

**PROPOSED REINFORCEMENT TO THE ELECTRICAL DISTRIBUTION SYSTEM
132kV OVERHEAD LINE BETWEEN LEGACY AND OSWESTRY**

**ENVIRONMENTAL STATEMENT VOLUME 2:
FIGURES**

**April 2009
Updated August 2012**

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Published by:
ScottishPower Ltd
1 Atlantic Quay
Glasgow
G2 8SP

August 2012

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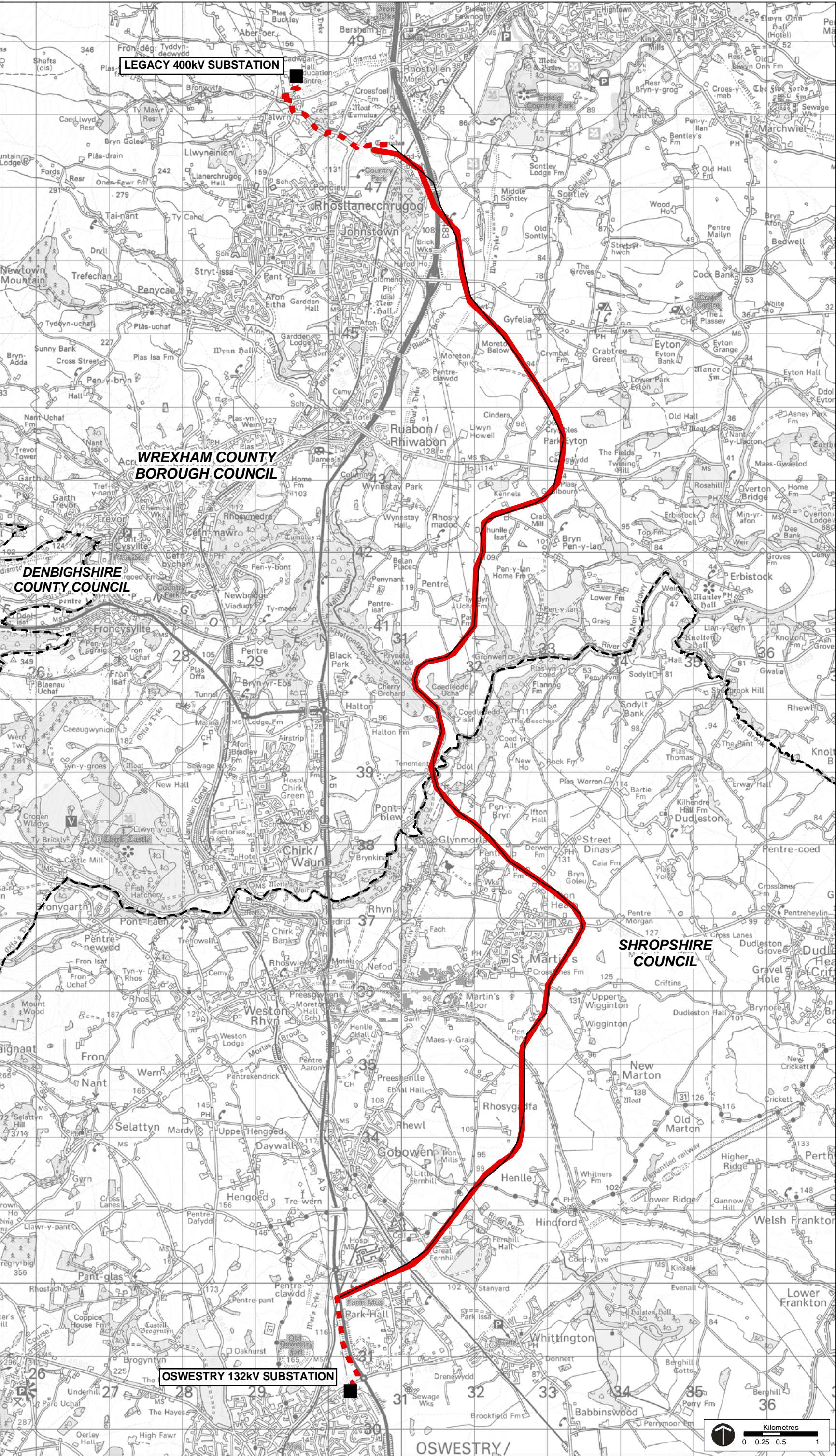
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ENVIRONMENTAL STATEMENT VOLUME 2: FIGURES

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Key

District borough boundary

Existing Infrastructure

Existing substation

Proposed Infrastructure

132kV Wood Pole Line
(Application Route Corridor)

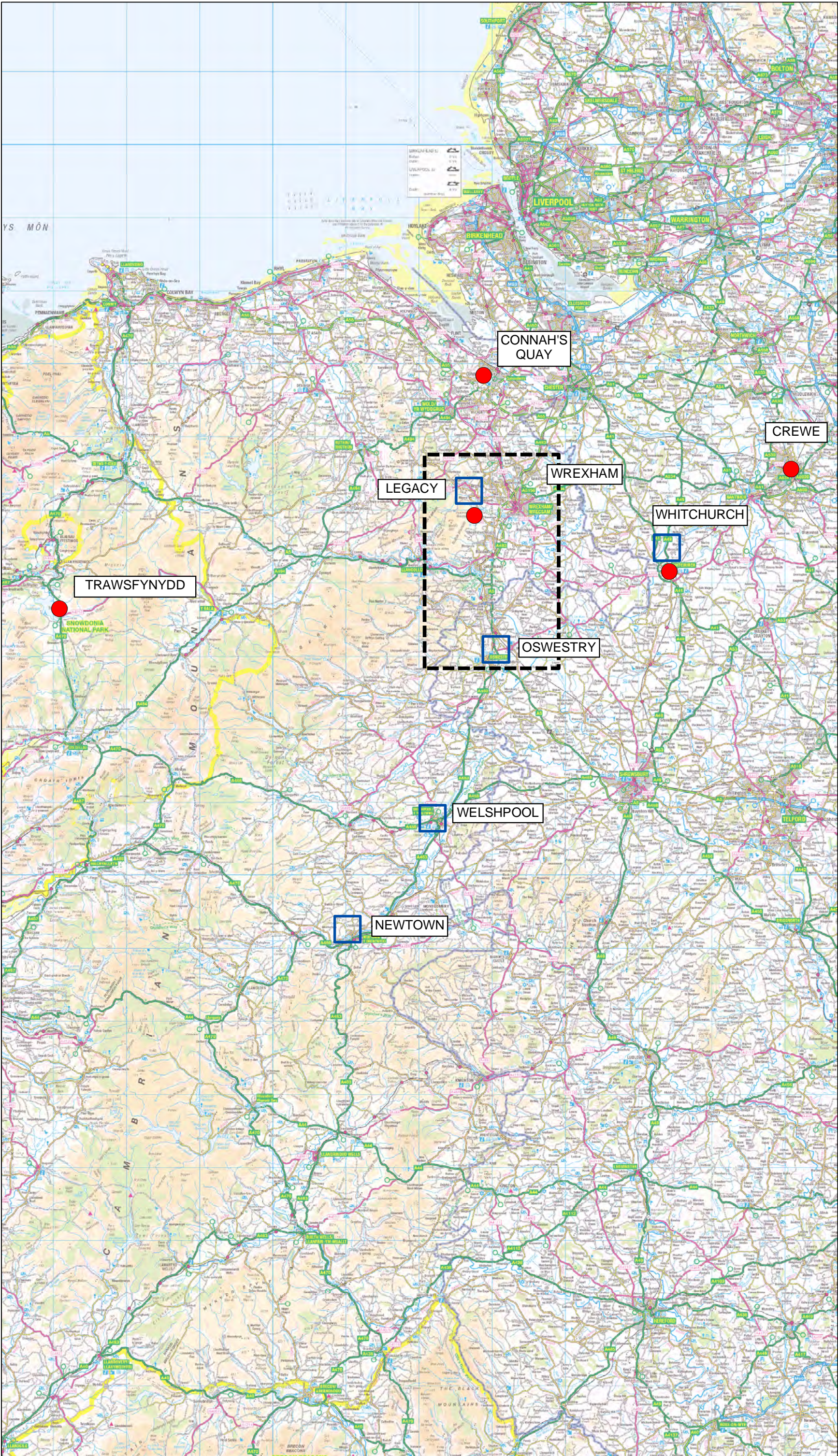
132kV Underground Cable

Trident Wood Pole Line

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Project:	Legacy to Oswestry 132kV Overhead Line	
Figure No:	Figure 1.1	
Drawing Title:	Proposed Route	
Date:	03-08-12	Drawing No: D700.124F
Drawn:	DH	Checked: CQ Approved: JG



Key

Study Area

Existing Infrastructure

Substations which transform 132 kV to 33 kV for wider distribution

Proposed Infrastructure

Possible supply points to area south of Wrexham

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No:

Figure 2.1

Drawing Title:

Regional Context

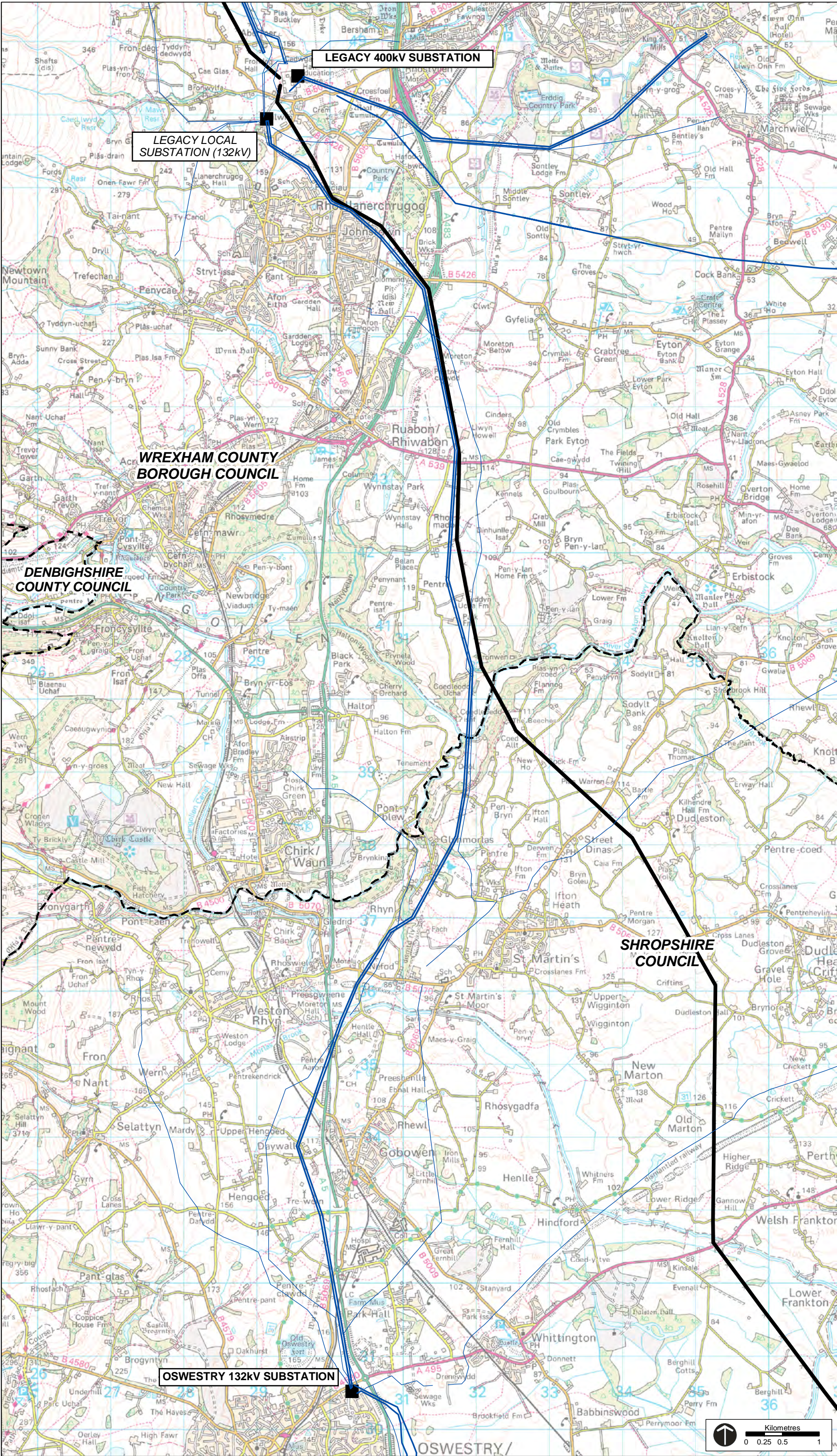
Date: 26-06-12

Drawing No: D700.072E

Drawn: DH

Checked: CQ

Approved: IJG



Key

District borough boundary

Existing Infrastructure

Existing substation

Existing 400kV overhead line

Existing 132kV overhead line

Existing 33kV overhead line

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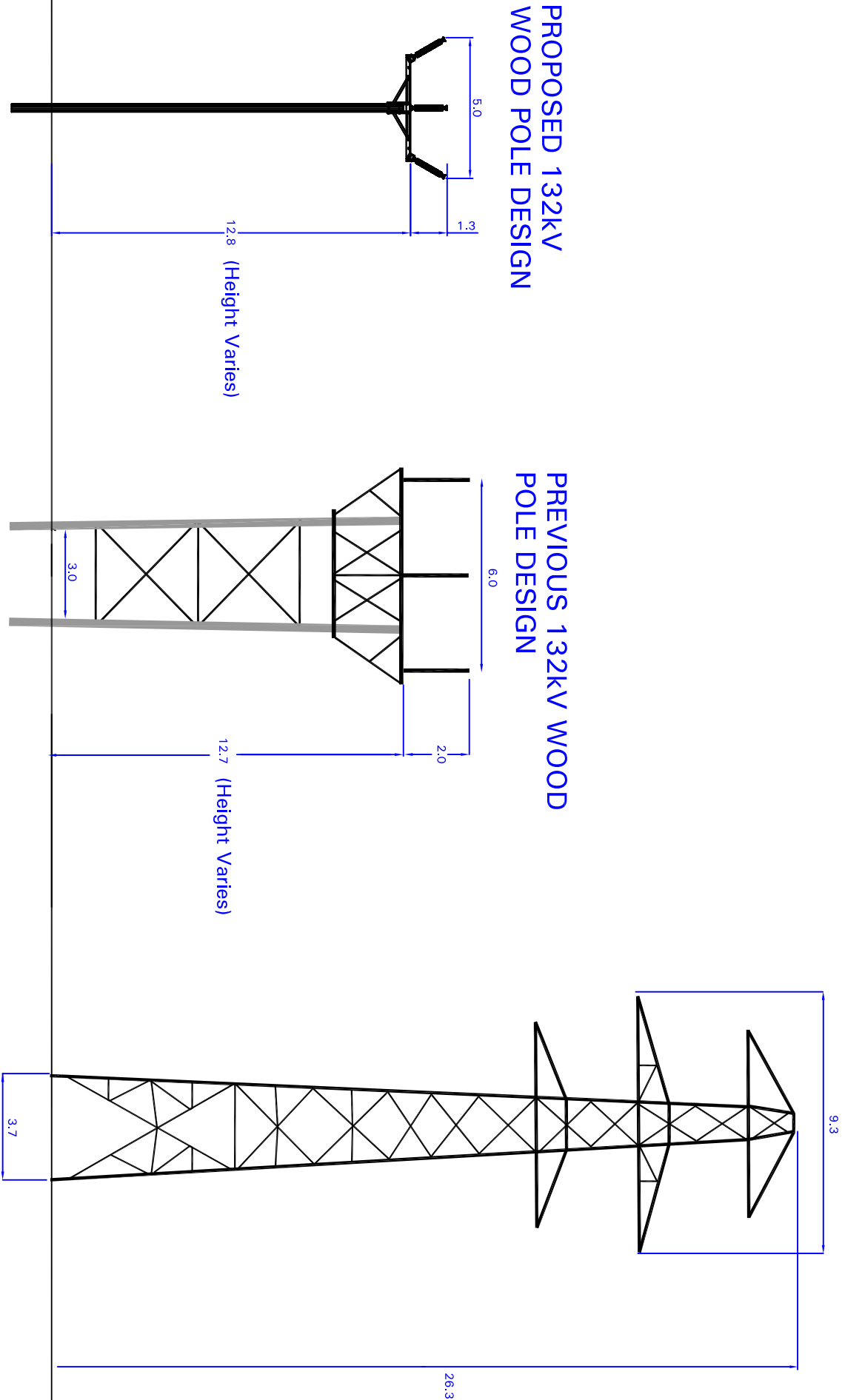
Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 2.2

Drawing Title: Existing Electrical System

Date: 02-08-12	Drawing No: D700.041B	
Drawn: DH	Checked: CQ	Approved: JG

132kV DOUBLE CIRCUIT LATTICE



Up to 150m spacing
(average 7 supports per km)

Up to 120m spacing
(average 10 supports per km)

300m spacing
(3 supports per km)

Scale : 1:200 @ A3

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Project:

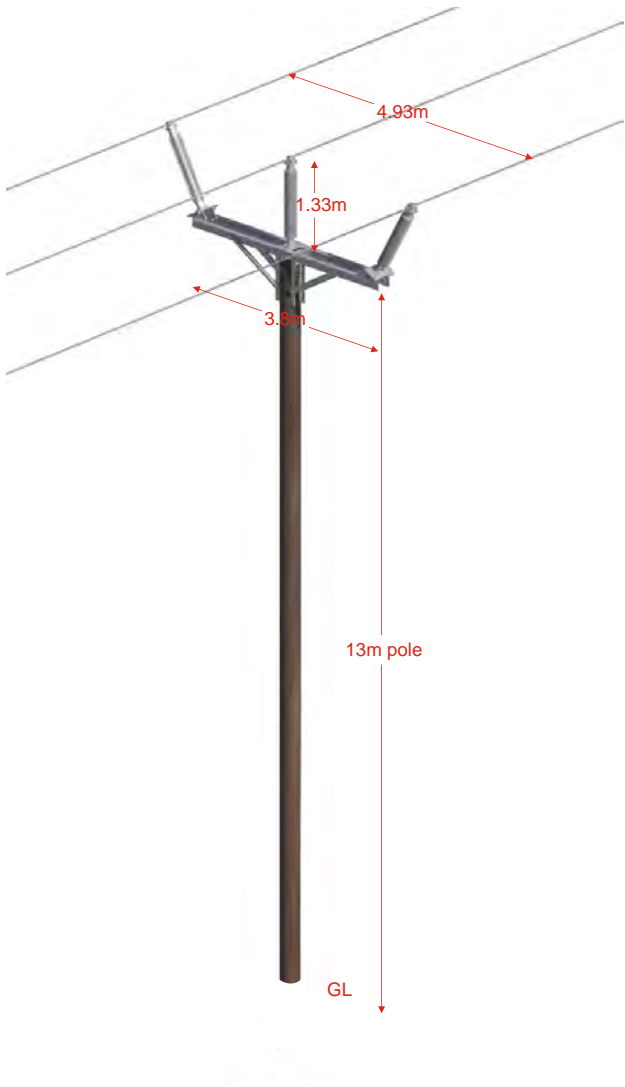
Legacy to Oswestry
132kV Overhead Line

Figure No: Figure 4.1

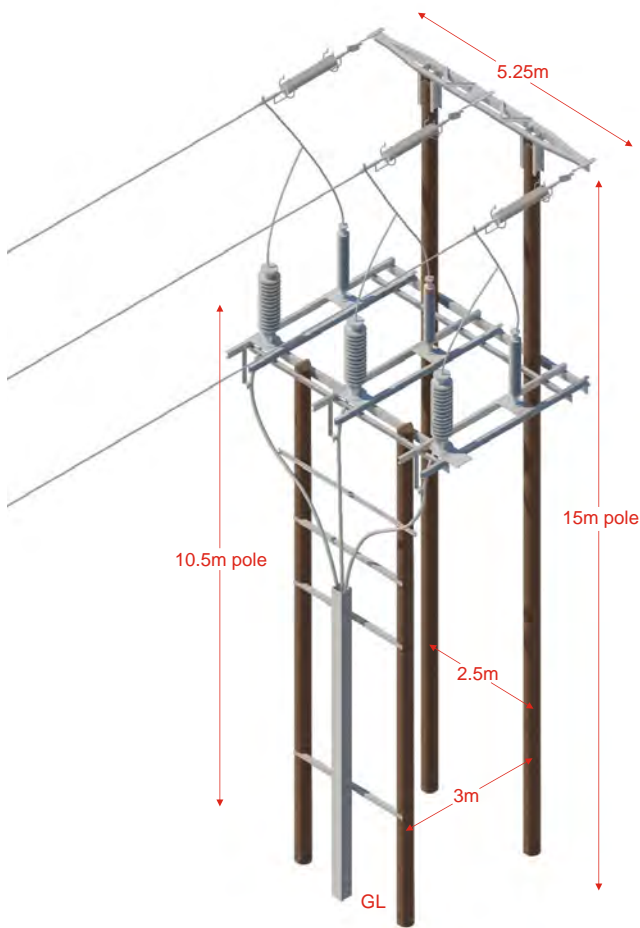
Drawing Title:

Comparison of Support Types

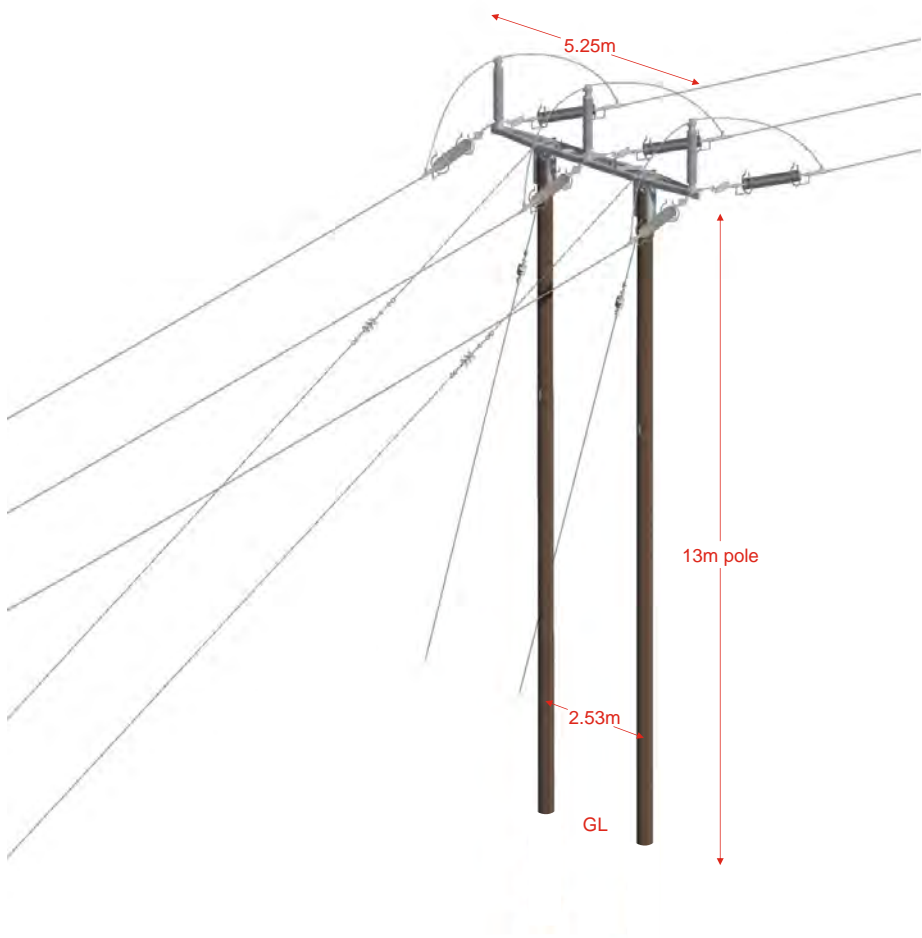
Intermediate Pole




Terminal Structure




Section/Angle Pole




		
Project: Legacy to Oswestry 132kV Overhead Line		
Figure No: Figure 4.2		
Drawing Title: Proposed Support Types		
Date: 23-07-12	Drawing No: C700.034	
Drawn: DH	Checked: CQ	Approved: UG




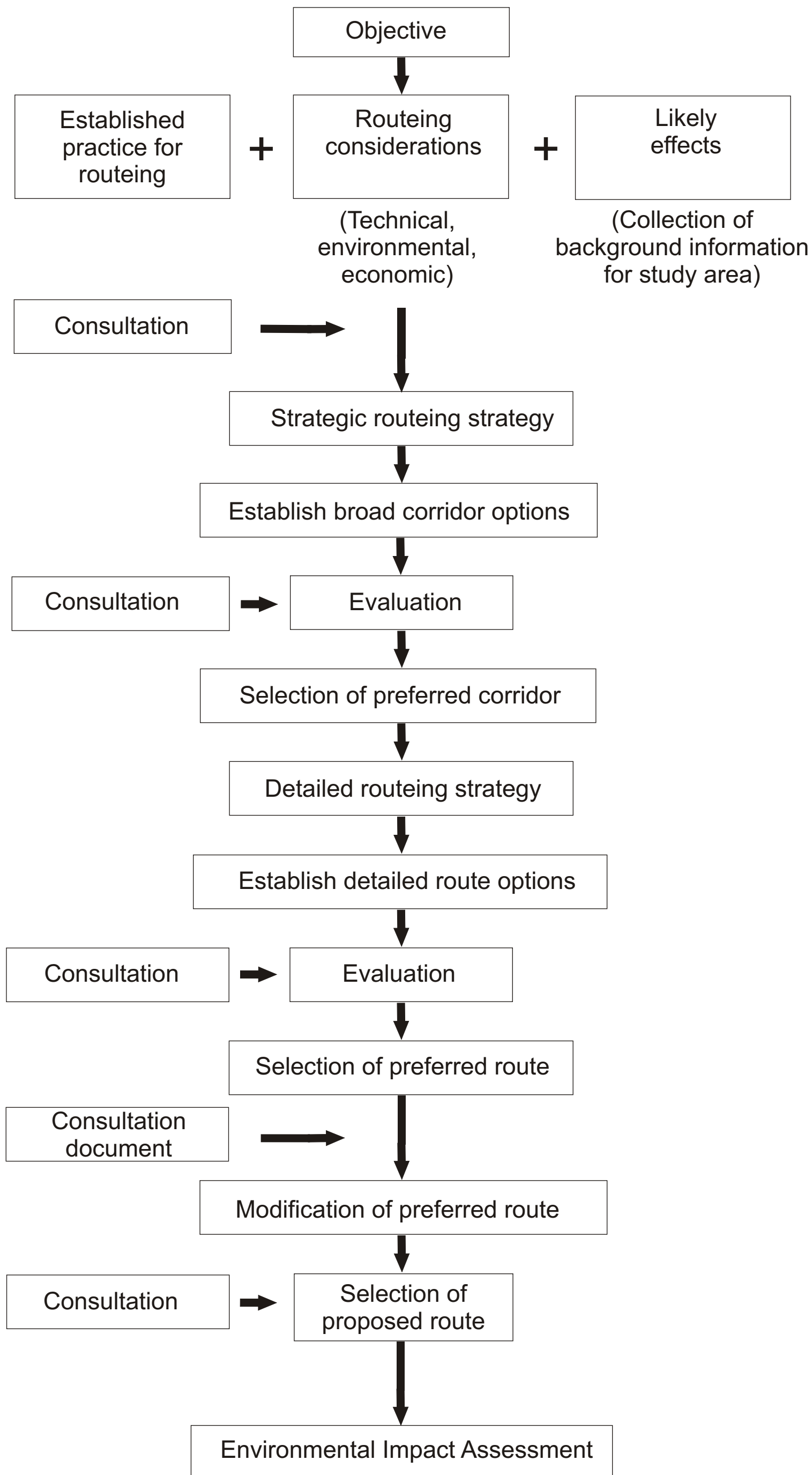
		
Project: Legacy to Oswestry 132kV Overhead Line		
Figure No: Figure 4.3		
Drawing Title: Photographs of Proposed Support Types		
Date: 25-07-12	Drawing No: C700.028C	
Drawn: DH	Checked: CQ	Approved: IJG




 SP MANWEB			
Project:		Legacy to Oswestry 132kV Overhead Line	
Figure No:		Figure 4.4	
Drawing Title: Typical Methods of Construction of Wood Pole Lines			
Date: 23-07-12		Drawing No: C700.037	
Drawn: DH	Checked: CQ	Approved: IJG	

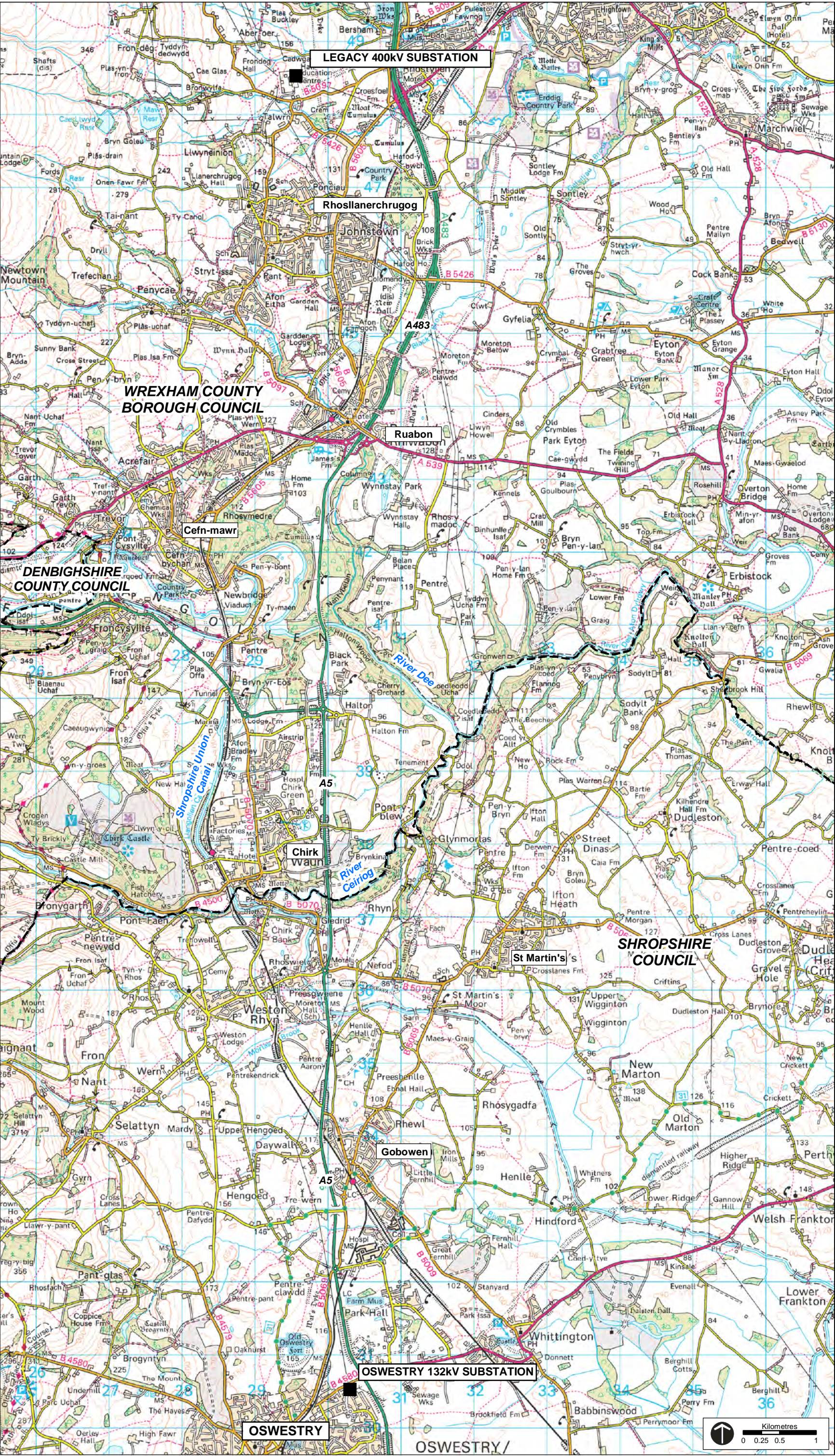


			
Project:		Legacy to Oswestry 132kV Overhead Line	
Figure No:		Figure 4.5	
Drawing Title: Corridor Stringing at Road Crossings			
Date:	23-07-12	Drawing No:	C700.036
Drawn:	DH	Checked:	CQ
		Approved:	UJG



Adapted from: *Strategic Routeing and Environmental Impact Assessment for Overhead Electrical Transmission Lines*.
R Marshall and R Baxter
Journal of Environmental Planning and Management, 45 (5), 747-764, 2002.

		
Project: Legacy to Oswestry 132kV Overhead Line		
Figure No: Figure 5.1		
Drawing Title: The Route Selection Process		
Date: 23-07-12	Drawing No: C700.035	
Drawn: DH	Checked: CQ	Approved: UG



Key

District borough boundary

Existing Infrastructure

Existing substation

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No:

Figure 7.1

Drawing Title:

Study Area

Date: 26-06-12

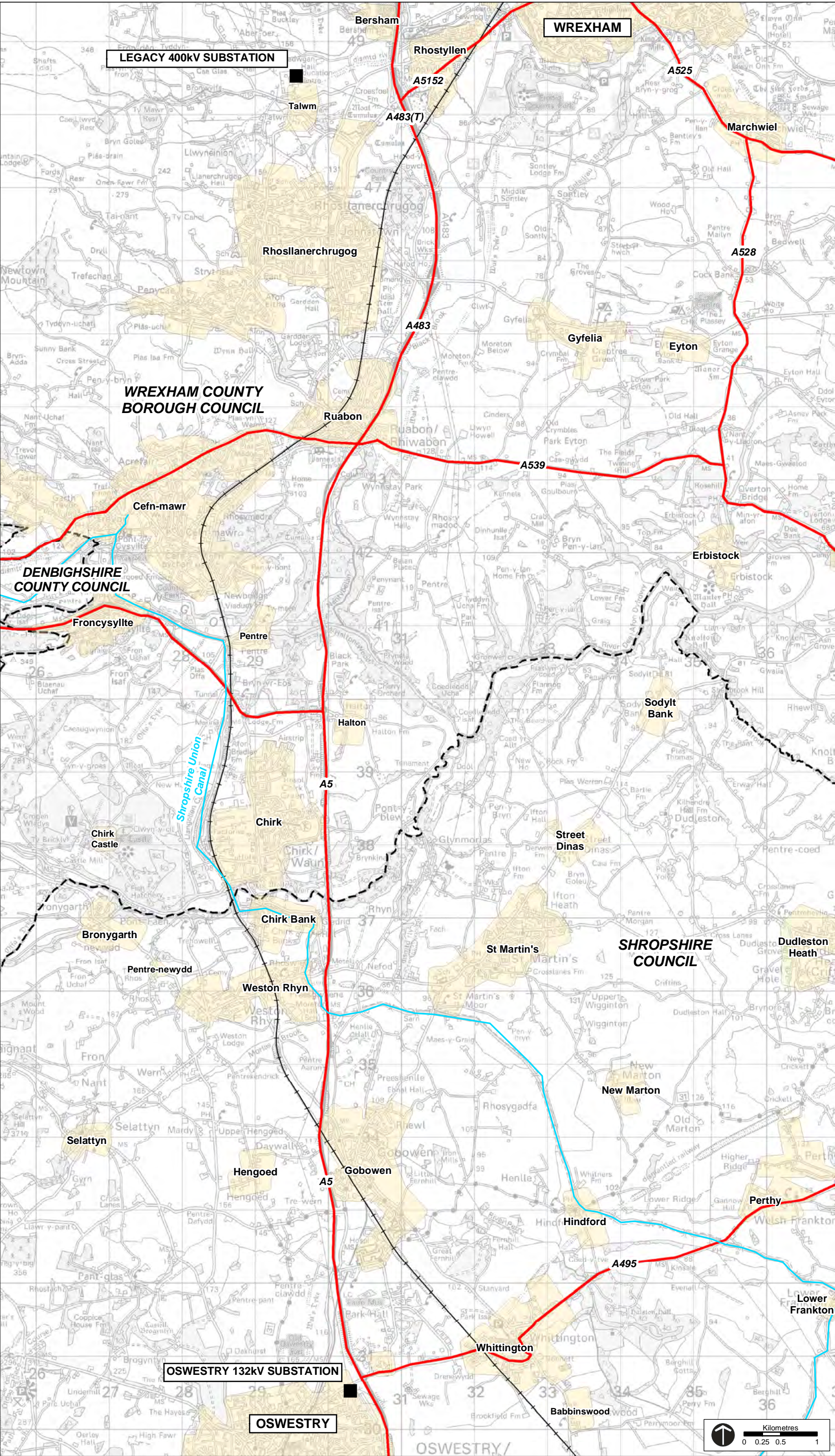
Drawing No: D700.040D

Drawn: DH

Checked: CQ

Approved: JG

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Project: Legacy to Oswestry 132kV Overhead Line		
Figure No: Figure 7.1		
Drawing Title: Study Area		
Date: 26-06-12	Drawing No: D700.040D	
Drawn: DH	Checked: CQ	Approved: JG



Key

- District borough boundary
- Main Areas of Settlement
- Existing Infrastructure**
- Existing substation
- A-Roads
- Rail
- Shropshire Union Canal

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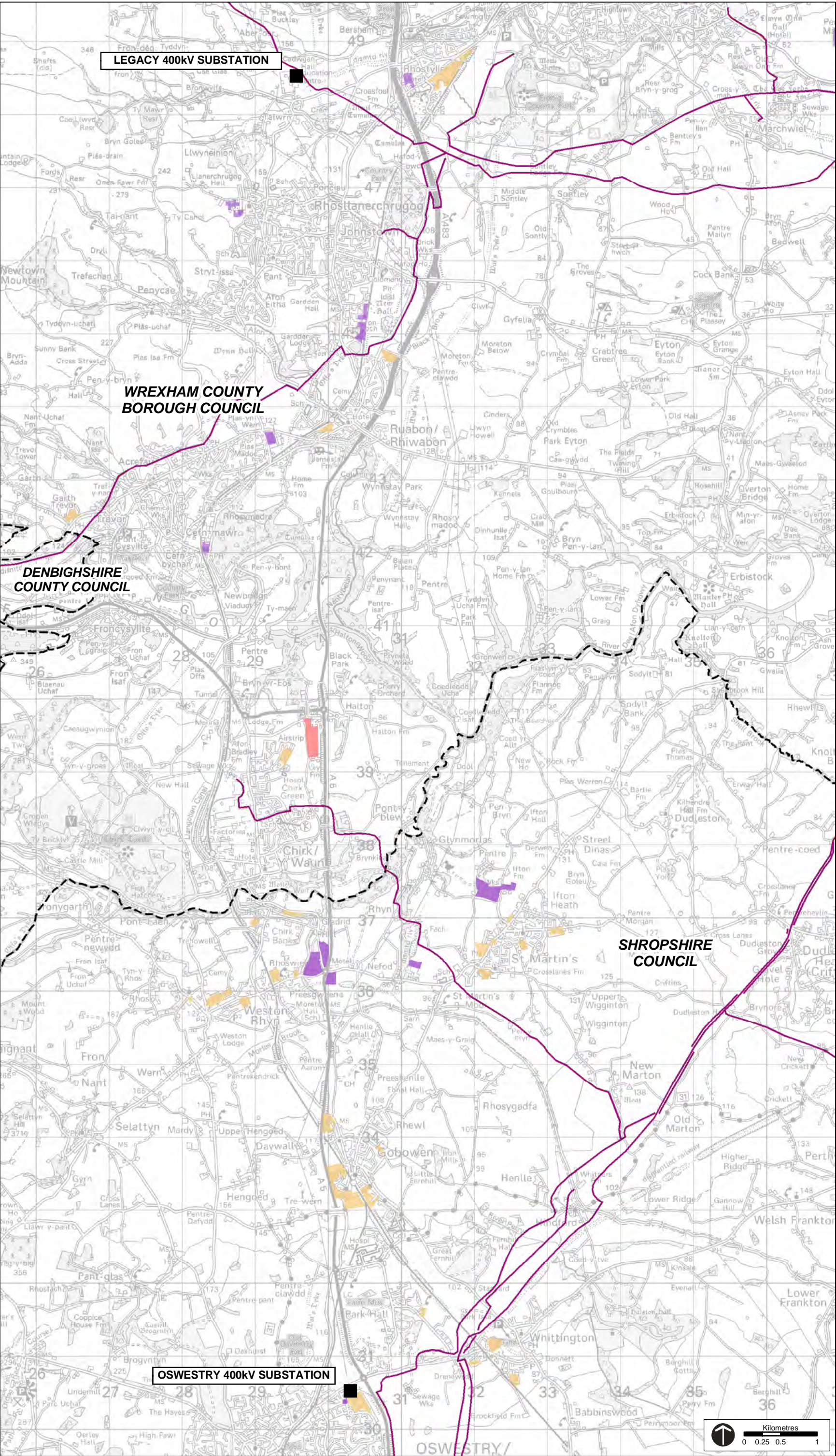
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Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 7.2

Drawing Title: Settlements and Infrastructure

Date: 26-06-12	Drawing No: D700.032D	
Drawn: DH	Checked: CQ	Approved: JG



Key

District borough boundary

Chirk Airfield

Existing Infrastructure

Existing substation

National Grid Gas Pipelines

Proposed Development Allocations

Economic Development Sites

Housing Allocations

Oswestry Proposed Road Route

This map contains information from the following sources:

- Ordnance Survey
- Scottish Power
- National Grid
- Shropshire Council
- Oswestry Council (former)
- Wrexham County Borough Council

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No:

Figure 7.3

Drawing Title:

Development Consultation and Consultation Zones

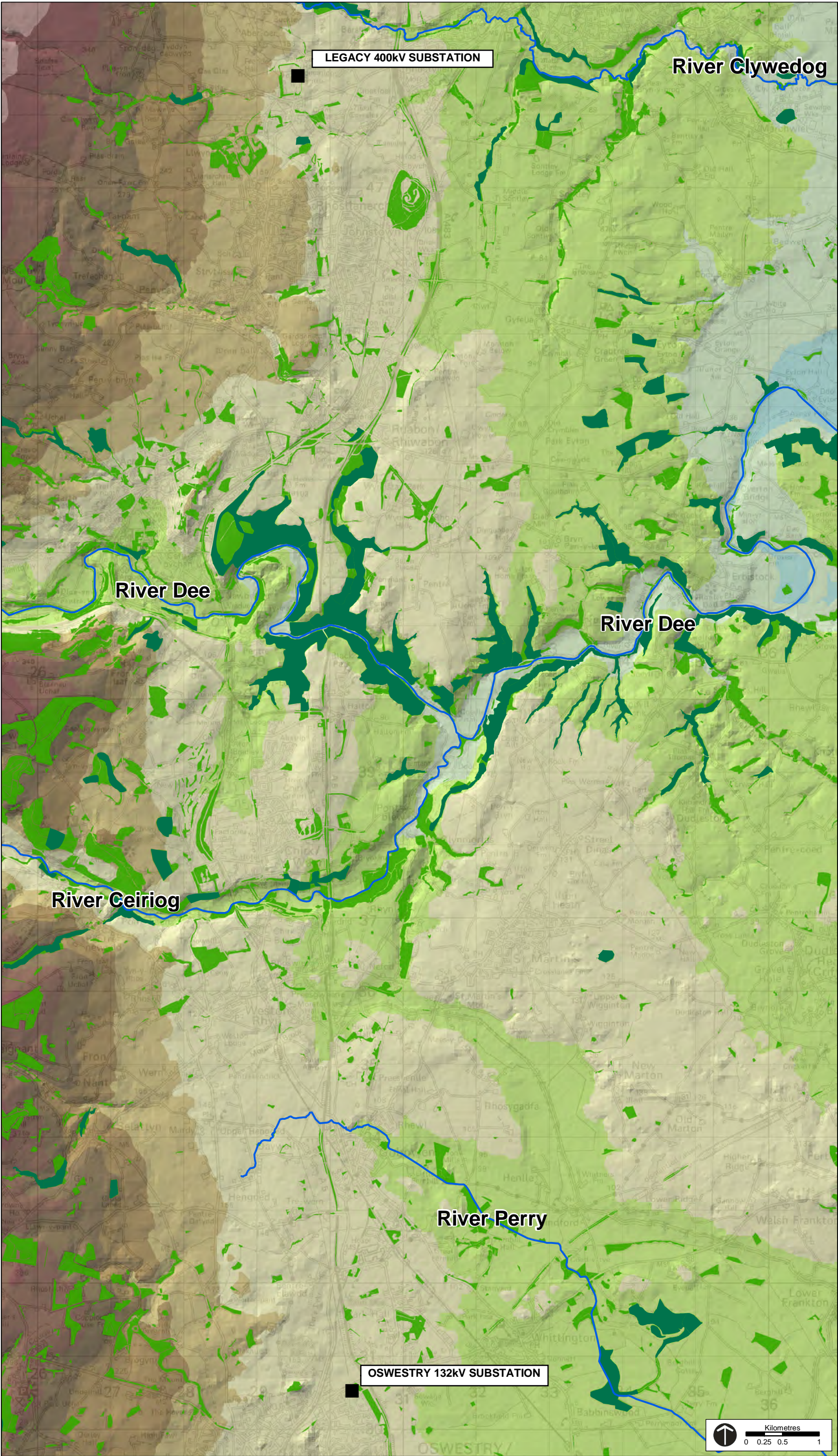
Date: 24-07-12

Drawing No: D700.031G

Drawn: DH

Checked: CQ

Approved: JG



Key

Existing Infrastructure

Existing substation

Environmental Constraints

Main Rivers

Ancient Woodlands

Other Woodland

Land Height
Elevation

0-24m

25-49m

50-99m

100-149m

150-199m

200-249m

250-299m

300-349m

350-399m

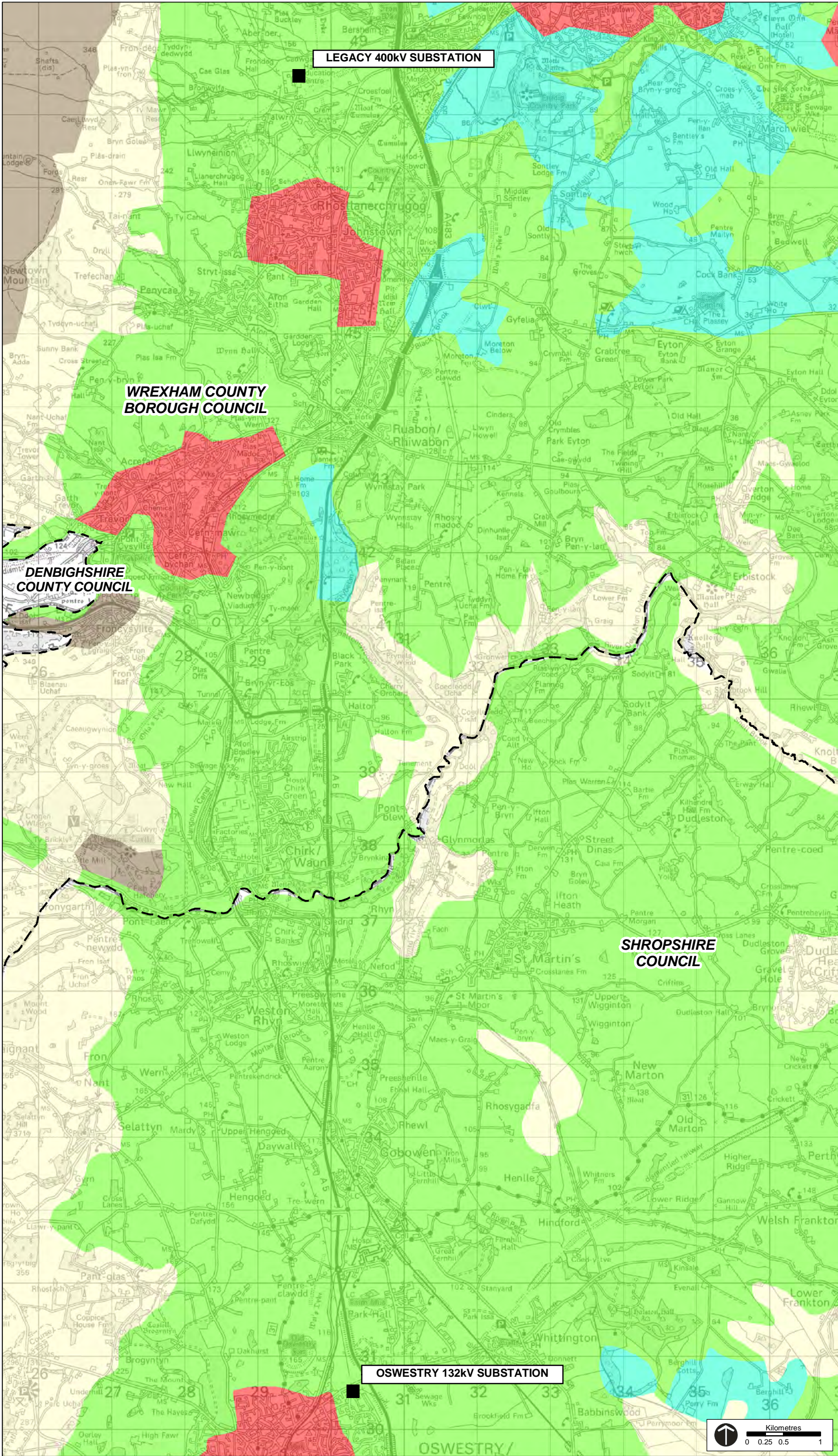
400-499m

500m+

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Project: Legacy to Oswestry 132kV Overhead Line		
Figure No: Figure 7.4		
Drawing Title: Topography and Woodland		
Date: 28-06-12	Drawing No: D700.036E	
Drawn: DH	Checked: CQ	Approved: JG



Key

--- District borough boundary

Existing Infrastructure

■ Existing substation

Provisional Agricultural Land Classification

Grade 1

Grade 2

Grade 3

Grade 4

Grade 5

Non-agricultural

Urban

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- Agricultural land classification data received from Welsh Government [2005]

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 7.5

Drawing Title: Agricultural Land Classification

Date: 17-07-12	Drawing No: D700.046E
Drawn: DH	Checked: CQ
Approved: JG	



1. View westwards from south of Gyfelia, showing the gently rolling landscape of the Maelor, dotted with mature trees. (Landscape character type 13A, Welsh Maelor) Slopes of Ruabon Mountain are visible in the distance.



2. View northwestwards at Pont-y-blew, within the river Ceiriog Valley (Landscape character type 4B: River Ceiriog Valley)



3. View north over the Dee valley, towards Coedleoedd. The open land on the north bank is one of few gaps in the well-wooded valley sides. (Landscape character type 12A: Dee/Ceiriog wooded valley)



4. Industrial plant west of Chirk village, with rising land of the Berwyn foothills beyond (Landscape character type 7A: Chirk, with views towards type 5A: Chirk estate above Froncysyllte.)




5. The wooded Ceiriog valley, south of Chirk Castle, looking eastwards along the B4500 (Landscape character type 4B: Ceiriog Valley Corridor)

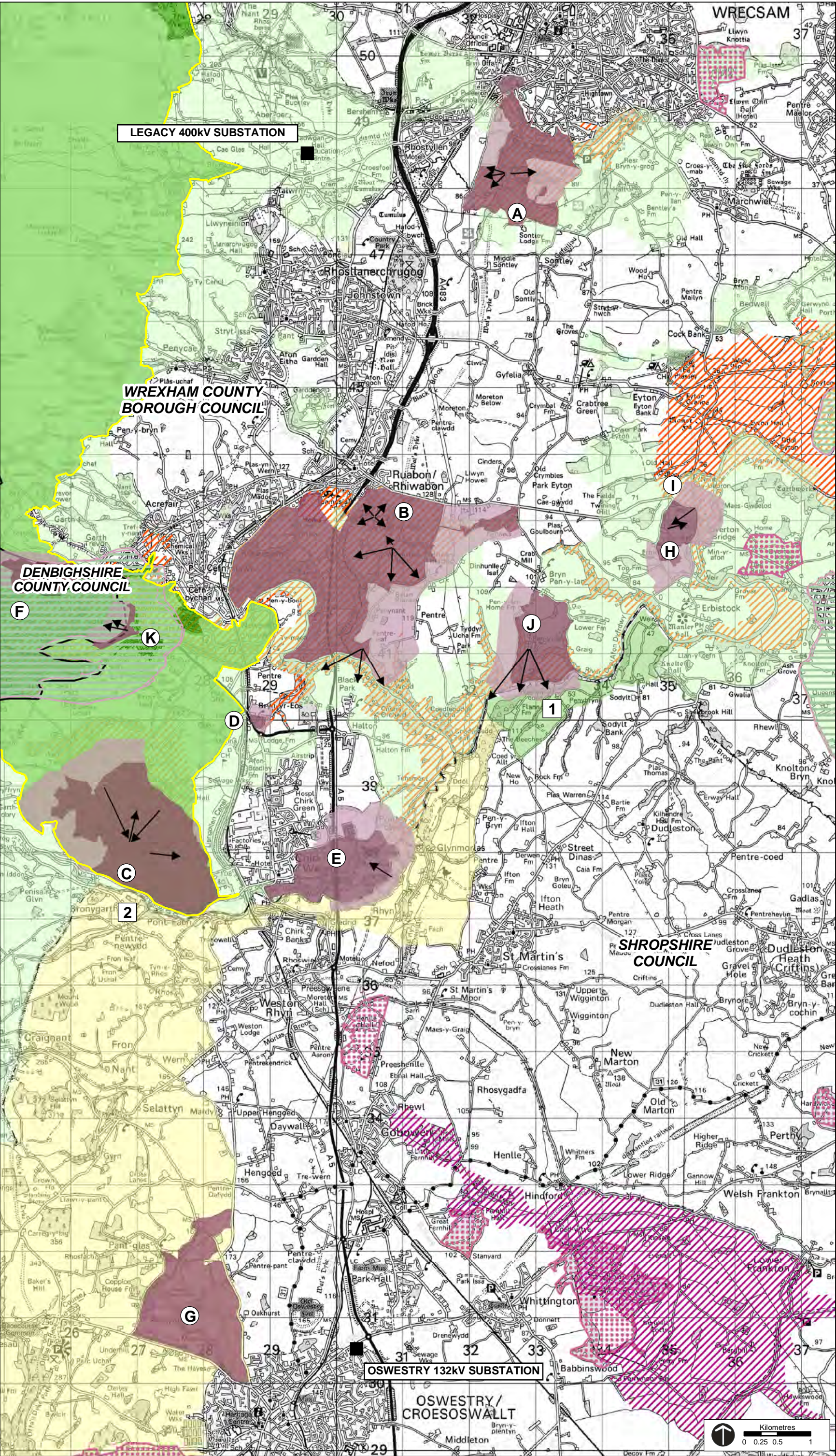


6. The Shropshire Union Canal and flat, low-lying land east of New Marton. The area is sparsely settled; trees are primarily found in gappy hedgerows (Landscape character type: Lowland Moors)



7. Parkland character of Brogyntyn, west of Oswestry, with a view eastwards towards Old Oswestry Hill Fort (Landscape character type: Principal Settled Farmlands)

		
Project: Legacy to Oswestry 132kV Overhead Line		
Figure No: Figure 7.7		
Drawing Title: Landscape Character Photographs		
Date: 23-07-12	Drawing No: C700.033	
Drawn: DH	Checked: CQ	Approved: IJG



Key

Existing Infrastructure

Existing substation

National Landscape Designations

Area of Outstanding Natural Beauty

Local Landscape Designations

Area of Outstanding Beauty (DCC)

Area of Special Environmental Interest (NSDC)

Area of Special Landscape Character (OBC)

Special Landscape Area (WCBC)

Historic Parks, Gardens and Landscapes

Historic Park and Garden listed on English Heritage or CADW Register

Essential Setting to Historic Park or Garden

Significant Views (identified within Register)

Other Parkland Estates (identified from O.S. maps)

Landscape Identified in Register of Landscapes of Special Historic Interest in Wales

Areas Identified as of 'Outstanding' Visual Quality (Wrexham Landmap 2004)

Landscape of High Overall Sensitivity identified in Shropshire CC Landscape Character draft 2003

Local Landscape Designations

1. Dee Valley

2. Ceiriog Valley

Historic Parks and Gardens

A Erddig

B Wynnstay

C Chirk Castle

D Whitehurst

E Brynkinalt

F Trevor Hall

G Brogyntyn Hall

H Erbistock Hall

I Rosehill

J Pen-y-Lan

K Argoed Hall

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- Shropshire Council Landscape Character Assessment [2006]

- Wrexham LANDMAP Supplementary Planning Guidance [2007]

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Project:

Legacy to Oswestry 132kV Overhead Line

Figure No:

Figure 7.8

Drawing Title:

Landscape Designations

Date:

16-07-12

Drawing No:

D700.039G

Drawn:

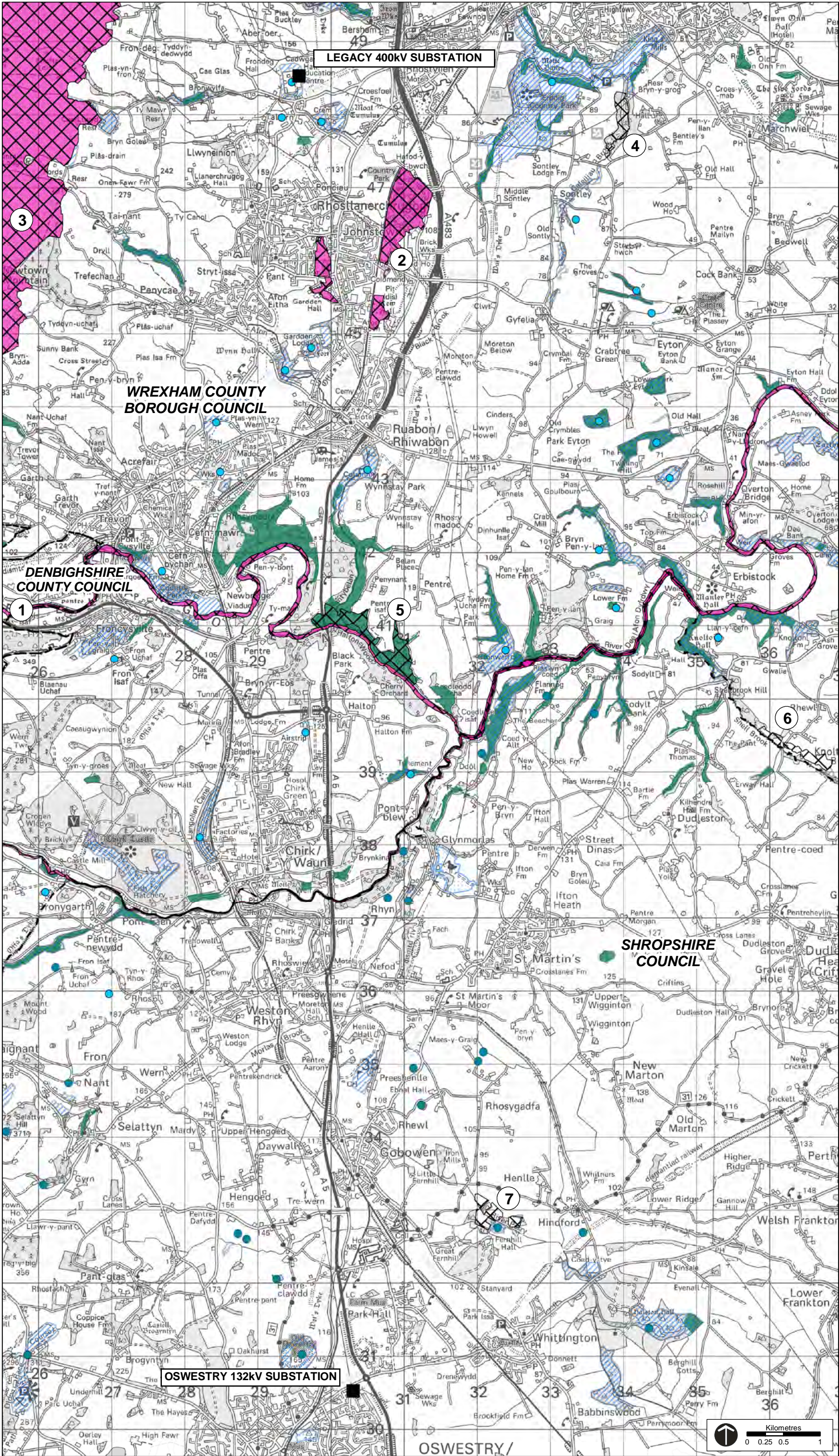
DH

Checked:

CQ

Approved:

IUG



Key

District borough boundary

Existing Infrastructure

Existing substation

Environmental Constraints

Special Area of Conservation (SAC)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR's)

Wildlife Sites of County Importance

Wildlife Sites of County Importance (located by Point Reference Only)

Sites of Local Nature Conservation Value (England Only)

Ancient Semi Natural Woodland

- Special Area of Conservation (SAC)
1.

River Dee and Bala Lake (also Afon Dyfrdwy and River Dee SSSI's)
2.

Johnstown Newt Sites (also Stryt Lar A'r Hafod SSSI)
3.

Berwyn and South Clwyd (also Ruabon and Llantysilio mountain and Minera SSSI)
- Sites of Special Scientific Interest (SSSI's)
4.

Sontly Marsh (Wrexham)
5.

Nant-y-Belan and Prynella Woods (Wrexham)
6.

Shell Brook Pastures (Wrexham)
7.

Fernhill Pastures (Shropshire)

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- Wrexham County Borough Council

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 7.9

Drawing Title: Nature Conservation

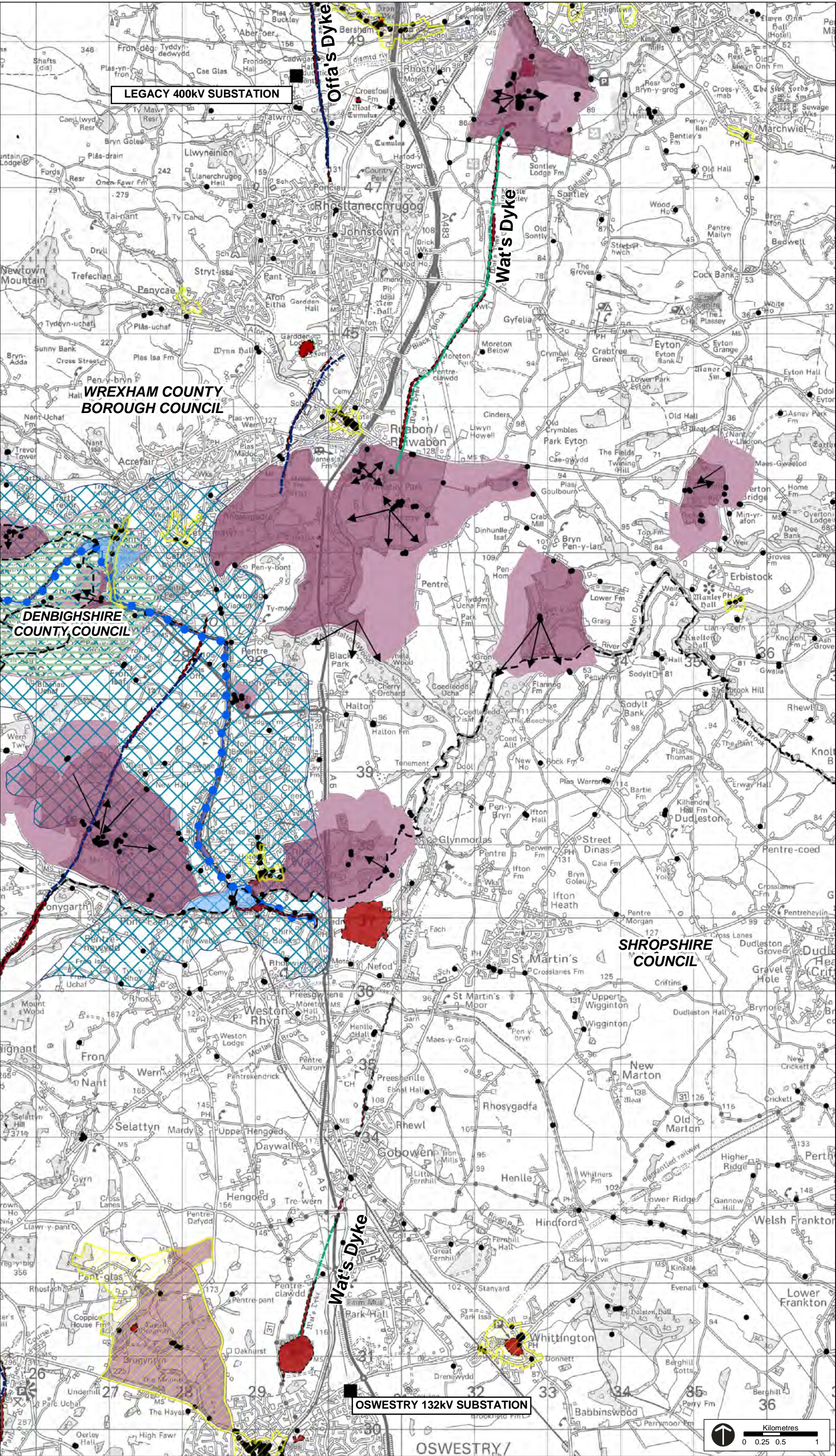
Date: 17-07-12

Drawing No: D700.034G

Drawn: DH

Checked: CQ

Approved: JG



Key

District borough boundary

Existing infrastructure

Existing substation

Environmental Constraints

World Heritage Site

World Heritage Site

World Heritage Site Essential Setting

Scheduled Monuments (Area Defined)

Scheduled Monuments (Point Defined)

Listed Buildings

Conservation Areas

Landscapes of Special Historic Interest in Wales

Wat's Dyke (Visible Linear Earthwork)

Offa's Dyke (Visible Linear Earthwork)

Historic Parks, Gardens and Landscapes

Historic Park and Garden


Historic Park and Garden Essential Setting

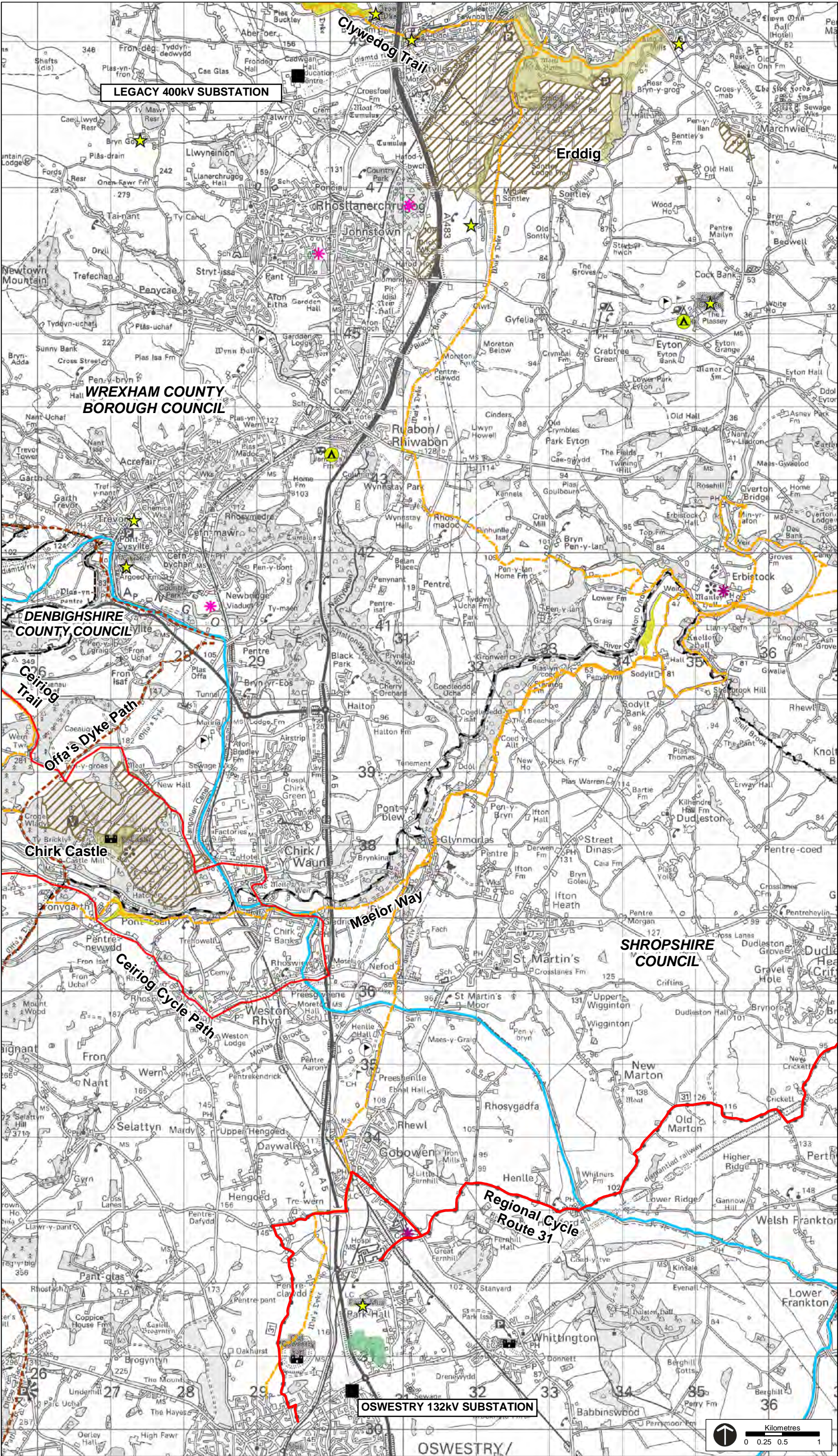
Historic Park and Garden Significant Views

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- Shropshire Council Localview Interactive Map [2012]
- Wrexham County Borough Council Conservation Area Assessments

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Project:	Legacy to Oswestry 132kV Overhead Line	
Figure No:	Figure 7.10	
Drawing Title:	Cultural Heritage	
Date:	03-07-12	Drawing No: D700.037F
Drawn:	DH	Checked: CQ Approved: JG



Key

District borough boundary

Existing Infrastructure

Existing substation

Recreation/Tourism Resources

National Trust Land: open to the public

National Trust Land: private

Other 'access' land

Shropshire Union Canal

Offa's Dyke Path (National Trail)

Recreational paths

Signed cycle route

Country parks

Castles/fort

Golf courses

Campsites/caravan sites

Garden open to the public

Oswestry Showground

Other visitor attractions

The following information was digitised from Ordnance Survey 1:10,000 and 1:25,000 mapping:

- National Trust Land
- Other 'Access' Land
- Shropshire Union Canal
- Offa's Dyke Path
- Recreational Paths
- Oswestry Showground
- Public Gardens
- Castles/Forts
- Golf Courses
- Campsites/Caravan Sites
- Gardens Open to the Public
- Oswestry Showground
- Other Visitor Attractions

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 7.11

Drawing Title: Recreation and Tourism

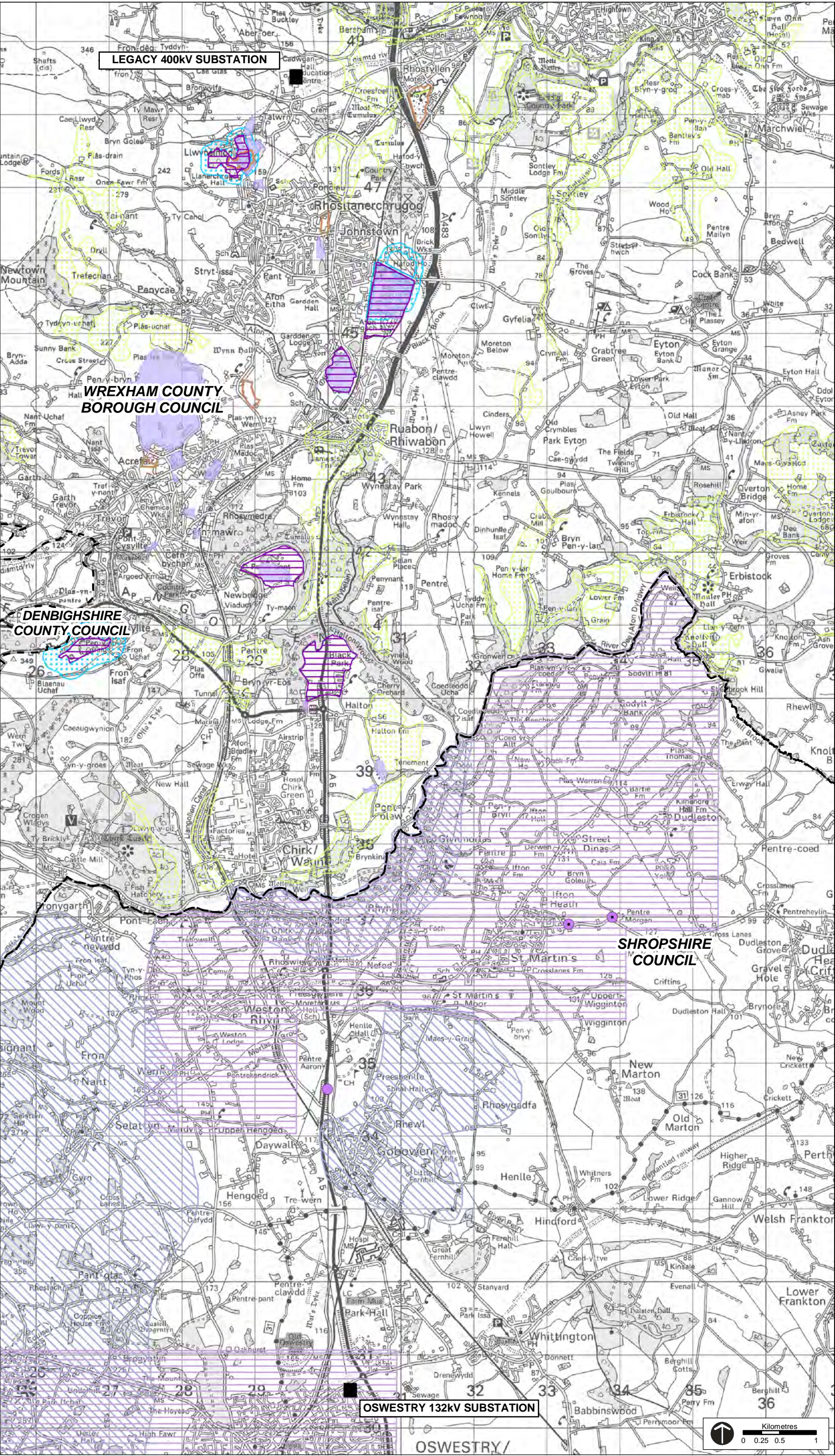
Date: 09-07-12

Drawing No: D700.038F

Drawn: DH

Checked: CQ

Approved: JG



Key

District borough boundary

Existing Infrastructure

Existing substation

Minerals and Waste Constraints - Wrexham

Mineral Sites

Mineral Buffer Zones (Policy MW11)

Protection of Mineral Resources (Policy MW9)

Landfill Sites

Land Reclamation Sites extracted from Wrexham UDP (public dep.ed.Mar 2000)

Minerals and Waste Constraints - Shropshire

Existing Waste Management Facilities (Landfill) (Shropshire Waste Plan)

Historical Landfill Sites

Coal Consultation Area (Extracted from Shropshire Minerals Local Plan)

Minerals Consultation Area (Extracted from Shropshire Minerals Local Plan)

This map contains information from the following sources:

- Ordnance Survey
- Scottish Power
- Wrexham Adopted Unitary Development Plan (2005)
- Shropshire Joint Minerals Local Plan (1996-2006)
- Shropshire Waste Plan (2002-2014)

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Project:

Legacy to Oswestry 132kV Overhead Line

Figure No:

Figure 7.12

Drawing Title:

Mineral and Waste Resources

Date:

09-07-12

Drawing No:

D700.042F

Drawn:

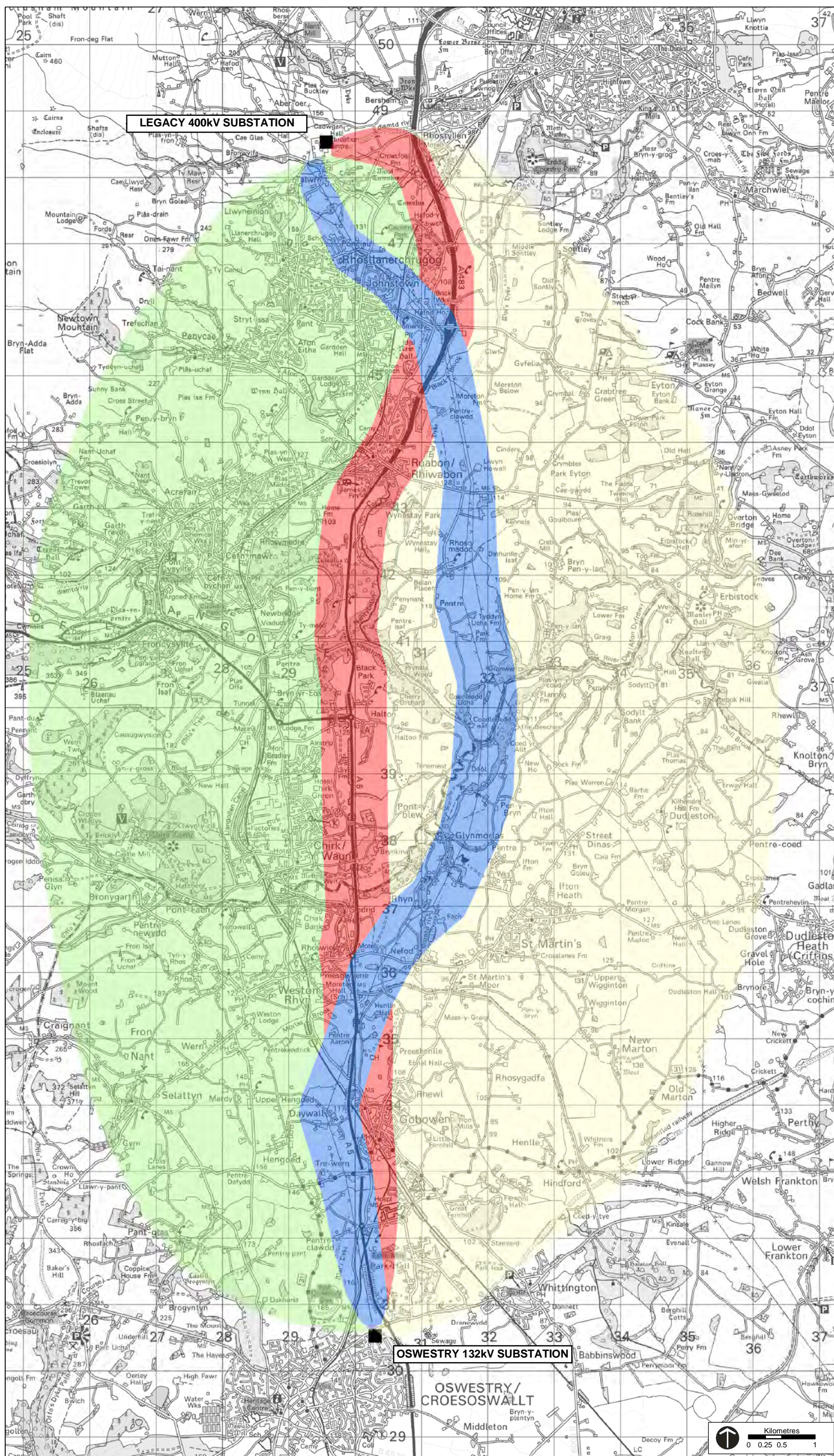
DH

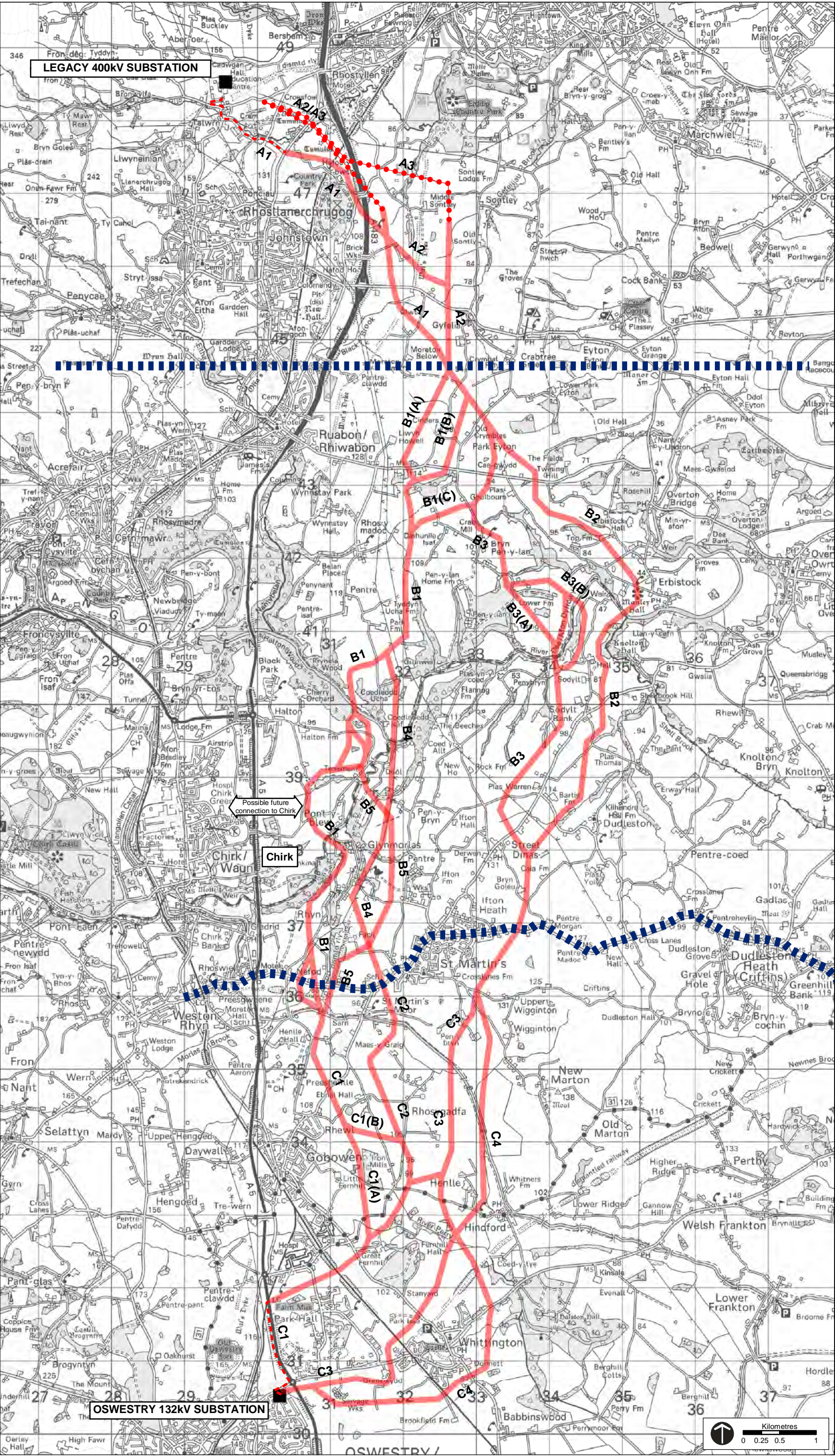
Checked:

CQ

Approved:

JUG





Key

Existing Infrastructure

Existing substation

Proposed Legacy Oswestry Route Options

132kV Underground Cable

132kV Lattice Overhead Line

132kV Wood Pole Line

Boundaries

Zone Boundaries

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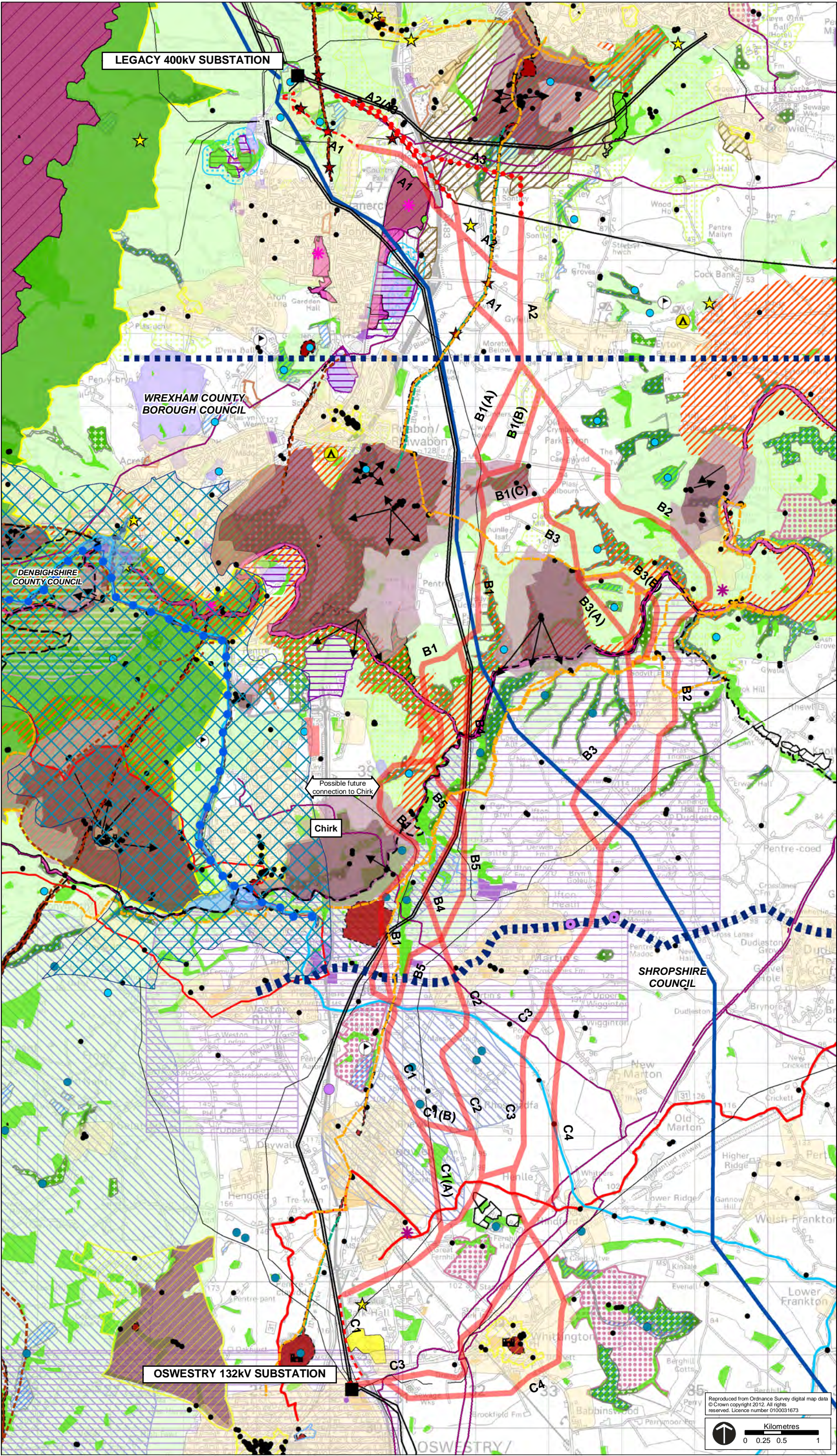
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Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 9.1

Drawing Title: Detailed Route Options

Date: 09-07-12	Drawing No: D700.050G
Drawn: DH	Checked: CQ
Approved: JG	



Key

Boundaries

- District borough boundary
- Zone Boundaries

Proposed Legacy to Oswestry Route Options

- 132kV Underground Cable
- 132kV Lattice Overhead Line
- 132kV Wood Pole Line

Existing Infrastructure

- Existing substation
- Existing 400kV overhead line
- Existing 132kV overhead line
- Existing 33kV overhead line

Environmental Constraints

- Main Areas of Settlement

Cultural Heritage

- World Heritage Site
- World Heritage Site
- World Heritage Site Essential Setting
- Scheduled Monuments (Area Defined)
- Scheduled Monuments (Point Defined)
- Listed Buildings (within 500m of the proposed route)
- Conservation Areas
- Landscapes of Special Historic Interest in Wales
- Wat's Dyke (Visible Linear Earthwork)
- Offa's Dyke (Visible Linear Earthwork)

Historic Parks, Gardens and Landscapes

- Historic Park and Garden
- Historic Park and Garden Essential Setting
- Historic Park and Garden Significant Views

Landscape Designations

- Area of Outstanding Natural Beauty
- Locally Designated Landscape (AOB, ASEI, ASLC, SLA)
- Areas of Outstanding visual quality (Wrexham only)

Nature Conservation

- Special Area of Conservation (SAC)
- Sites of Special Scientific Interest (SSSI)
- Local Nature Reserves (LNR's)
- Wildlife Sites of County Importance
- Wildlife Sites of County Importance (located by Point Reference Only)
- Sites of Local Nature Conservation Value (England Only)
- Ancient Semi Natural Woodland
- Ancient Semi Natural Woodland (other than semi-natural)
- Other Woodland

Recreation/Tourism Resources

- National Trust Land: open to the public
- National Trust Land: private
- Other 'access' land
- Shropshire Union Canal
- Offa's Dyke Path (National Trail)
- Recreational paths
- Signed cycle route
- Country parks
- Castles/fort
- Golf courses
- Campsites/caravan sites
- Garden open to the public
- Oswestry Showground
- Other visitor attractions

Minerals and Waste Constraints - Wrexham

- Mineral Sites
- Mineral Buffer Zones (Policy MW11)
- Protection of Mineral Resources (Policy MW9)
- Landfill Sites
- Land Reclamation Sites extracted from Wrexham UDP (public dep.ed.Mar 2000)

Minerals and Waste Constraints - Shropshire

- Existing Waste Management Facilities (Landfill) (Shropshire Waste Plan)
- Historical Landfill Sites
- Coal Consultation Area (Extracted from Shropshire Minerals Local Plan)
- Minerals Consultation Area (Extracted from Shropshire Minerals Local Plan)

Development Allocations and Consultation Zones

- Oswestry Proposed Road Route
- National Grid Gas Pipelines
- Housing Allocations
- Economic Development Sites
- Chirk Airfield

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- Shropshire Joint Minerals Local Plan [1996-2006]
- Shropshire Waste Plan [2002-2004]
- Shropshire Council LocalView Interactive Map [2012]
- Wrexham County Borough Council Conservation Area Assessments [2012]
- Shropshire Council (former)
- Powys County Council
- Wrexham County Borough Council

Project: Legacy to Oswestry 132kV Overhead Line

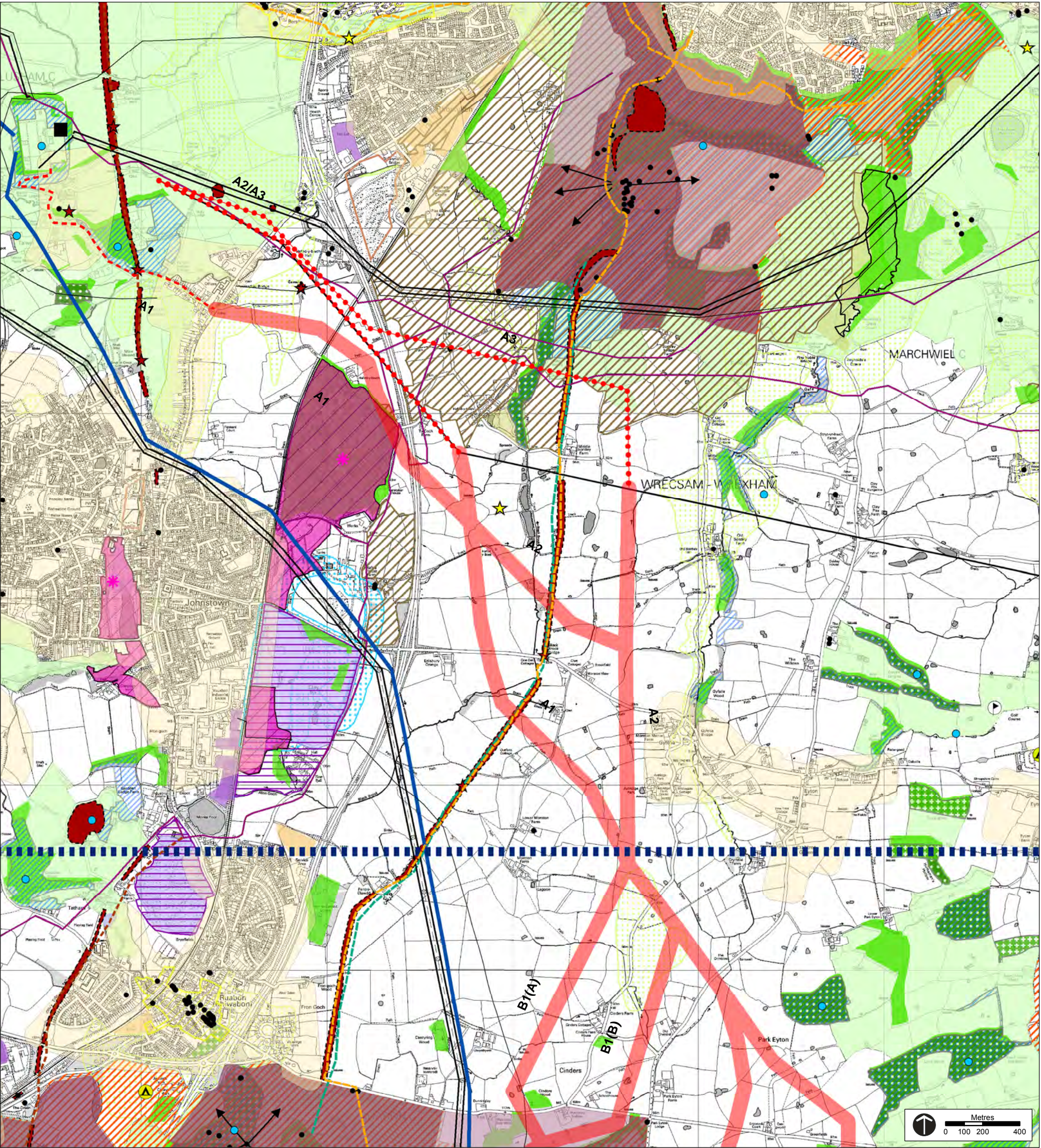
Figure No: Figure 9.2

Drawing Title: Route Options and Environmental Constraints

Date: 24-07-12	Drawing No: D700.044K
Drawn: DH	Checked: CQ
Approved: JG	

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Key

- Boundaries**

 - District borough boundary
 - Zone Boundaries

Proposed Legacy to Oswestry Route Options

 - 132kV Underground Cable
 - 132kV Lattice Overhead Line
 - 132kV Wood Pole Line

Existing Infrastructure

 - Existing substation
 - Existing 400kV overhead line
 - Existing 132kV overhead line
 - Existing 33kV overhead line
- Environmental Constraints**

 - Main Areas of Settlement

Cultural Heritage

 - World Heritage Site
 - World Heritage Site Essential Setting
 - Scheduled Monuments (Area Defined)
 - Scheduled Monuments (Point Defined)
 - Listed Buildings
 - Conservation Areas
 - Landscapes of Special Historic Interest in Wales
 - Wat's Dyke (Visible Linear Earthwork)
 - Offa's Dyke (Visible Linear Earthwork)

Historic Parks, Gardens and Landscapes

 - Historic Park and Garden
 - Historic Park and Garden Essential Setting
 - Historic Park and Garden Significant Views

- Landscape Designations**
- Area of Outstanding Natural Beauty
 - Locally Designated Landscape (AOB, ASEI, ASLC, SLA)
 - Areas of Outstanding visual quality (Wrexham only)
- Nature Conservation**
- Special Area of Conservation (SAC)
 - Sites of Special Scientific Interest (SSSI)
 - Local Nature Reserves (LNR's)
 - Wildlife Sites of County Importance
 - Wildlife Sites of County Importance (located by Point Reference Only)
 - Sites of Local Nature Conservation Value (England Only)
 - Ancient Semi Natural Woodland
 - Ancient Semi Natural Woodland (other than semi-natural)
 - Other Woodland

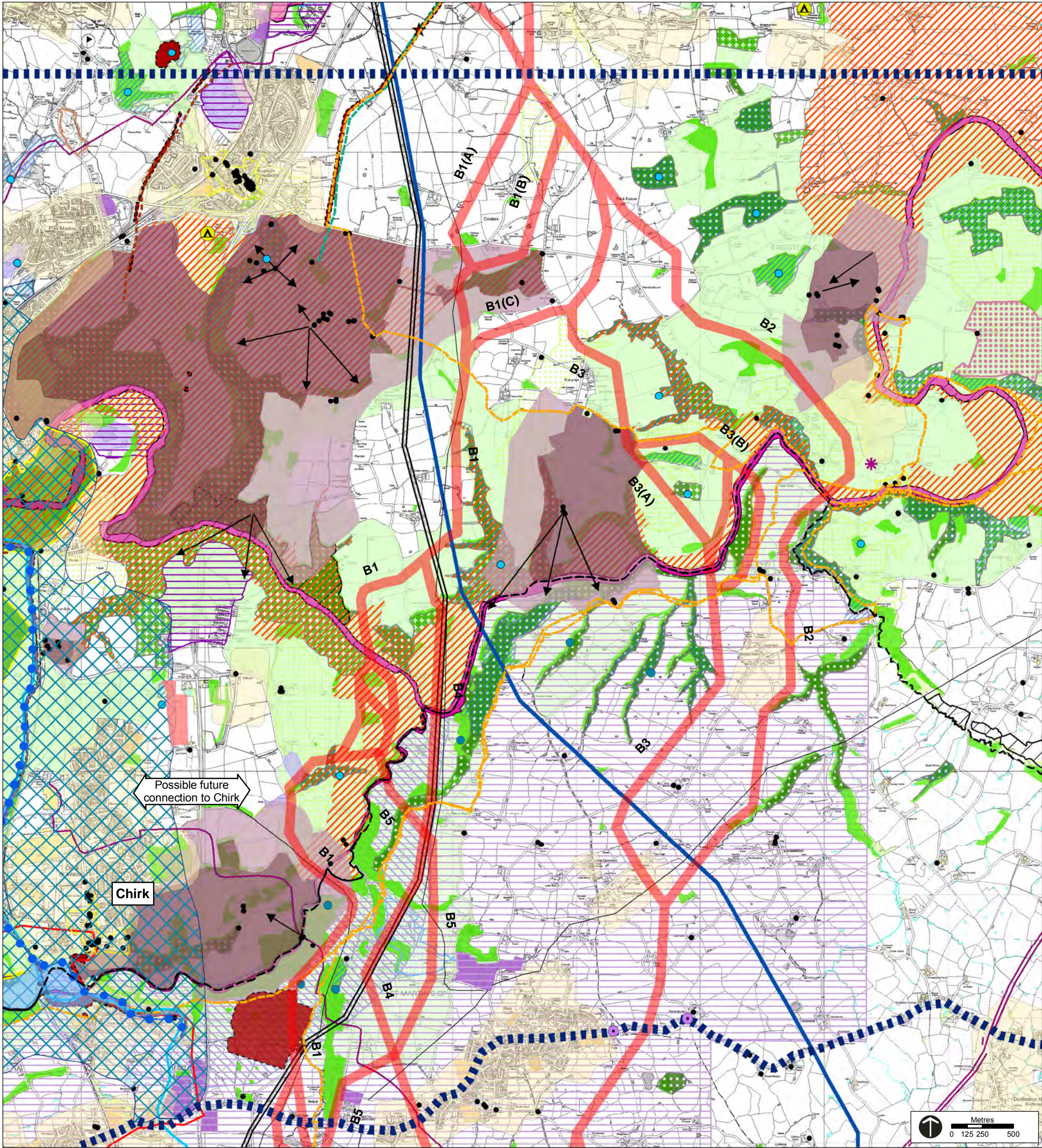
- Recreation/Tourism Resources**
- National Trust Land: open to the public
 - National Trust Land: private
 - Other 'access' land
 - Shropshire Union Canal
 - Offa's Dyke Path (National Trail)
 - Recreational paths
 - Signed cycle route
 - Country parks
 - Castles/fort
 - Golf courses
 - Campsites/caravan sites
 - Garden open to the public
 - Oswestry Showground
 - Other visitor attractions

- Minerals and Waste Constraints - Wrexham**
- Mineral Sites
 - Mineral Buffer Zones (Policy MW11)
 - Protection of Mineral Resources (Policy MW9)
 - Landfill Sites
 - Land Reclamation Sites extracted from Wrexham UDP (public dep.ed.Mar 2000)
- Minerals and Waste Constraints - Shropshire**
- Existing Waste Management Facilities (Landfill) (Shropshire Waste Plan)
 - Historical Landfill Sites
 - Coal Consultation Area (Extracted from Shropshire Minerals Local Plan)
 - Minerals Consultation Area (Extracted from Shropshire Minerals Local Plan)
- Development Allocations and Consultation Zones**
- Oswestry Proposed Road Route
 - National Grid Gas Pipelines
 - Housing Allocations
 - Economic Development Sites
 - Chirk Airfield

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- Shropshire Waste Plan [2002-2004]
- Shropshire Council LocalView Interactive Map [2012]
- Wrexham County Borough Council Conservation Area Assessments [2012]

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Project:	Legacy to Oswestry 132kV Overhead Line	
Figure No:	Figure 9.3	
Drawing Title:	Zone A (Legacy) Options	
Date:	Scale:	Drawing No:
25-07-12	1:20,000 @ A3	D700.047J
Drawn: DH	Checked: CQ	Approved: UG



Key

Boundaries

--- District borough boundary

--- Zone Boundaries

Proposed Legacy to Oswestry Route Options

--- 132kV Underground Cable

--- 132kV Lattice Overhead Line

--- 132kV Wood Pole Line

Existing Infrastructure

--- Existing substation

--- Existing 400kV overhead line

--- Existing 132kV overhead line

--- Existing 33kV overhead line

Environmental Constraints

--- Main Areas of Settlement

Cultural Heritage

--- World Heritage Site

--- World Heritage Site

--- World Heritage Site Essential Setting

--- Scheduled Monuments (Area Defined)

--- Scheduled Monuments (Point Defined)

--- Listed Buildings

--- Conservation Areas

--- Landscapes of Special Historic Interest in Wales

--- Wat's Dyke (Visible Linear Earthwork)

--- Offa's Dyke (Visible Linear Earthwork)

Historic Parks, Gardens and Landscapes

--- Historic Park and Garden

--- Historic Park and Garden Essential Setting

--- Historic Park and Garden Significant Views

Landscape Designations

--- Area of Outstanding Natural Beauty

--- Locally Designated Landscape (AOB, ASEI, ASLC, SLA)

--- Areas of Outstanding visual quality (Wrexham only)

Nature Conservation

--- Special Area of Conservation (SAC)

--- Sites of Special Scientific Interest (SSSI)

--- Local Nature Reserves (LNR's)

--- Wildlife Sites of County Importance

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Recreation/Tourism Resources

--- National Trust Land: open to the public

--- National Trust Land: private

--- Other 'access' land

--- Shropshire Union Canal

--- Offa's Dyke Path (National Trail)

--- Recreational paths

--- Signed cycle route

--- Country parks

--- Castles/fort

--- Golf courses

--- Campsites/caravan sites

--- Garden open to the public

--- Oswestry Showground

--- Other visitor attractions

Minerals and Waste Constraints - Wrexham

--- Mineral Sites

--- Mineral Buffer Zones (Policy MW11)

--- Protection of Mineral Resources (Policy MW9)

--- Landfill Sites

--- Land Reclamation Sites extracted from Wrexham UDP (public dep.ed.Mar 2000)

Minerals and Waste Constraints - Shropshire

--- Existing Waste Management Facilities (Landfill) (Shropshire Waste Plan)

--- Historical Landfill Sites

--- Coal Consultation Area (Extracted from Shropshire Minerals Local Plan)

--- Minerals Consultation Area (Extracted from Shropshire Minerals Local Plan)

Development Allocations and Consultation Zones

--- Oswestry Proposed Road Route

--- National Grid Gas Pipelines

--- Housing Allocations

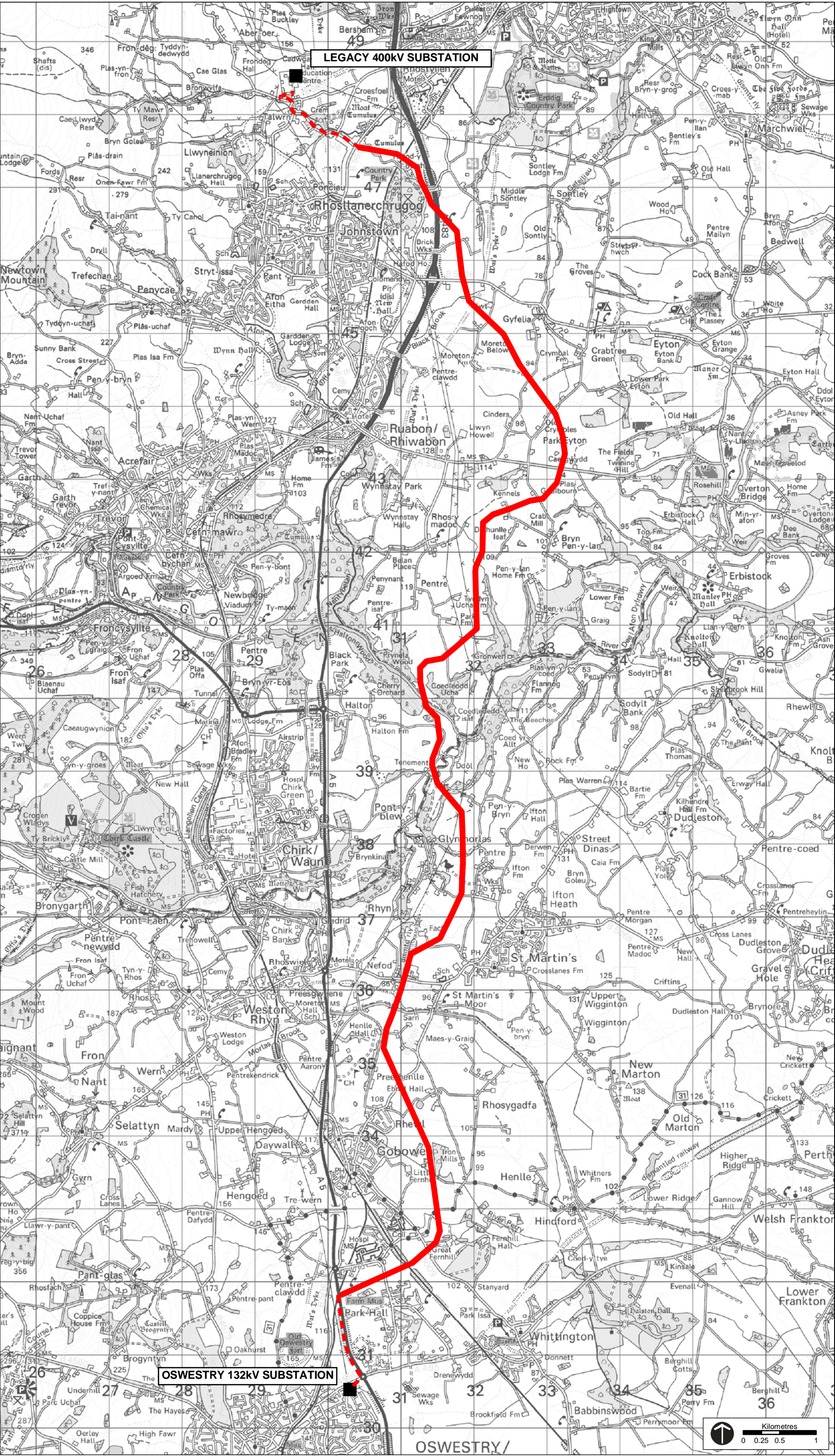
--- Economic Development Sites

--- Chirk Airfield

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Project:	Legacy to Oswestry 132kV Overhead Line	
Figure No:	Figure 9.4	
Drawing Title:	Zone B (Dee Options) and Connection to Chirk	
Date:	25-07-12	Scale: 1:30,000 @ A3
Drawn:	DH	Checked: CQ
Drawing No:	D700.048H	Approved: UG



Key

Existing Infrastructure

Existing substation

Preferred Route

132kV Wood Pole Line

132kV Underground Cable

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Project: Legacy to Oswestry 132kV Overhead Line

Figure No: Figure 9.6

Drawing Title: The Preferred Route at Consultation

Date: 09-07-12	Drawing No: D700.051F	
Drawn: DH	Checked: CQ	Approved: JG