Document

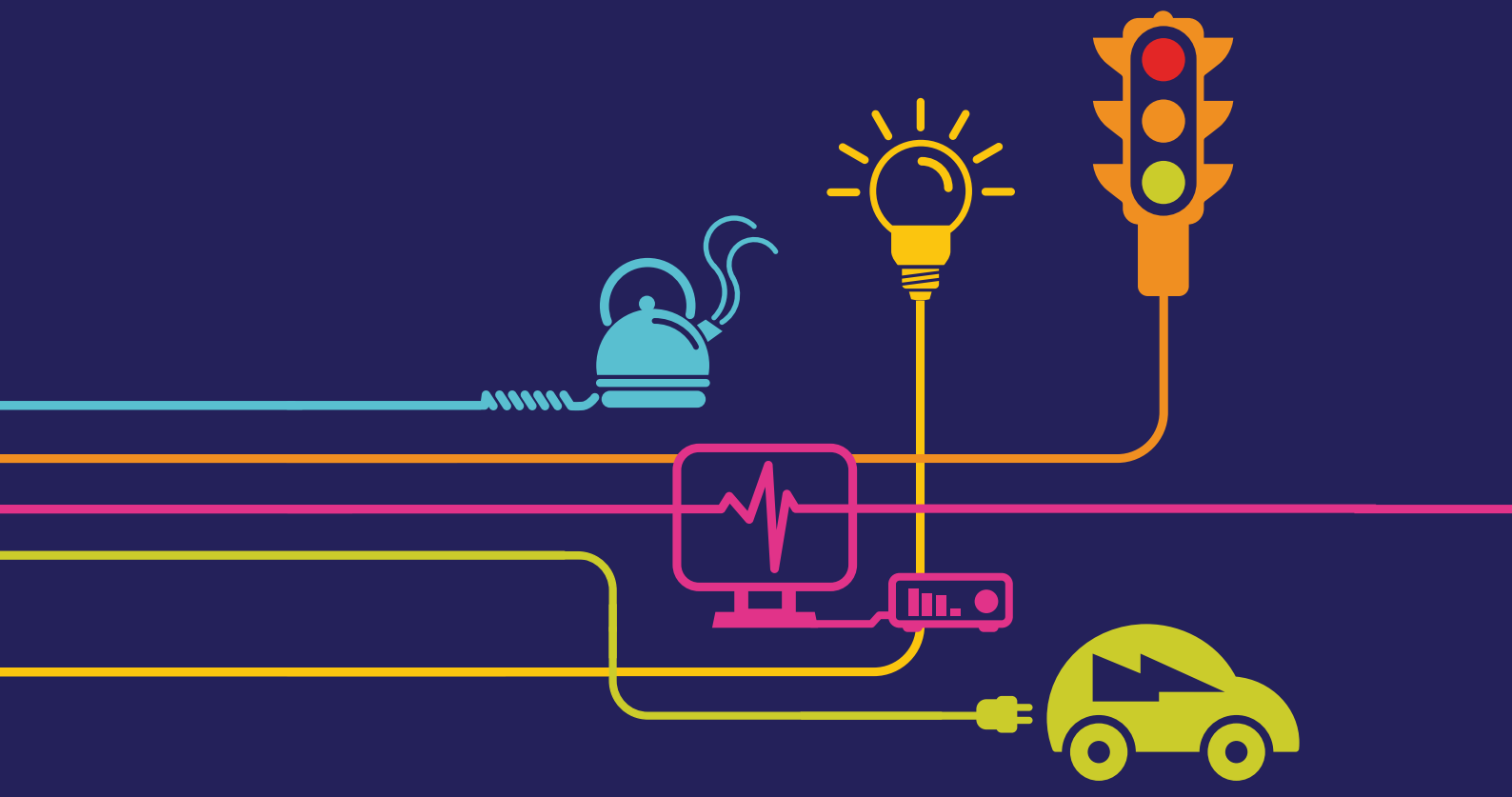
5.17.2

nationalgrid

Environmental Statement Cumulative Effects Appendices

Hinkley Point C Connection Project

Regulation 5(2)(a) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



Application Reference EN020001

May 2014

nationalgrid

Environmental Statement

Hinkley Point C Connection Project

5.17.2 – Cumulative Effects – Appendices

Appendix	Title
17A	Cumulative Assessment – Surf Telecoms Scope of Works
17B	Cumulative Assessment – Western Power Distribution Scope of Works
17C	Cumulative Assessment – Other Major Development Proposals Indicative Programmes
17D	Cumulative Assessment – Scoped Out Major Development Proposals

Document Control			
Document Properties			
Organisation	**National Grid**		
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Approved By	**Ian Grimshaw, TEP**		
Title	**Environmental Statement – Cumulative Effects - Appendices**		
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Date	**Version**	**Status**	**Description/Changes**
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Appendix 17A – Cumulative Assessment – Surf Telecoms Scope of Works

Hinkley Point C Connection Project

Appendix 17A: Surf Telecoms Scope of Works

Contents

1 APPENDIX 17A: SURF TELECOMS SCOPE OF WORKS

1.1 Introduction and Proposed Works

1.1.1 The proposal is to install a new Fibre Optic cable route between Bridgwater and Avonmouth Substations (BSPs) to replace the Fibre Optic cable which is currently installed upon 132 kV “F” Route which is proposed to be dismantled. The revised route has been chosen to provide an infrastructure most comparable to the existing network construction.

1.1.2 This scheme will be covered in two Phases with sub sections, to cover the different areas of build construction. **Figure 17A.1** provides an overview of the Proposed Fibre Optic route in context with The Proposed Development.

Phase 1 – Bridgwater BSP to F69 near Sandford - Figure 17A.2

1.1.3 This route is proposed to be installed using various methods to establish the complete route between the two locations.

1.1.4 The various methods that will be incorporated will range from Underground routes in the Highways, footpaths and verges along with private agricultural land, together with overhead ADSS and OPGW Fibre Optic installations.

Phase 1A – Figure 17A.3

1.1.5 Bridgwater Substation (BSP) to Puriton Tower 21ZDC38 – Underground Section. Approximately 8,500 metres

1.1.6 This section is made up of approximately 60% using the main roads and highways together with 40% using the Drove which runs to the East of the M5 near Bridgwater.

Phase 1B – Figure 17A.4, Figure 17A.5 & Figure 17A.6

1.1.7 Puriton Pylon 21ZDC38 to Weston BSP - Fibre Optic installation consisting of OPGW Fibre Optic cable to minimise visual and loading effects to the existing light steel tower construction 33kV overhead line route. This route will include underground sections across M5 motorway, also between towers to bypass a double Network Rail crossing at Brean and approximately 4,500 metres through Weston-super-Mare due to proposed tower dismantlement.

Phase 1C – Figure 17A.7

1.1.8 Weston BSP on The AT Line to the Weston Tee at F69 – Underground then ADSS Fibre Optic cable installation between Weston BSP and the Fibre joint location at F69. It is also proposed to install a short section of underground ducting between AT24 and AT26 in preparation for the new AT route overhead line build.

Phase 2 – Figure 17A.8

1.1.9 AT25R to Portishead BSP and onto BW17 near Avonmouth BSP - This section is proposed to be installed using various methods to establish the complete route between the two locations.

1.1.10 The various methods that will be incorporated will range from Underground routes in the Highways, footpaths and verges along with private agricultural land, together with overhead ADSS and OPGW Fibre Optic installations.

1.1.11 It is also proposed to establish an underground interconnect from Pylon N15R with an existing customer connection near the junction of Mead Lane and Station Road in Banwell.

Phase 2A - Figure 17A.9

1.1.12 Underground and ADSS installation between AT25R and Sandford Grid Substation.

Phase 2B - Figure 17A.10

1.1.13 Underground and ADSS installation between Sandford Grid Substation and Churchill BSP.

Phase 2C - Figure 17A.11

1.1.14 From Churchill BSP to W36R. This section is proposed to be installed using ADSS on the existing 132kV steel lattice tower line, for approximately 9,000 metres.

Phase 2D - Figure 17A.12

1.1.15 From W36R to Portishead BSP. As part of standard practice, the fibre duct will be laid in the cable trench for the new W route cable.

1.1.16 **Phase 2E - Figure 17A.13**

1.1.17 BW Section between Portishead BSP and Tower BW17. This section is proposed to be installed using various methods to establish the complete route between the two locations.

1.1.18 The various methods that will be incorporated will range from Underground routes in the Highways, footpaths and verges along with private agricultural land, together with overhead ADSS installations.

1.2 Proposed Programme of Works

1.2.1 The proposed programme of works are subject to further discussions with Local Authorities, Highways Agency and other relevant stakeholders, however the works described above would be undertaken during the construction timescales of the Proposed Hinkley Point C Connection Project.

1.2.2 Note that the route lengths are estimations and could be subject to change following on-site surveys. The routes shown in the figures are draft alignments for the purpose of the assessment. These are subject to further detailed studies.

1.2.3 Based on current estimations the Phase 1 works would begin in 2015 and likely finish in 2017.

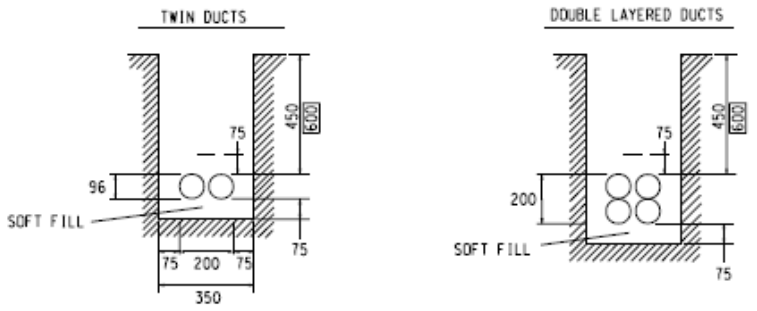
1.2.4 Phase 2 would likely being in 2016 and complete in 2019.

1.3 Trench Cross Sections

1.3.1 Cable trench cross sections are presented on the following two insets.

All dimensions in mm

FOOTWAYS & ROADWAYS



KEY:

100	Dimension in Footway or Verge
[100]	Dimension in Roadway
—	Marker tape

Notes:

1. Ducts in Arable land: Cover increases to 1200mm
2. Marker tape to be laid 75mm above Duct/s
3. Add Fiber Board on top of Marker Tape in Arable Land

Rev No	Drawn	Chk'd	App'd	Date	Revision
2	RJB			12/02	SOFT FILL ADDED

ORIGINAL ISSUE		DATE
Drawn	R.J.B.	01/98
Checked	S.P.W.	01/98
Approved		
SCALE	N.T.S.	

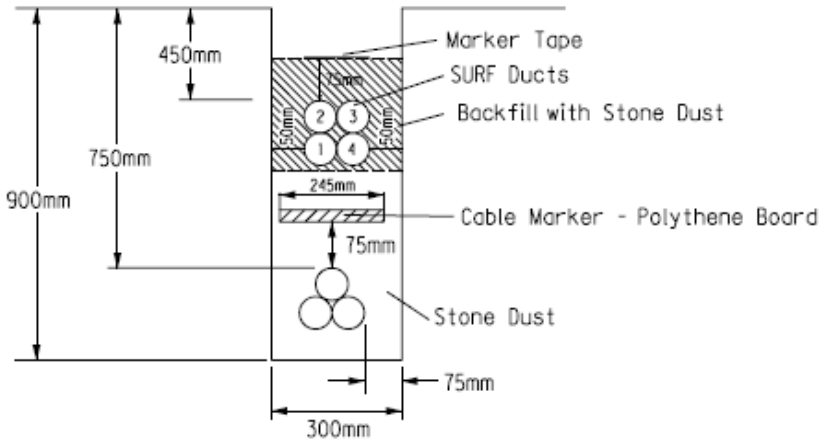
WESTERN POWER DISTRIBUTION
Design Department.
Avonbank,Feeder Road,Bristol BS2 0TB
Tel: 0117 933 2000 Fax: 0117 933 2001.

WESTERN POWER DISTRIBUTION

Title
ARRANGEMENT AND DIMENSIONS OF TRENCHES FOR DUCTS FOR SURF TELECOMS

Drg. No.	Rev No
G4052	2

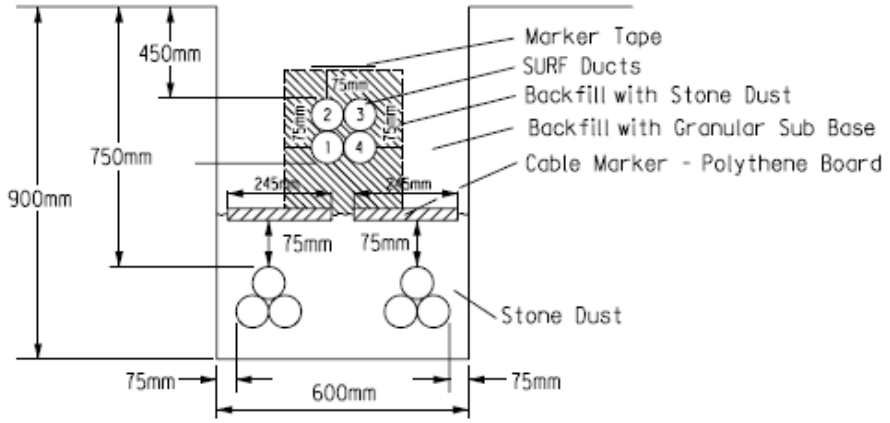
SINGLE CIRCUIT



75mm Cover to marker tape

75mm Fine stone dust bedding

DUAL CIRCUIT



75mm Cover to marker tape

75mm Fine stone dust bedding

Rev No	Drawn	Chk'd	App'd	Date	Revision
7	RJB			10/02	TRENCH DEPTH ALTERED

ORIGINAL ISSUE		DATE
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Approved		
SCALE	N.T.S.	

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Avonbank,Feeder Road,Bristol BS2 0TB
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WESTERN POWER DISTRIBUTION

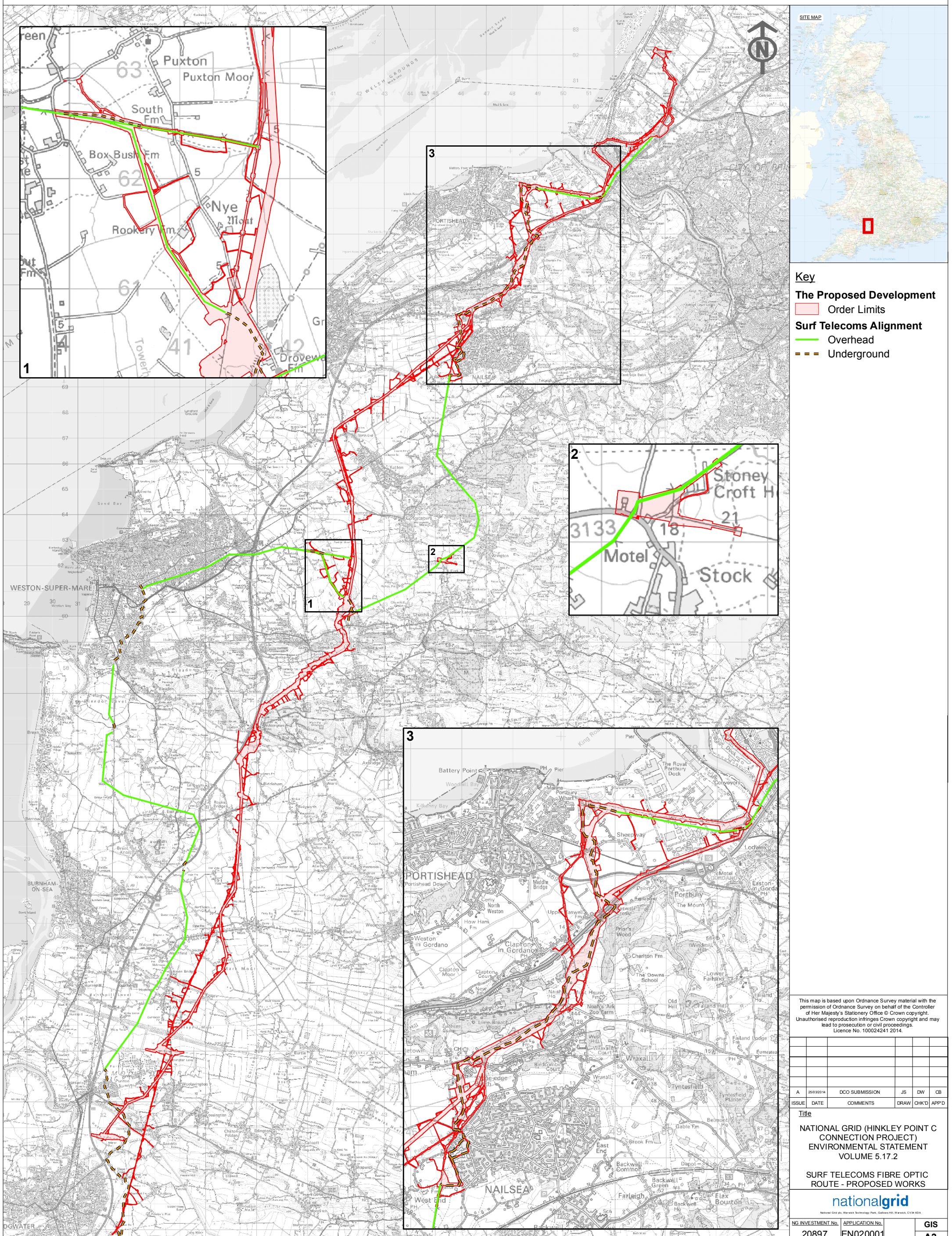
Title: LAYING OF SURF TELECOM DUCT WITHIN 33KV TRENCH

Drg. No.	Rev No
G4064	7

1.4 Surf Telecoms Figures 17A.1 – 17A.13

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.17.2

SURF TELECOMS FIBRE OPTIC ROUTE -
PROPOSED WORKS



SITE MAP

Key

The Proposed Development

Order Limits

Surf Telecoms Alignment

Overhead

Underground

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
A	25/03/2014	DCO SUBMISSION	JS	DW	CB

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
VOLUME 5.17.2

SURF TELECOMS FIBRE OPTIC ROUTE - PROPOSED WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.		SCALE
17A.1	G1979.2325C		1:130,000
SHEET 1 OF 1			ISSUE A

WESTERN POWER DISTRIBUTION
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N

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Electricity assets owned by IDNO's (Independant Network Operators)
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Information is given as a guide only
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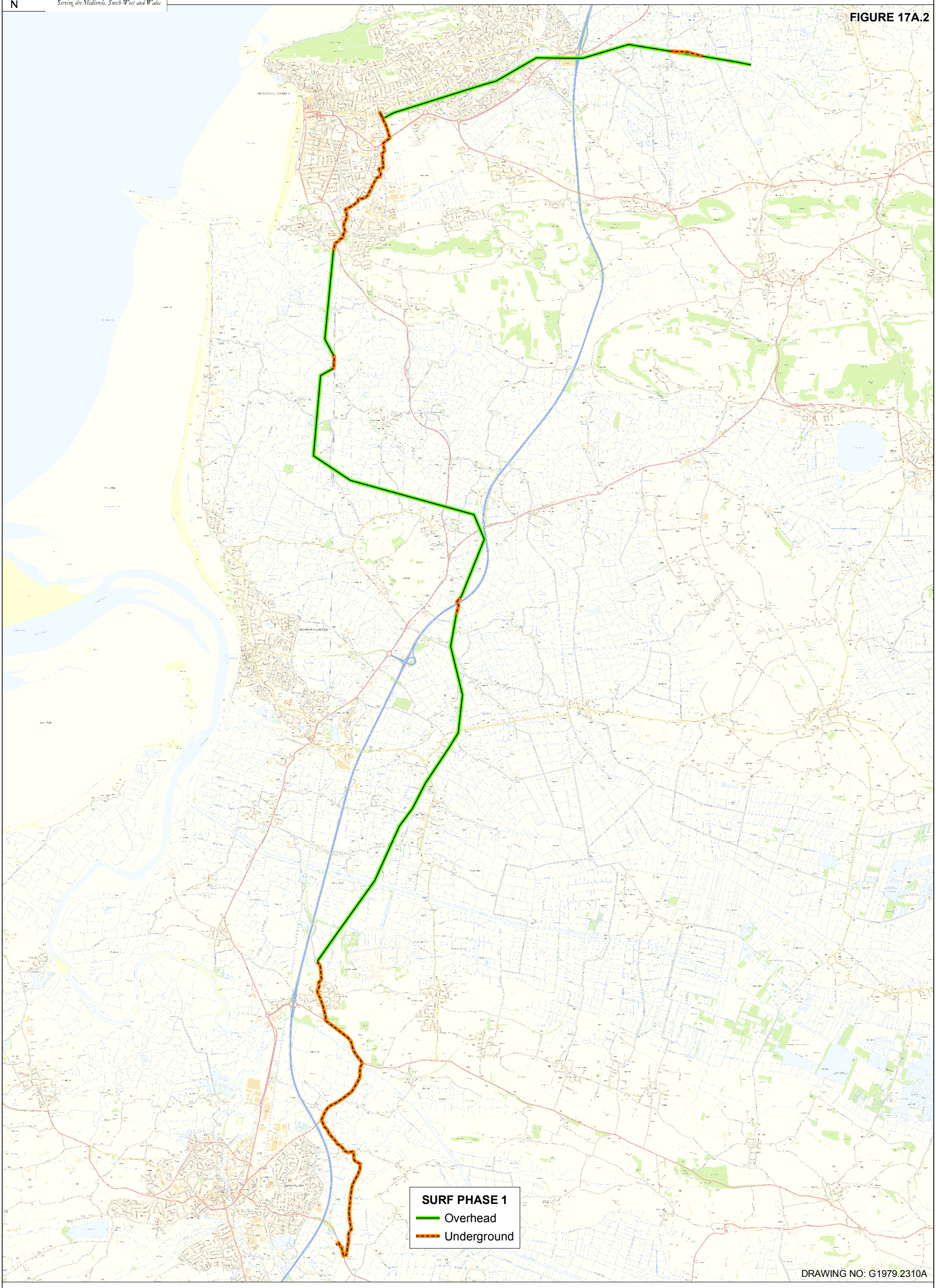
FIGURE 17A.2



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PLOT CENTRE: 335368.419, 150130.551 | FOR INTERNAL USE ONLY | DRAWN BY: | SCALE: 75000 @A3

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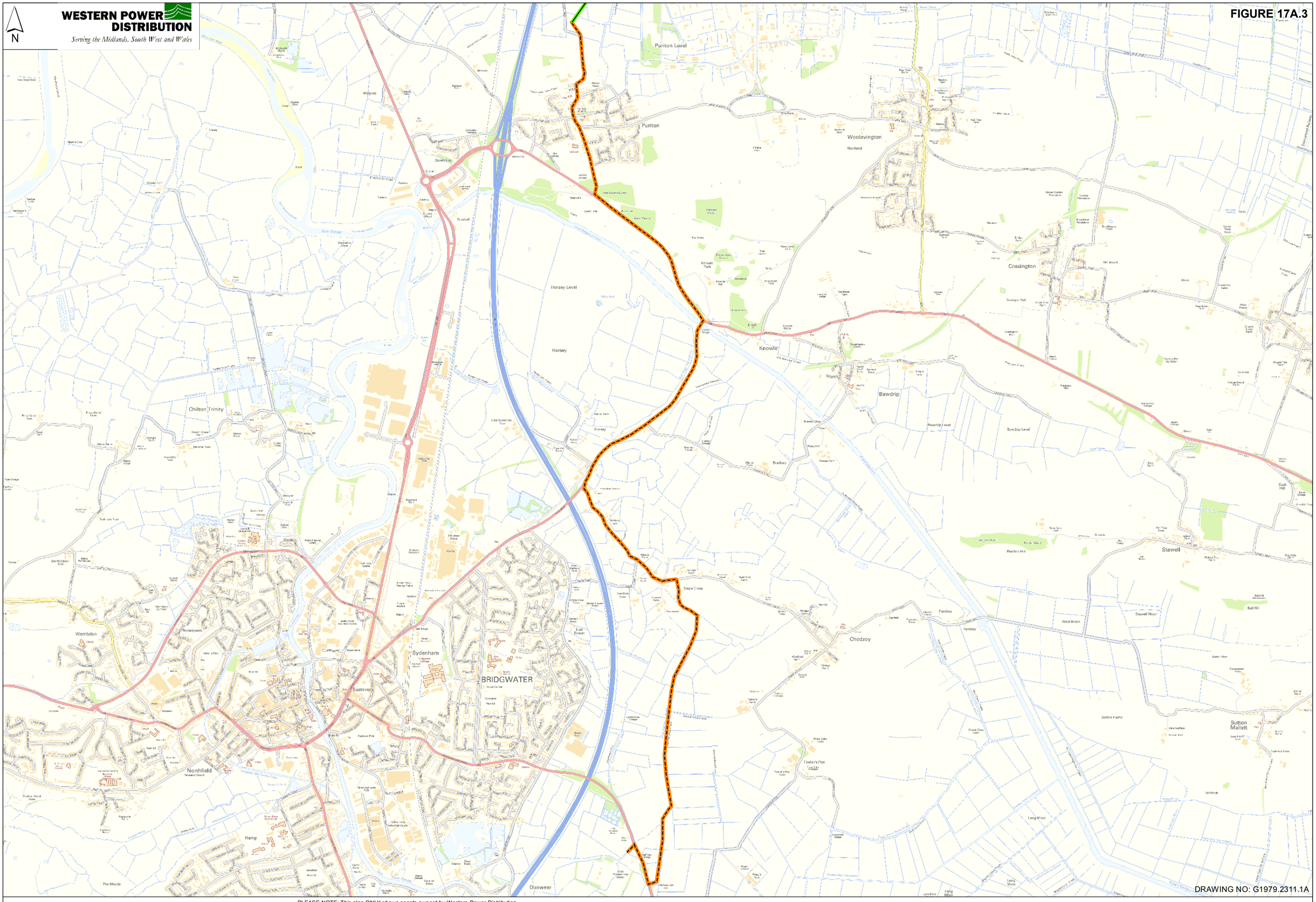
FIGURE 17A.3



DRAWING NO: G1979.2311.1A

PLOT CENTRE: 332,702.7345 139,022.7882

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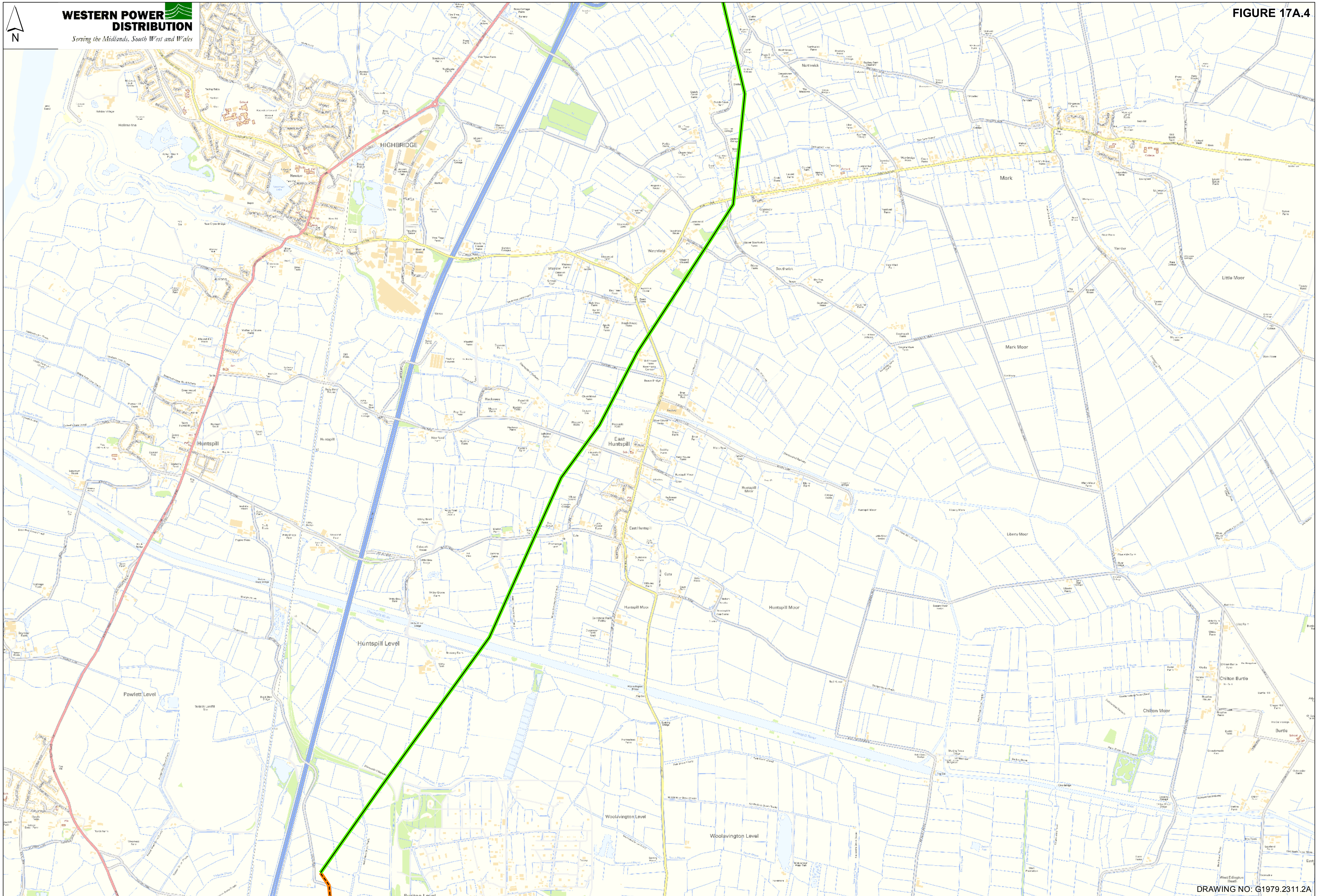
FIGURE 17A.4



DRAWING NO: G1979.2311.2A

PLOT CENTRE: 334,625.9426 145,513.2498

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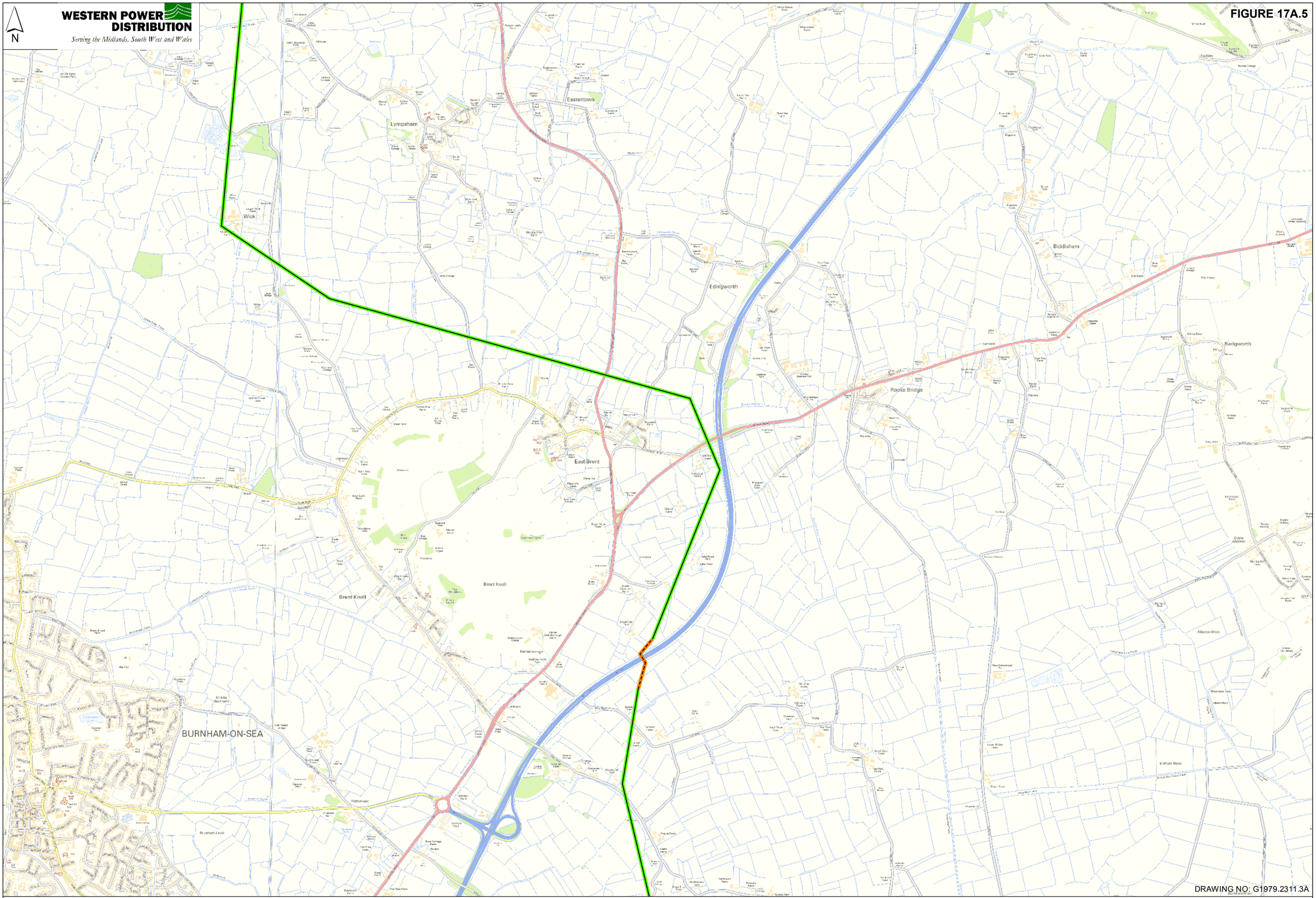
FIGURE 17A.5



DRAWING NO: G1979.2311.3A

PLOT CENTRE: 335,292.6940 151,860.2738

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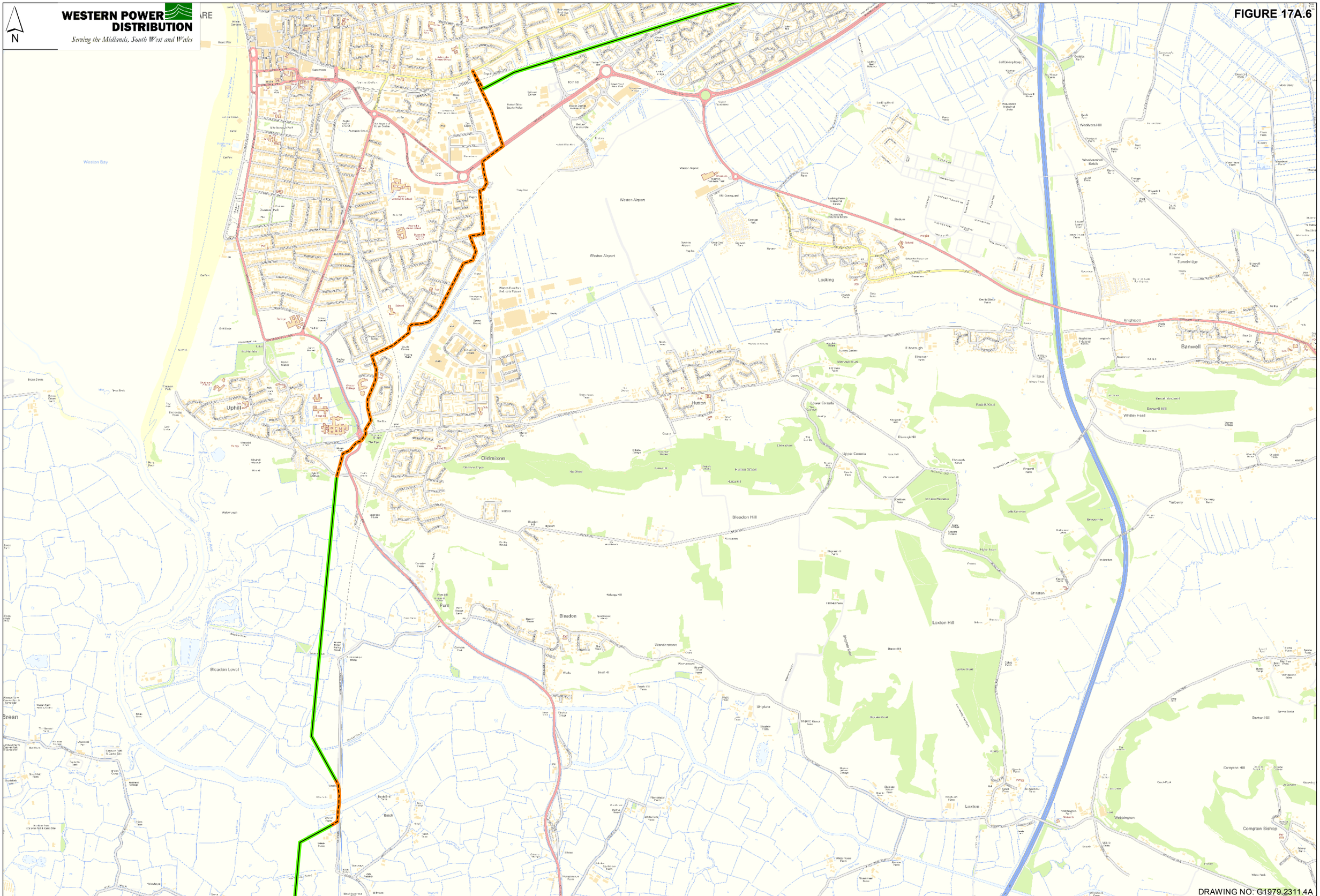
FIGURE 17A.6



DRAWING NO: G1979.2311.4A

PLOT CENTRE: 334,864.0681 158,334.2981

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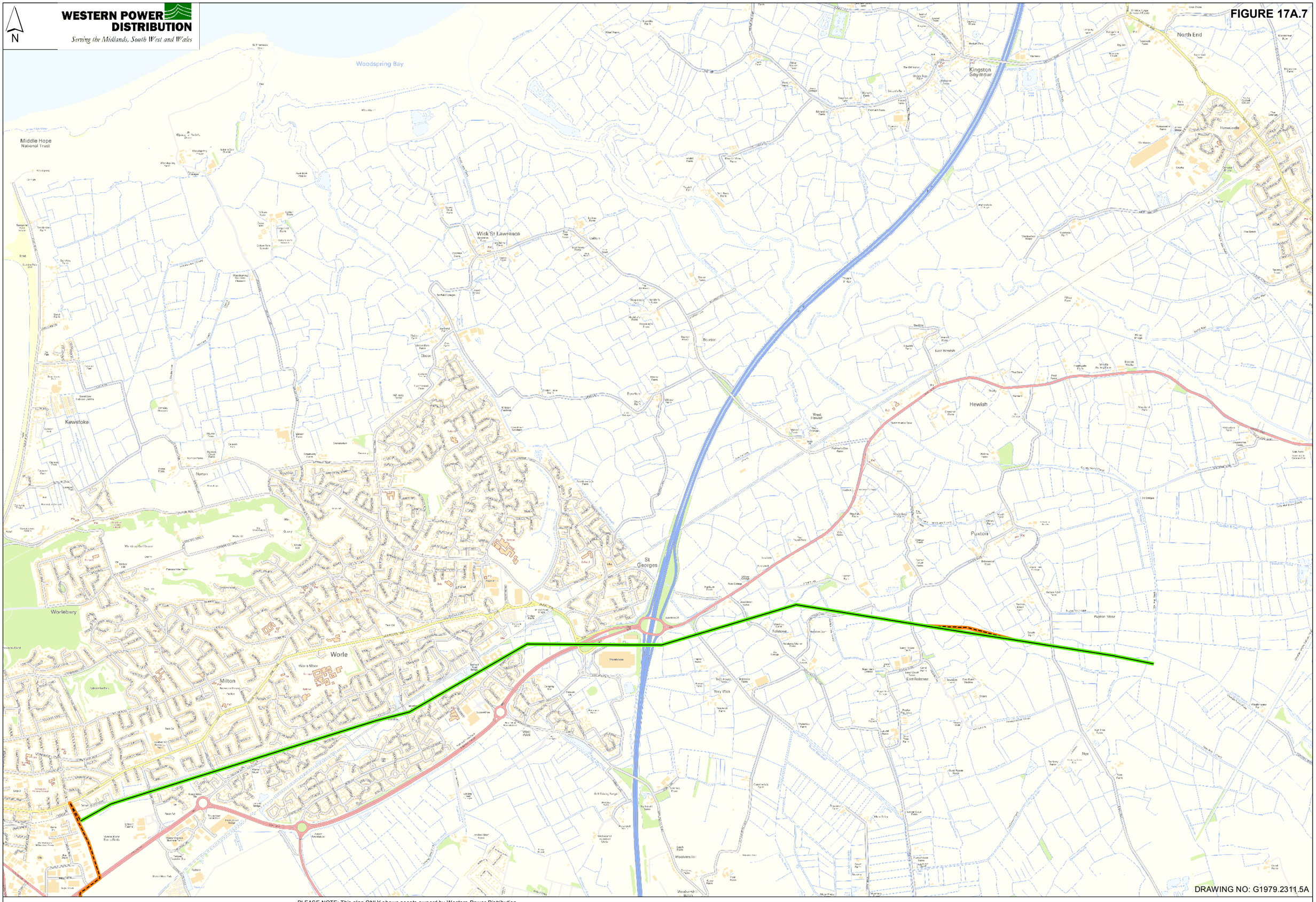
FIGURE 17A.7



DRAWING NO: G1979.2311.5A

PLOT CENTRE: 337,927.9492 163,922.3093

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FIGURE 17A.8

PORTISHEAD BSP
BW36R
BW35
ADSS
BW29
BW28R
BW29R
BW28
BW24
BW25
ADSS
BW17
BW19
BW20
BW21
W36
ADSS
W42
W43
ADSS
ADSS
AT24
AT25R
AT26R
ADSS
F69
OPGW
AT33
SANDFORD GRID
N15R
CHURCHILL BSP
N1B
W69
N1A

DRAWING NO: G1979.2307A

PLOT CENTRE: 346562.596216, 169228.661846 | FOR INTERNAL USE ONLY | DRAWN BY: | SCALE: 55000 @A3

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FIGURE 17A.9

AT24
AT25R
AT26R
ADSS
F69
OPGW
AT33
SANDFORD GRID
N15R
ADSS

PLOT CENTRE: 341346.6017, 161312.90275

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FIGURE 17A.10

WESTERN POWER DISTRIBUTION
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N

F69

W69

N1B

CHURCHILL BSP

N1A

ADSS

AT33

SANDFORD GRID

N15R

DRAWING NO: G1979.2308.2A

PLOT CENTRE: 343570.916327, 161013.720528	PLEASE NOTE: This plan ONLY shows assets owned by Western Power Distribution. Electricity assets owned by IDNO's (Independant Network Operators) MAY be present in this area. Information is given as a guide only and it's accuracy cannot be guaranteed.	DRAWN BY:	SCALE: 12500 @A3

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FIGURE 17A.11

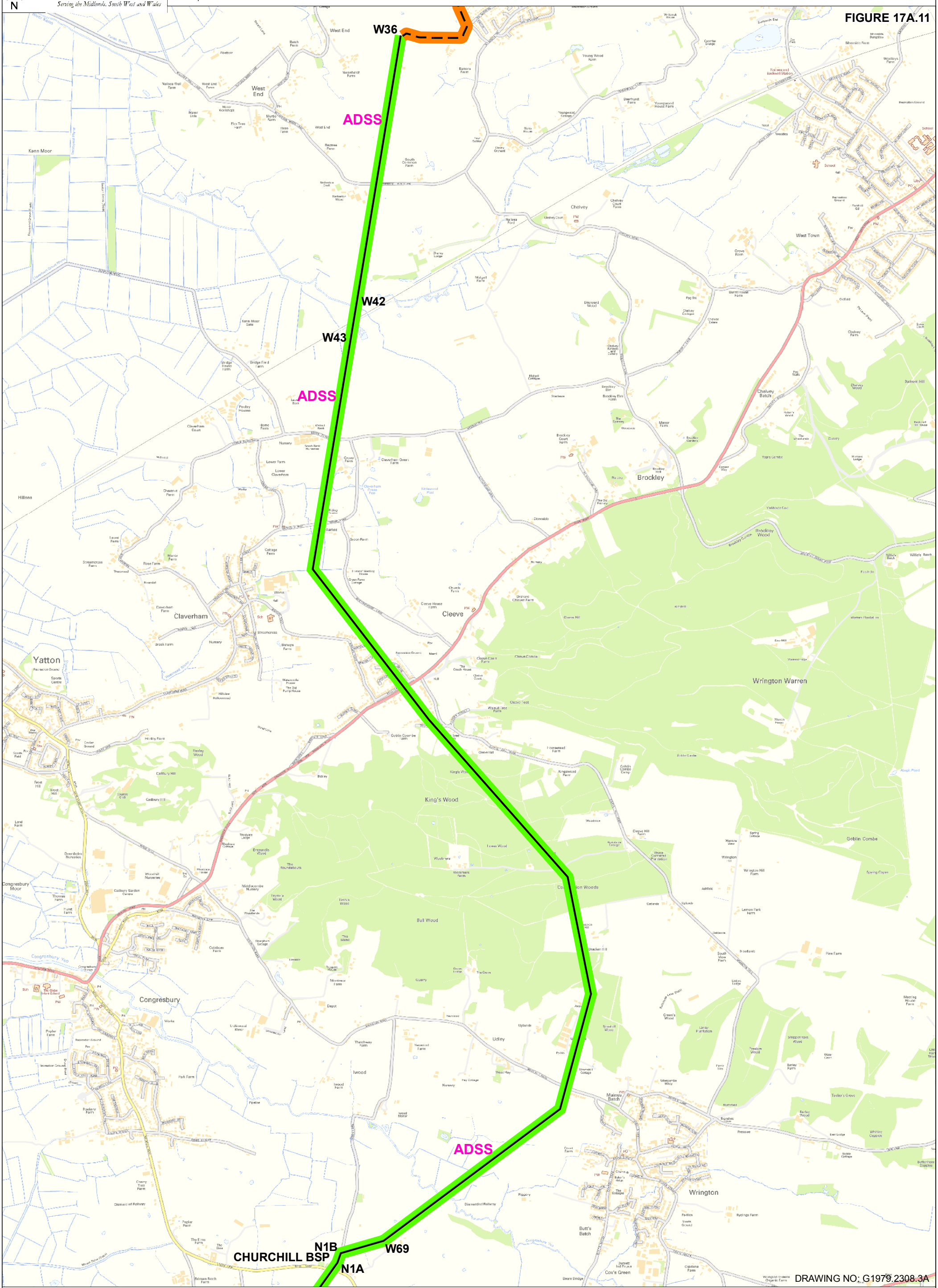

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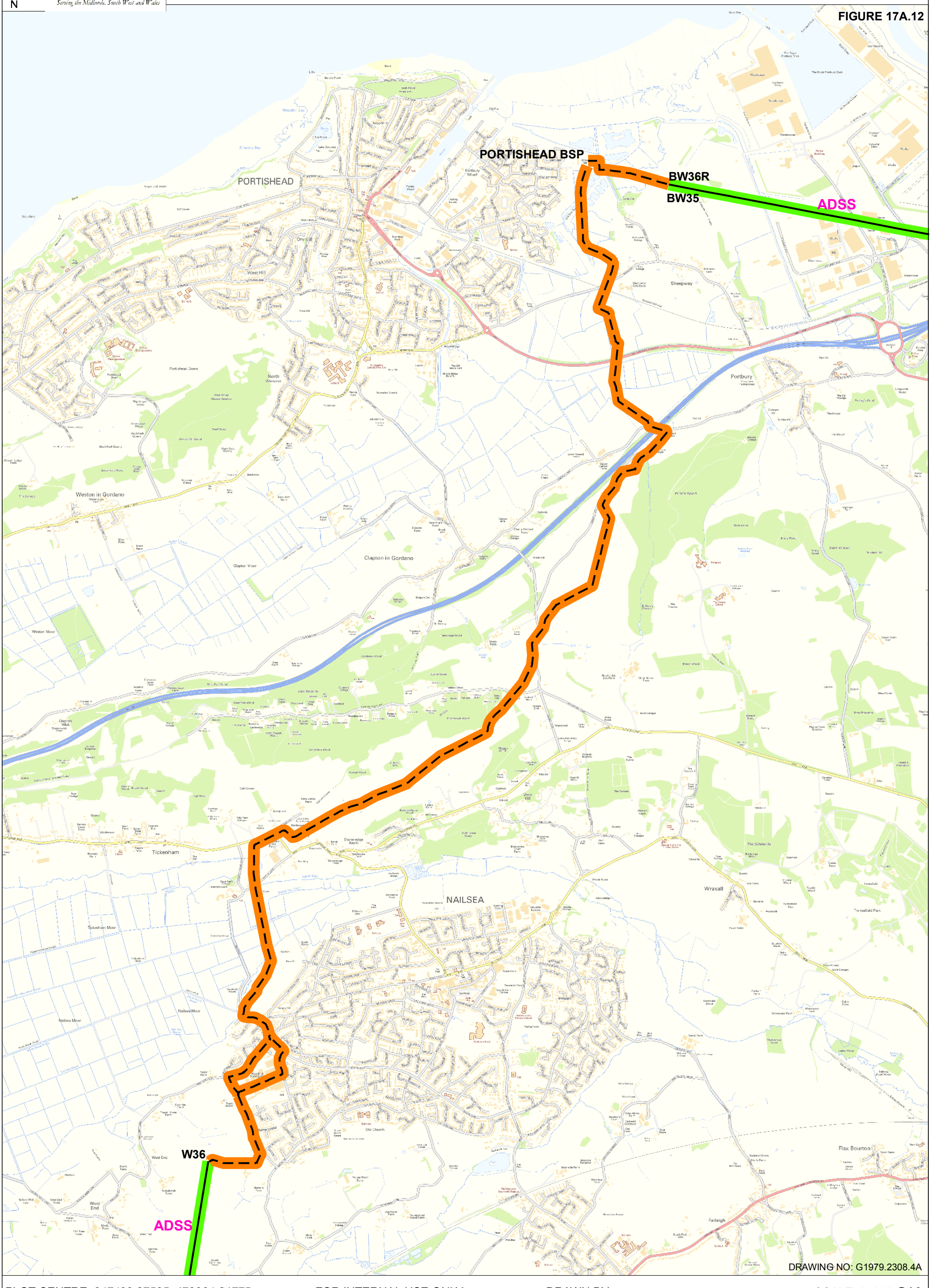
FIGURE 17A.12



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WESTERN POWER DISTRIBUTION
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FIGURE 17A.13

PORTISHEAD BSP
BW36R
BW35
ADSS
BW29
BW29R
BW28R
BW28
BW24
BW25
ADSS
BW17
BW19
BW20
BW21

Avonmouth
Avonmouth Docks
King Road
Swash Channel
Shirehampton
Lawrence Weston
Pill
Sheepway
Easton-in-Gordano
River Avon

Appendix 17B – Cumulative Assessment – Western Power Distribution Scope of Works

Hinkley Point C Connection Project

Appendix 17B: Western Power Distribution Scope of Works

Contents

1 APPENDIX 17B: WESTERN POWER DISTRIBUTION SCOPE OF WORKS

1.1 Introduction

1.1.1 This appendix has been produced to advise National Grid on the crossing works required on the Western Power Distribution (WPD) network as part of the Proposed Development, to enable them to consider the crossing works as part of the Cumulative Impact Assessment, **Volume 5.17.1** of the ES.

1.1.2 The WPD crossing works would comprise a variety of measures to temporarily and in some cases permanently underground existing 33kV, 11kV and low voltage (LV) lines that would be crossed by the Proposed Development.

1.1.3 The scope provided below is a generalised assessment of the work that will be required to be undertaken on the WPD 33kV, 11kV and LV power lines and underground cables network to enable the construction of the Proposed Development. This includes the works to dismantle the 132kV F Route.

1.1.4 A detailed crossings schedule (based on the information currently known) is provided in Section 1.9. The information provided is part of an on-going assessment process and as such the schedule of crossings is subject to further change. The crossings schedule should be read in conjunction with **Figures 17.3.1 – 17.3.17** provided following Section 1.9. **The figures provided only detail crossings where physical works are required. The crossing schedule has highlighted in red fill those crossings where no physical works are required.**

1.1.5 The crossings that have been identified will be subject to further design work, which will include site surveys, outage planning and ground investigation. These crossings have been identified at this point in time (January 2014), and there is the potential that there may be further circuits that have been constructed prior to the commencement of the Proposed Development, for example approved solar and wind farm connections in the area. There may also be restrictions on outage requirements imposed on circuits in the future which could impact on the options available to manage the build of the Proposed Development.

1.1.6 As detailed site surveys have not been undertaken to date the options available would be subject to assessment of ground conditions other services that may be in the vicinity and planning requirements which would have an impact on the solution that is chosen.

1.1.7 Where crossings have been identified across haul roads associated with the Proposed Development no physical works are proposed. WPD will measure the clearances and the appointed contractor will work in accordance with GS6 (Health and Safety Executive, GS6, Avoidance of Danger from Overhead Electric Line, 4th Edition, 2013).

1.1.8 Where crossings have been identified over existing WPD underground assets no physical works are proposed and the appointed contractor will work in accordance with HSG47 (HSE Document HSG47, Avoiding Danger from Underground Services).

1.1.9 The generic management solutions detailed in Sections 1.2 to 1.6 are proposed for the crossings that have been identified in the Crossing Schedule provided in Section 1.9. The crossings are identified by the Proposed Development Sections A – H. A full description of the Proposed Development is provided in **Volume 5.3.1** of the ES.

1.1.10 These works will be subject to further investigation and detailed design work. They will also be subject to consultation with statutory stakeholders and PILs.

1.1.11 Please note that 33kV and 11kV are still classed as high voltage overhead lines.

1.2 400kV Overhead Line Construction

1.2.1 Where the Crossing Schedule (Section 1.9) under the 'Nature of Work' column states '400kV overhead line build' all WPD 33kV, 11kV and LV overhead line crossings will be permanently undergrounded. Cable trench sizes are depicted on the insets provided in Section 1.8. Where a length of undergrounding is not specified in the crossings schedule, use the generalisation that the undergrounding will start and finish 10 metres either side of the order limits. This should cover a worst case scenario.

1.2.2 In general undergrounding is taken to a field edge for minimum disturbance.

1.3 400kV Underground Cable Construction

1.3.1 Where the Crossing Schedule under the 'Nature of Work' column states '400kV Underground Cable Lay' the following management solutions are proposed:

- 33kV overhead line crossings are to be permanently undergrounded.
- 11kV overhead main line crossings and overhead line spurs are to be temporarily undergrounded in a ducted system and then re-erected once the Proposed Development construction works have been completed.
- LV overhead lines are to be permanently undergrounded.

1.4 132kV Line Dismantling

1.4.1 Where the Crossing Schedule under the 'Nature of Work' column states '132kV dismantling' and that there is an overhead line crossing the following methods will apply:

- 33kV overhead line crossings will, in order of priority either:
    - be De-energised, isolated and earthed to allow the 132kV dismantling works to be undertaken;
    - have scaffold protection erected to allow the line to remain live while the Proposed Development works are undertaken; and

    - be temporarily undergrounded to allow the 132kV dismantling works to be undertaken. In this instance the 33kV line crossing the 132kV dismantling works will remain, but it will not live. Once the dismantling work has been completed it will be reinstated.
- 11kV overhead line crossings: Air Break Isolators (ABIs) to be erected on poles either side of the 132kV line. 11kV line to be isolated and earthed for the duration of the 132kV dismantling works.
- 11kV overhead line spur crossings will be temporarily undergrounded (using flying sections with the overhead line to remain erected). Underground cable would be cut away after the 132kV circuit is dismantled.
- LV overhead line crossings: To be reconductored with ABC and additional ABI shrouding applied **OR** LV overhead line to be isolated by cutting section jumpers.

1.5 Existing WPD Underground Assets

1.5.1 Where WPD have existing underground apparatus detailed in the Crossing Schedule then no physical works shall be planned and the appointed contractors shall work in accordance with HSE Guidance Note 47 (HSE Document HSG47, Avoiding Danger from Underground Services).

1.6 Haulage Roads Associated with the Proposed Development

1.6.1 No physical works shall be planned and the appointed contractor shall work in accordance with HSE Guidance Note GS6 (Health and Safety Executive, GS6, Avoidance of Danger from Overhead Electric Line, 4th Edition, 2013).

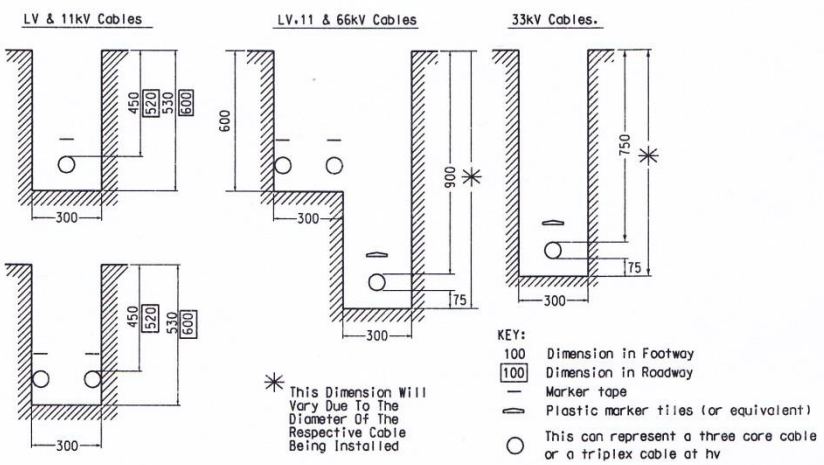
1.7 Proposed Construction Programme

1.7.1 Based on the current proposed construction programme for the Proposed Development the crossing works would be undertaken from 2015 to 2019, this is subject to change.

1.8 Cable Trench Layouts and Dimensions

1.8.1 Cable trench layouts and dimensions are presented on the following two insets.

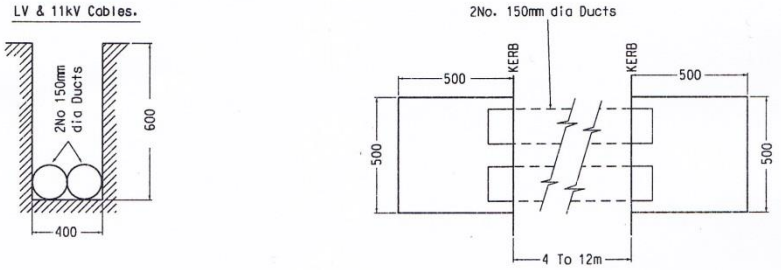
FOOTWAYS & ROADWAYS



Notes:
1. Marker tape to be laid 75mm above LV & 11kV Cables.
2. Plastic marker tiles (or equivalent) to be laid 75mm above 33 66 & 132kV Cables.

ROAD CROSSINGS.

LV & 11kV Cables.



The crossing is to include laying 2No. 150mm dia ducts (provided by WPD), a 500x500mm opening in the footpath each side of the road, removing and reinstating kerb edges as necessary and complete reinstatement on completion of works.

Rev No	Drawn	Chk'd	App'd	Date	Revision
7	RJB			07/11	TEXT ADDED

ORIGINAL ISSUE		DATE
Drawn	R.J.B.	11.97
Checked		
Approved		
SCALE N.T.S.		

WESTERN POWER DISTRIBUTION
Design Department.
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WESTERN POWER DISTRIBUTION

Title: LV.11,33 AND 66kV ARRANGEMENT AND DIMENSIONS OF TRENCHES FOR CABLES.

Drg. No. 3.2a

Rev No 7

TABLE 3.2 - NORMAL TRENCH DIMENSIONS - Three-Core Cable or Triplex.

Cable Type	Location	Trench Depth	Trench Width Single Cable	Min Cover Over Cable	Trench Width Two Cables
LV & Services	Pavement or private land	530mm	300mm	450mm	300mm
LV & Services	Roadway (ducts)	600mm	300mm	520mm	300mm
11kV (PICAS)	Pavement or private land	530mm	300mm	450mm	300mm
11kV (PICAS)	Roadway (ducts)	600mm	300mm	520mm	400mm
11kV (Triplex EPR or XLPE)	Pavement or private land	530mm	300mm	450mm	300mm
11kV (Triplex EPR or XLPE)	Roadway (ducts)	600mm	300mm	520mm	400mm
33kV H or HSL Solid Type Cable	all locations	900mm	300mm	750mm	600mm

- **Single Underground Circuit using Single Core Cables (Laid in Trefoil)**

Cable Type	Locations	Trench Depth	Trench Width	Min Cover over Cable
66kV EPR or XLPE laid in Trefoil	all locations	1098mm	450mm	900mm
66kV EPR or XLPE laid with 2D Flat Spacing (630mm² or larger c.s.a only)	all locations	Depends on diameter of cable but approximately 1050mm	550mm	900mm
33kV EPR or XLPE laid in trefoil	all locations	900mm	450mm	750mm
11kV (Single core EPR) laid in trefoil	Pavement or private land	530mm	300mm	450mm
11kV (Single core EPR) laid in trefoil	Roadway (ducts)	600mm	300mm	520mm

When installing cables in **agricultural land**, it is necessary that the cable be laid at sufficient depth to allow for deep ploughing and cultivation. The recommended depths, to the top of the cable, as agreed with the National Farmers' Union are as follows:

All LV & 11kV cables - 1000mm depth
All 33kV cables - 1000mm depth
All 66kV cables - 1000mm depth
All 132kV cables - 1000mm depth

3.3 Abnormal Trench Depths, Shuttering, and Unstable Ground

Shuttering with timber or other suitable material must be provided where it is necessary to prevent danger from trench side collapse or falls of rock or other material from the side of the ground adjacent to the trench.

1.9 Crossings Schedule

1.9.1 The WPD Crossing Schedule is presented on the spreadsheet following this page.

General Guidance Notes

1.9.2 No information has yet been provided for crossings WPDX147 & 148.

1.9.3 There are a number of instances on **Figures 17.3.1 – 17.3.17** where a WPD line crosses both the 400kV overhead line and the 132kV line in close proximity. In some cases the line would be permanently undergrounded beneath both the 400kV and 132kV works. In other instances the 132kV line dismantling would occur before the 400kV line construction. Isolation or protection methods would be used during the 132kV dismantling works and then permanent undergrounding would take place during the 400kV line construction. The figures have placed two lines on the plans to differentiate between these two instances.

1.9.4 Listed below are the crossings where the 132kV works precede the 400kV works. The correct line (i.e. the actual crossing) is detailed for the 400kV works and an indicative line provided for the 132kV works

Table 1.1 400kV and 132kV Crossing Works on the same WPD Line

Crossing Reference	Indicative Line or Correct Line	Figure Reference
WPDX056	Indicative Line	17B.6
WPDX057	Correct Line	17B.6
WPDX061	Indicative Line	17B.6
WPDX062	Correct Line	17B.6
WPDX109	Indicative Line	17B.11
WPDX111	Correct Line	17B.11
WPDX116	Indicative Line	17B.11
WPDX117	Correct Line	17B.11
WPDX150	Indicative Line	17B.13
WPDX151	Correct Line	17B.13
WPDX161	Indicative Line	17B.13
WPDX162	Correct Line	17B.13

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
SECTION A								
WPDX001	332518, 135985	21CACA20D	HV (11kV)	1 of 6	1 x HV OHL, PMT & LV OHL in close proximity to the 132kV line.	132kV Dismantling	- WPD to apply additional shrouding to Aerial Bundled Conductors (ABC). - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.K6	YES
WPDX002	332518,135985	21CACA20D	LV (230/400V)	1 of 6	1 x PMT under the 132kV line 'Bridgwater Telecomms 21/8546'. **NOTE: Not currently shown on EMU.**	132kV Dismantling	- New GMT substation to be established to replace 'Bridgwater Main' & 'Bridgwater Telecomms' PMT's.	YES
WPDX003	332698, 136147	21ZDF5 21ZDB4	EHV (33kV)	1 of 6	2 x 33kV OHL within proposed Haulage route. **(Bridgwater to Bath Road - 210444 2L5 & 6L5)**	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance to GS6.	NO
WPDX004	332680, 136237	21ZDF6 21ZDB5	EHV (33kV)	1 of 6	2 x 33kV OHL crossing the 132kV line. **(Bridgwater to Bath Road - 210444 2L5 & 6L5)**	132kV Dismantling	- NGC to provide scaffold protection around both 33kV circuits. - 33kV circuits to remain live when 132kV dismantling works are taking place.	YES
WPDX005	332803, 136293 332755, 136789 332797, 137108	21ZDR11	EHV (33kV)	1 of 6	1 x 33kV OHL within proposed haulage route along Park Wall Dove. **(Bridgwater to Watchfield - 210444 8L5)**	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX006	332761, 136591	21ZDR11	EHV (33kV)	1 of 6	1 x 33kV OHL crossing under the 132kV line. **(Bridgwater to Watchfield - 210444 8L5)**	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX007	333349, 137482 333307, 137540 333106, 137690	21CAC2	HV (11kV)	2 of 6	3 x HV OHL Crossings over the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX008	333048, 137715	21CA19	HV (11kV)	2 of 6	1 x HV OHL crossing under 132kV Line (Main Line).	132kV Dismantling	- Confirmed on site on 19/11/13 that Aerial Bundled Insulators (ABIs) are in place either side of the 132kV line. - WPD to de-energise the circuit to allow the 132kV dismantling to take place.	YES
WPDX009	333162, 138141	21CA28B	HV (11kV)	2 of 6	1 x HV OHL crossing under 132kV Line (Spur).	132kV Dismantling	- WPD to temporarily underground HV overhead spur.	YES
WPDX010	333357, 138885	21CA35	LV (230/400V)	3 of 6	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX011	333426, 138932 333488, 139147	21CA36	HV (11kV)	3 of 6	2 x HV OHL Crossings over the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX012	333573, 139701	21CAE1	HV (11kV)	3 of 6	1 x HV OHL crossing under 132kV Line (Spur). **- ENMAC shows existing underground diversion. No record on EMU.**	132kV Dismantling	- Confirmed on site on 29/11/13 that underground cable diversion is energised and in circuit. Overhead conductors are erected but isolated. - WPD to earth overhead conductors and provide supervision.	YES
WPDX013	333539, 139686 333396, 139773 333129, 139948	21CAE3	EHV (33kV) HV(11kV) & LV (230/400V)	3 of 6	1 x 33kV OHL, 1 x HV OHL & 1x LV OHL crossings over the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX014	331755, 139672	21ZDC28A	EHV (33kV)	4 of 6	1 x 33KV OHL crossing under the proposed 275/400kV Line **(210444 - 3L5 - Bridgwater to Black Ditch/Watchfield/Burnham)** **Surf 33kV Circuit.**	400kV Line Build	- Temporarily underground 33kV OHL. Overhead conductors to be re-erected following completion of NGC works.	YES
WPDX015	332421, 140904	21CC18	LV (230/400)	5 of 6	1x LV OHL crossing over the proposed haulage road.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX016	333264, 141081	21CC30	HV (11kV)	5 of 6	1 x HV OHL crossing under the proposed 400kV route (Spur).	400kV Line Build	- WPD to underground HV overhead spur.	YES
WPDX017	333429, 141143	21CC32	HV (11kV)	6 of 6	1 x HV OHL crossing under the proposed 400kV route (Spur).	400kV Line Build	- WPD to underground HV overhead spur.	YES
WPDX018	333759, 141419	21CC37C	HV (11kV)	6 of 6	1 x HV OHL crossing under the proposed 400kV route (Spur).	400kV Line Build	- WPD to underground HV overhead spur.	YES
WPDX019	333616, 139870	21CAE3A	LV (230/400V)	6 of 6	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX020	333585, 139855 333595, 139888 333607, 139934	21ZDR40	EHV (33kV)	6 of 6	3 x 33kV OHL crossings over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance to GS6.	NO
WPDX021	333733, 140446	21ZDR46	EHV (33kV)	6 of 6	1 x 33kV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX022	333950, 141148	21CC40	HV (11kV)	6 of 6	1 x 11kV OHL crossing under 132kV Line (Main Line).	132kV Dismantling	- Confirmed on site on 29/11/13 that ABI's exist either side of the 132kV crossing. - Note: ENMAC shows two ABI's either side of the 132kV crossing already in place. One ABI not shown on EMU.	YES
WPDX023	334034, 141467	21ZDR57	EHV (33kV)	6 of 6	1 x 33kV OHL crossing the 132kV line.	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX024	333994, 141440 334086, 141571	21ZDR56 21ZDR58	EHV (33kV)	6 of 6	2 x 33kV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
SECTION B								
WPDX025	334040, 141784 334115, 141780	21ZDG2	EHV (33KV)	1 of 11	1 x 33kV OHL T-Off crossing under the existing 132kV line and proposed 400kV line. (33kV Feed to R.O.F Power House 21/0999 - Bridgwater to Watchfield)	400kV Line Build & 132kV Dismantling	- May be possible to dismantle 33kV T-Off since site is abandoned. - If 33kV T-off cannot be dismantled then the affected section shall be undergrounded.	YES
WPDX026	334207, 142001	21ZDR62	EHV (33kV)	1 of 11	1 x 33KV OHL crossing under the proposed 400kV Line (210444 - 8L5 - Bridgwater to Watchfield)	400kV Line Build	- WPD to underground 33kV OHL Line. - Investigate possibility of re-erecting OHL following NGC works.	YES
WPDX027	334503, 143012	21ZDR70	EHV (33kV)	1 of 11	1 x 33KV OHL crossing under the proposed 400kV Line (210444 - 8L5 - Bridgwater to Watchfield)	400kV Line Build	- WPD to underground 33kV OHL Line. - Investigate possibility of re-erecting OHL following NGC works.	YES
WPDX028	334692, 142773 334658, 143000	21CAH20	HV (11kV)	2 of 11	1 x HV OHL crossing the under the proposed 400kV line in two locations (Spur).	400kV Line Build	- WPD to underground HV overhead spur.	YES
WPDX029	334685, 143646	21ZDR75	EHV (33kV)	3 of 11	1 x 33KV OHL crossing under the proposed 400kV Line (Bridgwater to Watchfield - 210444 8L5) **Across Huntspill River.**	400kV Line Build	- WPD to divert existing 33kV OHL on North side of river and then underground under 400kV line.	YES
WPDX030	335135, 144074	21CO33	HV (11kV)	3 of 11	1 x HV OHL crossing the under the proposed 400kV line (Spur).	400kV Line Build	- WPD to underground HV overhead spur.	YES

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
WPDX031	334833, 144364	21ZDR82	EHV (33kV)	3 of 11	1 x 33kV OHL crossing under the 132kV line. **(Bridgwater to Watchfield - 210444 8L5)**	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX032	334864, 144436	21CO28Z	HV (11kV)	3 of 11	1 x 11kV OHL crossing under 132kV Line (Spur). **- ENMAC & EMU shows existing underground diversion.**	132kV Dismantling	- Confirmed on site on 10/12/13 that underground diversion has taken place and is in circuit. Overhead conductors erected but with jumpers cut.. - WPD to confirm isolation and earth overhead circuit.	YES
WPDX033	334865, 144913	21ZDR87	EHV (33kV)	3 of 11	1 x 33kV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX034	335836, 145179	21COB14	HV (11kV)	4 of 11	1 x HV OHL crossing under the proposed 400kV line (Spur).	400kV Line Build	- WPD to underground HV overhead spur.	YES
WPDX035	334978, 145112 334951, 145124	21COB6	HV (11kV) & EHV (33kV)	5 of 11	1 x HV & 1 x 33kV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX036	335174, 145153	21COB8	HV (11kV)	5 of 11	1 x 11kV OHL crossing under 132kV Line (Spur).	132kV Dismantling	- WPD shall temporarily underground the OHL section. - OHL shall remain erected but isolated and earthed.	YES
WPDX037	335145, 145218	21COBA1	HV (11kV)	5 of 11	1 x 11kV OHL crossing under NGC lay down area? (Main Line)	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX038	335130, 145432	21COBA3	HV (11kV)	5 of 11	1 x HV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX039	335091, 145689	21ZDR94	HV (11kV) & EHV (33kV)	5 of 11	1 x HV & 1 x 33kV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX040	334864, 145951	21COBA10	HV (11kV)	5 of 11	1 x HV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX041	335079, 146288	21ZDR99	EHV (33kV)	5 of 11	1 x 33kV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX042	336221, 146446	21GL8	LV (230/400V)	6 of 11	1 x LV OHL crossing under the proposed 400kV line. (BT Attachment)	400KV Line Build	- WPD to underground LV OHL.	YES
WPDX043	335844, 146687	21GL8	LV (230/400V)	6 of 11	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to cut section jumpers to de-energise LV OHL and apply shrouding to open wire conductors. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX044	335907, 146838	21GL5	HV (11kV)	6 of 11	1 x 11kV OHL crossing under 132kV Line (Spur).	132kV Dismantling	- WPD shall temporarily underground the OHL section. - OHL shall remain erected but isolated and earthed.	YES
WPDX045	335925, 147279	21DG12	HV (11kV)	7 of 11	1 x HV OHL crossing over the proposed Haulage route.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX046	336125, 147355	21DG15	HV (11kV)	7 of 11	1 x 11kV OHL crossing under 132kV Line (Main Line). **ENMAC shows ABI's either side of 132kV line. 'Mark School 21/3803' to be backfed.**	132kV Dismantling	- Confirmed on site on the 11/12/13 that ABI's exist either side of the 132kV line. - WPD to check that 'Mark School 21/3803' can be backfed.	YES
WPDX047	336178, 147476	21DG16A	HV (11kV)	7 of 11	1 x 11kV OHL crossing under 132kV Line (Spur). **'Mark School 21/3803' to be backfed by LV network.**	132kV Dismantling	- WPD to backfeed 'Mark School 213803' on the LV network while 132kV is being dismantled.	YES
WPDX048	336231, 147597	21DG16B	LV (230/400V)	7 of 11	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX049	336476, 147470	21DG20	LV (230/400V)	7 of 11	1x LV OHL crossing over the proposed haulage road.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX050	336672, 147502	21DG23	HV (11kV)	7 of 11	1 x HV OHL crossing under the proposed 400kV line (Main Line). **Affected section includes an 11kV PMAR.**	400kV Line Build	- WPD to underground 11KV OHL (Main Line).	YES
WPDX051	336660, 147670	21DG23	LV (230/400V)	7 of 11	1 x LV OHL crossing under the proposed 400kV line.	400KV Line Build	- Underground LV OHL.	YES
WPDX052	337070, 149571	18SP45	HV (11kV)	8 of 11	1 x HV OHL crossing under the 132kV line (Main Line - **2W**). **ENMAC shows two ABI's either side of the 132kV line.**	132kV Dismantling	- Confirmed on site on 11/12/13 that ABI's exist either side of the 132kV line. - Isolate overhead section with ABI's.	YES
WPDX053	337176, 149518	18SP47	HV (11kV)	8 of 11	1 x HV OHL crossing under the proposed 400kV line (Main Line - **2W**).	400kV Line Build	- WPD to underground HV overhead main line.	YES
WPDX054	337343, 151910	18ZA59	EHV (33kV)	9 of 11	1 x 33kV OHL crossing under the 132kV line. **(Churchill to Winscombe/Axbridge Teed, Brent Knoll Switch Stn, Burnham/Watchfield Teed - 180017-2L5)**	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX055	337357, 151918	18ZA59	EHV (33kV)	9 of 11	1 x 33kV OHL crossing under the 400kV line. **(Churchill to Winscombe/Axbridge Teed, Brent Knoll Switch Stn, Burnham/Watchfield Teed - 180017-2L5)**	400kV Line Build	- WPD to temporarily underground the 33KV OHL. - 33kV overhead conductors to be removed. - 33kV conductors to be re-erected following 400kV line build.	YES
WPDX056	337412, 152511	18NWA6	LV (230/400V)	10 of 11	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6. - Cross Reference with WPDX061.	YES
WPDX057	337400, 152507	18NWA6	LV (230/400V)	10 of 11	1 x LV OHL crossing under the proposed 400kV line.	400kV Line Build	- WPD to permanently underground the LV OHL.	YES
WPDX058	337370, 152509	18NWA6	HV (11kV)	10 of 11	1 x HV OHL & PMT in close proximity to the 400kV Line.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX059	337838, 152635	18AR4	LV (230/400V)	10 of 11	1 x LV OHL crossing over the proposed haulage road.	400kV Line Build	- WPD to permanently underground the LV OHL.	YES
WPDX060	337426, 152900	18NWA1	HV (11kV)	10 of 11	1 x HV OHL crossing under the proposed 400kV line (Spur).	400kV Line Build	- WPD to underground HV overhead spur. - Cross Reference with WPDX062.	YES
WPDX061	337463, 152953	18KC36	HV (11kV)	10 of 11	1 x HV OHL crossing under the 132kV line (main line).	132kV Dismantling	- WPD to erect an additional ABI to de-energise line when 132kV line is being dismantled. - Cross Reference with WPDX056.	YES
WPDX062	337433, 152955	18KC36	HV (11kV)	10 of 11	1 x HV OHL crossing under the proposed 400kV line (main line).	400kV Line Build	- WPD to underground HV overhead main line. - Cross Reference with WPDX060.	YES
WPDX063	337664, 152865	18AR1	HV (11kV)	10 of 11	1 x HV OHL crossing over the haulage road.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
WPDX064	338040, 155486	18KJ4	LV (230/400V)	11 of 11	1 x LV underground crossing.	400kV Underground Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47).	NO
WPDX065	337989, 155573	18KJ3	HV (11kV)	11 of 11	1 x HV overhead crossing above the NGC 400kV cable route.	400kV Underground Cable Lay	- WPD to temporarily underground HV OHL. - HV OHL shall be re-erected following the completion of the NGC works.	YES
WPDX066	337890, 155622	18KJ1A	HV (11kV)	11 of 11	1 x HV underground crossing under the 132kV line.	132kV Dismantling	- Confirmed on site on 11/12/13 that the HV circuit has been undergrounded. - WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX067	337938, 155797	18B41A	HV (11kV)	11 of 11	1 x HV underground crossing under the 132kV line.	132kV Dismantling	- Confirmed on site on 11/12/13 that the HV circuit has been undergrounded. - WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX067A	337937, 155798	18B41A	HV (11kV)	11 of 11	1 x HV underground crossing under the 400kV cable route.	400kV Underground Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
SECTION C								
WPDX068	338065, 155960	18B40	HV (11kV)	1 of 4	1 x HV OHL in close proximity to the 132kV Line.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX069	338065, 155960	18B40	HV (11kV)	1 of 4	1 x HV OHL in close proximity to the proposed 400kV Line.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX070	338058, 156081	18B39	LV (230/400V)	1 of 4	1 x LV service cable crossing the proposed 400kV cable route.	400kV Underground Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX071	338151, 156210	18B38B	HV (11kV)	1 of 4	1 x HV OHL & PMT in close proximity to the 132kV line. **Note: This PMT is likely to be removed with the 132kV line.**	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6. - Cost for dismantling PMT & OHL spur.	YES
WPDX072	338333, 156238	18B37	HV (11kV)	1 of 4	1 x HV OHL & PMT across NGC lay down area.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX073	338479, 156658	18JA3	HV (11kV)	1 of 4	1 x HV underground cable under 132kV line. **Note: ENMAC shows cable is energised.**	132kV Dismantling	- WPD to confirm that HV cable is underground. - WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47) - WPD to measure clearances and provide GS6 letter to NGC.	NO
WPDX074	338455, 156311	18B35	HV (11kV)	1 of 4	1 x HV OHL crossing over the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX075	338560, 156569	18JA2	HV (11kV)	1 of 4	1 x HV OHL crossing the proposed 400kV cable route.	400kV Underground Cable Lay	- WPD to temporarily underground the HV OHL spur. - WPD shall re-erect the overhead line following J102completion of NGC works.	YES
WPDX076	338627, 156491	18JA1	HV (11kV)	1 of 4	1 x HV OHL crossing over the proposed haulage road.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX077	338741, 156597 338810, 156665 338823, 156677	18B30	HV (11kV)	2 of 4	3 x HV OHL crossing over the proposed haulage road.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX078	339161, 157010	18B24	HV (11kV)	2 of 4	1 x HV OHL in close proximity to the proposed 400kV cable route.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX079	339359, 157065 339490, 157102	18B22	HV (11kV)	2 of 4	2 x HV OHL Crossings over the proposed haulage road.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX080	339522, 156776	18SE4	HV (11kV)	2 of 4	1 x HV OHL & PMT in close proximity to the proposed haulage road.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX081	339722, 157097	18SXA1	HV (11kV)	3 of 4	1 x HV OHL crossing the proposed haulage road.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX082	340126, 157760	18LR6	HV (11kV)	3 of 4	1 x HV OHL & PMT crossing the proposed haulage road.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX083	340106, 157832	18LR7	HV (11kV)	3 of 4	1 x HV OHL crossing the 132kV line (Main line)	132kV Dismantling	- WPD to erect new pole and ABI to isolate OHL when 132kV line is being dismantled.	YES
WPDX084	340032, 157984	18LR8	HV (11kV)	3 of 4	1 x HV OHL crossing the proposed 400kV cable route.	400kV Underground Cable Lay	- WPD to temporarily underground the WPD HV OHL. - WPD shall re-erect the HV OHL following completion of the NGC works.	YES
WPDX085	340724, 158414	18XPA10	HV (11kV)	4 of 4	1 x HV underground cable crossing the proposed 400kV cable route.	400kV Underground Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX086	341529, 159161	18ZC58	EHV (33kV)	4 of 4	1 x 33kV OHL in close proximity to the 400kV cable route.	400kV Underground Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX087	341354, 159545	18ZC54	EHV (33kV)	4 of 4	1 x 33KV OHL crossing under the 132kV line. **(Churchill to Winscombe/Axbridge Teed, Brent Knoll Switch Stn, Burnham/Watchfield Teed - 180212-6L5)**	132kV Dismantling	- It is likely that the 33kV OHL will be diverted underground before the 132kV F Route is dismantled. - Freddie/Clive Goodman to confirm.	YES
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WPDX087A	341348, 159588	18ZC53	LV (230/400V)	1 of 15	1 x LV OHL crossing under the 132kV line & across the Sandford site entrance.	132kV Dismantling & 400kV Underground Cable Lay	- WPD to permanently underground the LV OHL.	YES
WPDX088	341215, 159912	18ZC49	EHV (33kV)	1 of 15	1 x 33kV OHL in close proximity to the proposed 400KV cable route. **(Churchill to Winscombe/Axbridge Teed, Brent Knoll Switch Stn, Burnham/Watchfield Teed - 180212-6L5)**	400kV Underground Cable Lay	- WPD to underground the 33kV OHL down the Strawberry line (1500m)	YES
WPDX089	341563, 160587	18DZ44	EHV (33kV)	1 of 15	1 x 33kV OHL crossing the proposed 400kV Line at Sandford GSP. **(Churchill to West Wick 180211 - 5L5).**	400kV Line Build	- WPD to underground 33kV OHL under proposed 132KV line to WSM (600m)	YES
WPDX090	341360, 159965 341294, 159955	18K10	HV (11kV)	1 of 15	2 x HV OHL crossings under 132kV line (Main line).	132kV Dismantling	- Erect ABI's either side of the 132kV crossings. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX091	341184, 159988	18K12	HV (11kV)	1 of 15	1 x HV OHL crossing over the 400kV cable route (Spur).	400kV Underground Cable Lay	- Erect new HV OHL T-off to 'Pimple Barn Sandford 18/2897'.	YES
~~WPDX092~~	~~341707, 160025~~	~~18K4~~	~~HV (11kV)~~	~~1 of 15~~	~~1 x HV OHL in close proximity to stay wires of temporary 132kV diversion (Main Line).~~	~~132kV New Build~~	~~- Temporarily underground HV OHL main line. - Re-erect HV OHL following the removal of the temporary 132kV diversion.~~	~~YES~~

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
WPDX093	341973, 160242	18W35	HV (11kV)	1 of 15	1 x HV OHL crossing under the 132kV line.	132kV New Build	- Isolate HV overhead line using ABI's shown on ENMAC. - Need site visit to confirm positin of ABI's.	YES
WPDX094	341208, 159944	18K12	HV (11kV)	1 of 15	1 x HV OHL crossing over proposed 400kV cable route and haulage route.	400kV Underground Cable Lay	- Increase height of HV OHL. OR - Temporarily underground HV OHL until GSP works have been completed.	YES
WPDX095	340890, 161368	18AW15	HV (11kV)	2 of 15	1 x HV OHL crossing the proposed 132kV line (Spur).	132kV New Build	- WPD to underground HV OHL spur. - OHL conductors to be removed. - OHL section could be re-erected following the construction of the 132kV line.	YES
WPDX096	341110, 161514	18AW19	HV (11kV)	2 of 15	1 x HV OHL crossing the proposed haulage road.	132kV New Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX097	340761, 161763	18TZ39	EHV (33kV)	2 of 15	1 x 33KV OHL crossing the proposed 132kV line **(Churchill to West Wick 180211- 4L5)**	132kV New Build	- WPD to temporarily underground the 33kV OHL. - WPD to remove 33kV OHL conductors. - WPD to re-erect the 33kV OHL following construction of the 132kV line.	YES
WPDX098	340506, 161730	18TZ41	EHV (33kV)	2 of 15	1 x 33KV OHL crossing the proposed haulage road. **(Churchill to West Wick 180211- 4L5)**	132kV New Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX099	340208, 162569	18AD40	HV (11kV)	2 of 15	1 x HV OHL crossing proposed 132kV OHL Diversion (Main Line).	132kV New Build	- WPD to underground the HV OHL.	YES
WPDX100	341636, 161863	18TZ32	EHV (33kV)	3 of 15	1 x 33KV OHL crossing the 132kV line **(Churchill to West Wick 180211- 4L5)**	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX101	341816, 161883	18TZ30	EHV (33kV)	3 of 15	1 x 33KV OHL crossing the proposed 400kV line **(Churchill to West Wick 180211- 4L5)**	400kV Line Build	- WPD to temporarily underground the 33kV OHL. - WPD to remove the 33kV OHL conductors. - WPD to re-erect 33kV OHL following completion of the 400kV line.	YES
WPDX102	341724, 164513	18UHB1	HV (11kV)	4 of 15	1 x HV underground cable under the proposed 400kV line build and haulage road.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX103	341460, 164636	18NW2	HV (11kV)	5 of 15	1 x HV OHL & PMT within the work boundary.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX104	341860, 164470	18UHB1	LV (230/400V)	5 of 15	1 x LV OHL & 1 x LV underground cable crossing under the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6. - WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX105	342090, 165807	18Y33	HV (11kV)	5 of 15	1 x HV OHL crossing over the proposed haulage road.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX106	341146, 165201 341209, 165094 341202, 165070	18NW9 18NW7	HV (11kV)	5 of 15	2 x HV OHL & PMT & 1 x LV OHL crossing over the haulage road.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX107	341591, 166366	18Y41	HV (11kV)	5 of 15	1 x HV OHL crossing over the proposed haulage road.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX108	341108, 167057	18RL1	HV (11kV)	6 of 15	1 x HV OHL crossing under the 132kV line (Main Line).	132kV Dismantling	- Erect ABI's either side of the 132kV crossings. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX109	341060, 167327	18Y51	HV (11kV)	6 of 15	1 x HV OHL crossing under the 132kV line (Main Line).	132kV Dismantling	- Erect ABI's either side of the 132kV crossings. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX110	341008, 167061	18RL2	HV (11kV)	6 of 15	1 x HV OHL crossing under the proposed 400kV line (Main Line).	400kV Line Build	- WPD to underground HV overhead main line.	YES
WPDX111	341070, 167272	18Y51	HV (11kV)	6 of 15	1 x HV OHL crossing under the proposed 400kV line (Main Line).	400kV Line Build	- WPD to underground HV overhead main line.	YES
WPDX112	341419, 167324	18RGB3	HV (11kV)	6 of 15	1 x HV OHL crossing over the proposed haulage road	132kV Dismantling / 400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX113	342460, 168262	18PT13	HV (11kV)	7 of 15	1 x HV OHL crossing under the 132kV line (Spur). **Note: EMU & ENMAC show crossing as being undergrounded (conductors still erected).**	132kVDismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX114	342460, 168262	18PT13	HV (11kV)	7 of 15	1 x HV OHL crossing under the proposed 400kV line (Spur). **Note: EMU & ENMAC show crossing as being undergrounded (conductors still erected).**	400kV Dismantling	- WPD to permanently underground the 11kV OHL Spur.	YES
WPDX115	342474, 168159	18PT14	LV (230/400V)	7 of 15	1 x LV OHL crossing over the proposed haulage road.	132kV Dismantling / 400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX116	342623, 168357	18WZ38	EHV (33kV)	7 of 15	1 x 33KV OHL crossing under the 132kV line. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed)**	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX117	342623, 168357	18WZ38	EHV (33kV)	7 of 15	1 x 33KV OHL crossing under the proposed 400kV line. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed)**	400kV Line Build	- WPD to temporarily underground the 33kV OHL. - WPD to remove the 33kV OHL conductors. - WPD to re-erect 33kV OHL following completion of the 400kV line.	YES
WPDX118	342621, 168508	18WZ39	EHV (33kV)	7 of 15	1 x 33KV OHL crossing under the proposed haulage road. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed)**	132kV Dismantling / 400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
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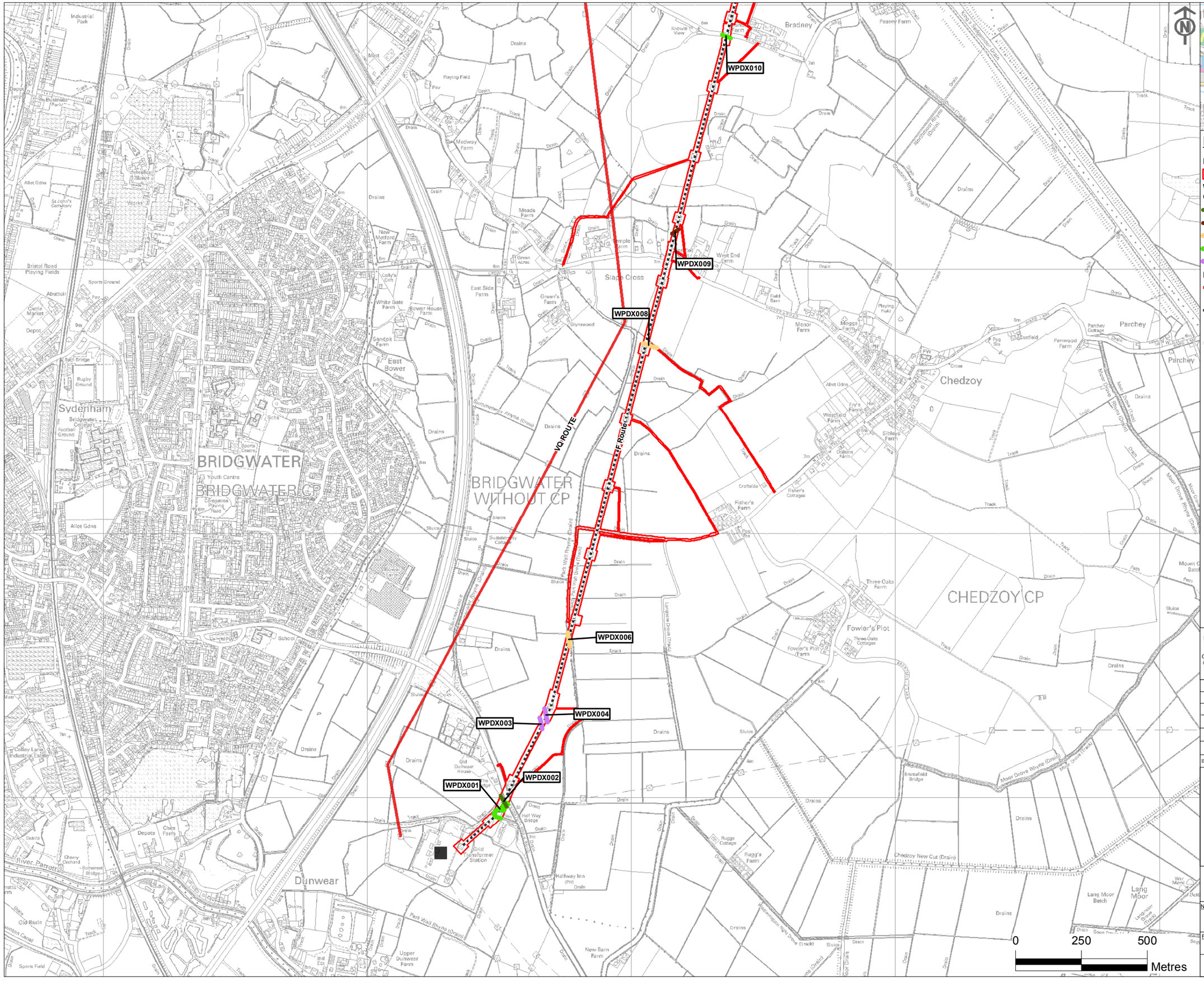
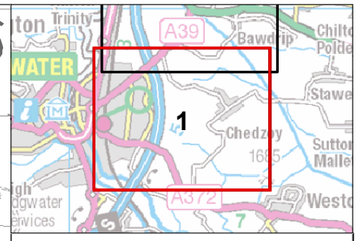
WPDX119	344761, 169788	18HZ28	EHV (33kV)	9 of 15	1 x 33KV OHL crossing under the 132kV line. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed)**	132kV Dismantling	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX120	344521, 169903	18HZ25	EHV (33kV)	9 of 15	1 x 33KV OHL crossing under the proposed 400kV line. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed)**	400kV Line Build	- WPD to temporarily underground the 33kV OHL. - WPD to remove the 33kV OHL conductors. - WPD to re-erect 33kV OHL following completion of the 400kV line.	YES
WPDX121	346045, 169381	18SU8	HV (11kV)	10 of 15	1 x HV OHL crossing over the proposed haulage road	132kV Dismantling / 132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX122	345583, 169488	18SU4	HV (11kV)	10 of 15	1 x HV OHL crossing under the proposed 132kV temproray OHL diversion (Main Line).	132kV Overhead Diversion.	- WPD to permanently underground HV overhead main line.	YES
WPDX123	345583, 169488	18SU4	HV (11kV)	10 of 15	1 x HV OHL crossing in close proximity to the 132kV termination tower (Main Line).	132kV Overhead Diversion / 132kV Cable Lay	- WPD to permanently underground HV overhead main line.	YES
WPDX124	345614, 169686	18HZ35	EHV (33kV)	10 of 15	1 x 33kV OHL crossing under the proposed 132kV OHL diversion. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed).**	132kV Overhead Diversion	- WPD to de-energise the 33KV circuit to allow 132kV dismantling.	YES
WPDX125	345783, 169605	18HZ37	EHV (33kV)	10 of 15	1 x 33kV OHL crossing over the proposed 132kV Cable Lay. **(Churchill BSP 10L5 - Congresbury to Nailsea, Clevedon teed).**	132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX126	345449, 169462	18SU2	HV (11kV)	10 of 15	1 x HV OHL crossing over the proposed haulage road.	132kV Overhead Diversion / 132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
WPDX127	345209, 169414	18TN28	HV (11kV)	10 of 15	1 x HV OHL crossing over the proposed haulage road.	132kV Overhead Diversion / 132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX128	345458, 169947	18TN21	HV (11kV)	10 of 15	1 x HV OHL crossing over the proposed haulage road.	132kV Dismantling / 132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX129	345679, 170090	181875	LV (230/400V)	10 of 15	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX130					Reserved for Possible underground cable crossings			
WPDX131	345721, 170235	18AM1	HV (11kV)	11 of 15	1 x HV underground cable crossing under the 132kV line. (Spur)	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX132	345682, 170391	18TN14	HV (11kV)	11 of 15	1 x HV OHL crossing under the 132kV line (Main Line). **NOTE: Need to check whether 'The Yeedles' is linkable. May need to R/F LV network.**	132kV Dismantling	- Erect ABI's either side of the 132kV crossings. - Isolate HV OHL while the 132kV dismantling is taking place. - Link away 'The Yeedles' LV network.	YES
WPDX133	345793, 170324	18JYA2	LV (230/400V)	11 of 15	1 x LV OHL crossing under the 132kV line. **Note: EMU showing unreliable line data. Need to check conductor on site.**	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX134	345797, 170581 345813, 170606	18TN11	HV (11kV)	12 of 15	2 x HV OHL crossings under the proposed haulage road.	132kV Dismantling / 400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX135	345975, 170695 346046, 170650	18XDB1 18XDB2	HV (11kV)	12 of 15	1 x HV OHL & PMT crossing under the 132kV line (Spur). **Look at the possibility of reinforcing the LV network and removing 'Watery Lane' PMT (only 21 customers)**	132kV Dismantling	- Isolate HV Spur and backfeed LV network of 'Watery Lane' PMT. - Look at the possibility of reinforcing the LV network and removing 'Watery Lane' PMT (only 21 customers)	YES
WPDX136	346000, 170904	18TN6	HV (11kV)	12 of 15	1 x HV OHL crossing over the proposed 132kV cable route.	132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX137	346288, 171218 346444, 171176	18L133 18L131	HV (11kV)	12 of 15	2 x HV OHL crossings under the 132kV line (Main Line).	132kV Dismantling	- Erect ABI's either side of the 132kV crossings. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX138	346111, 171269	18L136	HV (11kV)	12 of 15	1 x HV OHL crossing under the proposed 400kV line (Main Line).	400kV Line Build	- WPD to permanently underground the 11kV Main Line.	YES
WPDX139	346231, 171373	18GCA2	HV (11kV)	12 of 15	1 x HV OHL crossing under the proposed 400kV line (Spur).	400kV Line Build	- WPD to underground the 11kV spur.	YES
WPDX140	346632, 171432 346723, 171381	18MA3 18KM1	HV (11kV)	12 of 15	2 x HV OHL crossings under the proposed haulage road.	132kV Dismantling / 400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX141	345968, 171317	18L136	HV (11kV)	12 of 15	1 x HV underground cable crossing the proposed 132kV underground circuit.	132kV Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX142	345929, 171524	18CB1	LV (230/400V)	12 of 15	1 x LV OHL crossing under the proposed 132kV cable route.	132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX143	346409, 171836 346435, 171816	18GCA7	LV (230/400V)	12 of 15	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX144	346424, 171825	18GCA7	LV (230/400V)	12 of 15	1 x LV crossing under the proposed 400kV line.	400kV Line Build	- WPD to permanently underground the LV OHL.	YES
WPDX145	346112, 171868	18GCA9	HV (11kV)	12 of 15	1 x HV OHL crossing under the proposed 132kV cable route.	132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX146	346098, 171867	18GCA7	LV (230/400V)	12 of 15	1 x LV underground cable crossing the 132kV cable route.	132kV Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX147				13 of 15 (Churchill BSP)				
WPDX148				13 of 15 (Churchill BSP)				
WPDX148				13 of 15 (Churchill BSP)				
				14 of 15 (NGC Puxton Lay Down Area)				
				15 of 15 (NGC Hewish Lay Down Area)				
SECTION E								
				1 of 4				
WPDX149	347594, 172151	18/0300	HV (11kV) & LV (230/400V)	2 of 4	1 x HV underground cable and 1 x LV OHL crossing the proposed haulage road.	400kV Line Build / 132kV Dismantling / 132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6. - WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX150	347893, 172962	18GJA2	LV (230/400V)	2 of 4	1 x LV OHL crossing under the 132kV line & over the proposed 132kV cable lay.	132kV Dismantling / 132kV Cable Lay	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX151	347935, 172966	18GJA2	LV (230/400V)	2 of 4	1 x LV OHL crossing under the proposed 400kV Line.	400kV Line Build	- WPD to permanently underground the LV OHL.	YES
WPDX152	348077, 172910	18TC37	LV (230/400V)	2 of 4	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX153	348289, 173018	18TC38	HV (11kV)	3 of 4	1 x HV OHL under the 132kV line (Main Line). **Note: ENMAC & EMU show ABI's already in place either side of 132kV line.**	132kV Dismantling	- Confirm ABI's are in place either side of the 132kV line. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX154	348360, 173241	18DP2	HV (11kV)	3 of 4	1 x HV underground cable under 132kV line.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
WPDX155	348777, 172686	18TC42	HV (11kV)	3 of 4	1 x HV underground cable under proposed haulage road.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX156	348613, 173365	18DP7	HV (11kV)	3 of 4	1 x HV underground cable under proposed haulage road.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX157	348102, 173268	18RQ1	HV (11kV)	3 of 4	1 x HV OHL crossing under the 132kV line (Main Line). **Note: Could underground rather the switch out since 400kV line follows same route.** **Cross Reference with WPDX158.** **New PMS Required.**	132kV Dismantling	- WPD to permanently underground the HV overhead main line. - Cross Reference with WPDX0158. - New PMS required.	YES
WPDX158	348076, 173263	18RQ1	HV (11kV)	3 of 4	1 x HV OHL crossing under the proposed 400kV line (Main Line). **Cross Reference with WPDX0157.** **New PMS Required.**	400kV Line Build	- Permanently underground the HV overhead main line. - Cross Reference with WPDX0158. - New PMS required.	YES
WPDX159	347982, 173247	18RQ1M	HV (11kV)	3 of 4	1 x HV OHL crossing over the proposed 132kV cable lay (Main Line).	132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX160	348223, 173262	18DP1	HV (11kV)	3 of 4	1 x HV OHL crossing under the proposed haulage road (Main Line).	132kV Dismantling / 400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX161	348151, 173337	18TC33	HV (11kV)	3 of 4	1 x HV OHL crossing under the 132kV Line (Main Line).	132kV Dismantling	- WPD to erect ABI's either side of the 132kV line. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX162	348149, 173419	18TC32	HV (11kV)	3 of 4	1 x HV OHL crossing under the proposed 400kV line (Main Line).	400kV Line Build	- WPD to permanently underground the HV overhead main line.	YES
WPDX163	348146, 173547	18TC30	HV (11kV)	3 of 4	1 x HV OHL crossing over the proposed 132kV cable lay (Main Line).	132kV Cable Lay	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX164	348000, 174013	18TC24	HV (11kV) & LV (230/400V)	3 of 4	1 x HV OHL & 1 x LV OHL crossing the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX165	348950, 174848	18OEA6	HV (11kV)	4 of 4	2 x HV OHL crossing over the proposed 132kV cable lay.	132kV Cable Lay.	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
SECTION F								
WPDX166	348075, 174493	18LRA1	LV (230/400V)	1 of 4	1 x LV OHL crossing under the 132kV line.	132kV Dismantling	- WPD to reconductor the LV overhead line with ABC & apply additional shrouding. - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	YES
WPDX167	348059, 174597	18LRA1	HV (11kV)	1 of 4	2 x HV OHL crossings under the 132kV line (Main Line) **Note: T-off to 'Caswel' PMT. Need to R/F LV network to backfeed 'Caswell' PMT.**	132kV Dismantling	- WPD to erect ABI's either side of the 132kV line. - Isolate HV OHL while the 132kV dismantling is taking place. - WPD to reinforce the LV newtork in order to backfeed 'Caswell' PMT LV network.	YES
WPDX168	348143, 174568 348085, 174641	18LRA1	HV (11kV)	1 of 4	2 x HV OHL crossings & PMT over the proposed haulage road.	132kV Dismantling	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX169	348686, 174897	18FB12	HV (11kV)	1 of 4	1 x HV OHL crossing under the 132kV line (Main Line). **Note: 'Caswell lane Comm Tower' PMT may need to be dismantled.**	132kV Dismantling	- WPD to erect ABI's either side of the 132kV line. - Isolate HV OHL while the 132kV dismantling is taking place.	YES
WPDX170	348730, 174907	18FB13	HV (11kV)	1 of 4	1 x HV OHL crossing under the proposed 400kV Line (Main Line). **(Option A & B).**	400kV Line Build	- WPD to permanently underground the HV overhead main line.	YES
WPDX171	349562, 175522	18VE7	EHV (33kV)	2 of 4 **(Option A)**	4 x 33kV underground **(NC)** circuits crossing under proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX172	349660, 175572	18VE7	EHV (33kV)	2 of 4 **(Option A)**	3 x 33kV underground (2 x NC) circuits crossing under the proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX173	350014, 175751	18VE1	HV (11kV)	2 of 4 **(Option A)**	1 x HV OHL crossing under the proposed 400kV line (Main Line). **Note: Could look at establishing a HV u/g switching station.**	400kV Line Build	- WPD to permanently underground the HV overhead main line. - Could look at establishing a HV underground switching station.	YES
WPDX174	350082, 175785	18SMB1	HV (11kV)	2 of 4 **(Option A)**	1 x HV underground cable crossing under the proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX175	350022, 175832	18SMB1	HV (11kV)	2 of 4 **(Option A)**	1 x HV OHL crossing over the proposed haulage route.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX176	350259, 175829	18P9	HV (11kV)	2 of 4 **(Option A)**	1 x HV OHL & PMT in close proximity to the proposed 400kV line.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX177	348372, 175951	18P25	EHV (33kV)	3 of 4	Several 33kV underground circuits crossing under the 132kV lines.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX178	348367, 176129	18P25	HV (11kV)	3 of 4	2 x HV underground cable crossings under the 132kV lines.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX179	348525, 175973	18P25	EHV (33kV)	3 of 4	Several 33kV underground circuits crossing under the proposed 132kV cable lay.	132kV Cable Lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX180	348525, 175973	18P25	EHV (33kV)	3 of 4	Several 33kV underground circuits crossing under the proposed 400kV cable lay.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX181	348507, 176099	18P24	HV (11kV)	3 of 4	1 x HV OHL crossing under the proposed 400kV line build and 132kV Cable Lay (Main Line). **Note: May need to relocate the PMAR,**	400kV Line Build / 132kV Cable Lay	- WPD to permanently underground the HV overhead main line. - Note: May need to relocate the PMAR.	YES
WPDX182	348373, 176489	18P25	EHV (33kV)	3 of 4	5 x 33kV underground cables crossing the proposed 132KV cable lay.	132kV Cable Lay	- Investigate possibility of altering 132kV cable route to avoid crossing the 33kV circuits.	NO
				4 of 4				
SECTION G								
WPDX183	349757, 176693	18GPB2	HV (11kV)	1 of 7	1 x HV undergroud cable crossing under the 132kV line.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX184	349732, 176757	18GPB2	HV (11kV)	1 of 7	1 x HV undergroud cable crossing under the proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO

Crossing Reference	Grid Reference	EMU Identifier	Crossing Voltage	NGC Plan Ref	Comments	Nature of Work	Proposed Action	Physical Works Required (YES/NO)
WPDX185	350735, 176009	18RAA3	HV (11kV)	1 of 7	1 x HV OHL in close proximity to the 400kV line.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX186	350341, 176609	81G12	HV (11kV)	1 of 7	1 x HV underground cable crossing under the 132kV line.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX187	350315, 176648	81G12	HV (11kV)	1 of 7	1 x HV underground cable crossing under the proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX188	350703, 176558	18/2590	HV (11kV)	1 of 7	1 x HV underground cable crossing under the 132kV line.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX189	350681, 176583	18LPB1	HV (11kV)	1 of 7	1 x HV underground cable and totem pole PMT in close proximity to 400kV line.	400kV Line Build	- WPD to relocate 'Marsh Lane Street Lighting' PMT.	YES
WPDX189				2 of 7	Several locations where WPD 11kV & LV underground cables cross the 400kV Line.	400kV Line Build / 132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX190				3 of 7	Several locations where WPD 33KV, 11kV & LV underground cables cross the 400kV Line.	400kV Line Build / 132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX191	351328, 178491	11/3277	HV (6.6kV)	3 of 7	3 x HV Private underground cables in close proximity to proposed tower C-LD109.	400kV Line Build	- Inform NGC of private HV cables.	NO
WPDX192	351587, 178584	11/4426	LV (230/400V)	3 of 7	1 x LV underground service cable in close proximity to proposed 400kV tower C-LD110.	400kV Line Build	- Divert LV service cable.	YES
WPDX193	351725, 178649	11/3368	EHV (33kV)	3 of 7	400kV Line oversailing Avonmounth Primary Substation.	400kV Line Build		NO
WPDX194				4 of 7	Several locations where WPD 33kV, 11kV & LV underground cables cross under the 132kV line.	132kV Dismantling	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX195				4 of 7	Several locations where WPD 33kV, 11kV & LV underground cables cross under the proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX196	352974, 178642	11AS11	HV (11kV)	4 of 7	1 x HV OHL crossing under the proposed 400kV line (Main Line).	400kV Line Build	- WPD to permanently underground the HV overhead main line.	YES
WPDX197	352899, 178432	11/3367	HV (11kV)	4 of 7	1 x HV underground cable crossing under the proposed 132kV cable lay.	132kV Cable lay	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX199	353842, 179422	11REA22	HV (11kV)	5 of 7	1 x HV underground cable, PMT & LV OHL & underground cable in close proximity to 132kV line and 400kV line.	132kV Dismantling / 400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47) - WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX200	354172, 180241	11TH9	HV (11kV)	5 of 7	1 x HV OHL, PMT & LV OHL in close proximity to the 400kV line (Spur)	400kV Line Build	- WPD to permanently underground the HV OHL & LV OHL. - WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47).	YES
WPDX200	354319, 181141	11/0912	LV (230/400V)	6 of 7	1 x LV OHL in close proximity to the proposed 400kV line.	400kV Line Build	- WPD to measure clearances and send GS6 letter. - NGC's appointed contractors to work in accordance with GS6.	NO
WPDX201	354017, 181793	11RM2	HV (11kV)	7 of 7	1 x HV underground cable crossing under the proposed 400kV line.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
WPDX202				7 of 7	Several locations where the WPD 33kV, 11kV & LV underground cables are located within the NGC work area.	400kV Line Build	- WPD to provide site plan from mapping centre. - NGC's appointed contractors to work in accordance with HSG(47)	NO
SECTION H								
WPDX203	320835, 145143	21EAMM9	HV (11kV)	1 of 2	6 x HV OHL crossings under the proposed 400kV lines. **NOTE: EMU & ENMAC show the line as de-energised.**	400kV Line Build	- WPD to dismantle and remove the two HV overhead lines.	YES
WPDX204	322101, 144846	21EAM66	HV (11kV)	2 of 2	6 x HV OHL crossings under the proposed 400kV lines (Main Line).	400kV Line Build	- WPD to permanently underground the HV overhead lines.	YES





Key

Proposed Infrastructure

- Order Limits

Western Power Distribution (WPD) Crossing Works

- Construction of New Substation
- Temporary Undergrounding
- De-energise/Isolate
- Protection Methods
- Erect Scaffolding

Existing Infrastructure

- Existing 275kV Overhead Line
- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal
- Existing Substation

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
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Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
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FIGURE No.	DRAWING No.		SCALE
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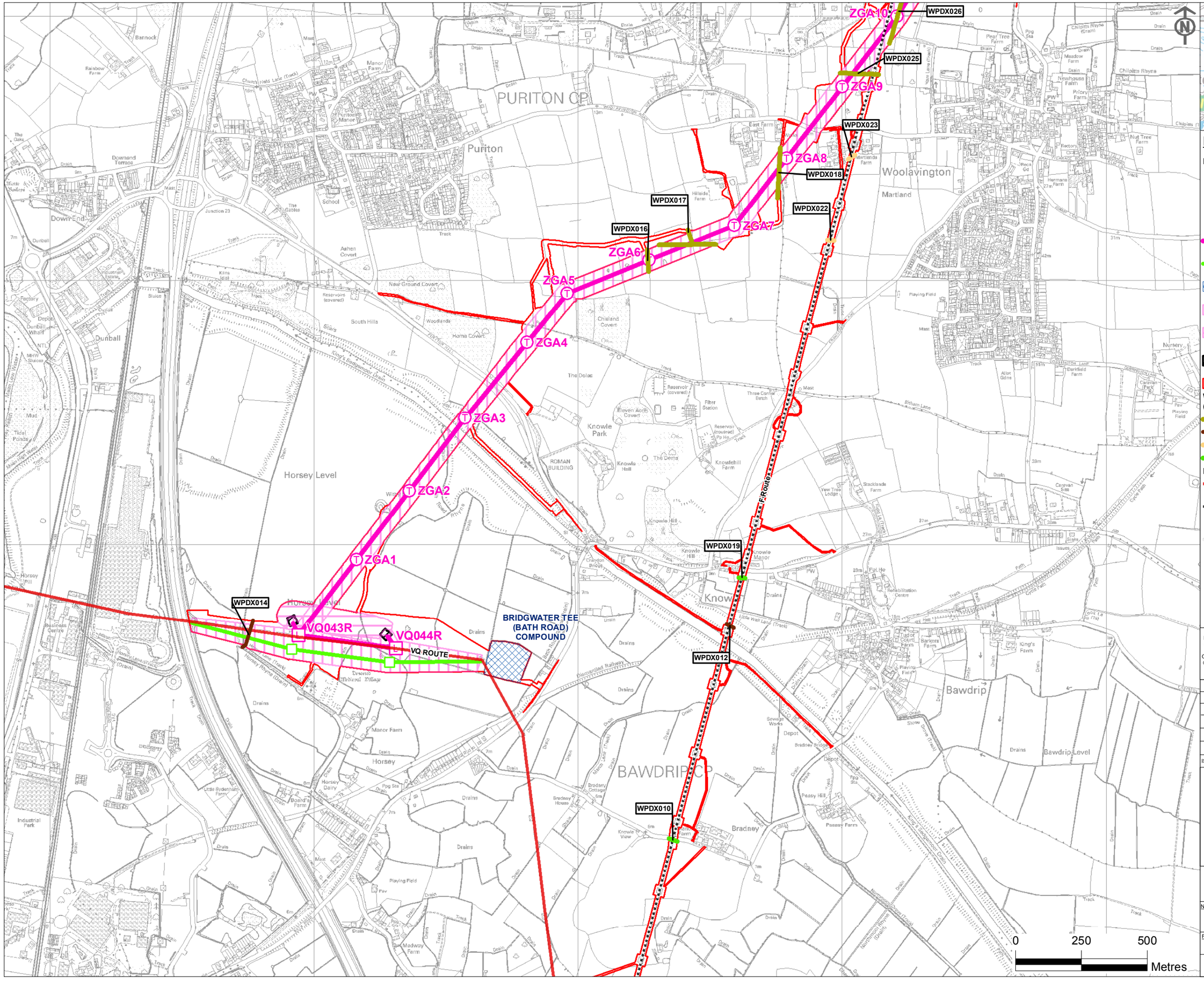

Key

Proposed Infrastructure

- Proposed 400kV Standard Lattice Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for Temporary 275kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 400kV Underground Cable Route LoD
- Proposed Bridgwater Tee 400kV Cable Sealing End Compound Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate
- Protection Methods

Existing Infrastructure

- Existing 275kV Overhead Line
- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
A	06/05/2014	DCO SUBMISSION	JS	DW	BC

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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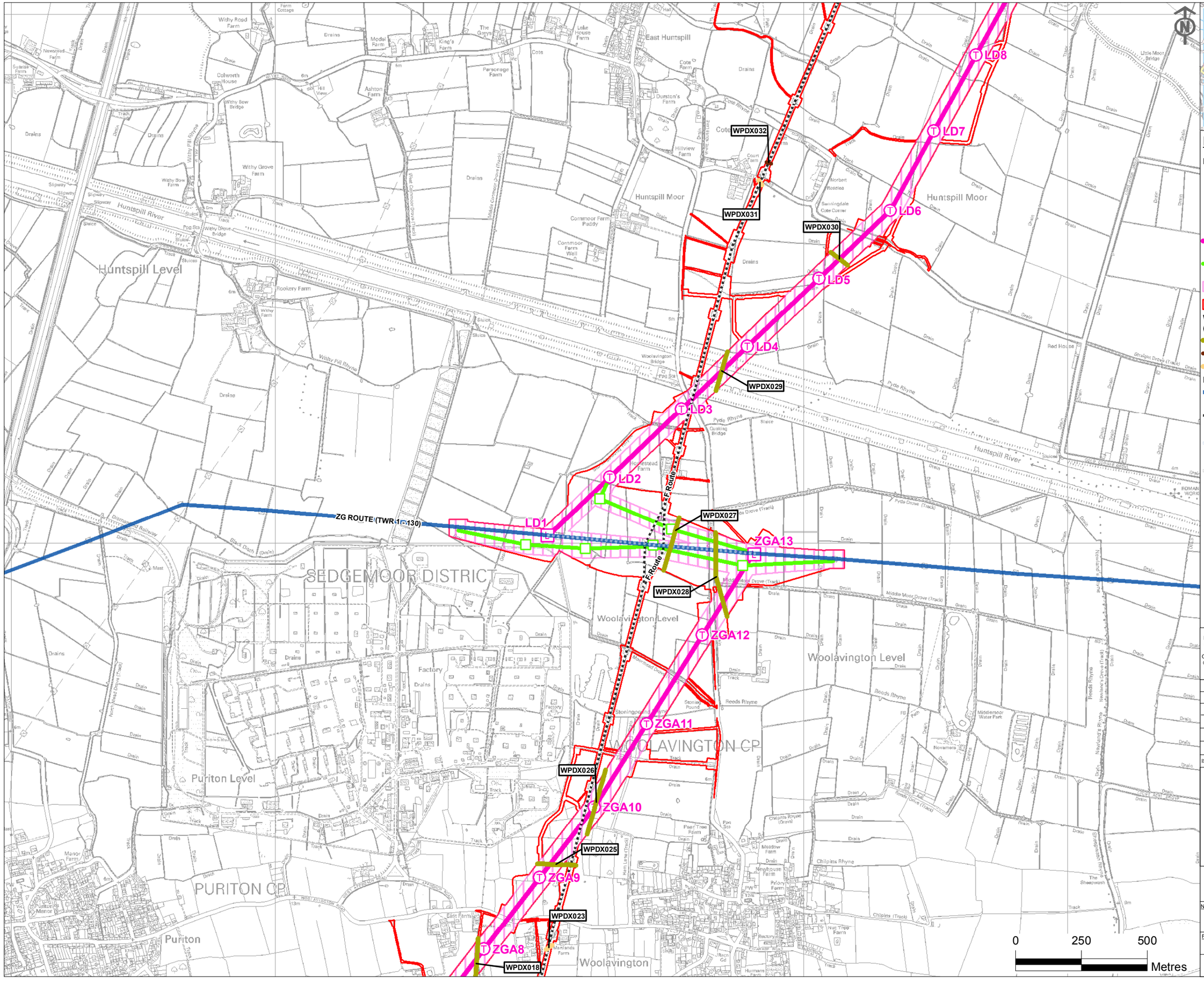

Key

Proposed Infrastructure

- Proposed 400kV Standard Lattice Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for Temporary 400kV Overhead Line
- Proposed 400/132kV Overhead Line Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate

Existing Infrastructure

- Existing 400kV Overhead Line
- Existing Western Power Distribution Overhead Line on Pylons
- Existing 400kV Overhead Line to be Removed
- Existing Western Power Distribution 132kV Overhead Line for Removal

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WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

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NG INVESTMENT No.	APPLICATION No.		GIS
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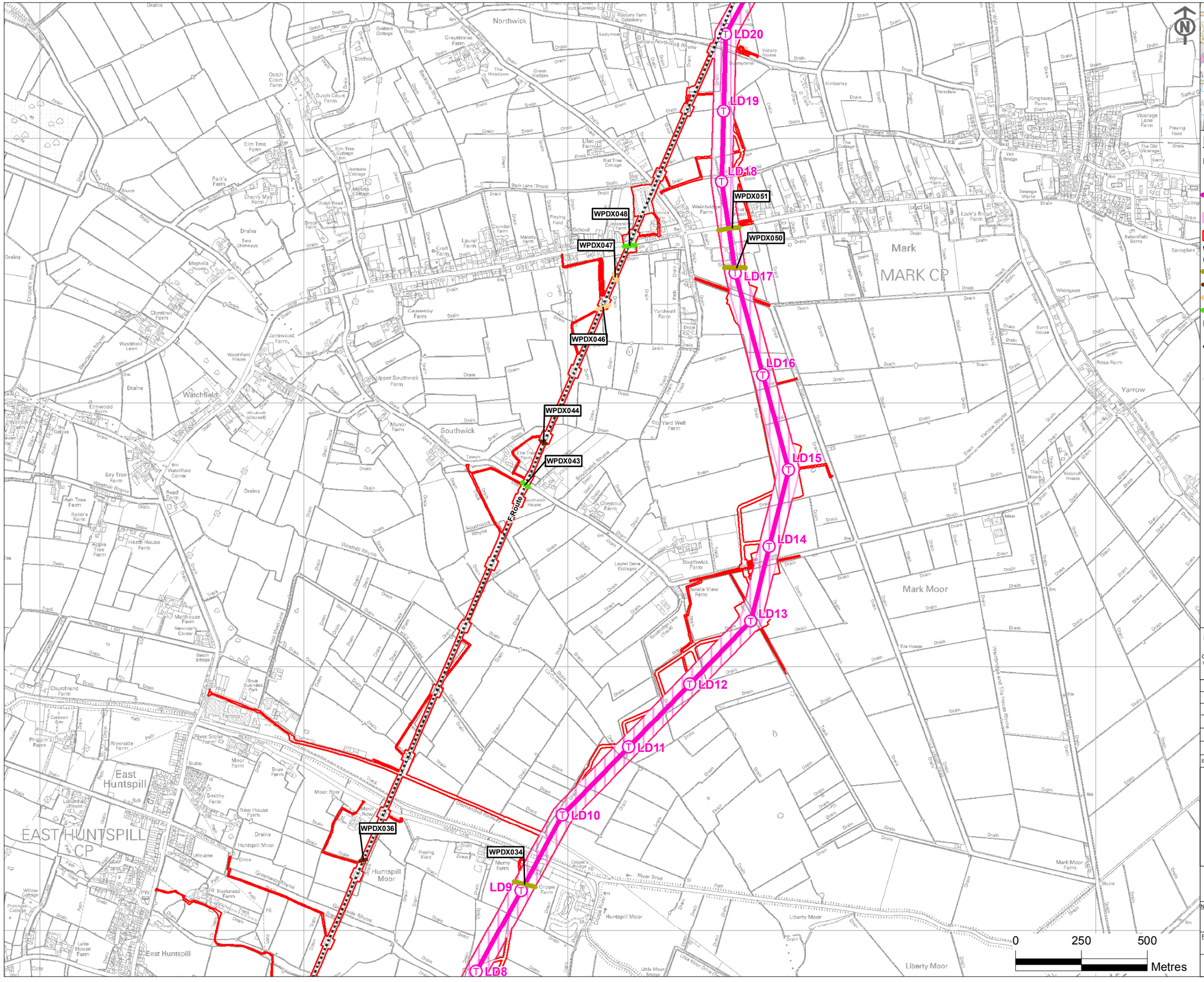

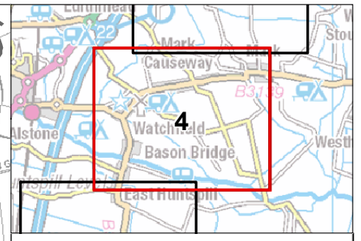

Key

Proposed Infrastructure

- Proposed 400kV T-Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed 400/132kV Overhead Line Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate
- Protection Methods

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

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NG INVESTMENT No.	APPLICATION No.		GIS
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FIGURE No.	DRAWING No.		SCALE
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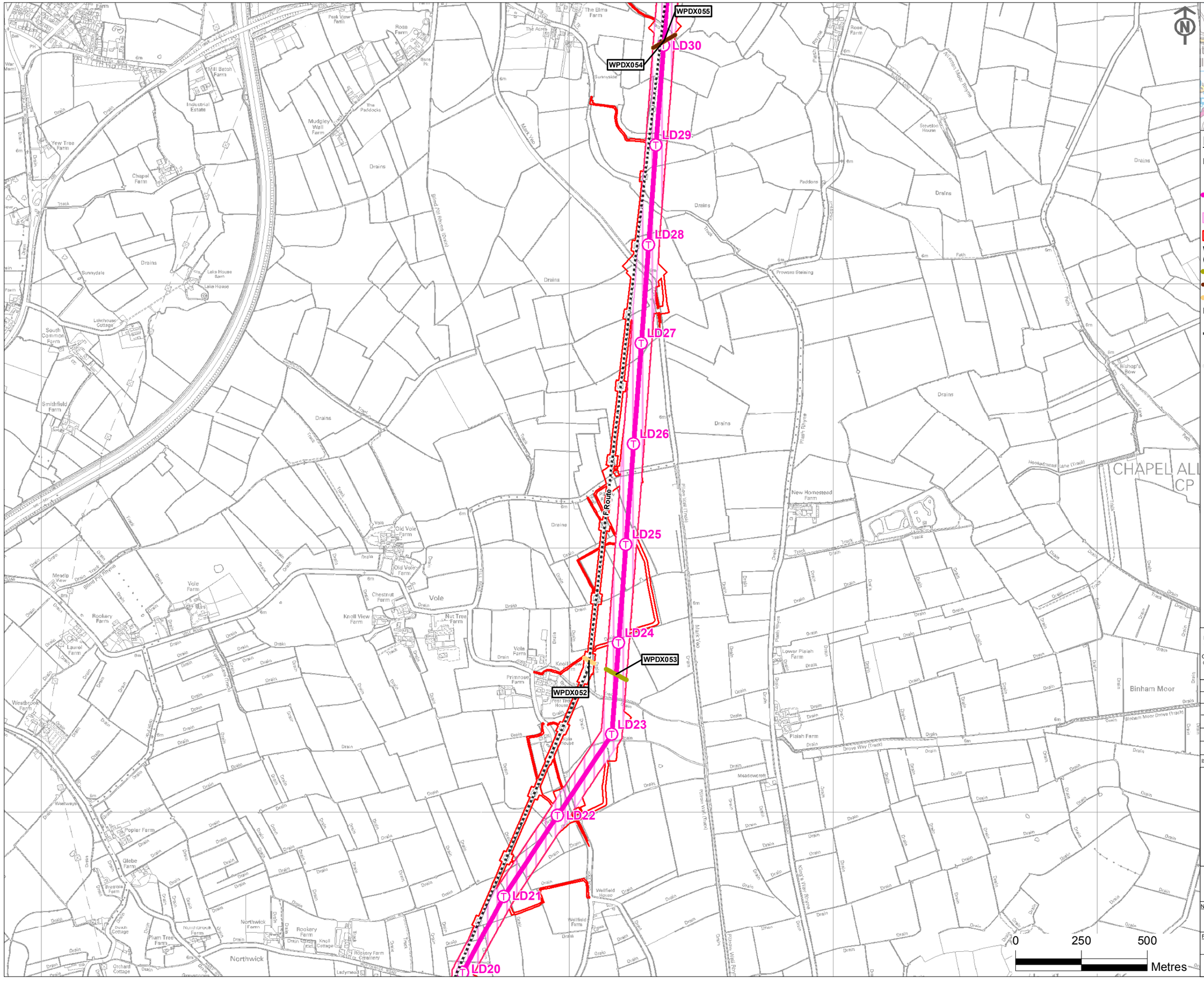

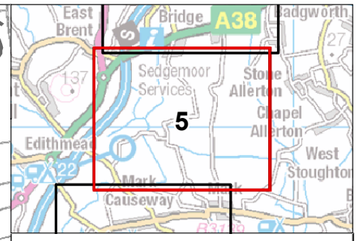

Key

Proposed Infrastructure

- Proposed 400kV T-Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed 400/132kV Overhead Line Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

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nationalgrid

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NG INVESTMENT No.	APPLICATION No.		GIS
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FIGURE No. 17B.1.5	DRAWING No. G1979.2323.5D		SCALE 1:13,000
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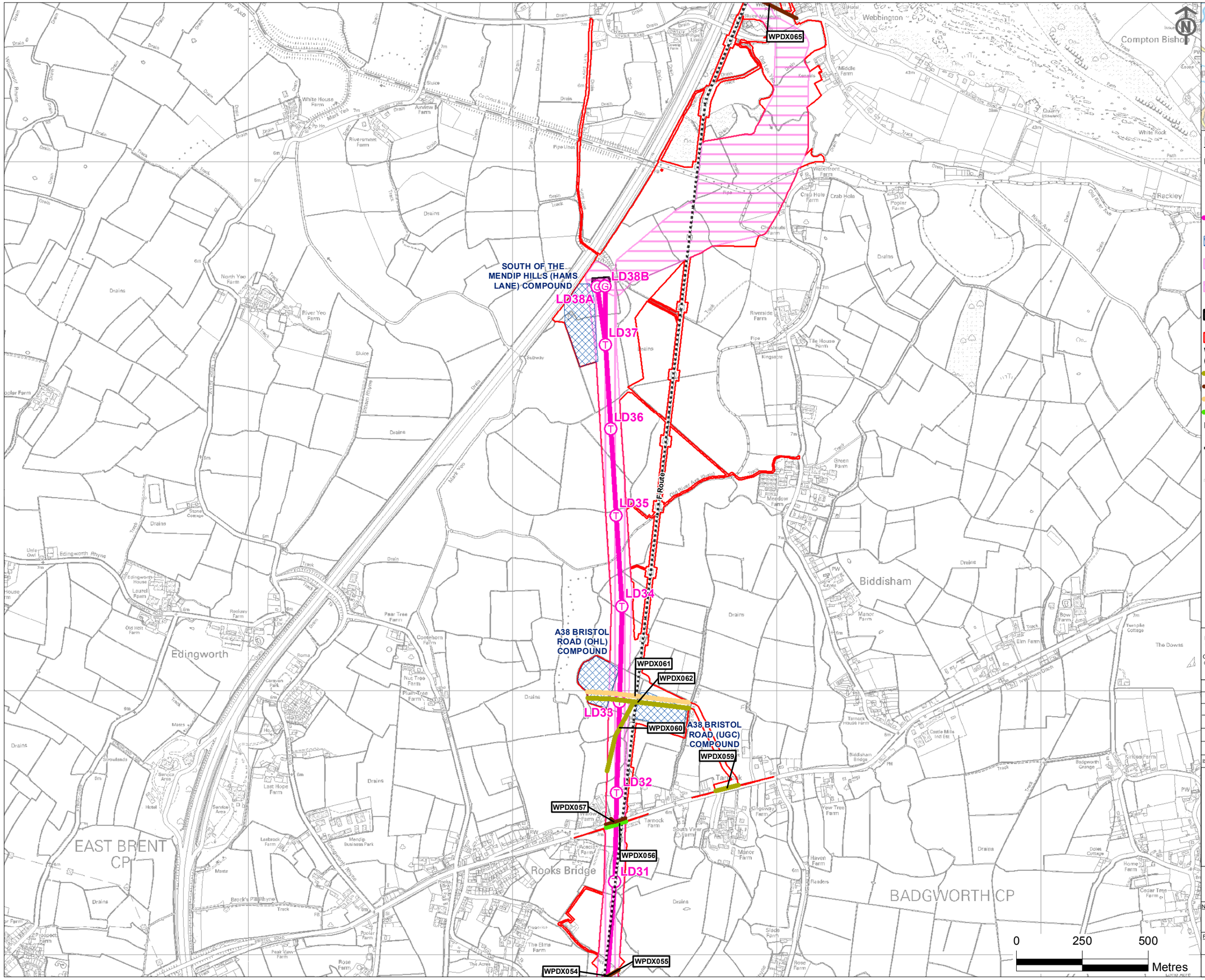

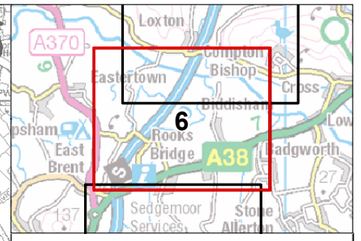

Key

Proposed Infrastructure

- Proposed 400kV "Goalpost" T-Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 400kV Underground Cable Route LoD
- Proposed South of the Mendip Hills 400kV Cable Sealing End Compound Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate
- Protection Methods

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

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WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

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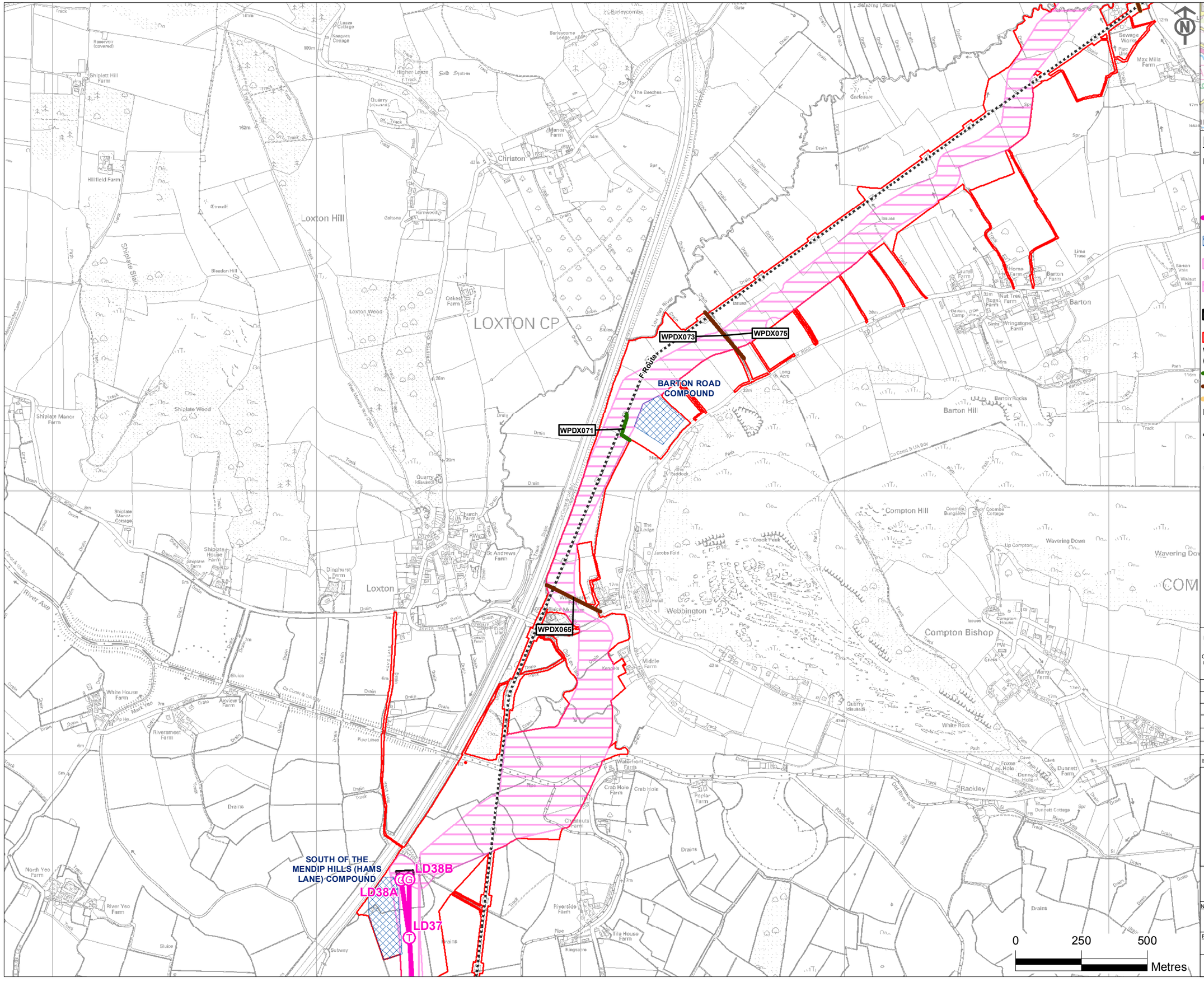

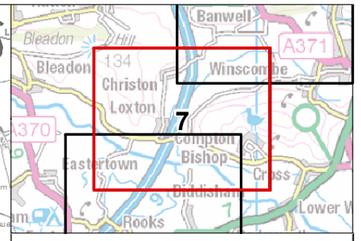

Key

Proposed Infrastructure

- Proposed 400kV "Goalpost" T-Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 400kV Underground Cable Route LoD
- Proposed South of the Mendip Hills 400kV Cable Sealing End Compound Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Removal
- Temporary Undergrounding
- De-energise/Isolate

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
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WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

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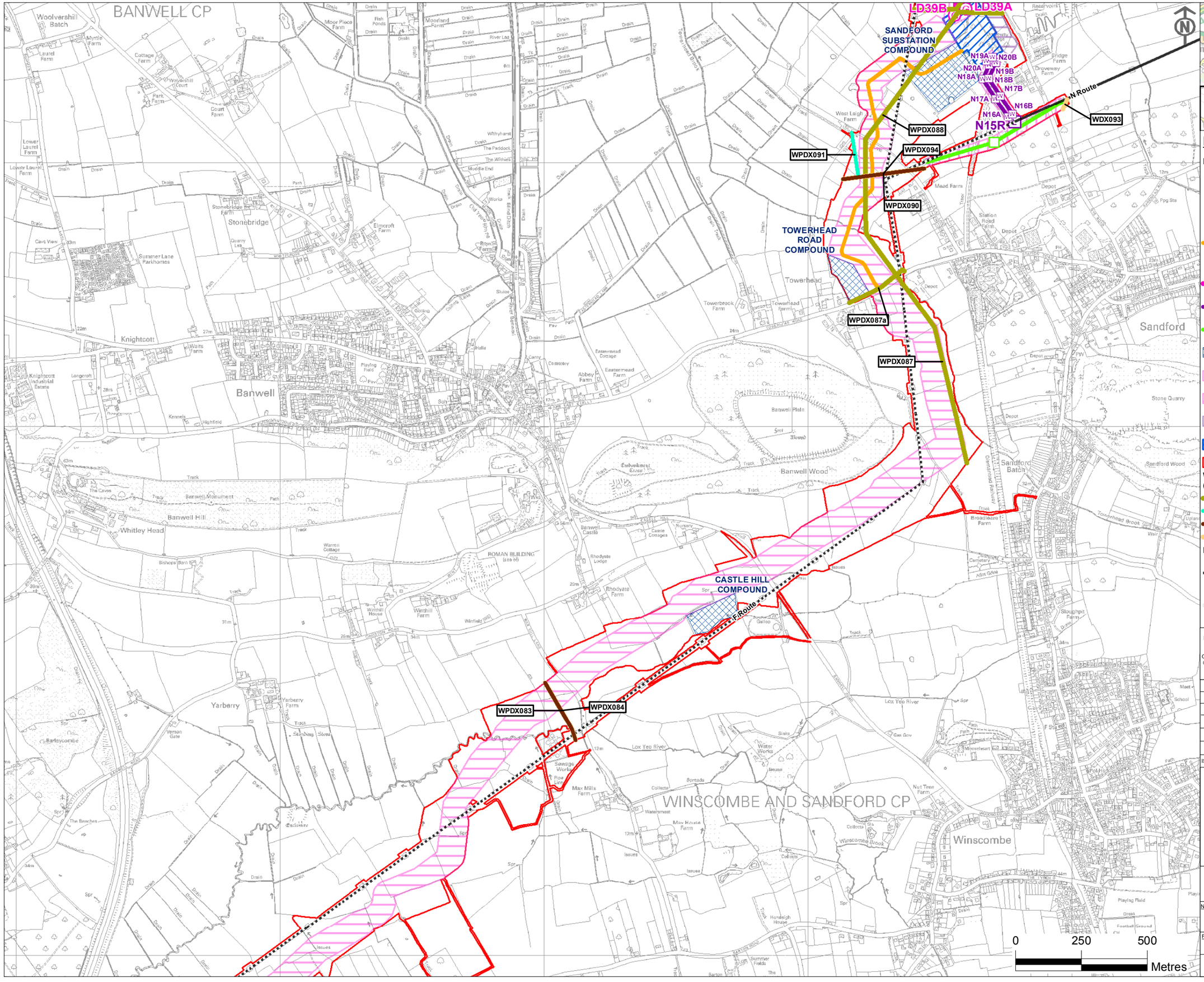

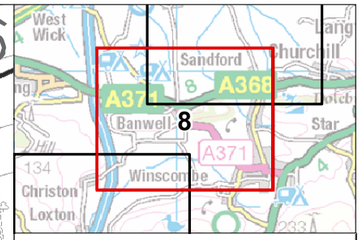

Key

Proposed Infrastructure

- Proposed 400kV "Goalpost" T-Pylon Position
- Proposed 132kV Standard Lattice Pylon Position
- Proposed 132kV Wood Pole Pylon Position
- Semi-Permanent Access Road
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for 132kV Overhead Line
- Proposed Route for Temporary 132kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 400kV Underground Cable Route LoD
- Proposed 132kV Underground Cable Route LoD
- Proposed Sandford 400/132kV Substation Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Diversion
- Temporary Undergrounding
- De-energise/Isolate

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
A	06/05/2014	DCO SUBMISSION	JS	DW	BC

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.		SCALE
17B.1.8	G1979.2323.8D		1:13,000
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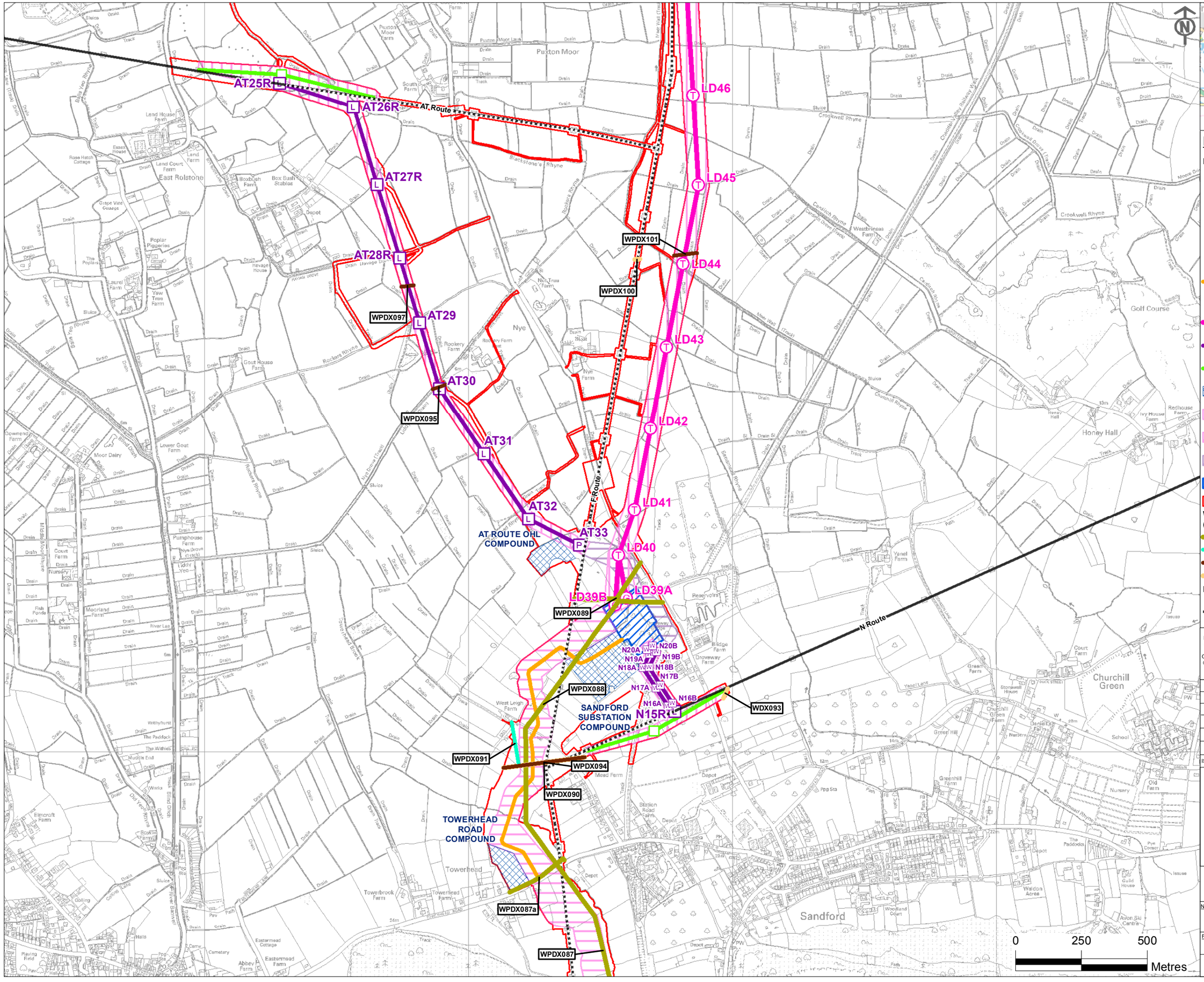

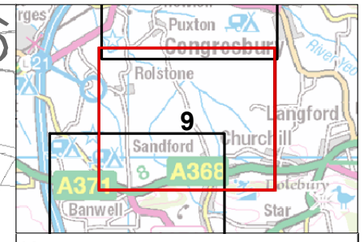

Key

Proposed Infrastructure

- Proposed 400kV "Goalpost" T-Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed 132kV Lattice Platform Pylon Position
- Proposed 132kV Standard Lattice Pylon Position
- Proposed 132kV Wood Pole Pylon Position
- Semi-Permanent Access Road
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for 132kV Overhead Line
- Proposed Route for Temporary 132kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 400kV Underground Cable Route LoD
- Proposed 132kV Underground Cable Route LoD
- Proposed Sandford 400/132kV Substation Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Diversion
- Temporary Undergrounding
- De-energise/Isolate

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
A	06/05/2014	DCO SUBMISSION	JS	DW	BC

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

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NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.		SCALE
17B.1.9	G1979.2323.9D		1:13,000
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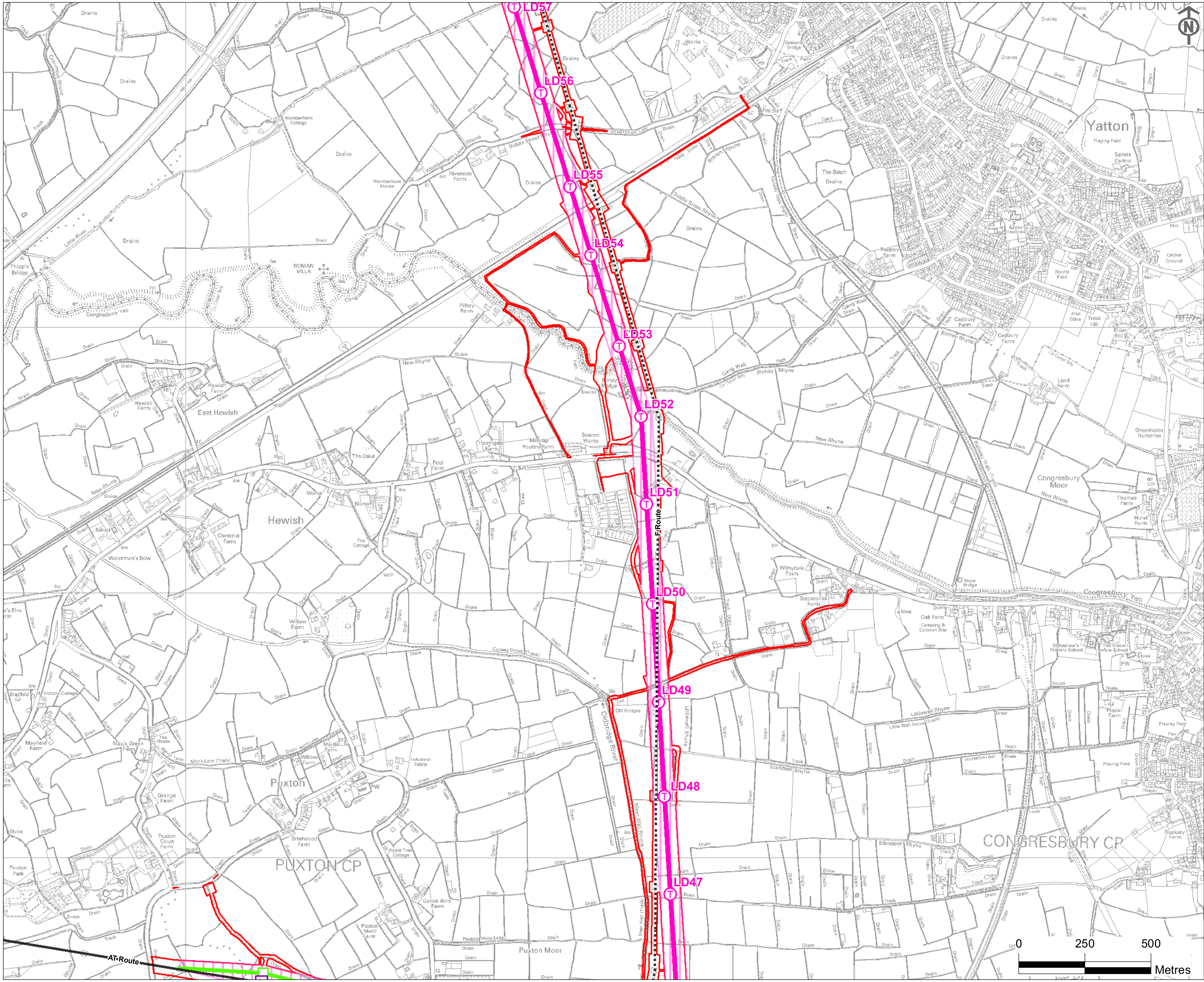

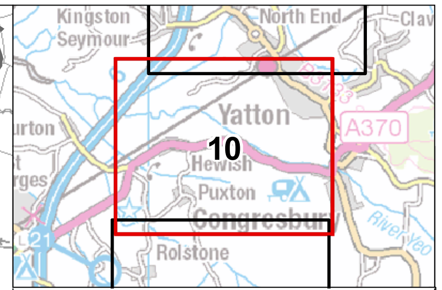

Key

Proposed Infrastructure

- Proposed 400kV T-Pylon Position
- Proposed 132kV Standard Lattice Pylon Position
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for Temporary 132kV Overhead Line
- Proposed 400/132kV Overhead Line Route LoD
- Order Limits

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
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nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.	GIS
20897	EN020001	A3
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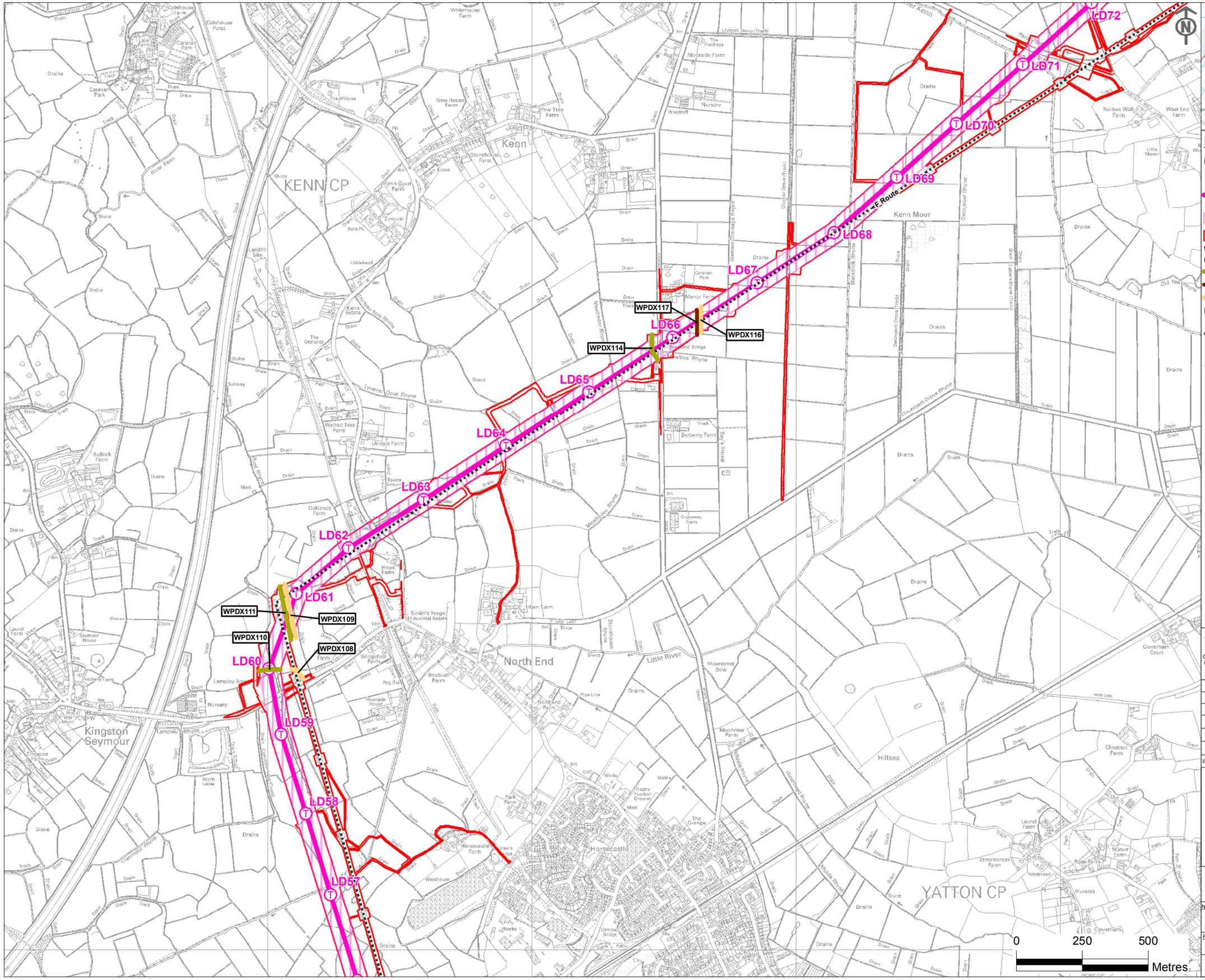

Key

Proposed Infrastructure

- Proposed 400kV T-Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed 400/132kV Overhead Line Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
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Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
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WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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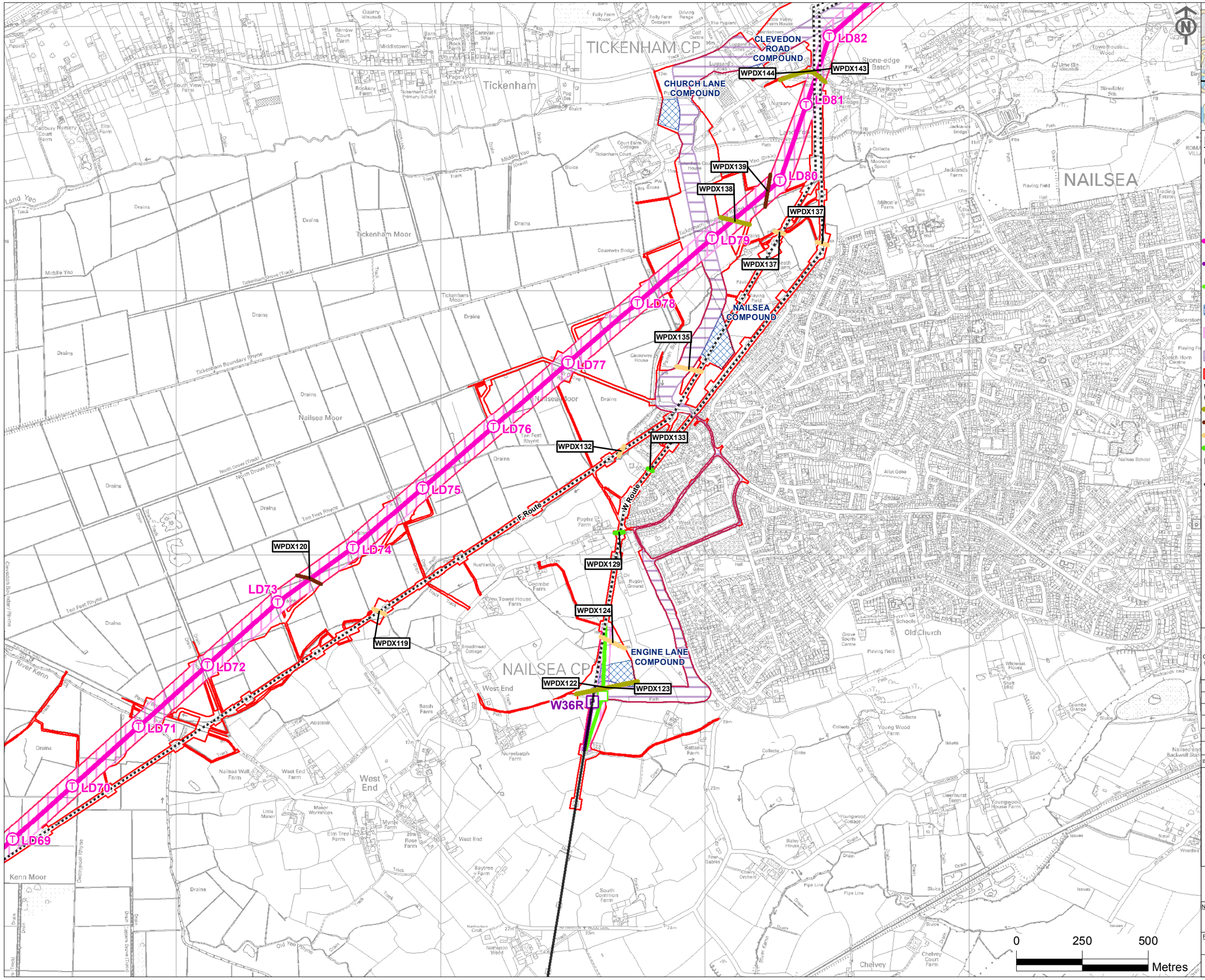

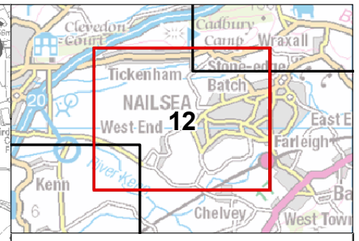

Key

Proposed Infrastructure

- Proposed 400kV T-Pylon Position
- Proposed 132kV Lattice Platform Pylon Position
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for 132kV Overhead Line
- Proposed Route for Temporary 132kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 132kV Underground Cable Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Temporary Undergrounding
- De-energise/Isolate
- Protection Methods

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

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A	06/05/2014	DCO SUBMISSION	JS	DW	BC

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

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NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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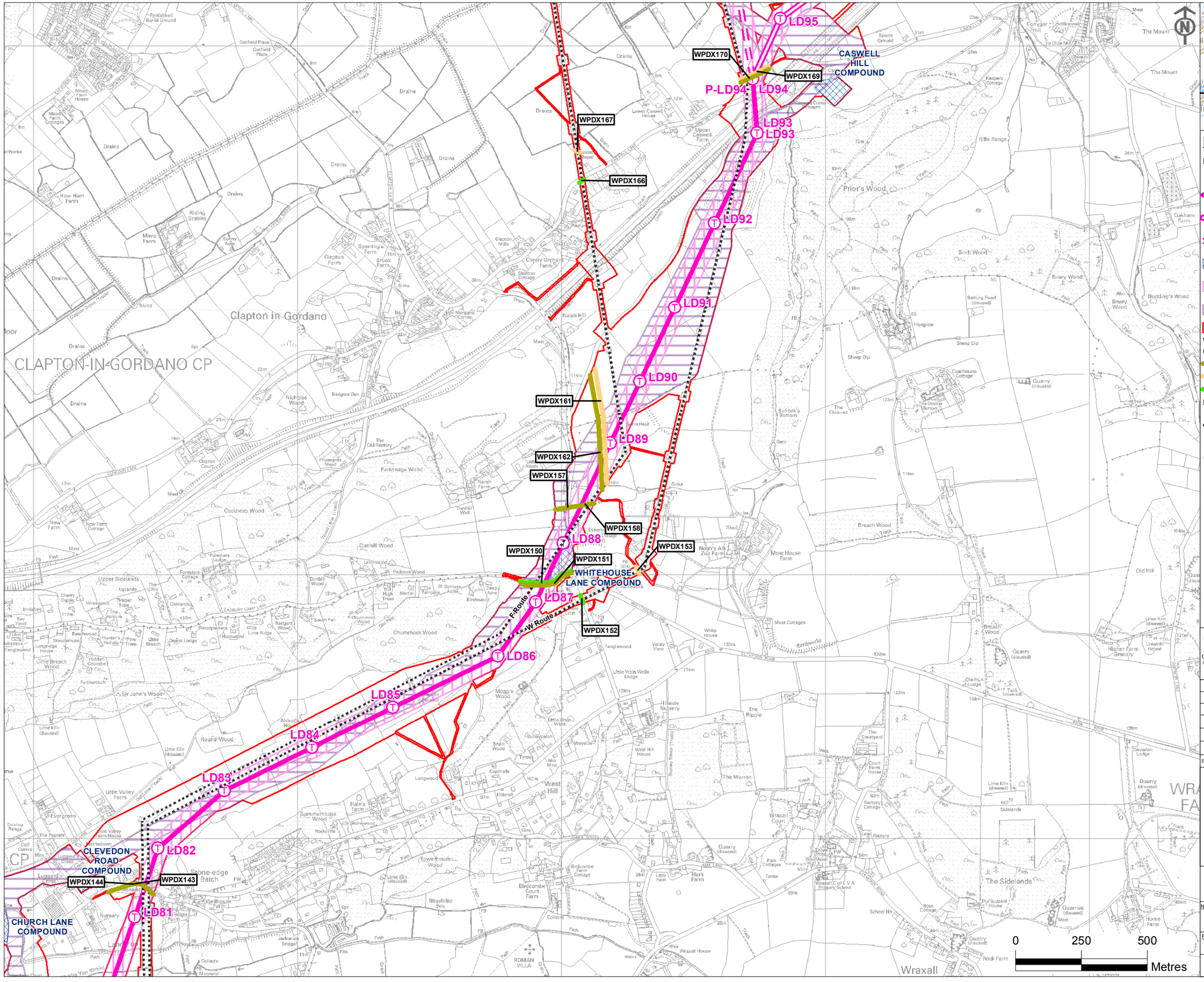

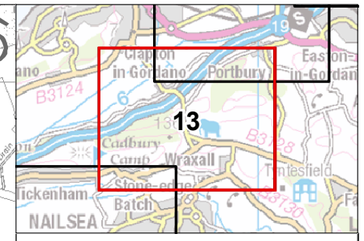

Key

Proposed Infrastructure

- Proposed 400kV T-Pylon Position
- Proposed Route for 400kV Overhead Line
- Preferred Route (Option A) for 400kV Overhead Line
- Alternative Route (Option B) for 400kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 132kV Underground Cable Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- De-energise/Isolate
- Protection Methods

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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17B.1.13	G1979.2323.13D		1:13,000
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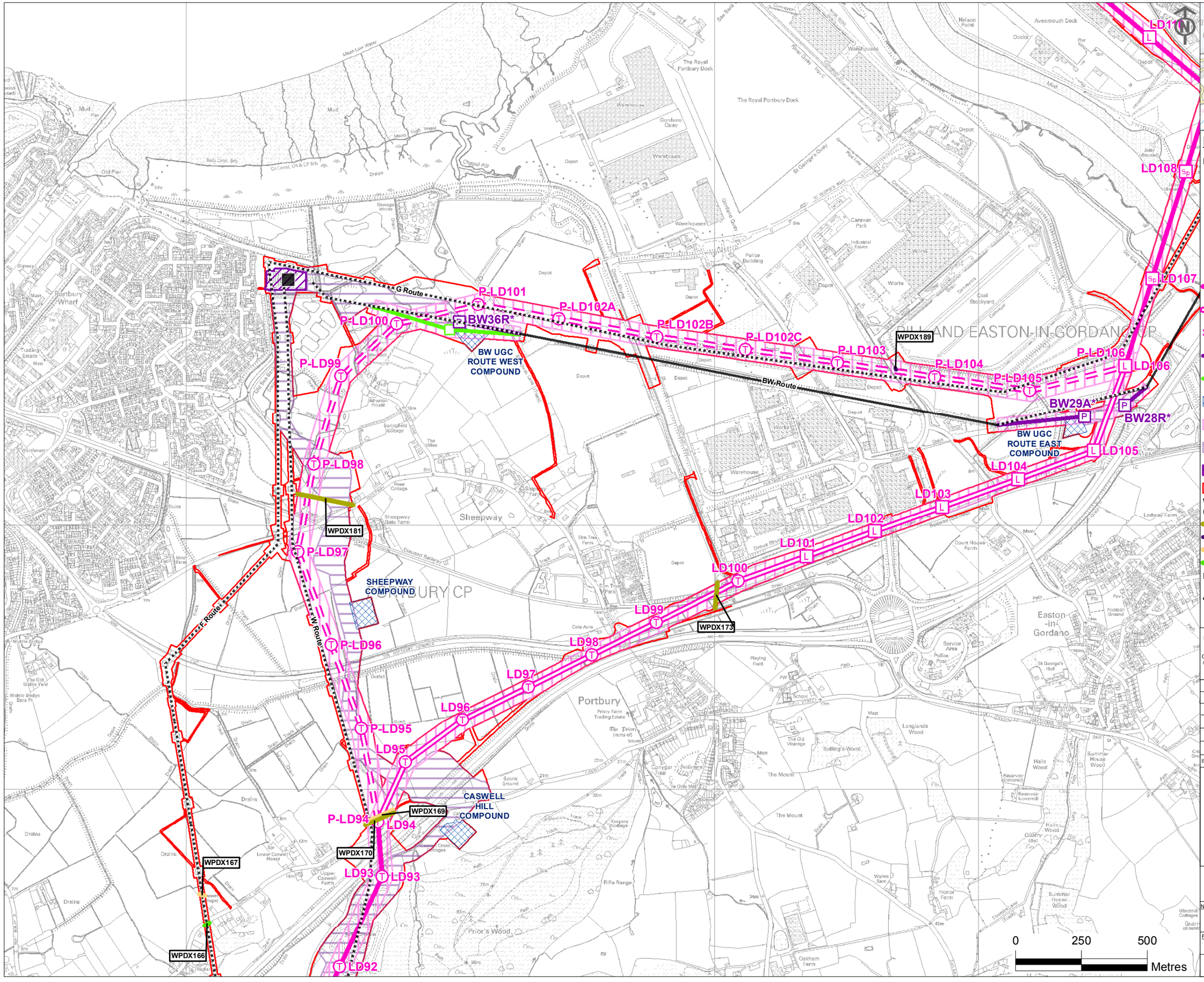

Key

Proposed Infrastructure

- Proposed 400kV (Special) Lattice Pylon Position
- Proposed 400kV Standard Lattice Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed 132kV Lattice Platform Pylon Position
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Preferred Route (Option A) for 400kV Overhead Line
- Alternative Route (Option B) for 400kV Overhead Line
- Proposed Route for 132kV Overhead Line
- Proposed Route for Temporary 132kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 132kV Underground Cable Route LoD
- Proposed Portishead 132kV Substation Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Relocation
- De-energise/Isolate
- Protection Methods

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power

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NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
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nationalgrid
National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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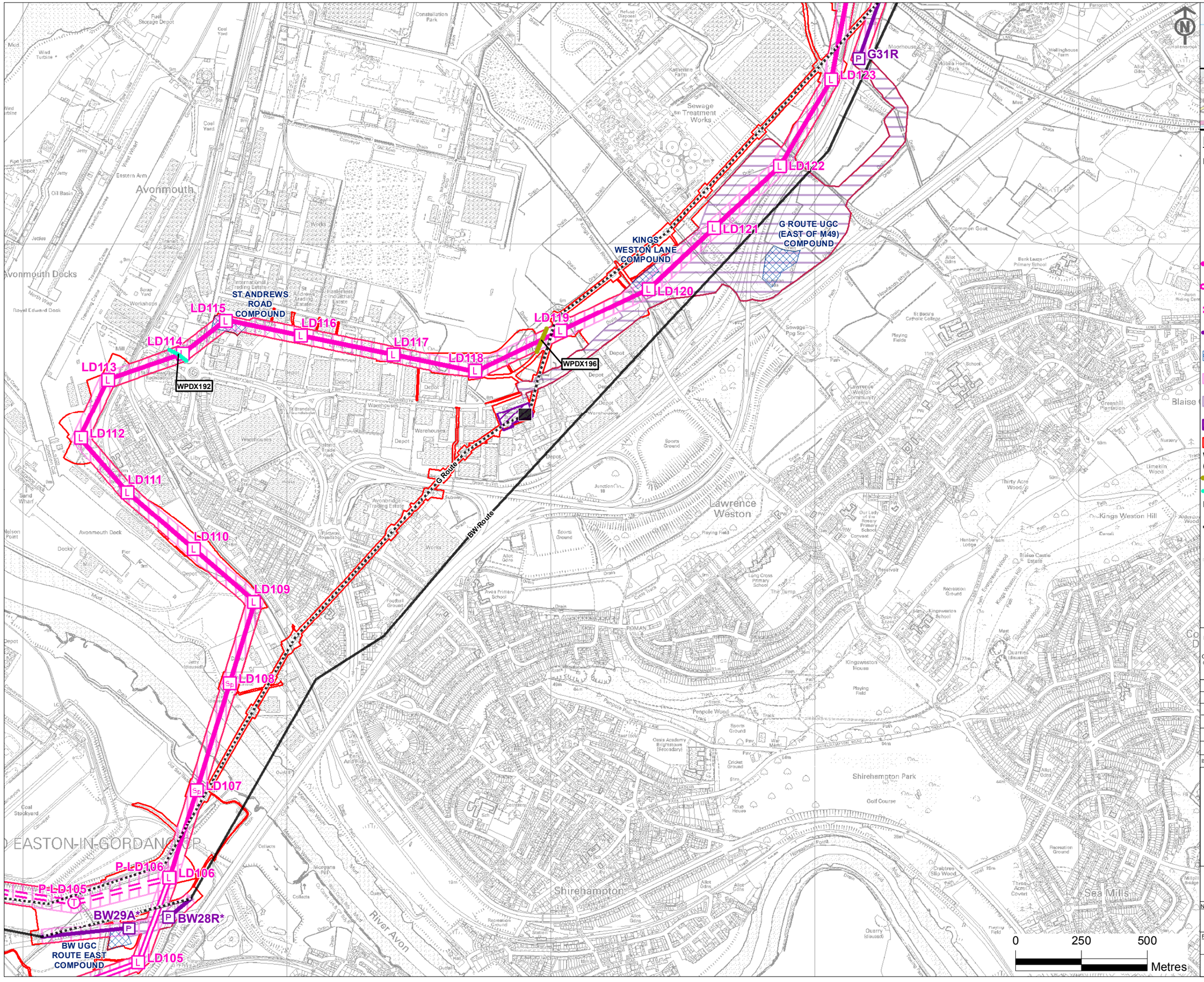

Key

Proposed Infrastructure

- Proposed 400kV (Special) Lattice Pylon Position
- Proposed 400kV Standard Lattice Pylon Position
- Proposed 400kV T-Pylon Position
- Proposed 132kV Lattice Platform Pylon Position
- Proposed Route for 400kV Overhead Line
- Preferred Route (Option A) for 400kV Overhead Line
- Alternative Route (Option B) for 400kV Overhead Line
- Proposed Route for 132kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 132kV Underground Cable Route LoD
- Proposed Avonmouth 132kV Substation Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Diversion

Existing Infrastructure

- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal
- Existing Substation

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
A	06/05/2014	DCO SUBMISSION	JS	DW	BC

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
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WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

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National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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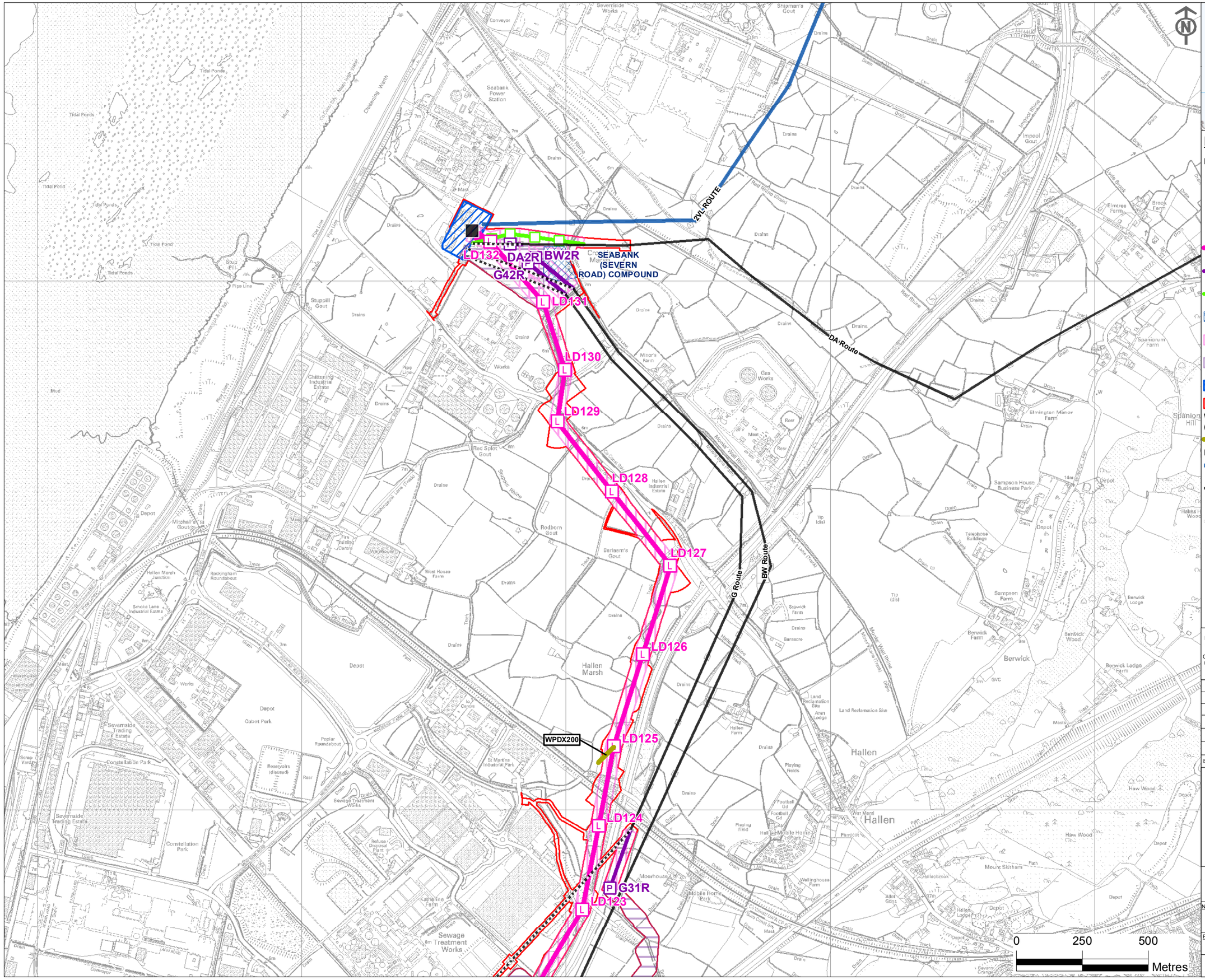

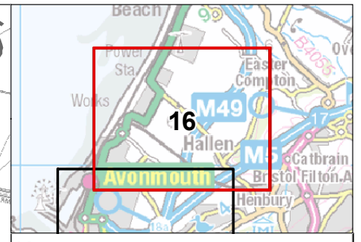

Key

Proposed Infrastructure

- Proposed 400kV Standard Lattice Pylon Position
- Proposed 132kV Lattice Platform Pylon Position
- Proposed Temporary Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed Route for 132kV Overhead Line
- Proposed Route for Temporary 132kV Overhead Line
- Proposed Compound / Laydown Area
- Proposed 400/132kV Overhead Line Route LoD
- Proposed 132kV Underground Cable Route LoD
- Proposed Seabank 400/132kV Substation Work Area
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding

Existing Infrastructure

- Existing 400kV Overhead Line
- Existing Western Power Distribution Overhead Line on Pylons
- Existing Western Power Distribution 132kV Overhead Line for Removal
- Existing Substation

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
A	06/05/2014	DCO SUBMISSION	JS	DW	BC

Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT)
ENVIRONMENTAL STATEMENT
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nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
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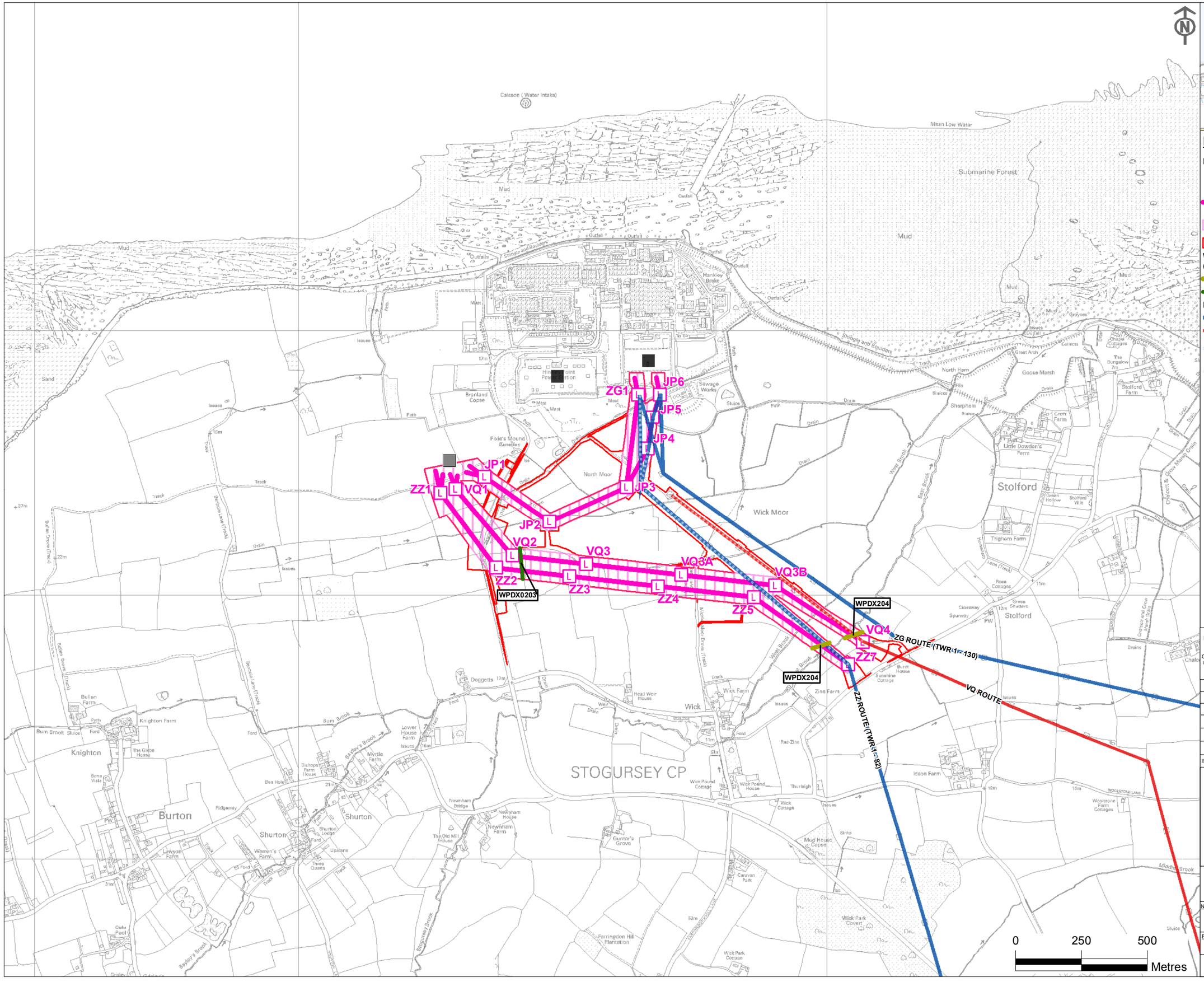

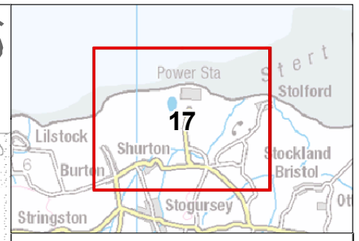

Key

Proposed Infrastructure

- Proposed 400kV Standard Lattice Pylon Position
- Proposed Route for 400kV Overhead Line
- Proposed 400/132kV Overhead Line Route LoD
- Order Limits

Western Power Distribution (WPD) Crossing Works

- Permanent Undergrounding
- Removal

Existing Infrastructure

- Existing 400kV Overhead Line
- Existing 275kV Overhead Line
- Existing 400kV Overhead Line to be Removed
- Existing 275kV Overhead Line to be Removed
- Existing Substation

ISSUE	DATE	COMMENTS	DRAW	CHK'D	APP'D
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Title

NATIONAL GRID (HINKLEY POINT C CONNECTION PROJECT) ENVIRONMENTAL STATEMENT VOLUME 5.17.2

WESTERN POWER DISTRIBUTION (WPD) CROSSING WORKS

nationalgrid

National Grid plc, Warwick Technology Park, Gallows Hill, Warwick, CV34 6DA

NG INVESTMENT No.	APPLICATION No.		GIS
20897	EN020001		A3
FIGURE No.	DRAWING No.		SCALE
17B.1.17	G1979.2323.17D		1:13,000
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Appendix 17C – Cumulative Assessment – Other Major Development Proposals Indicative Programmes

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
1		**Bridgwater Gateway Ltd** Outline planning application for mixed use development to include: employment floorspace (Use Class B1), hotel (Use Class C1), petrol filling station (Sui Generis); strategic landscaping, infrastructure including internal roads, drainage, car parking; and including detailed drawings for a new vehicular and pedestrian access on to the A38	Unknown	Unknown
2	1	**Junction 24, M5** **Hinkley Point C Associated Development** - Park and ride facility - Freight management facility and parking - Temporary consolidation facility for postal courier deliveries until J23 available Internal roads, landscaping and ancillary development	2014 (date unspecified)	2014/15 (6 month construction estimate with unspecified start date)
3	2	**Persimmon Homes Ltd** Areas 1 + 6 Stockmoor Village, Taunton Road, Petherton, Bridgwater	Unknown	Unknown
4	3	**Bloor Homes Ltd** Land to the East of Shortlands Farm and, to the North of Wilstock Farm (Area 3), Rhode, Bridgwater, TA6 6AB Up to 330 dwellings with associated landscaping, amenity space and highways and diversion of a Right of Way	Unknown	Unknown
5	4	**Bloor Homes Ltd** Land to the South of Bridgwater, between Willstock Farm and, Rhode Lane, Bridgwater Erection for 146 dwellings, garages, parking spaces and ancillary works. Amended plans received 6 June 2011, amendments to plots 237 - 286	Unknown	Unknown
6	5	**National Grid** Bridgwater substation (two new 400kV Super Grid Transformers (SGT's) replacing 275kV SGT's and line entry changes	04/09/2017	31/10/18
7	6	**National Grid** Uprating of Bridgwater to Hinkley overhead line from 275kV to 400kV	2018/2019	Unknown timeframe
8		**Somerset Primary Care Trust** Land at Bower Lane, East Bower, Bridgwater, TA6 4UB Reserved Matter: Erection of a hospital with associated access, car parking, landscaping and engineering works	Unknown	Summer 2014
9	7	**Bridgwater Accomodation Campus A and C** **Hinkley Point C Associated Development** -Part of the accomodation strategy to house workers. -Bridgwater A - 25 buildings to house 850 workers with car parking, football pitches and amenities (Source: Hinkley C Planning Statement Appendix A7) On former brownfield land -Bridgwater C - Accomodation campus for 150 occupants in 4 buildings including car parking and 5 a side football pitch	Bridgwater A - 2014 (date unknown)	Bridgwater A - 2017 (27 month construction period)
10	8	**Hallam Land Management** **North East Bridgwater Development** Outline Planning Permission for up to 2000 residential dwellings, commercial services centre comprising 1200 m2 of retail (A1, A2, A5) leisure (A3, A4) Community Facilities (D1), residential and or B1 employment development, Primary school, up to 110,000m2 of employment development (B1, B2, B8), Sui generis trade units and car showrooms	2019 - ES states full scheme will be under construction or constructed by 2019	Unknown
11	9	**Cannington Enterprises LTD** Construction of Lagoon for the Storage of Digestate for Agricultural Purposes, Creation of Hardstanding and Retention of Pond	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
12	10	**Mr A Denning** [redacted] Erection of 2, 5kW wind turbines mounted on 15 metre high towers.	Unknown	Unknown
13		**Roselea Properties LLP** Reserved matters application linked to Outline Planning Permission 09/11/00004 Erection of industrial unit (use class B8) with ancillary offices (Class B1) amendments to the layout of Units G13 and G14 associated access, car parking and on-site landscaping works	Unknown	Unknown
14	11	**Junction 23 M5** **Hinkley Point C Associated Development** - Park and Ride Facility for 1300 vehicles - Freight Management Facility including hardstanding for 85 HGV's and ancilliary buildings	2014	2015 (12 month construction period with allowance of + 5 months if any ecological mitigation required)
15		**BNRG Puriton Ltd** Land to the West of, B A E Systems Royal Ordnance Factory Site, Woolavington Road, Puriton, Bridgwater, TA7 8BY Installation of photovoltaic solar park and associated equipment	Unknown	Unknown
16	12	**BAE Systems** **Land at former,Royal Ordnance Factory** Outline application for permission for an Energy Park, with all matters reserved apart from access and full details of a B8 storage building.	2013 (assumed)	2027
17	13	**BAE Systems** Land at, ROF Puriton, Woolavington Road, Puriton, Bridgwater, TA7 8AD Engineering works to facilitate the remediation including earthworks and the demolition of existing buildings	Unknown	Unknown
18	14	**Mr K Gooding** [redacted] Change of use from agriculture to haulage business, including retention of yard, office and toilet buildings, parking of lorries and staff vehicles, storage of portacabins and containers, access and the continued use of workshop and fuel tank for related purposes and retention of lighting	Unknown	Unknown
19	15	**BAE Systems Properties Ltd and Edington Surgery** Land at, Crockers Hill, Woolavington, Bridgwater, TA7 8EE Outline planning application with all matters reserved (except access) for the erection of 45 dwellings, play area, attenuation pond, access road, improvements to Woolavington Road and full planning application for new doctors surgery and associated works	Unknown	Unknown
20	16	**SHAL Housing Ltd** Land to the west of, 17, Higher Road, Woolavington, Bridgwater, TA7 8EA Erection of 16 dwellings including construction of new footpath along Higher Road	Unknown	Unknown
21	17	**Wessex Solar Energy** Land at, Pyde Drove (2), The Causeway, Woolavington, Bridgwater Installation of a solar energy facility utilising solar photovoltaic panels to produce up to 7 megawatts of renewable electricity.	Unknown	Unknown
22	18	**EDF Energy Renewables Ltd** Land at, Withy Farm, Withy Road, East Huntspill, Highbridge Erection of five turbine wind farm	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
23	19	**Viridor Waste Management Ltd** Walpole Landfill Site, Puriton Road, Pawlett, BRIDGWATER, Somerset, TA9 3NL (1/41/11/012) S.73 Application to Undertake Construction and Use of Proposed Anaerobic Digestion Development without compliance with Condition 3 of Permission No 1/41/08/014 (dated 28 October 2008) to allow changes to the site layout and buildings (1/41/11/011) Extension of period for the Implementation of Planning Permission no 1/41/08/014 for the Construction of Buildings and Storage Tanks for the Purposes of Anaerobic Digestion of Source Separated Organic Waste USE OF LAND AND CONSTRUCTION OF BUILDINGS AND STORAGE TANKS FOR THE PURPOSES OF ANAEROBIC DIGESTION OF SOURCE SEPARATED ORGANIC WASTE	1/41/11/012 - Unknown 1/41/11/011 - Planning condition states construction must commence by 28/10/2013	Unknown Unknown
24	20	**Next Generation Ltd** Land to the south of, Poplar Farm, Puriton Road, West Huntspill, Highbridge A wind energy development comprising the erection of four wind turbines, each with a maximum overall height of up to 120m together with access tracks, hard standing areas, information board, electricity sub-station, temporary construction compound and amended vehicular access	Unknown - construction period identified as 27 months.	Unknown
25	21	**Broadview Energy Limited** **Land to the east of the M5, and south of A38, Bristol Road, Rooksbridge, Axbridge, BS26 2TQ** Erection of four wind turbines, access tracks, hardstanding areas, anemometry mast, transformers/switchgear kiosks, control building, cabling and temporary construction compound	Unknown - construction period identified as 6 months.	Unknown
26	22	**Bristol Water** Cheddar Reservoir 2 Detailed application for construction of reservoir including erection of two water pumping stations, ecological and infrastructure works, car parking and access, demolition of two residential properties and associated temporary construction works; Outline Application for development including the erection of visitors centre (use class D1 with ancillary A1, A3 and A5 uses) and associated landscaping, inlet and draw-off towers, replacement footbridge and works to River Cheddar Yeo.	2016	2025
27	23	**Aggregate Industries UK Ltd** Callow Rock Quarry, Shipham Gorge, Cheddar, BS27 3DQ Small scale 1.5ha Extension to the Quarry at Mid Depth	02/10/2013 - planning permission approved, quarrying can commence	21/02/2042 - planning permission expires, quarrying (extraction) must cease
28	24	**Persimmon Homes Ltd** **Weston Park, Former Weston Airfield** Outline Planning with Details of Access for a large scale mixed use development comprising 900 dwellings	Phased development over 10 years estimated start - 2011 (note: planning permission only approved 10/08/2012	2021
29	25	**Homes & Communities Agency and St Modwen Developments Ltd** Locking Parklands (Former RAF Locking) Locking Moor Road Locking Outline application with Environmental Impact assessment for large scale major mixed use residential, employment, education and infrastructure development to include up to 1200no. residential dwellings (excludes 250 dwellings consented under phases 1&2);	Unknown	Unknown
30	26	**Mead Realisations Ltd for the Manor Farm Consortium** Land South of Churchland Way, Wolvershill Road Banwell Weston-super-Mare Outline application and Environmental Impact Assessment with all matters reserved except for main accesses off Wolvershill Road and Churchland Way, for a mixed use development comprising: Residential: 1,150 residential dwellings, a 60 bed care home	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
31	27	**Green Switch Solutions LTD** Land to West of Silver Moon Lane, Banwell/Hewish Solar Development 2MW	Unknown	Unknown
32		**TGC Renewables** Land to north of Towerhead Road Banwell Screening opinion as to whether an Environmental Impact Assessment is required to be submitted with a planning application for a proposed solar farm development. THIS NOT A PLANNING APPLICATION	Unknown	Unknown
33	28	**Thatchers Cider Co Ltd** Myrtle Farm Station Road Sandford Winscombe BS25 5RA Erection of a new packaging facility (Jubilee building).	Unknown	Unknown
34	29	**WPD** Reconductoring the 132kV N Route. The Bridgwater to Churchill substation circuit of the N Route will be reconductored.	11/07/2016	17/10/2016
35	30	**Green Energy UK Direct LTD** Churchill Park, Ladymead Lane, Langford/Churchill Solar Development 2MW	Unknown	Unknown
36		**Green Energy Direct** Land at Fenswood Farm, Says Lane, Langford, Churchill, BS40 5DZ Screening opinion as to whether an Environmental Impact Assessment is required to be submitted with a planning application for a solar farm	Unknown	Unknown
37	31	**Green Energy UK Direct LTD** Land North of Jubilee Lane, Langford/Churchill Solar Development 2MW	Unknown	Unknown
38		**TGC Renewables** Land to south west of Carditch Drove off Honeyhall Lane, Congresbury, BS49 5JX Screening opinion as to whether an Environmental Impact Assessment is required to be submitted with a planning application for a proposed solar farm development	Unknown	Unknown
39	32	**Lightsource Renewable Limited** Twin Elm Farm off Stock Lane Congresbury BS49 5JL Installation and operation of a solar farm	Unknown	Unknown
40	33	**Wessex Solar Energy** Land west of Iwood Lane off Stock Lane Congresbury Large scale major development for a Solar PV array Park to produce up to 8 megawatts of electricity from ground mounted panels (max 3m high), 1no control building, 8no inverter buildings and to include a maintenance track with access off Stock Lane EIA Screening EIA Scoping Scoping opinion for requirement for an Environmental Impact Assessment prior to development as a solar energy park THIS IS NOT A PLANNING APPLICATION	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
41	34	**Bristol Airport LTD** Outline app for major development increasing passenger flight numbers at Bristol International Airport including; erection of 2 no. extensions to terminal buildings, erection of 2 no. two storey walkways providing access and associated facilities to 3 no. two storey piers serving 18 no. aircraft stands, 9 no. new aircraft stands, erection of 2 no. multi storey car parks comprising 4 and 5 storeys north of terminal building providing 3850 spaces. Transport interchange, erection of 3 storey admin building following demolition of existing, underground fuel storage facility, erection of 2 storey building for landside services, replacement buildings, runway and taxi alterations, car park upgrades, erection of 5m high noise reduction wall and 3m high acoustic fence, 12 no. 5m high wind turbines	2011 (phased development)	2019
42	35	**BNRG** Land off Dolemoor Lane to west of Shepstone Farm Congresbury Environmental Impact Assessment Screening Opinion for a photovoltaic park at a site south of Dolemoor Lane. THIS IS NOT A PLANNING APPLICATION	Unknown	Unknown
43	36	**Mr M Dew** Land off Puxton Lane Hewish Puxton BS24 6TA Screening opinion as to whether an Environmental Impact Assessment is required to be submitted with a planning application for the siting of circa 22,000 solar panels and small substation. THIS NOT A PLANNING APPLICATION	Unknown	Unknown
44	37	**Smart Systems LTD** Smart Systems Ltd Land off Wemberham Lane Yatton BS49 4QN Erection of new industrial building with associated hardstanding service yard and parking. Erection of wind turbine. Construction of balancing lagoon	Unknown	Unknown
45	38	**Smart Systems LTD** Smart Systems Ltd, Land off Wemberham Lane Yatton BS49 4QN Extension to existing warehouse and offices to accommodate manufacture and powder coating of aluminum products. External ancillary yard storage and parking provision	Constructed and operational apart from Wind Turbine. Wind Turbine construction unknown	Unknown
46		**Bloor Homes South West** Land off Arnolds Way Yatton Outline application for Residential development of up to 150 dwellings, 0.46ha of employment land (use class B1), pedestrian/cyclepath, new accesses, landscaping, open space and all associated infrastructure with appearance, landscaping, layout and scale	Unknown	Unknown
47	39	Nailsea Emerging Sties and Policies Development Plan Document Mixed Use Site DM51, NA2 Land at North West Nailsea. New allocation for mixed use site; 1.5ha office employment, 2.5ha open space and 450 dwellings subject to location of pylons.	Unknown	Unknown
48	40	**Green Energy UK Direct LTD** Land at Clapton Farm, Clapton in Gordano Solar Development 7.8MW	Unknown	Unknown
49	41	**Green Energy UK Direct Ltd** Land north-west of Grange Farm Clapton Court Clevedon Lane Clapton-in-Gordano BS21 6QU Environmental Impact Assessment for 10MW solar PV farm on land north-west of Grange Farm , Clapton Court	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
50	42	**A.P.Burt & Sons Ltd** Land at former Severn Paper Mill, Harbour Road, Portishead, Somerset, BS20 7NJ Outline planning application for the erection of a residential development together with associated access, servicing and ancillary works including demolition of existing premises and with the appearance, layout, scale and landscaping Outline planning application for the erection of an employment development comprising of a B1 office use together with associated access, servicing and ancillary works including demolition of existing premises and with appearance, landscaping, layout and Application to extend the time limit for implementation of outline permission above	Unknown	Unknown
51	43	**EON Energy** Land at Royal Portbury Dock, River Road, Easton-in-Gordano, Somerset Construction of a Biomass-fired renewable energy plant to include boiler house, steam turbine, electrical generator, 2no cooling towers, fuel silos and ancillary plant with output of 150 MW (e)	Unknown	Unknown
52	44	**Siniat Limited** Marsh Lane Easton-in-Gordano BS20 0NF Erection of a processing building, warehouse building, reception hopper and overhead conveyor.	Unknown	Unknown
53	45	**Asset Plus Limited** Land Adjacent Gordano House, Off Marsh Lane, Easton-in-Gordano, Bristol, Avon, BS20 0NE Extension of time for permission 07/P/1614/O - Outline application for the erection of 4 no. two storey B1 (office) units on storage yard to east of existing offices with the layout, scale and access not reserved for subsequent approval	Unknown	Unknown
54	46	**First Corporate Shipping Limited** Portbury Bulk Terminal Portbury Dock Easton-in-Gordano Certificate of Lawful Development for the Proposed Development consisting of the construction of 16 concrete silos 30 metres in diameter and 50 metres high together with associated conveyors and rail loading facility and acoustic screening.	Unknown	Unknown
55	47	**Bristol Port Company** Land At Avonmouth Docks (adjacent To River Avon) St Andrews Road Avonmouth Bristol BS11 9DQ Erection of 3 wind turbines, associated bases and cables and control buildings. (Major application	Unknown - construction period 9 months	Unknown
56	48	**Bristol Port Company** Former Railway Sidings Off Gloucester Road Avonmouth Bristol Variation of condition 12 attached to planning consent 11/02773/F Change of use of former railway sidings to port-related storage (Use Class B8) and green ecological corridor. (Major application)	Unknown	Unknown
57	49	**Global Machine Tools (UK) Limited** Third Way Corner St Andrews Road Avonmouth Bristol BS11 9HQ Erection of 14 new B1/B2 units with offices over (Major Application).	Unknown	Unknown
58	50	**Bristol Port Company,** **Avonmouth Docks** Construction of a deep-sea container terminal on the site of a former oil terminal at Avonmouth to accommodate the existing large container ships and future generations of Ultra Large Container Ships (ULCS). (Notification by Department for Transport.)	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
59	51	**Helius Energy** Avonmouth Docks St Andrews Road Avonmouth Bristol BS11 9DQ Avonmouth Biomass Power Plant Construction of Biomass fuel store and biomass fired electricity generating plant, capable of generating approximately 100 mega watts of electricity. (Notification by Department of Energy & Climate Change).	Unknown	Unknown
60	52	**New Earth Solutions** (Former Britannia Zinc) Kings Weston Lane Lawrence Weston Bristol BS11 8HT Development of a Mechanical Biological Treatment facility and associated plant and Infrastructure works	Constructed	Constructed
61	53	**New Earth Solutions** (Former Britannia Zinc) Kings Weston Lane Lawrence Weston Bristol BS11 8HT Development of a Low Carbon Energy Facility in connection with the adjoining Mechanical Biological Treatment Facility (currently under construction	Under construction 2013	Unknown
62	54	**Bericote Properties Ltd** Portside (Former Rhodia Works) St Andrews Road Avonmouth Bristol BS11 9YF Redevelopment of the former Rhodia chemical works to provide a chilled distribution unit (Use Class B8) and an ancillary service centre (Use Class B2) along with associated vehicle parking, service areas, gatehouse and landscaping (Major Application)	Unknown	Unknown
63	55	**St. Modwen Developments Limited** Land To The North Of Avonmouth Way Avonmouth Bristol Construction of an access road, together with associated landscaping and engineering works (including lighting, fencing and drainage).	Unknown	Unknown
64	56	**Wessex Water** **Bristol Sewage Treatment Works** Erection of 4 no. wind turbines (each with a generating capacity of up to 3MW) with a maximum height from base to tip of 126.25m and maximum rotor diameter of 92.5m together with ancillary development consisting of a control and switchgear/metering build	Aug-13	Feb-14
65	57	**Genco** Bristol Water Waste Treatment Works Kings Weston Lane Lawrence Weston Bristol BS11 0YS Development of plant for the sustainable recycling food waste to include a food waste reception and area and preparation plant	Unknown	Unknown
66	58	**Sita UK Ltd** Plot M2, Merebank Estate Kings Weston Lane Bristol Avon BS11 9FG Bristol Resource Recovery Park to consist of A) a 100,000tpa batch oxidation gasification facility; B) a 80,000tpa materials recycling facility to process source segregated recyclable materials; C) an end of life plastics to fuel conversion facility; D) a vehicle depot for waste collection vehicles; and E) a temporary refuse derived fuel production facility to be located within the proposed gasification building. (Major application Application under Section 73 to vary condition 25 of planning permission 11/01773/F, which approved the Bristol Resource Recovery Centre, to accommodate detailed design changes and update the approved list of plans. (Major application).	2012	2015
67	59	**Avonmouth Resource Park - Goodman International Ltd** Plot M2 Kings Weston Lane Avonmouth Bristol Change of use from approved industrial building to the development and operation of a resource park to enable the recycling and sorting of waste materials and generation of renewable/low carbon energy	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
68	60	**Terramond Ltd** Land At Rockingham Park, Smoke Lane, Bristol Outline planning application for industrial redevelopment, comprising B1(b), B1(c) and B8 uses.(Major application)	Unknown	Unknown
69		**Orta Solar** Land Adjoining Moorhouse Caravans Moorhouse Lane Hallen Bristol Installation of solar PV farm with ancillary plant, fencing and electrical equipment. (Major application)	Unknown	Unknown
70	61	**Bristol and Avon Remediation LTD** Chittening Road Bristol BS11 0YU Change of use from vacant industrial land to recycling facility including reprofiling site levels and erection of site portacabins (partly in retrospect), cycle shed and office	Unknown	Unknown
71		**REIA - Renewable Energy In Action** Land (Part Of Former Sevalco Site) Chittening Road Bristol BS11 0YU Request for a Screening Opinion as to whether an Environmental Impact Assessment is required for a renewable electricity power station fuelled by diesel and liquid gas petroleum gas (LPG). Development to involve a tyre storage area, plant to grind and process end-of-life tyres (to obtain rubber crumb and steel); thermodynamic cracking units (using the crumbed tires), which will convert into synthetic oil and LPG to be stored in two on-site tanks and used to fuel the power generation plant. Development to also provide an administrative building, a fume stack and connection to a power grid	Unknown	Unknown
72	62	**Bristol City Council Energy Management Unit** **Former Shell Tanker Site**	Mar-13	Sep-13
73	63	**W4B Bristol Ltd** Sevalco Ltd Severn Road, Chittening BRISTOL BS11 0YU Application for removal or variation of a condition following grant of planning permission 09/03235/F - conditions 4 - 6 to be removed and conditions 8, 17, 18 & 20 to be amended - for reasons see supporting statement (09/03235/F) Redevelopment of part of the existing industrial site for a bio-fuel renewable energy plant together with ancillary access roads, parking facilities and landscaping.	Unknown	Unknown
74	64	**Virador, Severn Rd Resource Recovery Centre** Former Sevalco Site (North) Severn Road Avonmouth Bristol BS11 0YU The construction and operation of a Resource Recovery Centre, including a Material Recycling facility, an Energy-from-Waste and Bottom Ash facility, associated Office Visitor Centre, with new access road and weighbridge facilities, associated landscaping and surface water attenuation features	2011 (estimated but application went to appeal so will have been delayed. 3 years estimated construction period).	2014
75	65	**Able Waste Management Limited** Hallen Industrial Estate Severn Road Hallen Bristol South Gloucestershire BS10 7SE Change of use to expand existing recycling operations	Unknown	Unknown
76	66	**New Earth Solutions Group Ltd** Land At Willow Farm Severn Road Severnside Nr Hallen South Gloucestershire Change of use of agricultural land to anaerobic digestion facility including weighbridges, reception building, biofilter, digestion and storage tanks and associated plant and infrastructure	Unknown	Unknown

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
77	67	**Sita UK Ltd** Land At Severnside Works Severn Road Hallen Bristol South Gloucestershire BS10 7SP Change of use of land for the construction of an Energy Recovery Centre for the thermal treatment of non hazardous waste and ancilliary development including new road and roundabout on A403 and new railhead. Erection of site office and visitor centre with associated works.	Unknown	Unknown
78	68	**SITA UK Ltd** Land Adjacent To Severnside Works Severn Road Severnside Bristol South Gloucestershire BS10 7SP Construction of a bottom ash recycling facility, to include processing building, storage areas and bays, access road and associated infrastructure and development of the existing railhead, to serve the Energy Recovery Centre (approved under reference PT09/5982/FMW)	Unknown	Unknown
79	69	**Scottish Power** **Avon Power Station** **South Gloucester** Avon Power Combined Cycle Gas Turbine power station with the capability of generating between 900 - 1200MW of electricity	Unknown	Unknown
80	70	**SSE** **Seabank 3 CCGT (Combined Cycle Gas Turbine)** Land immediately adjacent to the existing Seabank 1 & 2 CCGT Power Station, approximately 5 kilometres (km) northeast of Avonmouth South Gloucestershire Two additional high efficiency combined cycle gas turbines (CCGT) with a combined capacity of up to 1,400MW that integrate with existing gas and electricity transmission infrastructure and will run in parallel with the existing 1,100MW of generation capacity giving a total output for the combined Station of up to 2,500MW	2015	2019
81	71	**ICI Chemical Works (at the time)**	Unknown	Unknown
82	72	**Ms Fiona Campbell Arcus Renewable Energy Consulting Limited** Warburtons Bread Factory Off Ableton Lane Severn Beach Bristol South Gloucestershire BS35 4PP Wind Turbine 53.4 metre and maximum capacity of 330kw	Unknown	Unknown
83	73	Emerging Local Plan - Strategic Lan d Avaliability Assessment 2010 SHLAA Sites 153 Filton Airfield and 208 Cribbs Causeway	Unknown	Unknown
84	74	**Bovis Homes Ltd** Charlton Hayes Northfield, Filton Airfield Patchway Bristol South Gloucestershire BS34 5BS Major mixed-use development across 81.25 hectares of land comprising 2,400 new dwellings, 66,000 sq m of employment floor space (B1, B2 and B8), 1,500 sq m of A1, A2, A3, A4 and A5 floor space: together with the provision of supporting infrastructure and facilities including; new vehicular and pedestrian accesses to Highwood Road, new link road, public open space, primary school, community building, hotel (C1) (Outline).	Unknown	Unknown
85	75	**Ms S Hartfield REG Windpower** Land To South of Ingst Olveston South Gloucestershire Windfarm consisting of 3no. turbines	Unknown	Unknown
86	76	**Magnox Ltd** Decomissioning Oldbury Nuclear Power Station, Oldbury Naite, South Gloucestershire, BS35 1RQ	Feb-12	2112
87	77	**Horizon Nuclear Power** **New Oldbury Nuclear Power Staion** **South Gloucester** A Nuclear Power Station using Pressurised Water Reactor (PWR) technology. Comprising of up to three nuclear reactors with a combined expected output of about 3300 MW.	9 years estimated construction. No dates provided	Estimate - 2014 - 2030

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
88	78	**Combwich Wharf** -Extension and refurbishment of existing EDF owned wharf and development of Freight Laydown Facility -Improvements to existing access road and improvements to C182 at its junction to the Combwich Wharf Access road	2014	2016
89	79	**Castle Hill Quarry Co Ltd** On land to the North of, Castle Hill Quarry, Chads Hill, Cannington, Bridgwater, TA5 2QF Erection of wind turbine, switchgear kiosk, transformer kiosk, formation of crane hardstanding, access track and temporary construction compound. Single 500kW Wind Turbine 77m in height	12 months construction time - no dates provided	Unknown
90	80	**Cannington** - 1.5km single carridgeway bypass with associated works to be adopted by the highway authority - Park and Ride Facility for 250 vehicles (workers and visitors) split between two areas. Application included various highways upgrades in the immediate vicinity of the development	2014	2016
91	81	**Environment Agency (EA)** **Land at Steart Penisula, Steart Drove** Creation of wetland habitat comprising intertidal and freshwater areas, accompanied by set-back banks as flood defences, improvements to existing defences, walkways linking observation facilities, observation points and hides, car parking landscaping	May-12	Spring 2014
92	82	**Bristol Port Company** South Bank, Outer Severn Estuary, Steart Peninsula, Bridgwater Bay Creation of a range of dynamic intertidal habitats through managed realignment involving removal of part of the existing seawall & the construction of new embankments & drainage channels to form new habitats including mudflats, salt marshes & saline lagoons, transitional marsh, grazing marsh, ponds, raised islands & hedgerows. The construction of a single storey hide including education facility, footpaths & multi-user track (including bridleway), car park & visitor facilities & new vehicular access.	Unknown	Unknown
93	83	**Magnox LTD** Decomissioning Hinkley Point A Nuclear Power Station	2000	2104
94	84	**British Energy** Hinkley Point B On-going operation and future decomissioning of Hinkley Point B with respect to planned outages and future decomissioning.	Unknown - long term i.e. in excess of 100 years	Unknown
95	85	Magnox Electric plc Hinkley Point A, Hinkley Point Power Station, Stogursey, BRIDGWATER, Somerset, TA5 1YA Construction of a Building for the Storage of Intermediate Level Radioactive Waste Materials (Variation of Building Design Approved by Planning Permission No. 3/32/04/009, dated 10.08.2004)	2015	2016
96	86	**EDF Energy** **Hinkley C Project** The proposal is for a nuclear power station with two nuclear reactors capable of generating a total of up to 3,260MW of electricity at Hinkley Point C and associated development.	2014	2026
97	87	**EDF Energy** Land at National Grid electricity substation, Hinkley Point A, Proposal to replace two existing transformers, provision of two new intermediate switchrooms at Hinkley Point A, together with the provision of a cabling route from Hinkley Point A 275 KV Grid Substation to connect to Hinkley Point C substation.	2014	2017
98		**Surf Telecom** 132kV F Route Dismantling Proposal to install a new Fibre Optic cable route between Bridgwater and Avonmouth BSP's to replace the Fibre Optic cable which is currently installed upon 132 kV "F" Line route which is proposed to be dismantled	2015	2019

ID. No	Previous ID. No	Cumulative Assessment - Other Major Development Proposals	Estimated Construction Start Date	Estimated Construction End Date
99		**Western Power Distribution (WPD)** WPD Crossing Works as a result of the Proposed Development crossing a number of 33kV, 11kV and low voltage lines that willl require temporary and permanent diversions or minor temporary works during the construction phase.	2015	2019

Appendix 17D – Cumulative Assessment – Scoped Out Major Development Proposals

ENVIRONMENTAL STATEMENT, VOLUME 5.17.2, APPENDIX 17D: CUMULATIVE ASSESSMENT - SCOPED OUT MAJOR DEVELOPMENT PROPOSALS

A1. Due to the bespoke nature of potential cumulative effects for each of the environmental topics and the manner in which they are considered and assessed, it is not appropriate to include all major development proposals identified in the Final Master List in the assessment of potential cumulative effects. Therefore, for each environmental topic, each Final Master List development proposal has been further considered with regard to whether it is likely (either alone or in combination with other major development proposals) to have cumulative effects with the Proposed Development.

A2. Where such cumulative effects are considered unlikely to arise, they are then scoped out from that cumulative assessment; justification is provided in each case. The projects that have been scoped out for each environmental topic are provided at Table A17.1

Table A17.1 Cumulative Assessment Scoped Out Major Development Proposals

ID	Justification for Scoping Out
Landscape	
11	No substantive cumulative effects on landscape character are expected as a result of this development as proposals would be relatively small scale and the Bridgwater to Hinkley overhead line oversails the site.
12	No substantive cumulative effects on landscape character are expected as a result of this development as proposals would be relatively small scale and located near to the existing Bridgwater to Hinkley overhead line and existing F Route.
13	No substantive cumulative effects are anticipated as the development proposals would be in keeping with the scale and massing of adjacent development to the northern edge of Bridgwater.
26	These development proposals are distant and would have no effect on the character of the landscape affected by the proposed 400kV overhead line.
31, 35, 37, 40	No substantive cumulative effects are anticipated as a result of this development as it is relatively small scale and distant from the proposed 400kV overhead line and would have no effect on landscape character affected by the proposed 400kV overhead line.

ID	Justification for Scoping Out
36	No substantive cumulative effects are anticipated as a result of this development as it is relatively small scale and distant from the proposed 400kV overhead line.
48, 49	This development would affect the landscape character of Clapton Moor to the west of the Proposed Development also on Clapton Moor. However no substantive cumulative effects are anticipated as a result of this development as it is relatively small scale and distant from the proposed 400kV overhead line.
54, 71, 82	No substantive cumulative effects are expected as a result of this development because the proposals are in keeping with the scale, massing and appearance of development in Section G Avonmouth. The development proposals would have limited effect on landscape character affected by the new 400kV overhead line.
83, 84	No substantive cumulative effects are expected as a result of this development because the proposals are contained within the north Bristol conurbation. The development proposals would have no effect on landscape affected by the new 400kV overhead line.
85, 87	No cumulative effects are anticipated as a result of this development because this proposal is distant from the proposed Hinkley Point C Connection project.
89	No cumulative effects are anticipated as the development proposals would have no effect on landscape character affected by the proposed 400kV overhead line entries at Hinkley Point.
Visual Effects	
11	No substantive cumulative visual effects are anticipated as the development is relatively small scale and located under the existing VQ Route 275kV overhead line from Bridgwater to Hinkley.
12	No substantive cumulative effects are anticipated as the scale of the wind turbines proposed is relatively small and they would be viewed in the context of the existing F Route and the existing 275kV overhead line from Bridgwater to Hinkley.
13	No substantive cumulative effects are anticipated as the development proposals would be in keeping with the scale and massing of adjacent development to the northern edge of Bridgwater and would have no effect on views affected by the proposed 400kV overhead line.
26	No substantive cumulative effects are anticipated as a result of this development as it is distant from the proposed 400kV overhead line and would have no effect on views affected by the proposed 400kV overhead line.

ID	Justification for Scoping Out
31, 35, 36, 37, 40, 48, 49	No substantive cumulative effects are anticipated as a result of this development as it is relatively small scale and distant from the proposed 400kV overhead line and would have no effect on views affected by the proposed 400kV overhead line.
71, 82	No substantive cumulative effects are anticipated as a result of this development as it is contained within existing development in Avonmouth and would have limited effect on views affected by the proposed 400kV overhead line.
83, 84	No substantive cumulative effects are expected as a result of this development because the proposals are contained within the north Bristol conurbation. The development proposals would have no effect on views affected by the new 400kV overhead line.
85, 87	No cumulative effects are anticipated as a result of this development because this proposal is distant from the Hinkley Point C Connection proposals.
89	No substantive cumulative effects are anticipated as the development proposals are distant and would have no effect on views affected by the proposed 400kV overhead lines connecting into the proposed Substation.
Biodiversity and Nature Conservation	
1, 2, 3, 4, 5	The developments are located approximately 5km from the Proposed Development and no significant cumulative impact has been identified. The development has therefore been scoped out of the assessment.
6	All works are located within the existing substation site which is located approximately 3.6km from the Proposed Development. No significant cumulative impacts are predicted. The development has therefore been scoped out of the assessment.
8	The developments are located approximately 0.9km from the Proposed Development and no significant cumulative impact has been identified. The development has therefore been scoped out of the assessment.
9	The development is located within the settlement of Bridgwater and within an urban setting. No significant cumulative impacts are predicted and the development is therefore scoped out of the assessment.
11	The development is small scale and restricted to arable farmland. No significant cumulative impacts with the Proposed Development are predicted. The development has therefore been scoped out of the assessment.

ID	Justification for Scoping Out
13	The development is small in scale and consists predominantly of hard standing and previously developed land. No significant cumulative impacts with the Proposed Development are predicted. The development has therefore been scoped out of the assessment.
14	This development is located approximately 1.5km from the Proposed Development. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
15	The development is located more than 1km from the Proposed Development. No significant cumulative impacts have been identified for this solar facility and the development has therefore been excluded from the development.
18	This application was submitted retrospectively for change of use for the existing haulage business. No development activities will be undertaken. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
20	No significant cumulative impacts were identified for this small scale housing development. The development is therefore excluded from the assessment.
21	No significant cumulative impacts have been identified for this solar facility. The development is therefore scoped out of the assessment.
23	The development is located approximately 2.5km from the Proposed Developed and located within an area of previously developed land. No significant cumulative impacts have been identified. The project has therefore been scoped out of the assessment.
27	The development of an extension to existing quarry is located approximately 3.9km from the Proposed Development. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
28	The housing development is located approximately 5.1km from the Proposed Development, on the outskirts of Weston Supermare. No significant cumulative impacts identified and the development has therefore been scoped out of the assessment.
30	The housing development is located approximately 3km from the Proposed Development, on the outskirts of Weston Supermare. North Somerset and Mendips Bat SAC has been identified as a shared receptor. However the ES has concluded there was a neutral impact prior to mitigation, therefore no significant cumulative impacts identified and the development has been scoped out of the assessment.

ID	Justification for Scoping Out
31	A small scale development, therefore no significant cumulative impacts identified and the development has been scoped out of the assessment.
37	Small scale development located approximately 3.5km from the Proposed Development. No significant cumulative impact identified, therefore the development has been scoped out of the assessment.
39	Solar energy development nearby to Churchill Substation. Confirmed as built construction and therefore considered part of the baseline conditions. No significant cumulative impact identified, therefore the development has been scoped out of the assessment.
41	Cumulative impacts to the majority of receptors are unlikely due to the distance of the airport development, located approximately 7.1km from the Proposed Development. However, impacts to species listed as qualifying features for the North Somerset and Mendips Bat SAC (Bats) and the Severn Estuary SPA/Ramsar (Birds) could potentially be impacted by both developments. However no significant impacts were identified for these receptors as part of the Airports EIA. The Proposed Development predicts impacts to both receptors, but no cumulative impact was identified. The development has therefore been scoped out of the assessment.
44	No significant cumulative impacts have been identified, therefore the development has been scoped out of the assessment.
45	No significant cumulative impacts have been identified, therefore the development has been scoped out of the assessment.
48	The site is located approximately 1.5km from the Proposed Development and no significant cumulative impacts have been identified. The development has therefore been scoped out of the assessment.
49	The site is located approximately 1.8km from the Proposed Development and no significant cumulative impacts have been identified. The development has therefore been scoped out of the assessment.
50	The site is located within an area of dense urban development. No significant cumulative impacts have been identified and the site is therefore scoped out of the assessment.
51	The development is located adjacent to the Severn Estuary SPA, Ramsar, SAC and SSSI. However, no significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.

ID	Justification for Scoping Out
52	Development within an existing industrial landscape. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
53	A small scale development within previously developed land. No significant cumulative impacts have been identified and development has therefore been scoped out of the assessment.
54	Development within an existing industrial landscape. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
55	This development has been completed and therefore forms part of the baseline conditions. The development has therefore been scoped out of the assessment.
57	Small scale development in the site of an existing industrial site. No significant cumulative impacts identified and site is therefore scoped out of the assessment.
59	Biomass plant within an industrial site adjacent to the Severn Estuary SPA, Ramsar, SAC and SSSI. No Significant impacts have been identified and the site has therefore been scoped out of the assessment.
60	The construction of the development has been completed and is therefore regarded as part of the baseline conditions. The development is therefore scoped out of the assessment.
61	No significant cumulative impacts are predicted as part of the proposed works. Development is therefore scoped out of the assessment.
62	No significant cumulative impacts are predicted as part of the proposed works. Development is therefore scoped out of the assessment.
63	The access road has already been built and therefore forms part of the baseline conditions against which the ES has been undertaken. No cumulative impacts are therefore predicted and the development is scoped out of the assessment.
65	No significant cumulative impacts to ecology are identified in the available documents submitted for planning consideration. The development is therefore scoped out of the assessment.
66	The site is located approximately 1.3km from the Proposed Development and no significant cumulative impacts with the Proposed Development are predicted. The development is therefore scoped out of the assessment.
67	No significant cumulative impacts above existing site conditions predicted as part of the application for change of use. Development is therefore scoped out of the assessment.

ID	Justification for Scoping Out
68	The development is located approximately 1.5km from the Proposed Development and no significant cumulative impacts have been identified. The development is therefore scoped out of the assessment.
70	No significant cumulative impacts have been identified as part of the proposed site development. The development is therefore scoped out of the assessment.
71	No significant cumulative impacts have been identified as part of the proposed site development. The development is therefore scoped out of the assessment.
73	No significant cumulative impacts have been identified as part of the development of the site, and the development has therefore been scoped out of the assessment.
74	The construction period to the development will be completed before construction of the Proposed Development begins No cumulative impacts are predicted with the operational phase of the Recovery Centre. The development is therefore scoped out of the assessment.
75	Change of use within an existing recycling plant. No significant cumulative impacts identified and development is therefore scoped out of the assessment.
76	No significant cumulative impacts have been identified and the proposed development has therefore been scoped out of the assessment.
77	No significant cumulative impacts have been identified and the proposed development has therefore been scoped out of the assessment.
78	No significant cumulative impacts have been identified and the proposed development has therefore been scoped out of the assessment.
83	No proposals are available and the site is located approximately 2.7km from the Proposed Development. It is predicted that no significant cumulative impacts will be identified through the potential future development of the area.
84	The development is located approximately 4.7km from the Proposed Development and no significant cumulative impacts have been identified. The development has therefore been scoped out of the development.
86	The development is largely within the existing site footprint. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.

ID	Justification for Scoping Out
87	The development is located approximately 13.8km from the proposed development. Although there is potential for impacts on the Severn Estuary, no significant cumulative impacts have been identified. The development is therefore scoped out of the assessment.
88	The development is located approximately 7.5km from the Proposed Development and is within an existing facility. No significant cumulative impacts have been identified.
89	No significant cumulative impacts have been identified. The development has therefore been scoped out of the assessment.
90	No significant impacts have been identified. The development has therefore been scoped out of the assessment.
91	The development will be completed during 2014, prior to the start of the Proposed Development and has been considered part of the baseline environment. No significant cumulative impacts have been identified.
92	No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment. The scheme is however linked to Development ID50.
93	The development is largely within the existing site footprint. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
94	The development is largely within the existing site footprint. No significant cumulative impacts have been identified and the development has therefore been scoped out of the assessment.
97	No significant cumulative impacts predicted as part of the proposed works as the proposals involve replacement of existing infrastructure. No significant cumulative impacts have therefore been identified.
Ground Environment	
1, 2, 3, 4, 5, 8, 9, 10	It is considered that unless the proposed development footprints overlap, that the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.

ID	Justification for Scoping Out
6	The replacement of transformers in combination with the decommissioning of the existing F route would have a negligible effect to the ground environment, based on the limited potential for contamination to be arise through the removal of the F route overhead line and the limited soil excavations associated with the removal of the pylons. The replacement of the transformers within the Bridgwater Substation would be undertaken on above ground equipment, therefore the cumulative impact on the ground environment would be negligible.
7	The uprating of the existing VQ overhead line would comprise a refurbishment of the conductor on the overhead pylons. Contamination of soils and excavation of soils associated with this activity would not result in a significant effect to the ground environment. The cumulative effect of the construction of the Proposed development (overhead tee connection) and the refurbishment of the VQ overhead line conductor would have a negligible effect on the ground environment.
12	The potential for cumulative effects on the ground environment is considered to be negligible owing to the Greenfield nature of the area and the limited ground works associated with decommissioning of the existing F route of the Proposed Development and installation of wind turbines as part of the off site major development. The historic site use indicates that the presence of significant concentrations of contaminants would be unlikely. The proposed developments would not result in significant excavations of soils, therefore the potential effects to the ground environment are considered negligible.
13, 14, 15	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
19, 20	The potential for cumulative effects on the ground environment is considered to be negligible due to the proposed redevelopment of Greenfield land (agricultural fields) for residential development. The historic site use indicates that the presence of significant concentrations of contaminants would be unlikely. The proposed developments would not result in significant excavations of soils, therefore the potential effects to the ground environment are considered negligible.
21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.

ID	Justification for Scoping Out
33	The potential for cumulative effects on the ground environment is considered to be negligible. This is due to both the Proposed Development and the proposed works at Myrtle Farm being located on Greenfield land that is unlikely to be significantly contaminated. Geological sensitivity of the superficial (absent) and bedrock geology (MMG) is low.
34	The potential for cumulative effects on the ground environment is considered to be negligible. The reconductoring of the N route would not involve significant disturbance to the ground environment in the form of soil excavations or the contamination of soils through site activities.
35, 36, 37, 38	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
39,40	The potential for cumulative effects on the ground environment is considered to be negligible. This is due to both the Proposed Development and the proposed works at Twin Farm (ID32 and 33) being located on Greenfield land that is unlikely to be significantly contaminated. Geological sensitivity of the superficial (Tidal Flat Deposits) and bedrock geology (MMG) is low. Extensive excavations of soils would be unlikely, therefore disturbance to ground conditions would be negligible.
41, 43	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
42	The potential cumulative effect of the proposed solar farm and the removal of the existing F route would have a negligible effect on the ground environment. The removal of the F route conductor and pylon would not involve significant soil excavations of contamination of soils through construction activity.
44, 45	The potential for cumulative effects on the ground environment is considered to be negligible. This is due to both the Proposed Development and the proposed works at land off Wemberham Lane being located on Greenfield land that is unlikely to be significantly contaminated. Geological sensitivity of the superficial (Tidal Flat Deposits) and bedrock geology (MMG) is low. Extensive excavations of soil are unlikely to be associated with the decommissioning of the F route.

ID	Justification for Scoping Out
46, 48, 49, 50, 51, 52	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
53	It is considered that the proposed construction of four two storey office buildings in conjunction with the decommissioning of the overhead G route would have a negligible effect on the ground environment. The decommissioning of the G route is unlikely to involve the significant excavation of soils or result in the remobilisation of contaminants.
54, 55	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
57	The construction of 14 units/offices and pylons associated with the proposed 400kV overhead line would have a negligible effect on the ground environment. The construction of the offices and the pylons would result in minimal disturbance to ground conditions including limited soil exaltations. These developments are not located over the T Farm landfill therefore mobilisation of contaminants would be low.
58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 70, 71, 72, 73	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
63	The construction of an access road crosses the proposed underground cable of the G route along Avonmouth Way. Both the Proposed Development and ID63 are located adjoining the T Farm landfill. The construction of an access road is unlikely to result in the remobilisation or creation of contaminant pathways, therefore cumulative impacts on the ground environment are considered unlikely.
75, 76	The potential for cumulative effects on the ground environment is considered to be negligible. Existing agricultural land for application 66 unlikely to be significantly contaminated. Change of use to expand existing recycling operations at application 65 unlikely to cumulative significantly impact the ground environment.

ID	Justification for Scoping Out
81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92	It is considered that unless the proposed development footprints overlap, the potential cumulative effects on the ground environment are negligible. Due to the geographical separation of the projects (greater than 100m distance) the potential for cumulative effects on the ground environment is considered to be negligible.
95, 96, 97	The construction of the Hinkley Power Station and the Proposed Development is likely to involve significant ground excavations. However, the surrounding land use is considered to be Greenfield, therefore the presence of significant concentrations of contaminants is considered unlikely. The overall significance of effect on the ground environment would be negligible.
Hydrology and Water Resources	
1	Due to the hydrological separation of the projects c. 6km (including presence of M5, Railway line, River Parrett and Bridgwater and Taunton Canal), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
2, 3	Due to the hydrological separation of the projects (in excess of 1.80km and the location of the River Parrett and the Bridgwater and Taunton Canal), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
4, 5	Due to the hydrological separation of the projects (in excess of 3.0km and the location of the River Parrett and the Bridgwater and Taunton Canal), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
8	Due to the hydrological separation of the projects c. 1km and the presence of the M5, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
9	Due to the hydrological separation of the projects (in excess of 1.90km, location of ID 10 and the M5), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
10	Due to the hydrological separation of the projects (between boundary and CSE compound) and the M5, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
12	The potential for cumulative effects on hydrology and water resources is considered to be negligible owing to the Greenfield' nature of the area and the likely limited works affecting hydrology associated with decommissioning of the existing F route and installation of wind turbines.

ID	Justification for Scoping Out
13	Due to the hydrological separation of the projects of ca. 600m (including the M5, and ID 10), and ID13's proximity to the River Parrett, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
14	Due to the hydrological separation of the projects (c. 2km) and the proximity of ID14 to the River Parrett, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
15	Due to the hydrological separation of the projects of ca. 1.75km (including ID's 16. 17 and 18), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
19	Due to the hydrological separation (no directly connecting watercourses) of the projects (c. 200m) and the upstream location of the development, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
20	Due to the hydrological separation (no directly connecting watercourses) of the projects (c. 400m), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
21	The proposed installation of a solar energy facility is on Greenfield' land and runoff rates would be restricted to pre-development rates, therefore any impact upon the water environment is unlikely. The Proposed Development is to comprise overhead pylons, therefore significant increases in runoff or modifications to the water environment is unlikely. As such the potential for cumulative effects on the water environment is considered to be negligible.
22	Due to the hydrological separation of the main infrastructure of the project (in excess of 200m), and the limited hydrological alterations created by the new wind turbines, the potential for cumulative effects on hydrology and water resources is considered to be negligible
23, 24	Due to the hydrological separation of the projects (in excess of 2.50km), the location of the M5 and railway line and the proximity of the Huntspill River, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
25	Due to the hydrological separation of the projects (in excess of 0.7km), the proximity of the Mark Yeo to the Proposed Development and of Blind Pill Rhyne to ID25, the potential for cumulative effects on the water environment is considered to be negligible.

ID	Justification for Scoping Out
26	Due to the hydrological separation of the projects (in excess of 5.5km), the potential for cumulative effects on hydrology and water resources is considered to be negligible. Flooding following a failure of the Cheddar Reservoir 2 could affect the Proposed Development with areas around the River Axe crossing potentially at risk. However the likelihood of such a failure is extremely low and therefore the potential for cumulative effects on hydrology and water resources is considered to be negligible.
27	Due to the hydrological separation of the projects (c. 5km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
28	Due to the hydrological separation of the projects (c. 6km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
29, 30	Due to the hydrological separation of the projects (in excess of 3.50km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
31	Due to the hydrological separation of the projects (in excess of 2.00km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
32	The proposed installation of a solar energy facility is on Greenfield' land and runoff rates would be restricted to pre-development rates, therefore any impact upon the water environment is unlikely. The Proposed Development is underground at this section, therefore significant increases in runoff or modifications to the hydrological environment are unlikely. As such the potential for cumulative effects on the water environment is considered to be negligible.
33	Due to the hydrological separation of the projects (c. 0.60km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
34	The potential for cumulative effects on hydrology and water resources is considered to be negligible.
35, 36	Due to the hydrological separation of the projects (c. 4km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
37	Due to the hydrological separation of the projects (c. 3.6km), the potential for cumulative effects on the water environment is considered to be negligible.

ID	Justification for Scoping Out
38	The proposed installation of a solar energy facility is on Greenfield' land and runoff rates would be restricted to pre-development rates, therefore any impact upon the water environment is unlikely. The Proposed Development is overhead at this section and approximately 0.75km from ID38, therefore significant increases in runoff or modifications to the hydrological environment is unlikely. As such the potential for cumulative effects on the water environment is considered to be negligible.
39, 40	The proposed installation of a solar energy facility is on 'greenfield' land and runoff rates would be restricted to pre-development rates, therefore any impact upon the water environment is unlikely. The Proposed Development is to comprise overhead pylons at this section, therefore significant increases in runoff or modifications to the hydrological environment are unlikely. This in combination with the hydrological separation of the projects (c. 300m), means the potential for cumulative effects on hydrology and water resources is considered to be negligible
41	Due to the hydrological separation of the projects (in excess of 7km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
43	Due to the hydrological separation of the projects (c. 900m) the potential for cumulative effects on hydrology and water resources is considered to be negligible.
46	Due to the hydrological separation of the projects (c. 750m and the presence of Little River separating the developments), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
48, 49	Due to the hydrological separation of the projects (in excess of 1.50km), and the location of the M5, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
50	Due to the hydrological separation of the projects (c. 750m), and the urban extent of Portishead, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
51	Due to the hydrological separation and industrial nature of the land between the two developments (including IDs 52 and 54) and ID 51's proximity to the Severn, the potential for cumulative effects on hydrology and water resources is considered to be negligible

ID	Justification for Scoping Out
52	Due to the hydrological separation of the projects (c. 100m), nature of the existing infrastructure and surrounding environment, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
53, 54, 55	The potential for cumulative effects on hydrology and water resources is considered to be negligible.
55	The potential for cumulative effects on hydrology and water resources is considered to be negligible. Due to the hydrological separation (Avonmouth Docks) of the projects (in excess of 500m), discharge from the project will likely be directed to the sea or docks, therefore there is no hydrological connection between the projects, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
57	The potential for cumulative effects on hydrology and water resources is considered to be negligible. It is assumed that the surface water discharge from ID57 will discharge to sewer due to the lack of receptive water features in proximity to the projects. Therefore there is anticipated to be no cumulative hydrological impacts on the developments.
58, 59	The potential for cumulative effects on hydrology and water resources is considered to be negligible. Due to the hydrological separation (Avonmouth Docks) of the projects (in excess of 500m), discharge from the project will likely be directed to the sea or docks, therefore there is no hydrological connection between the projects, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
60	Due to the hydrological separation of the projects (in excess of 0.5km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
61, 62	Due to the hydrological separation of the projects (in excess of 0.5km), nature of the existing infrastructure and surrounding environment, the potential for cumulative effects on hydrology and water resources is considered to be negligible.
64, 65	Due to the hydrological separation of the projects (in excess of 270m), nature of the existing infrastructure and surrounding environment, the potential for cumulative effects on hydrology and water resources is considered to be negligible. The erection of 4no. wind turbines unlikely to result changes to water quality or flow.
66 and 67	Due to the hydrological separation of the projects (in excess of 1.10km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.

ID	Justification for Scoping Out
68	Due to the hydrological separation of the projects (in excess of 1.50km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
70	Due to the hydrological separation of the projects (in excess of 600m and existing infrastructure separating the two developments), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
71	Due to the hydrological separation of the projects (in excess of 500m and existing infrastructure separating the two developments), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
72	Due to the hydrological separation of the projects (in excess of 600m and existing infrastructure separating the two developments), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
73	Due to the hydrological separation of the projects (in excess of 300m and ID 74 is between them), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
75, 76	The potential for cumulative effects on the water environment is considered to be negligible. Change of use to expand existing recycling operations at application 65 unlikely to cumulative significantly impact hydrology and water resources.
82	Due to the hydrological separation (location of separating watersheds) of the projects (ca. 2km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
83	Due to the hydrological separation of the projects (in excess of 1.60km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
84	Due to the hydrological separation of the projects (in excess of 3.80km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
85	Due to the hydrological separation of the projects (in excess of 5.50km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
86 and 87	Due to the hydrological separation of the projects (in excess of 13.70km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
88, 89	Due to the hydrological separation of the projects (in excess of 7.90km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
90, 91	Due to the hydrological separation of the projects (in excess of 6.30km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.

ID	Justification for Scoping Out
92	Due to the hydrological separation of the projects (in excess of 2km), the potential for cumulative effects on hydrology and water resources is considered to be negligible.
Historic Environment	
1, 2, 3, 4, 5, 8, 9, 10, 13, 14, 15, 16, 17, 19, 20, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 64, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79. 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92	Inter-project cumulative effects on the historic environment can occur during construction where areas of archaeology or contiguous/ contemporary archaeology assets are affected by more than one development footprint. For such effects to occur development footprints need to overlap or be adjacent and where this is not the case the distance of separation is such that the inter-project development proposal can be scoped out of any cumulative assessment for this aspect of the historic environment topic. Different development projects in combination can also have a cumulative effect on the settings of a heritage assets, or shared setting of an associated group of assets, when it is affected by more than one development during the construction and operational phases of those developments; and where the part of the settings that are affected by both proposals makes a positive contribution to the heritage significance of the asset. Therefore effects can be scoped out where there are no heritage asset effects common to the Proposed Development and the project being assessed for cumulative effects, and/ or the effects are individually and in combination not of sufficient scope to affect underlying historic landscape character or the contribution made by setting to significance. These projects meet both of the criteria referenced above and would have no construction or operational phase cumulative effects on the historic environment. As no cumulative effects are predicted during the construction or operation of these projects in combination with the Proposed Development no additional decommissioning effects are predicted either. This is because historic environment effects occur during the construction and operational phases of developments and are generally only reversed on decommissioning.
6, 7, 34, 95, 97	These proposed inter-project developments would not affect the historic environment because they would not have any effect on archaeological remains and would be capable of affecting the contribution made by setting to the significance of heritage assets. Therefore these projects would not result in any cumulative historic environment effects.
Traffic and Transport	

ID	Justification for Scoping Out
Note: As part of our agreed methodology we have used TEMPro (Trip End Model Program) and the National Trip End Model (NTEM) software and databases to apply growth factors to the observed background traffic. The application of these growth factors accounts for the growth associated with committed developments. Therein, whilst scoped out, these developments have been accounted for in future year traffic growth which has been input into all capacity assessments undertaken as part of the TA.	
1, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60.	As part of the scoping process it was agreed that TEMPro (Trip End Model Program) and the National Trip End Model (NTEM) forecasts databases would be used to uplift the observed (2013) traffic for future year capacity assessments. These uplifts, specific to the year would account for the scoped out committed development identified within the traffic and transportation capacity impact assessments. TEMPro is a software package published by the Department for Transport (DfT) which allows users to generate growth factors which can be applied to observed traffic data in order to establish forecast future year scenarios. The primary function of the software is to uplift observed traffic flows to a future year to represent the growth in traffic resulting from forecast committed developments in a specific geographical location. The software produces growth factors based on various input parameters which can be tailored to suit the needs of a particular geographical locations and road type. For the purposes of this assessment, TEMPro has been used to generate growth factors for LGVs only as no dedicated data is provided for HGVs. TEMPro also employs the use of the National Trip End Model (NTEM) forecasts to allow growth factor forecasts to be made based on population, employment, households – by car ownership, trip ends and simple traffic growth factors. This methodology to establish background traffic growth factors has been agreed with the LPAs. However, to ensure a robust assessment and through discussions with the Local Planning Authorities, ten local committed developments have been included in addition to the growth factors applied by TEMPRo.
Air Quality and Emissions	

ID	Justification for Scoping Out
1,2,3,4, 5, 8, 9, 10 ,13,14,15,23, 24, 26, 27, 28, 29, 30, 31, 35, 36, 37, 41, 45, 48, 49, 50, 51, 83, 84, 85, 86, 87, 88, 89, 90, 92.	This project is sited >1km from the Proposed Development. Construction fugitive emissions impacts are local to the site and no addition of effects is likely.
45	The construction phase is complete, therefore there will be no cumulative construction phase effects.
51	No activities from the construction of this development are likely to generate fugitive dust proposed.
75	No activities from the construction of the change of use of this development are likely to generate fugitive dust proposed. Recycling operations may result in fugitive impacts, but it is assumed that these will be adequately controlled.
Noise and Vibration	
1, 2, 3, 4, 5, 6, 8, 9, 12, 13, 14, 15, 16, 17, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46 48, 49, 50, 51, 52, 53, 54, 55, 58, 59, 60, 61, 62, 63, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97,	Significant distance between application site and Proposed Development or significant distance to the nearest noise sensitive receptor. Cumulative noise unlikely to be significant a distances above approximately 300m to 400m.
7	Residential receptors adjacent to the order limit in close proximity to the Hinkley line entries may be impacted by the reconductoring of the ZZ route and the voltage uprating of the VQ route. However there will be no further cumulative impact on these properties from the work for which consent is currently being sought.

ID	Justification for Scoping Out
10, 11, 25	High background noise level due to proximity to M5 Motorway.
18	No significant variation in noise source.
19, 20, 98, 99	Cumulative construction noise not expected to exceed threshold values for significant duration at nearby receptors.
47	No proposed development plan at this stage. Only potential cumulative impact is construction noise and only if developments occur simultaneously. If applicable, cumulative impact should be assessed as part of the NA2 development.
56	Significant distance between application site and nearest noise sensitive receptors and high existing background noise climate.
57	The construction of this scheme will be complete prior to commencement of construction of the Proposed Development and as such no cumulative impact is expected from construction noise. No cumulative impact is expected from operational noise due to distance to nearest noise sensitive receptors and high background noise level.
64, 65, 66	High background noise level due to proximity to M5 Motorway and distance between application site and nearest noise sensitive receptor.
Socio-economics and Land Use	
1	Significant cumulative effects associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development, these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 months) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.
2	Due to this project expecting to be operational by 2015, before the commencement of construction of the Proposed development, cumulative impacts are not expected.

ID	Justification for Scoping Out
3, 4, 5, 18, 19, 20, 28, 29, 30, 50, 53	There is no construction phasing information for this development. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development. Significant cumulative impacts associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development; these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.
8, 13, 15, 46	A socio-economic assessment was not undertaken as part of the reserved matters or outline planning applications. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development. Significant cumulative effects associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development; these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.

ID	Justification for Scoping Out
9	This project is one of EDF's mitigation measures to manage construction worker impacts on accommodation (which will be monitored in accordance with EDF's programme development). The project is expected to be operational by the beginning of 2015 i.e. before the commencement of construction of the Proposed Development, cumulative impacts are not expected. The project considered here is the construction of Bridgwater A and Bridgwater C accommodation buildings. The impacts of construction of the EDF Energy Hinkley Point C Power Station (project Ref 87) are considered below.
10	Much of the construction of this application is underway or completed and therefore cumulative effects are not considered likely. Significant cumulative impacts associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development; these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project..
11	There is no construction phasing information for this development. The application was not supported by an ES and a review of the planning statement does not identify that socio-economic are considered a significant issue. Cumulative socio-economic impacts are not anticipated.
12	The application for this development was withdrawn after registration in November 2013 and therefore is scoped-out on the basis that it is not reasonably foreseeable. Irrespective of this, the project will not generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
14	Construction of this project is expected to be from 2013 to 2014. Due to this project expecting to be operational by 2015 before the commencement of construction of the Proposed development, cumulative impacts are not expected.

ID	Justification for Scoping Out
16	Construction of this project is expected to be on-going up to 2033. Significant cumulative impacts associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development, these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project..
17	Construction of this development is noted as having a four year timeframe however no set start date has been given. Based on current information it is not possible to assess what the cumulative effects, if any, would be. Significant cumulative impacts associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development, these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.
21	The application documentation notes that construction of the Solar Park is proposed to commence in 2013 and take place over a 4 month period. As the project will be completed prior to the construction of the Proposed Development, no cumulative impacts will occur.
22	This application was refused and therefore Is not considered to be reasonably foreseeable. There is limited information on the socio economic effects and there is no evidence that is will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.

ID	Justification for Scoping Out
23	There is no construction phasing information for this development. However the planning permission is valid up until 2036. Without a clear programme it is not possible to assess if cumulative effects will occur. However significant cumulative effects with the Proposed Development are unlikely.
24	The original application for the project was refused, although an appeal has been lodged. There is limited information on the socio economic impacts and it will not generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
25	The original application for the project was refused, although an appeal has been lodged. There is limited information on the socio economic impacts and there is no evidence that is will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
26	The ES for the project identifies that there will be no significant adverse socio-economic effects from the project. The project also focuses on a local area of Cheddar, Axbridge and Shipham, thereby not overlapping with Local Area of influence for the Proposed Development. The ES for the project does not identify any adverse cumulative effects with other developments in the area.
27	Insufficient information is available regarding construction programme or specific socio economic impacts as application has yet to be submitted.
31, 35, 37, 39, 42, 43, 44, 48, 49, 54, 73, 75	There is limited information on the socio economic impacts of the project as this is not a full planning application. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
32, 36,38, 55, 64, 69, 71	There is limited information on the socio economic effects of the project as this is not a full planning application. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
40	A socio-economic assessment was not provided as part of the Environmental Report submitted alongside the planning application for this project. A short statement on the potential economic benefits of the project is provided within the Environmental Report, which suggests that the project would represent an inward investment of £7 million, however there is little assessment detail (e.g. on the proportion of this inward investment that would be spent in the local area). There is no evidence to suggest that this project will generate socio-economic effects of a scale likely to have significant cumulative effects with the Proposed Development.

ID	Justification for Scoping Out
45	This application has already been built out but has an appeal outstanding for the inclusion of a wind turbine. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
47	This is an emerging, un-adopted planning allocation. No construction phasing is given within policy documentation however the policy states that consideration will be given to pylon locations suggesting the development will be built after the Proposed Development. It is therefore unlikely significant cumulative effects would occur.
51	This application has been approved. EON have issued a public statement that they will not progress with the development. Therefore Is not considered to be reasonably foreseeable.
52	The application notes that the construction of the development will take place before October 2018 Significant cumulative effects associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development, these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.
56, 57, 81	This project is directly frustrated by the Proposed Development and has therefore already been considered in the assessment of effects and where appropriate mitigation measures have been identified. There will be no cumulative impacts with the Proposed Development.
58	Whilst consented, the project is currently on hold "*waiting for global economic conditions to improve*". Therefore there is no foreseeable certainty as to when the project will be developed.
60, 61	The application notes that construction of the development should be complete by late 2013. Therefore it is assumed that will be no overlap with the Proposed Development and no socio economic impacts are anticipated.
62	Significant cumulative impacts associated with construction employment are unlikely, as this type of development would require different skilled labour than the Proposed Development.

ID	Justification for Scoping Out
63, 65, 84	Significant cumulative impacts associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this type of development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development, these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.
66, 67	This project is expected to be operational by 2015. However, the identified construction programme has delayed by recent company news of a project hold. Without a clear programme it is not possible to assess if cumulative effects will occur.
68	Programme shows three years to submit reserved matters, submission and approval of which is ongoing. Two years to implement following approval of the last of the reserved matters. Construction to be complete by 2017.There is limited information relating to the socio-economic effects. Significant cumulative effects with the Proposed Development are unlikely.
70, 72, 76, 82	There is no construction phasing information for this development. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
71	There is limited information on the socio economic effects of the project as this is not a full planning application. There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
74	The site location has the potential for cumulative effects with National Grid's Proposed Development. However, the identified construction programme of 2011-14 has been superseded by the duration of the now approved project in the planning process. Without a clear programme it is not possible to assess if cumulative effects will occur.
77, 78	The application notes that construction of the development should be complete in 31 months however no start date has been confirmed. Without a clear programme it is not possible to assess if cumulative effects will occur.

ID	Justification for Scoping Out
79	No detailed information currently available and programme in relation to the Proposed Development is unknown. If progressed, the project is likely to result in inward investment to the economy and create employment demand. However, based on current lack of programme information it is not possible to assess what the cumulative effects, if any, would be.
80	An EIA Scoping Report and Opinion are currently available, which proposes the inclusion of land use, recreation and socio-economics. The Scoping Report notes that the earliest that construction would start is in 2015, with a planned commission date for the first unit at the end of 2019. If progressed, the project is likely to result in inward investment to the economy and create employment demand. However, based on the limited information in the scoping report it is not possible to assess what the cumulative effects, if any, would be.
83	This project is identified as part of the emerging local plan. It is scoped out on the basis that it is not currently considered to be reasonably foreseeable, nor is there sufficient information on the likely socio-economic effects (although, it is assumed that this type of development would require different skilled labour than the Proposed Development).
85, 89	There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
86	There is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
87	An EIA Scoping Report is available for this project, which highlights that socio-economic effects will be considered. These are mainly focused on the employment profile and consequences of in-migration of workforce. No further details are available. The Scoping Report notes that construction and commissioning of the project is expected to last around 9 years, and for the purposes of scoping was assumed to commence over the period 2013 to 2014 (although this is considered unlikely given that the project is in the early stages of the Development Consent Order process). If progressed, the project is likely to result in inward investment to the economy and create employment demand. However, based on current limited information available in the scoping report it is not possible to assess what the cumulative effects, if any, would be.
88	Due to this project expecting to be operational by 2015/16 before the commencement and with little overlap to the construction of the Proposed Development, significant cumulative impacts are not expected.

ID	Justification for Scoping Out
90	Due to this project expecting to be operational by 2015/16 before the commencement and with little overlap to the construction of the Proposed Development, significant cumulative impacts are not expected
93	This project, which comprises the decommissioning of Hinkley Point A, commenced in 2004 and is on-going (with expected entry into the care and maintenance phase by 2025 according to Magnox website). The decommissioning would require different skilled labour from the Proposed Development. It is not likely to have significant cumulative socio-economic effects with the Proposed Development.
94	The decommissioning of Hinkley Point B is long-term and would require different skilled labour from the Proposed Development. It is not likely to have significant cumulative socio-economic effects with the Proposed Development.
95	This project comprises proposals for new buildings within the existing licensed site boundary of Hinkley power station and there is no evidence to suggest that this project will generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development. Construction of the buildings is noted as likely to be completed in 2013.
97	Although this development will have similar impacts to the Proposed Development, it is not considered to be likely to generate effects of a scale likely to have significant cumulative socio-economic effects with the Proposed Development.
98	Construction of this project is expected to occur in two phases starting in 2015 and being completed by 2019. Significant cumulative effects associated with construction employment demand from the local labour market are considered insignificant between the Proposed Development and this development. The majority of the works for the Proposed Development will require skilled staff with specialist knowledge specific to the Proposed Development, these will be provided by the appointed contractor and are considered part of the assessed in-migrating workforce. Whilst cumulative demand for local staff could occur between elements of the civils work such as earthworks, access roads and fencing, the duration of these works for the Proposed Development are short periods (up to 6 month) within the overall programme. The Proposed Development has an identified peak local employment demand of up to 60 staff for civils work which is considered unlikely to have a significant cumulative effect with this project.effects.
EMF	

ID	Justification for Scoping Out
All Projects within Final Master List	Both the transmission and distribution assets associated with the Proposed Development have each been assessed for compliance against Government guideline limits documented in NPS EN-5. Electric and magnetic fields can combine with the EMFs already present in the development area from other sources such as appliances, domestic and industrial wiring etc; however the largest source of fields are typically from electricity transmission and distribution infrastructure. The way in which fields from different sources combine with each other is complex. The relative power flows, voltage and the relative phasing of each electrical asset would affect the direction of the fields from each asset and therefore whether they add or subtract with one another. The cumulative field could increase or decrease depending on the specific conditions, but it would only be a slight effect either way. However even considering the worst case situation of the maximum electric and magnetic fields from both the proposed 400kV overhead lines and cables combining, i.e. the highest EMFs encountered along the route, these combined fields would still be lower than the Government guideline levels. Therefore the cumulative impact of all of the components of the Proposed Development and any interactions with other developments which produce lower EMFs are not significant.