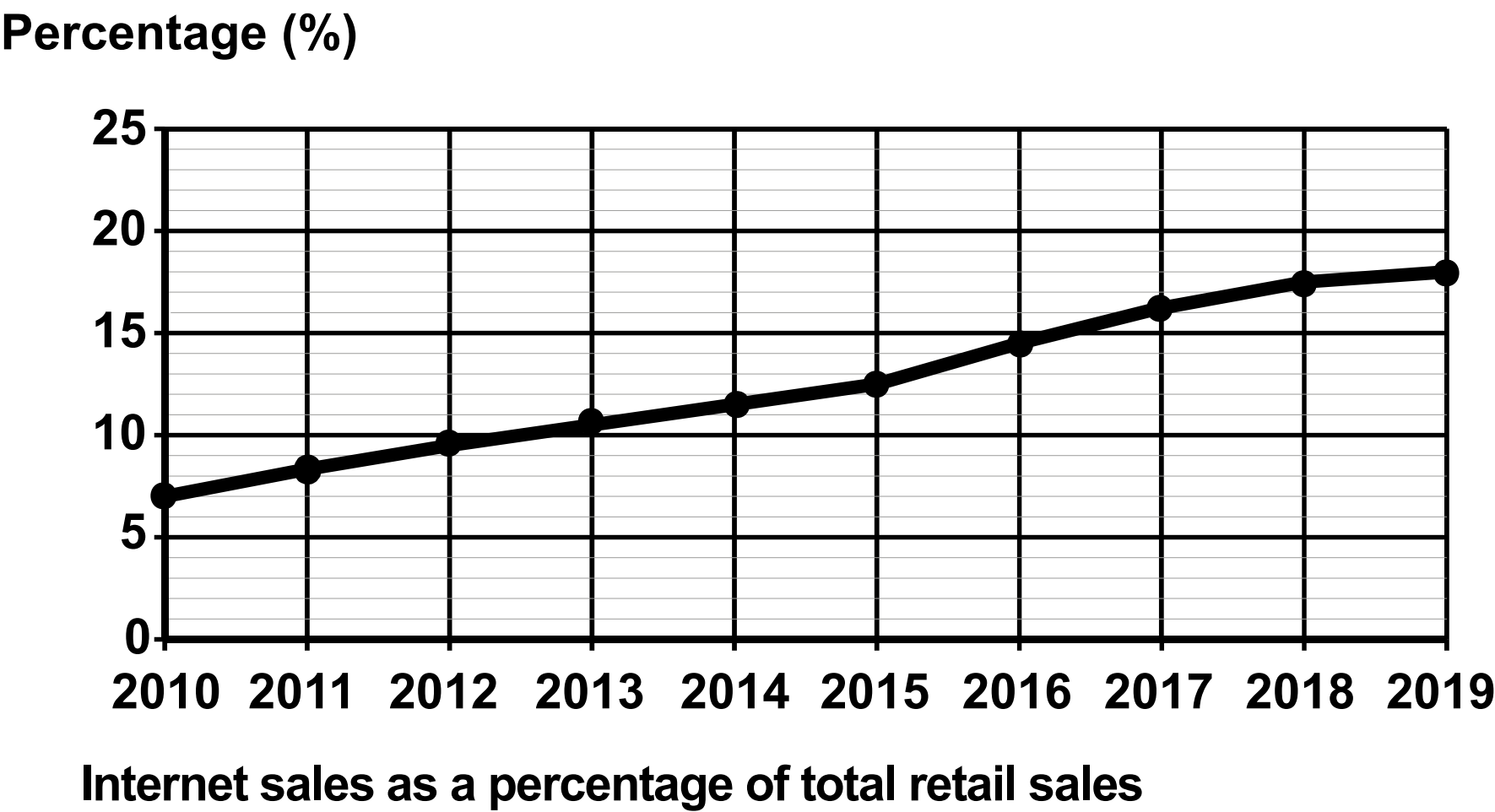
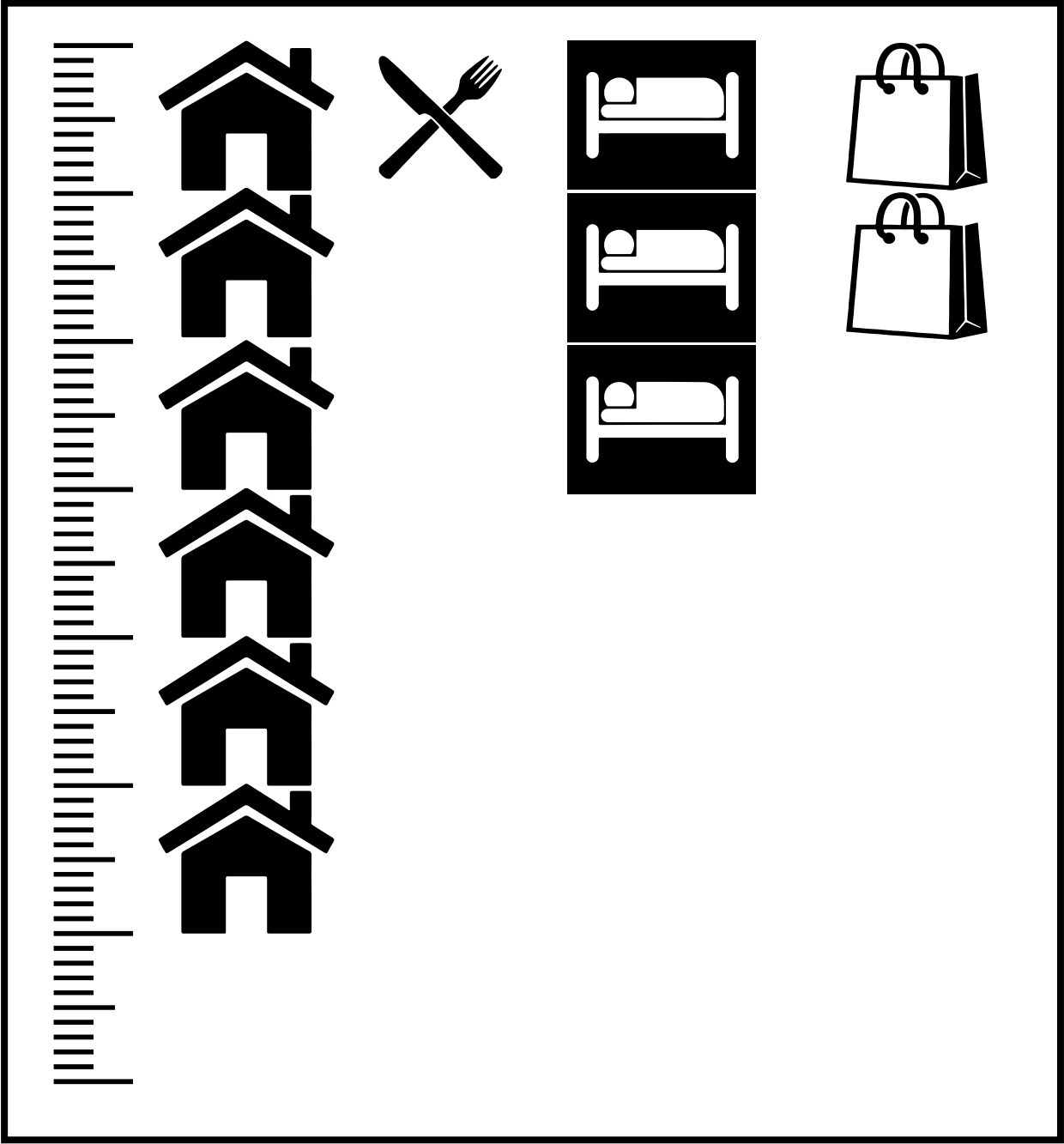


Diagram 3.2 - Proposed new additions to Crompton Place’s retail area





GCSE

C112U30-1A

TUESDAY, 14 JUNE 2022 - MORNING

GEOGRAPHY B – Component 3

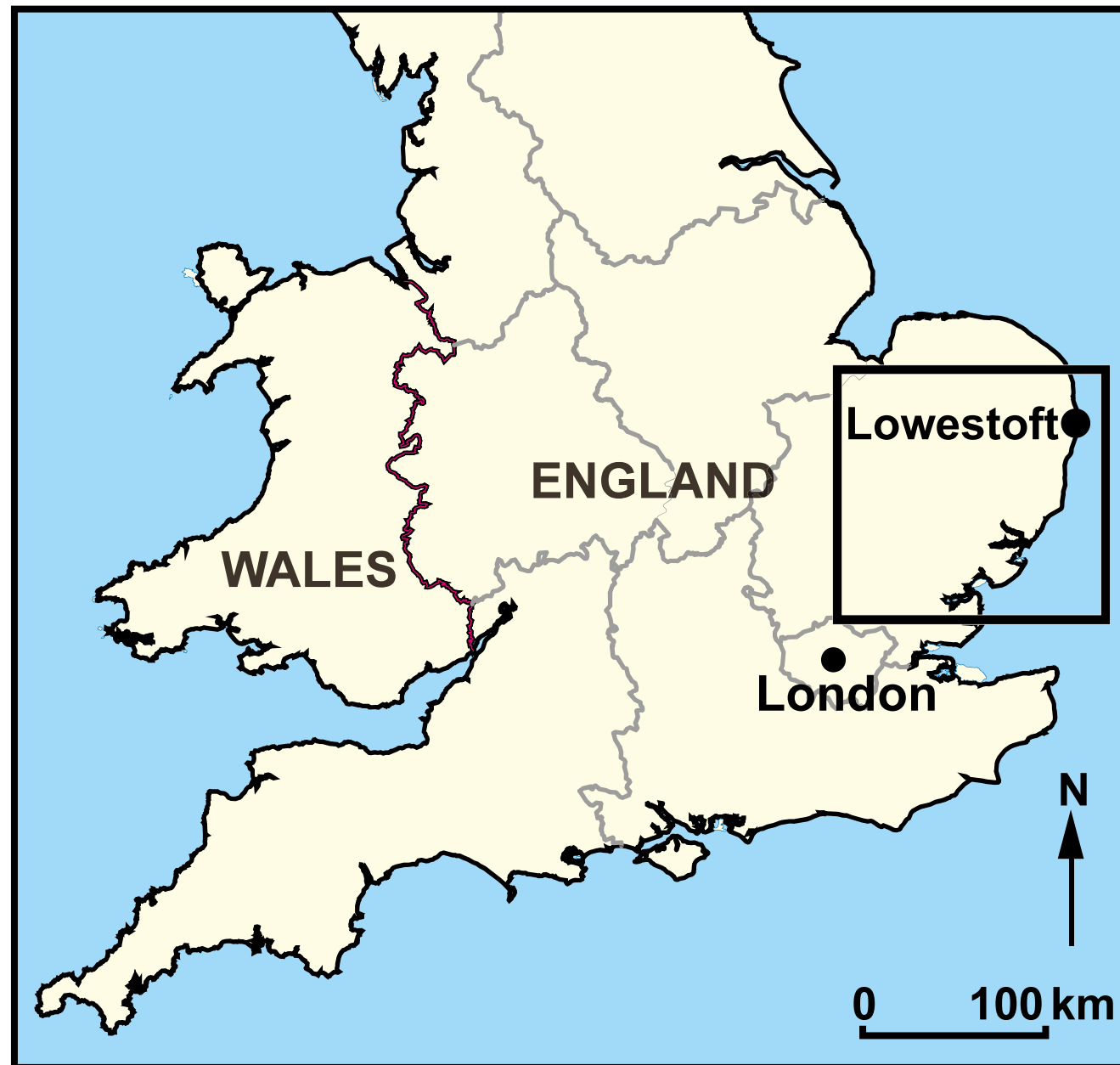
RESOURCE FOLDER

This folder is for use with questions in Component 3.

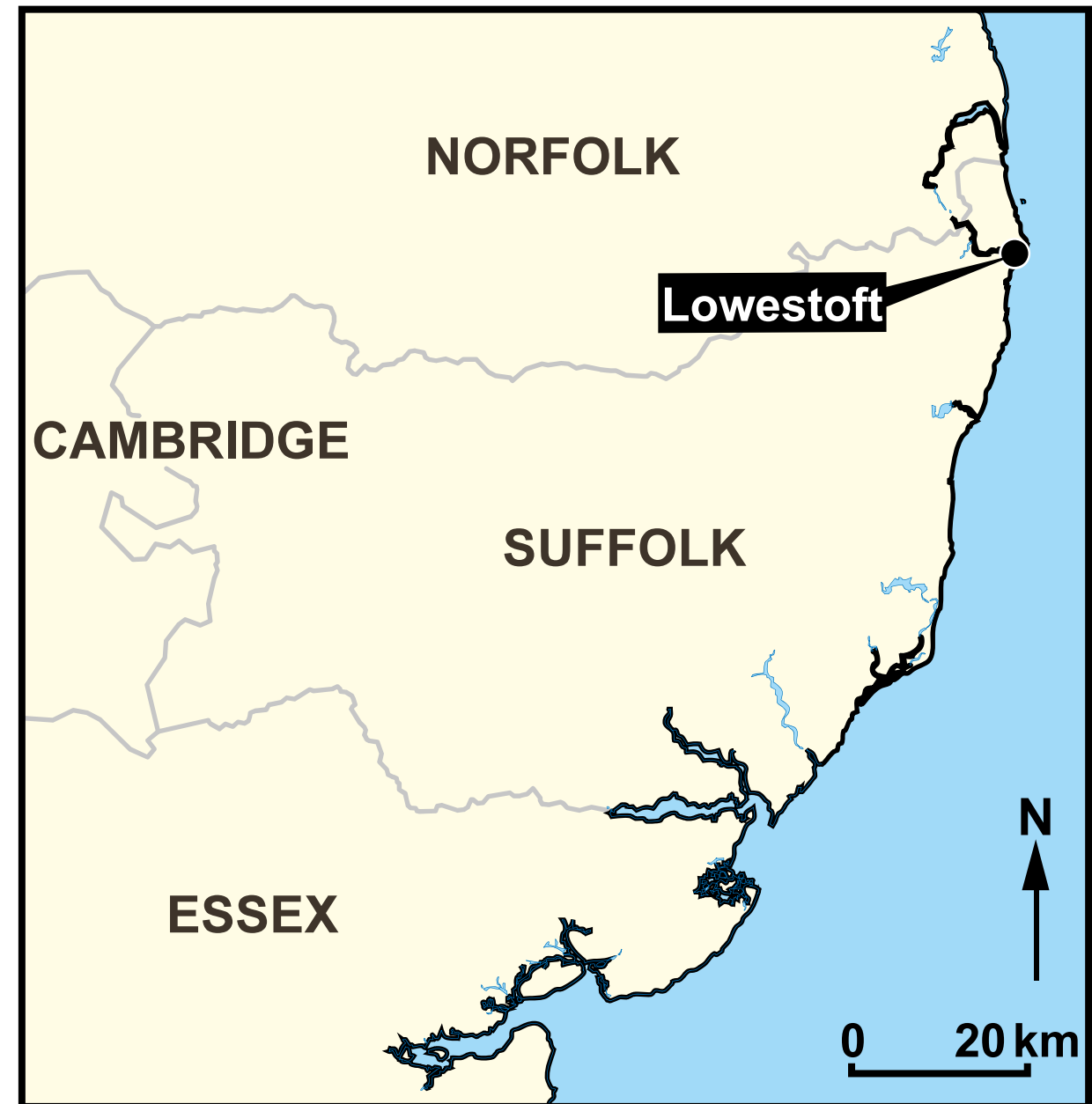
This folder need not be handed in with your answer booklet.

MAPS TO SHOW THE LOCATION OF LOWESTOFT, SUFFOLK, EAST ENGLAND

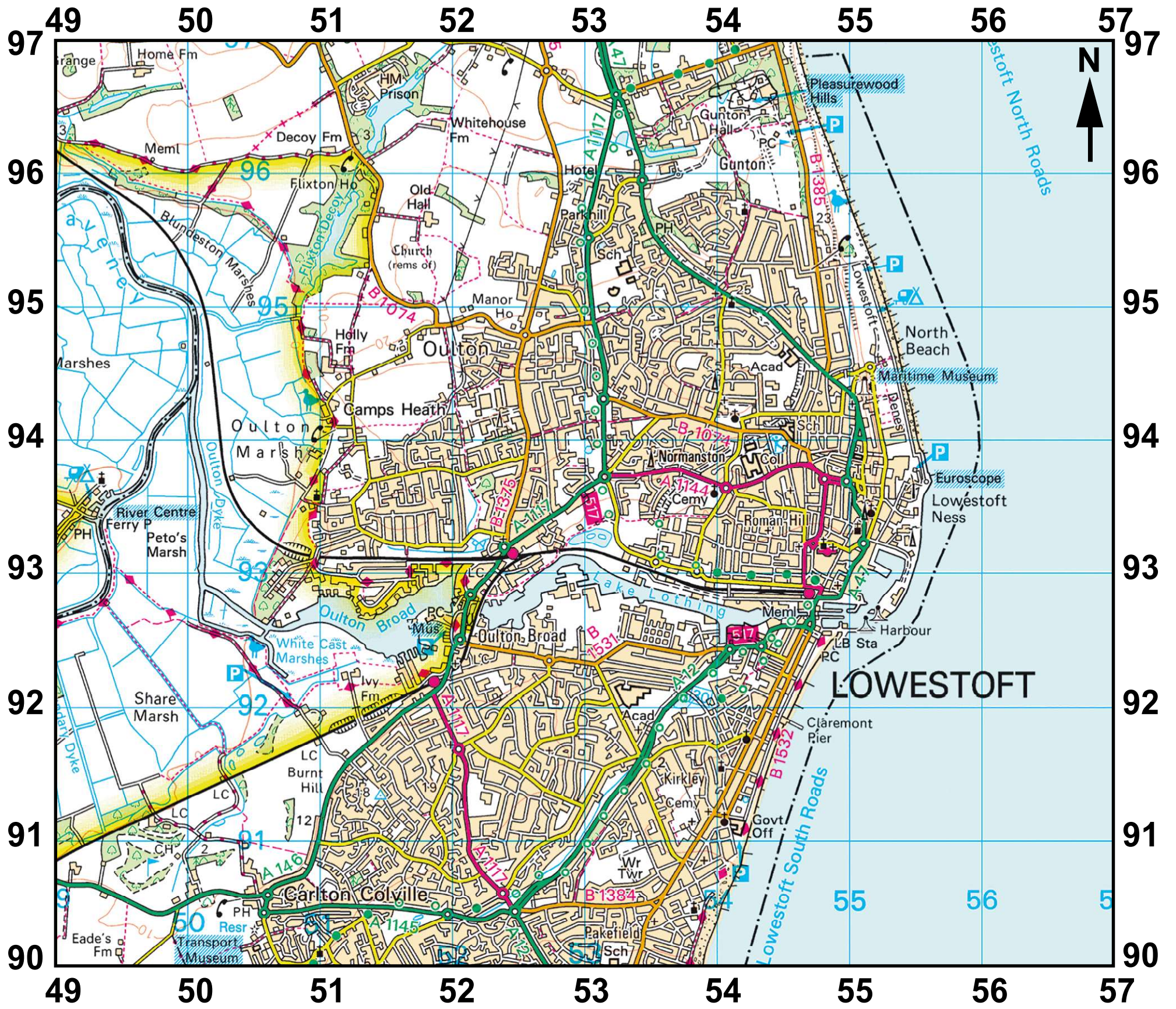
MAP 1: NATIONAL LOCATION



MAP 2: REGIONAL LOCATION



MAP 3: ORDNANCE SURVEY MAP



COMPLETED RECORDING SHEET TO COMPARE EAST AND WEST LOWESTOFT

Location: **West Waveney:**
Lyndhurst Road

Date & Time: **18th Oct 2020**

Type & quality of houses:

Houses are large & well-kept.

Big gardens. Detached houses: Some.

1. Damage to house

2. Paint peeling

3. Broken windows

4. Cracks

5. Vegetation growing in concrete

Crime opportunities:

1. Burglar alarms

2. Security lights

3. CCTV

4. Neighbourhood watch

5. Quiet street

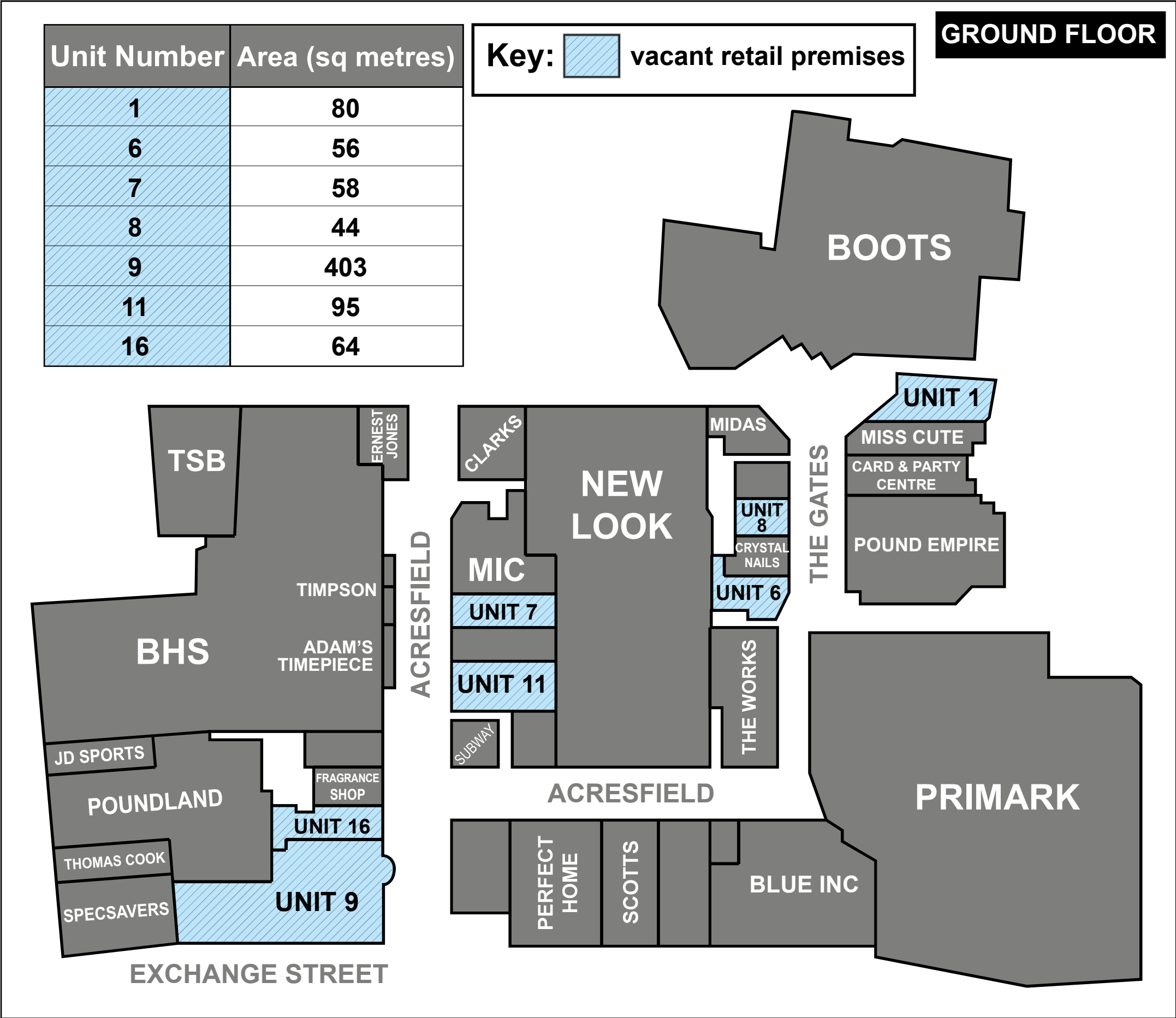
Environment Quality	Score					
	5	4	3	2	1	None
Amount of Litter				✓		
Green space					✓	
Graffiti				✓		
Footpaths			✓			
Lighting				✓		
Traffic noise and cars.			✓			

Graffiti Survey

			Location: Photo from 10 m	Location: Photo from 10 m	Location: Photo from 10 m
Feature		Score	Total Score	Total Score	Total Score
Maximum size of words or pictures	0–20 cm	1	2		
	21–40 cm	2			
	Over 41 cm	3			
Content	Funny or positive artistic & decorative	1	2		
	Likely to be offensive	2			
	Obscene	5			
Visibility	Visible from 1–5 m away & only from one place.	1	5		
	Visible from 6–10 m away & from multiple places & angles.	2			
	Visible from 11 m and further. Highly visible from lots of places	5			
Method	Colours that blend in with the environment.	1	3		
	Bright or bold colours, paint or aerosol.	3			
Total Score			12		

Next to big houses

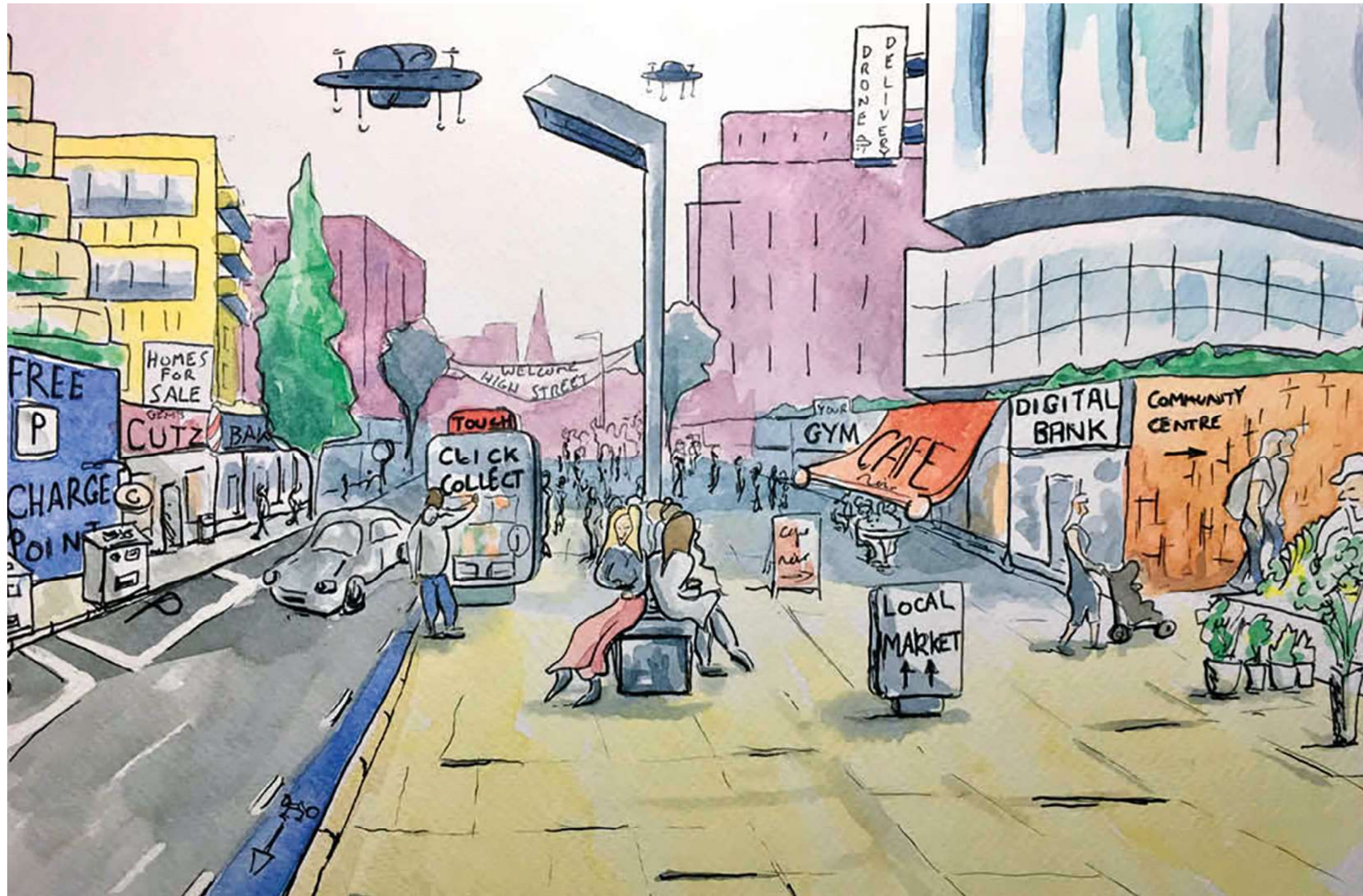
GROUND FLOOR PLAN FOR CROMPTON PLACE: A SHOPPING CENTRE IN BOLTON, LANCASHIRE



Data for Crompton Place

- The ground floor area covers a total area of 6300 square meters.

ARTIST'S IMPRESSION OF THE CHANGING UK HIGH STREET



Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Service area

M1

Elevated

1 Junction number

Unfenced Dual carriageway

A 470

Footbridge

A 493

Road under construction

B 4518

A 855 B 885

Bridge

Road generally more than 4m wide

Road generally less than 4m wide

Other road, drive or track

Path

Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)

Gates / Road tunnel

Ferry P

Ferry V

Ferry (passenger) / Ferry (vehicle)

LAND FEATURES

Cutting, embankment

Electricity transmission line (pylons shown at standard spacing)

Pipe line (arrow indicates direction of flow)

Buildings

Important building (selected)

Bus or coach station

Glass structure

Heliport

Current or former place of worship; with tower with spire, minaret or dome

Place of worship

Triangulation pillar

Mast

Wind pump

Wind turbine

Windmill with or without sails

Graticule intersection at 5' intervals

Landfill site or slag/spoil heap

Coniferous wood

Non-coniferous wood

Mixed wood

Orchard

Park or ornamental ground

Access land (symbols indicate owner or agency - see below)

Forestry Commission

Natural Resources Wales

National Trust; always open, limited access - observe local signs

National Trust for Scotland; always open, limited access - observe local signs

RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

a Station, (a) principal

Siding

Light rail system station

LC Level crossing

Viaduct, embankment

PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland

Footpath

Bridleway

Restricted byway (not for use by mechanically propelled vehicles)

Byway open to all traffic

The representation on this map of any other road, track or path is no evidence of the existence of a right of way.

Public rights of way shown on this map have been taken from local authority definitive maps and later amendments.

The symbols show the defined route so far as the scale of the mapping will allow.

Rights of way are liable to change and may not be clearly defined on the ground. Please check with the relevant local authority for the latest information. Rights of way are not shown on maps in Scotland.

OTHER PUBLIC ACCESS

National Trail, Scotland's Great Trails, European Long Distance Path and selected Recreational Routes

On-road cycle route

Traffic-free cycle route

4 8 Cycle Network number; National / Regional

Other route with public access (not normally shown in urban areas)

The exact nature of the rights on these routes and the existence of any restrictions may be checked with the local highway authority. Alignments are based on the best information available. These routes are not shown on maps of Scotland

Danger Area Firing and Test Ranges in the area. Danger! Observe warning notices.

BOUNDARIES

National

County, Unitary Authority, Metropolitan District or London Borough

District

National Park

WATER FEATURES

ABBREVIATIONS

See website for full list

Br	Bridge	MS	Milestone
Cemy	Cemetery	Mus	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Coll	College	PH	Public house
Fm	Farm	Sta	Station
Ho	House	Sch	School
Hospl	Hospital	TH	Town Hall, Guildhall or equivalent
MP	Milepost	Univ	University

ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of antiquity

Visible earthwork

VILLA Roman

Castle Non-Roman

Site of battle (with date)

HEIGHTS

Contours are at 10 metres vertical interval

Heights are to the nearest metre above mean sea level

Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the natural summit.

ROCK FEATURES

TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

Visitor centre

Walks / trails

Nature reserve

Picnic site

Youth hostel

Golf course or links

Garden / arboretum

Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

Information centre, all year / seasonal

Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Motorway (dual carriageway)

Primary Route

Main road

Road under construction

Secondary road

Narrow road with passing places

Road generally more than 4m wide

Road generally less than 4m wide

Other road, drive or track

Path

Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)

Gates / Road tunnel

Ferry (passenger) / Ferry (vehicle)

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Level crossing

Viaduct, embankment

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OTHER PUBLIC ACCESS

National Trail, Scotland's Great Trails, European Long Distance Path and selected Recreational Routes

On-road cycle route

Traffic-free cycle route

Cycle Network number; National / Regional

Other route with public access (not normally shown in urban areas)

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National Park

WATER FEATURES

Marsh or salting

Towpath

Lock

Ford

Cliff

Slopes

Flat rock

Lighthouse (in use)

Lighthouse (disused)

Beacon

Sand Dunes

Shingle

Mud

High water mark

Low water mark

Aqueduct

Weir

Footbridge

Bridge

Lake

Canal (dry)

ABBREVIATIONS

See website for full list

Br

Cemy

CG

CH

Coll

Fm

Ho

Hospl

MP

Bridge

Cemetery

Cattle grid

Clubhouse

College

Farm

House

Hospital

Milepost

MS

Mus

P

PC

PH

Sta

Sch

TH

Univ

Milestone

Museum

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Public convenience (in rural areas)

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District

National Park

WATER FEATURES

ABBREVIATIONS

See website for full list

Br	Bridge	MS	Milestone
Cemy	Cemetery	Mus	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Coll	College	PH	Public house
Fm	Farm	Sta	Station
Ho	House	Sch	School
Hospl	Hospital	TH	Town Hall, Guildhall or equivalent
MP	Milepost	Univ	University

ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of antiquity

Visible earthwork

VILLA Roman

Castle Non-Roman

Site of battle (with date)

HEIGHTS

Contours are at 10 metres vertical interval

Heights are to the nearest metre above mean sea level

Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the natural summit.

ROCK FEATURES

TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

Visitor centre

Walks / trails

Nature reserve

Picnic site

Youth hostel

Golf course or links

Garden / arboretum

Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

Information centre, all year / seasonal

Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Service area

Motorway (dual carriageway)

Junction number

Primary Route

Main road

Road under construction

Secondary road

Narrow road with passing places

Road generally more than 4m wide

Road generally less than 4m wide

Other road, drive or track

Path

Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)

Gates / Road tunnel

Ferry (passenger) / Ferry (vehicle)

RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

Station, (a) principal

Siding

Light rail system station

Level crossing

Viaduct, embankment

PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland

Footpath

Bridleway

Restricted byway (not for use by mechanically propelled vehicles)

Byway open to all traffic

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OTHER PUBLIC ACCESS

National Trail, Scotland's Great Trails, European Long Distance Path and selected Recreational Routes

On-road cycle route

Traffic-free cycle route

Cycle Network number; National / Regional

Other route with public access (not normally shown in urban areas)

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Danger Area Firing and Test Ranges in the area. Danger! Observe warning notices.

BOUNDARIES

National

County, Unitary Authority, Metropolitan District or London Borough

District

National Park

WATER FEATURES

Marsh or salting

Towpath

Lock

Ford

Cliff

Slopes

Flat rock

Lighthouse (in use)

Lighthouse (disused)

Beacon

Sand Dunes

Shingle

Mud

Aqueduct

Weir

Footbridge

Bridge

Normal tidal limit

High water mark

Low water mark

Lake

Canal (dry)

LAND FEATURES

Cutting, embankment

Electricity transmission line (pylons shown at standard spacing)

Pipe line (arrow indicates direction of flow)

Buildings

Important building (selected)

Bus or coach station

Glass structure

Heliport

Current or former place of worship; with tower with spire, minaret or dome

Place of worship

Triangulation pillar

Mast

Wind pump

Wind turbine

Windmill with or without sails

Graticule intersection at 5' intervals

Landfill site or slag/spoil heap

Coniferous wood

Non-coniferous wood

Mixed wood

Orchard

Park or ornamental ground

Access land (symbols indicate owner or agency - see below)

Forestry Commission

Natural Resources Wales

National Trust; always open, limited access - observe local signs

National Trust for Scotland; always open, limited access - observe local signs

ABBREVIATIONS

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ARCHAEOLOGICAL AND HISTORICAL INFORMATION

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ROCK FEATURES

Cliff

Outcrop

Cliff

Scree

TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

Visitor centre

Walks / trails

Nature reserve

Picnic site

Youth hostel

Golf course or links

Garden / arboretum

Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

Information centre, all year / seasonal

Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Service area

M1

Elevated

1 Junction number

Unfenced Dual carriageway

A 470

Footbridge

A 493

Road under construction

B 4518

Secondary road

A 855

Narrow road with passing places

B 885

Bridge

Road generally more than 4m wide

Road generally less than 4m wide

Other road, drive or track

Path

Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)

Gates / Road tunnel

Ferry P

Ferry V

Ferry (passenger) / Ferry (vehicle)

LAND FEATURES

Cutting, embankment

Electricity transmission line (pylons shown at standard spacing)

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National Trust for Scotland; always open, limited access - observe local signs

RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

a Station, (a) principal

Siding

Light rail system station

LC Level crossing

Viaduct, embankment

PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland

Footpath

Bridleway

Restricted byway (not for use by mechanically propelled vehicles)

Byway open to all traffic

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On-road cycle route

Traffic-free cycle route

4 8 Cycle Network number; National / Regional

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BOUNDARIES

National

County, Unitary Authority, Metropolitan District or London Borough

District

National Park

WATER FEATURES

Marsh or salting

Towpath

Lock

Ford

Cliff

Slopes

Flat rock

High water mark

Low water mark

Aqueduct

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Normal tidal limit

Sand Dunes

Lighthouse (in use)

Lighthouse (disused)

Beacon

Shingle

Mud

Canal (dry)

ABBREVIATIONS

See website for full list

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ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of antiquity

Visible earthwork

VILLA Roman

Castle Non-Roman

1066 Site of battle (with date)

HEIGHTS

Contours are at 10 metres vertical interval

50

Heights are to the nearest metre above mean sea level

144

ROCK FEATURES

Cliff -650

Outcrop -600

Cliff -580

Scree -550

TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

Visitor centre

Walks / trails

Nature reserve

Picnic site

Youth hostel

Golf course or links

Garden / arboretum

Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

Information centre, all year / seasonal

Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Service area

M1

Elevated

1 Junction number

Unfenced Dual carriageway

A 470

Footbridge

A 493

Road under construction

B 4518

Secondary road

A 855

Narrow road with passing places

B 885

Bridge

Road generally more than 4m wide

Road generally less than 4m wide

Other road, drive or track

Path

Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)

Gates / Road tunnel

Ferry P

Ferry V

Ferry (passenger) / Ferry (vehicle)

LAND FEATURES

Cutting, embankment

Electricity transmission line (pylons shown at standard spacing)

Pipe line (arrow indicates direction of flow)

Buildings

Important building (selected)

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Place of worship

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Mast

Wind pump

Wind turbine

Windmill with or without sails

Graticule intersection at 5' intervals

Landfill site or slag/spoil heap

Coniferous wood

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Mixed wood

Orchard

Park or ornamental ground

Access land (symbols indicate owner or agency - see below)

Forestry Commission

Natural Resources Wales

National Trust; always open, limited access - observe local signs

National Trust for Scotland; always open, limited access - observe local signs

RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

a Station, (a) principal

Siding

Light rail system station

LC Level crossing

Viaduct, embankment

PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland

Footpath

Bridleway

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BOUNDARIES

National

County, Unitary Authority, Metropolitan District or London Borough

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National Park

WATER FEATURES

Marsh or salting

Towpath

Lock

Ford

Cliff

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Lighthouse (disused)

Beacon

Shingle

Mud

Canal (dry)

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ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of antiquity

Visible earthwork

VILLA Roman

Castle Non-Roman

Site of battle (with date)

HEIGHTS

Contours are at 10 metres vertical interval

50

Heights are to the nearest metre above mean sea level

144

ROCK FEATURES

Cliff -650

Outcrop -600

Cliff -580

Scree -550

TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

Visitor centre

Walks / trails

Nature reserve

Picnic site

Youth hostel

Golf course or links

Garden / arboretum

Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

Information centre, all year / seasonal

Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Landranger series (1:50 000 scale)

LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Service area

M1

Elevated

1 Junction number

Unfenced Dual carriageway

A 470

Footbridge

A 493

Road under construction

B 4518

A 855 B 885

Bridge

Road generally more than 4m wide

Road generally less than 4m wide

Other road, drive or track

Path

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Mast

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Mixed wood

Orchard

Park or ornamental ground

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Forestry Commission

Natural Resources Wales

National Trust; always open, limited access - observe local signs

National Trust for Scotland; always open, limited access - observe local signs

RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

a Station, (a) principal

Siding

Light rail system station

LC Level crossing

Viaduct, embankment

PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland

Footpath

Bridleway

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BOUNDARIES

National

County, Unitary Authority, Metropolitan District or London Borough

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National Park

WATER FEATURES

Marsh or salting

Towpath

Lock

Ford

Cliff

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Flat rock

High water mark

Low water mark

Aqueduct

Weir

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Sand Dunes

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Lighthouse (disused)

Beacon

Shingle

Mud

Canal (dry)

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ARCHAEOLOGICAL AND HISTORICAL INFORMATION

Site of antiquity

Visible earthwork

VILLA Roman

Castle Non-Roman

Site of battle (with date)

HEIGHTS

Contours are at 10 metres vertical interval

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Heights are to the nearest metre above mean sea level

144

ROCK FEATURES

Cliff -650

Outcrop -600

Cliff -580

Scree -550

TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

Visitor centre

Walks / trails

Nature reserve

Picnic site

Youth hostel

Golf course or links

Garden / arboretum

Camp site / Caravan site

Camping and caravan site

Selected places of tourist interest

Information centre, all year / seasonal

Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

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LANDRANGER MAP SYMBOLS



ROADS AND PATHS

Not necessarily rights of way

Service area

M1

Elevated

1 Junction number

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A 470

Footbridge

A 493

Road under construction

B 4518

Secondary road

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Narrow road with passing places

B 885

Bridge

Road generally more than 4m wide

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LAND FEATURES

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Pipe line (arrow indicates direction of flow)

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National Trust; always open, limited access - observe local signs

National Trust for Scotland; always open, limited access - observe local signs

RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

a Station, (a) principal

Siding

Light rail system station

LC Level crossing

Viaduct, embankment

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Footpath

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ROCK FEATURES

Cliff -650

Outcrop -600

Cliff -580

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TOURIST INFORMATION

Viewpoint 180°

Viewpoint 360°

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Picnic site

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Golf course or links

Garden / arboretum

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Camping and caravan site

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Parking

Park & Ride, all year / seasonal

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LANDRANGER MAP SYMBOLS

ROADS AND PATHS

Not necessarily rights of way

Service area

M1

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Junction number

Motorway (dual carriageway)

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RAILWAYS

Track multiple or single

Track under construction

Light rail system, narrow gauge or tramway

Bridges, footbridge

Tunnel, cutting

Station, (a) principal

Siding

Light rail system station

Level crossing

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PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland

Footpath

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Towpath

Lock

Ford

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Sand Dunes

High water mark

Low water mark

Aqueduct

Weir

Footbridge

Bridge

Normal tidal limit

Canal

Canal (dry)

Lake

ABBREVIATIONS

See website for full list

Br Bridge

Cemy Cemetry

CG Cattle grid

CH Clubhouse

Coll College

Fm Farm

Ho House

Hospl Hospital

MP Milepost

MS Milestone

Mus Museum

P Post office

PC Public convenience (in rural areas)

PH Public house

Sta Station

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Univ University

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Site of antiquity

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Outcrop

Cliff

Scree

TOURIST INFORMATION

Viewpoint 180°

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Parking

Park & Ride, all year / seasonal

Phone, public / emergency / roadside assistance

Recreation / leisure / sports centre

World Heritage site or area

Landranger series (1:50 000 scale)

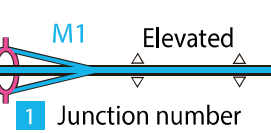
LANDRANGER MAP SYMBOLS

ROADS AND PATHS

Not necessarily rights of way



Service area



M1
1 Junction number



Elevated



Dual carriageway



A 470 Primary Route



A 493 Main road



Road under construction



B 4518 Secondary road



A 855 B 885 Narrow road with passing places



Bridge



Road generally more than 4m wide



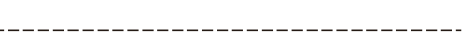
Road generally less than 4m wide



Other road, drive or track



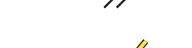
Path



Gradient: steeper than 20% (1 in 5)/ 14% to 20% (1 in 7 to 1 in 5)



Gates / Road tunnel



Ferry P



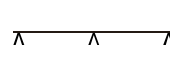
Ferry V

Ferry (passenger) / Ferry (vehicle)

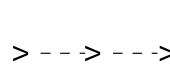
LAND FEATURES



Cutting, embankment



Electricity transmission line (pylons shown at standard spacing)



Pipe line (arrow indicates direction of flow)



Buildings



Important building (selected)



Bus or coach station



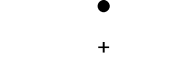
Glass structure



Heliport



Current or former place of worship; with tower with spire, minaret or dome



Place of worship



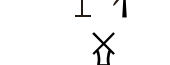
Triangulation pillar



Mast



Wind pump



Wind turbine



Windmill with or without sails



Graticule intersection at 5' intervals



Landfill site or slag/spoil heap



Coniferous wood



Non-coniferous wood



Mixed wood



Orchard



Park or ornamental ground



Access land (symbols indicate owner or agency - see below)



Forestry Commission



Natural Resources Wales



National Trust; always open, limited access - observe local signs



National Trust for Scotland; always open, limited access - observe local signs

RAILWAYS



Track multiple or single



Track under construction



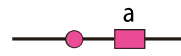
Light rail system, narrow gauge or tramway



Bridges, footbridge



Tunnel, cutting



a Station, (a) principal



Siding



Light rail system station



LC Level crossing



Viaduct, embankment

PUBLIC RIGHTS OF WAY

Not shown on maps of Scotland



Footpath



Bridleway



Restricted byway (not for use by mechanically propelled vehicles)



Byway open to all traffic

The representation on this map of any other road, track or path is no evidence of the existence of a right of way.

Public rights of way shown on this map have been taken from local authority definitive maps and later amendments.

The symbols show the defined route so far as the scale of the mapping will allow.

Rights of way are liable to change and may not be clearly defined on the ground. Please check with the relevant local authority for the latest information. Rights of way are not shown on maps in Scotland.

OTHER PUBLIC ACCESS



National Trail, Scotland's Great Trails, European Long Distance Path and selected Recreational Routes



On-road cycle route



Traffic-free cycle route



4 8 Cycle Network number; National / Regional

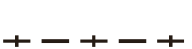


Other route with public access (not normally shown in urban areas)

The exact nature of the rights on these routes and the existence of any restrictions may be checked with the local highway authority. Alignments are based on the best information available. These routes are not shown on maps of Scotland

Danger Area Firing and Test Ranges in the area. Danger! Observe warning notices.

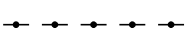
BOUNDARIES



National



County, Unitary Authority, Metropolitan District or London Borough

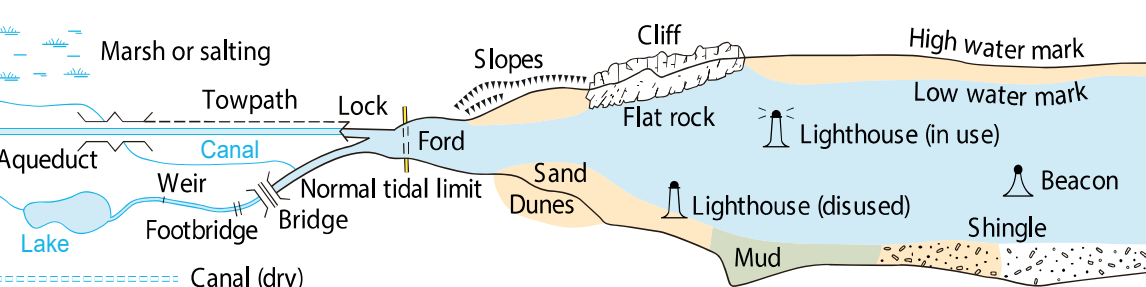


District



National Park

WATER FEATURES

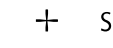


ABBREVIATIONS

See website for full list

Br	Bridge	MS	Milestone
Cemy	Cemetery	Mus	Museum
CG	Cattle grid	P	Post office
CH	Clubhouse	PC	Public convenience (in rural areas)
Coll	College	PH	Public house
Fm	Farm	Sta	Station
Ho	House	Sch	School
Hospl	Hospital	TH	Town Hall, Guildhall or equivalent
MP	Milepost	Univ	University

ARCHAEOLOGICAL AND HISTORICAL INFORMATION



Site of antiquity



Visible earthwork



VILLA Roman



Castle Non-Roman



Site of battle (with date)

HEIGHTS



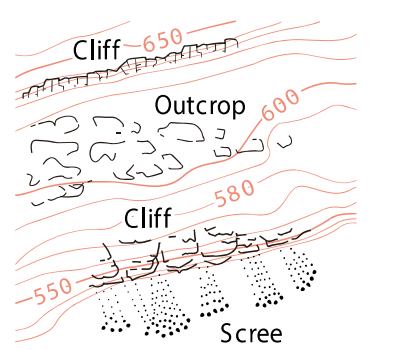
Contours are at 10 metres vertical interval



Heights are to the nearest metre above mean sea level

Where two heights are shown, the first is the height of the natural ground in the location of the triangulation pillar, and the second (in brackets) to a separate point which is the natural summit.

ROCK FEATURES



TOURIST INFORMATION



Viewpoint 180°



Viewpoint 360°



Visitor centre



Walks / trails



Nature reserve



Picnic site



Youth hostel



Golf course or links



Garden / arboretum



Camp site / Caravan site



Camping and caravan site



Selected places of tourist interest



Information centre, all year / seasonal



Parking



Park & Ride, all year / seasonal



Phone, public / emergency / roadside assistance



Recreation / leisure / sports centre



World Heritage site or area