

Wylfa Newydd Project

Volume 6: Environmental Statement (Part 15/73)

ES Volume C - Road traffic-related effects (project-wide) Figure Booklet - Volume C

PINS Reference Number: EN010007

Application Reference Number: 6.3.32

June 2018

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Regulation Number: 5(2)(a)

Planning Act 2008
Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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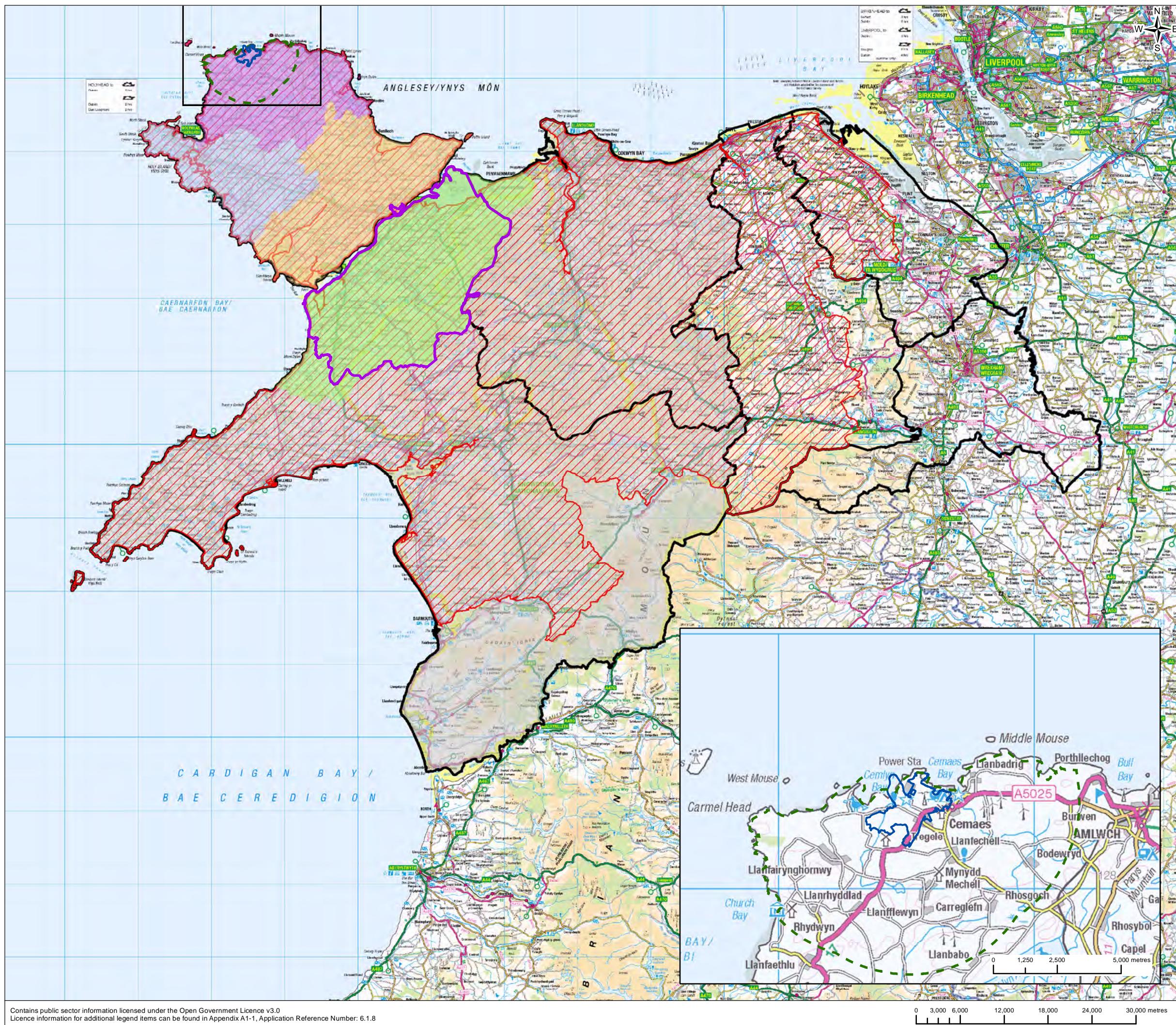
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FIGURE C1-1



Legend

- Wylfa Newydd Development Area
- Local Area of Influence
- Daily Construction Commuting Zone (DCCZ)
- Anglesey North
- Anglesey South
- Anglesey West
- Menai Mainland
- Arfon (parliamentary constituency)
- Snowdonia National Park
- North Wales
- North West Wales

1.0 MAR 18 DCO submission HNPWL HNPWL HNPWL HNPWL

Rev. Date Purpose of revision Drawn Check'd Rev'd App'd

HORIZON

NUCLEAR POWER

WYLFA NEWYDD PROJECT
ENVIRONMENTAL STATEMENT

Drawing Title
SOCIO-ECONOMIC STUDY AREAS

Scale @ A3 1:500,000 DO NOT SCALE

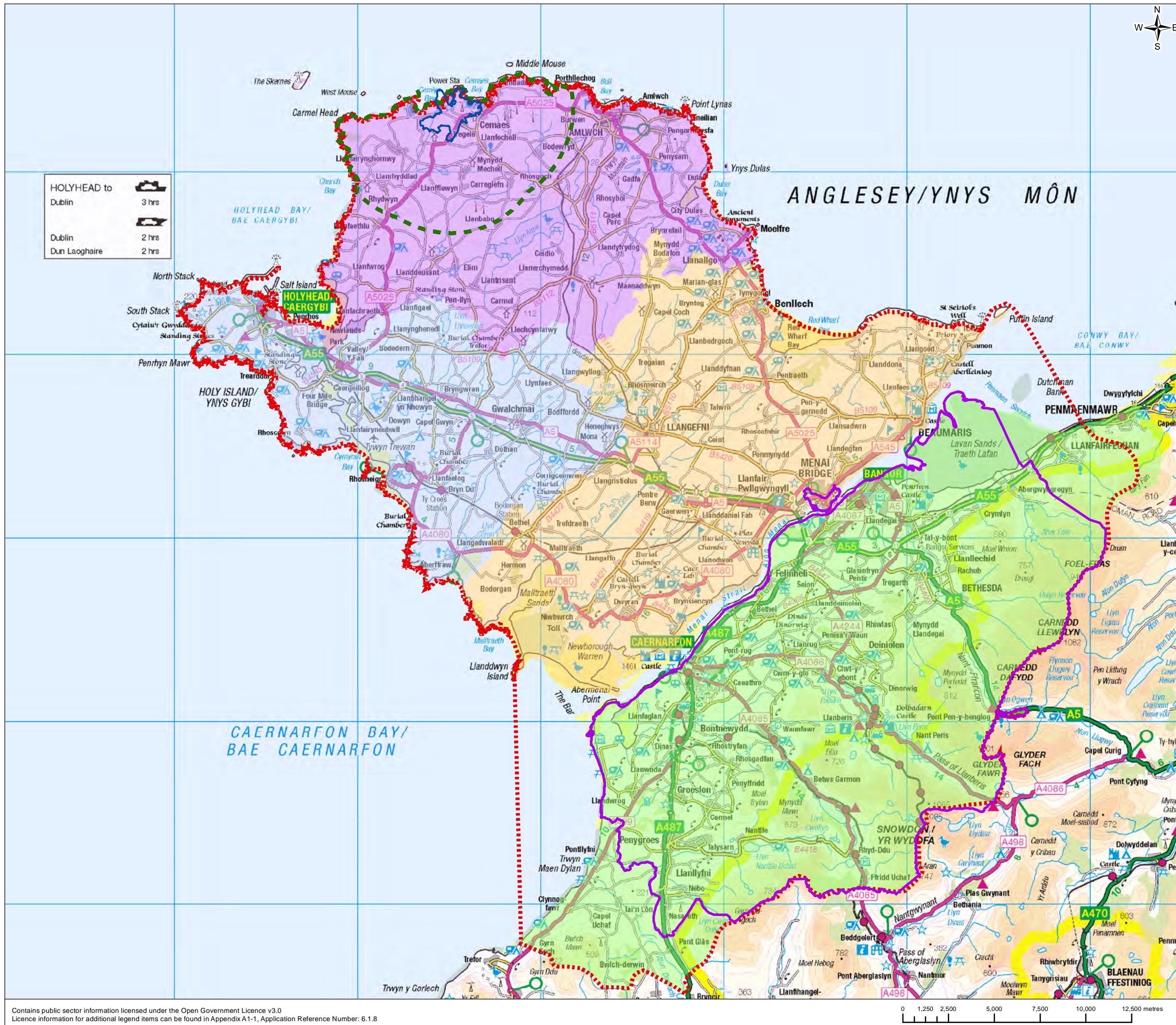
Jacobs No. 60PO8077

Client No.

Drawing No. 60PO8077_DCO_VOL_C_01_01

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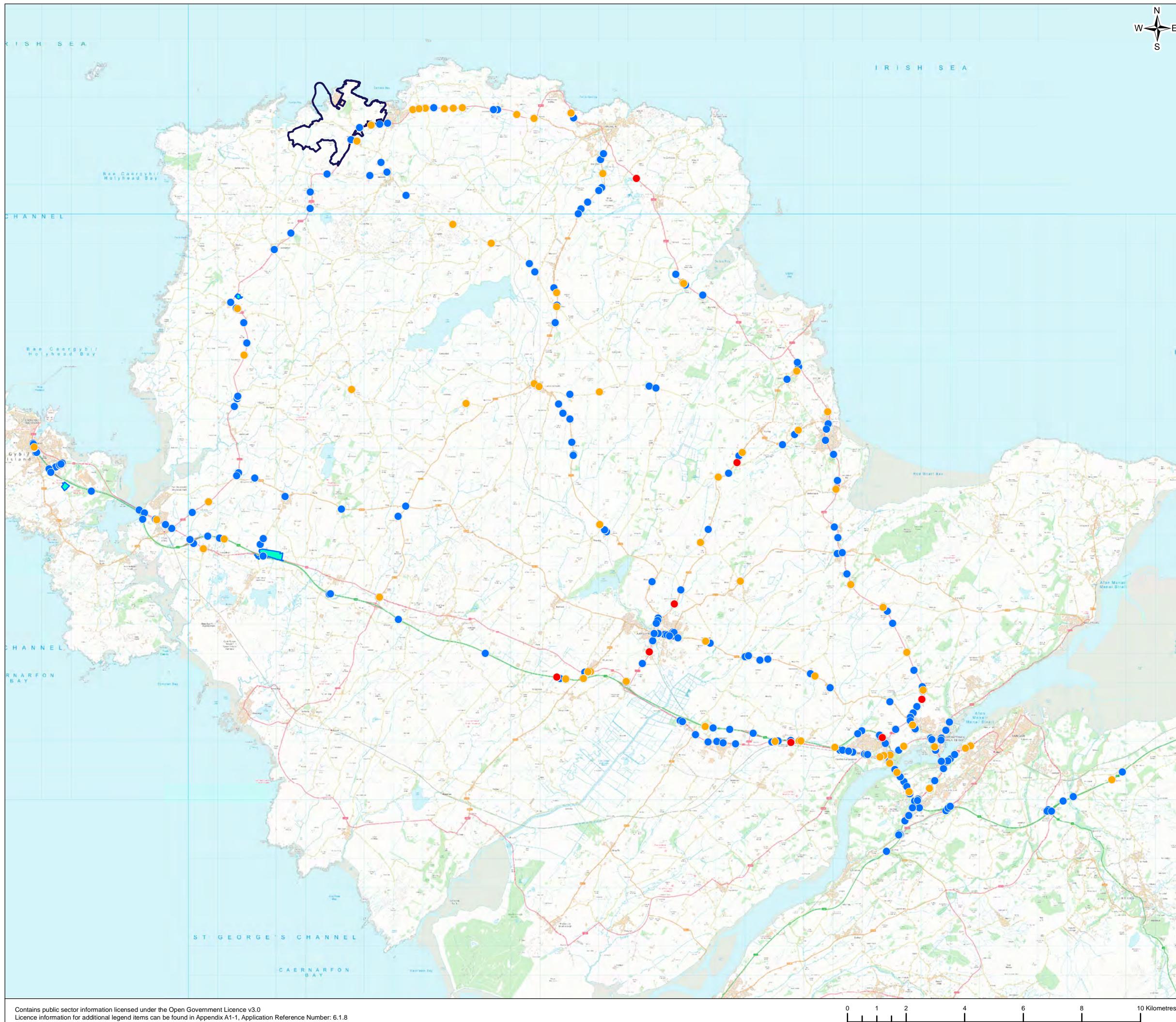
FIGURE C1-2



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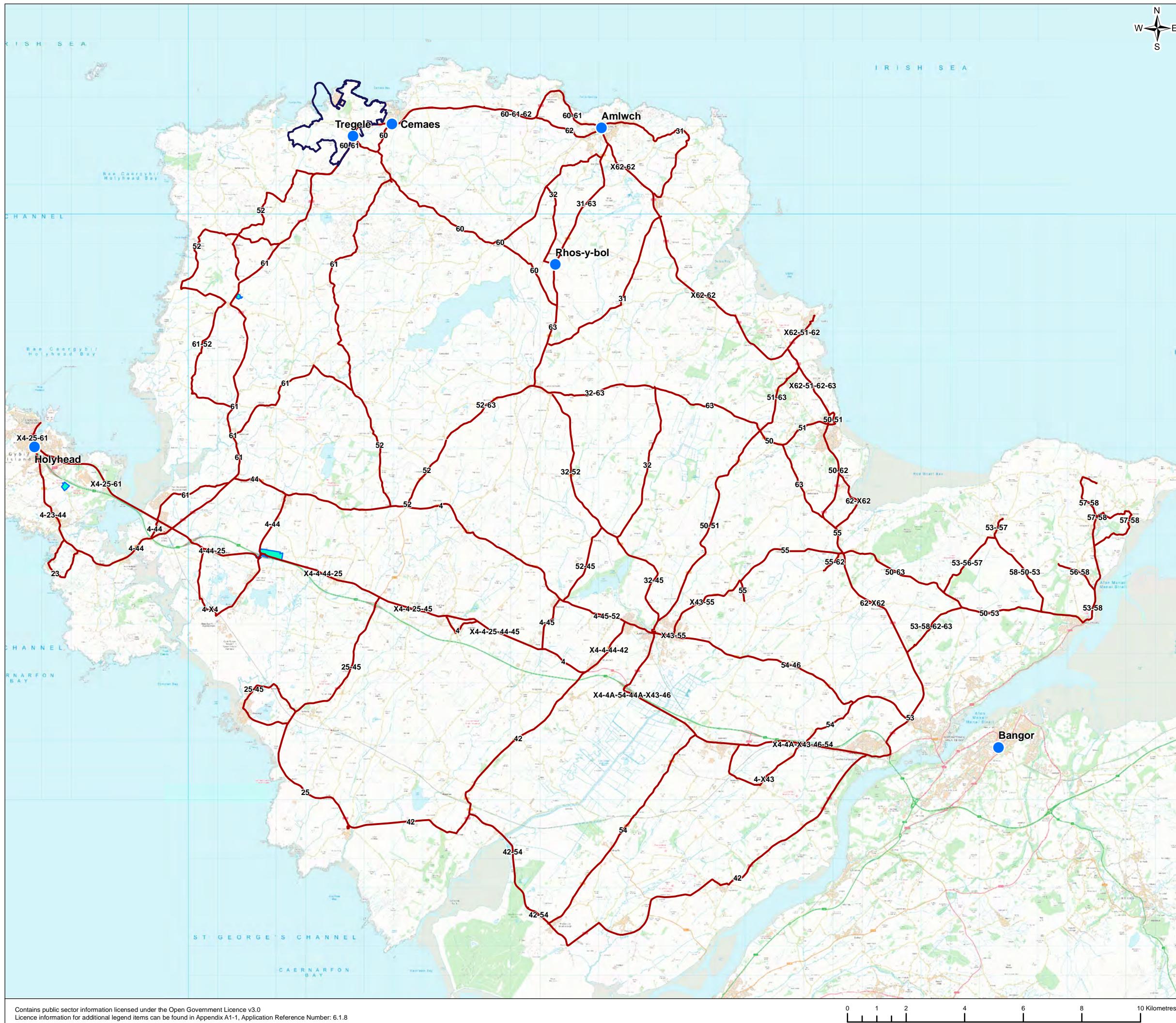
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FIGURE C2-1



Legend						
						Wylfa Newydd Development Area
						Associated Development sites (excluding A5025 Off-line Highway Improvements)
Accident by severity						
						● Fatal
						● Serious
						● Slight
Note:						
Department for Transport. 2016. STATS19: Road Safety Data. [Online]. [Accessed: 23 June 2016]. Available from: https://data.gov.uk/dataset/road-accidents-safety-data						
						
1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
HORIZON NUCLEAR POWER						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
ACCIDENTS						
Scale @ A3	1:125,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.	60PO8077_DCO_VOL_C_02_01					
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FIGURE C2-2



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
HORIZON						
NUCLEAR POWER						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
EXISTING BUS ROUTES						
Scale @ A3	1:125,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.	60PO8077_DCO_VOL_C_02_02					

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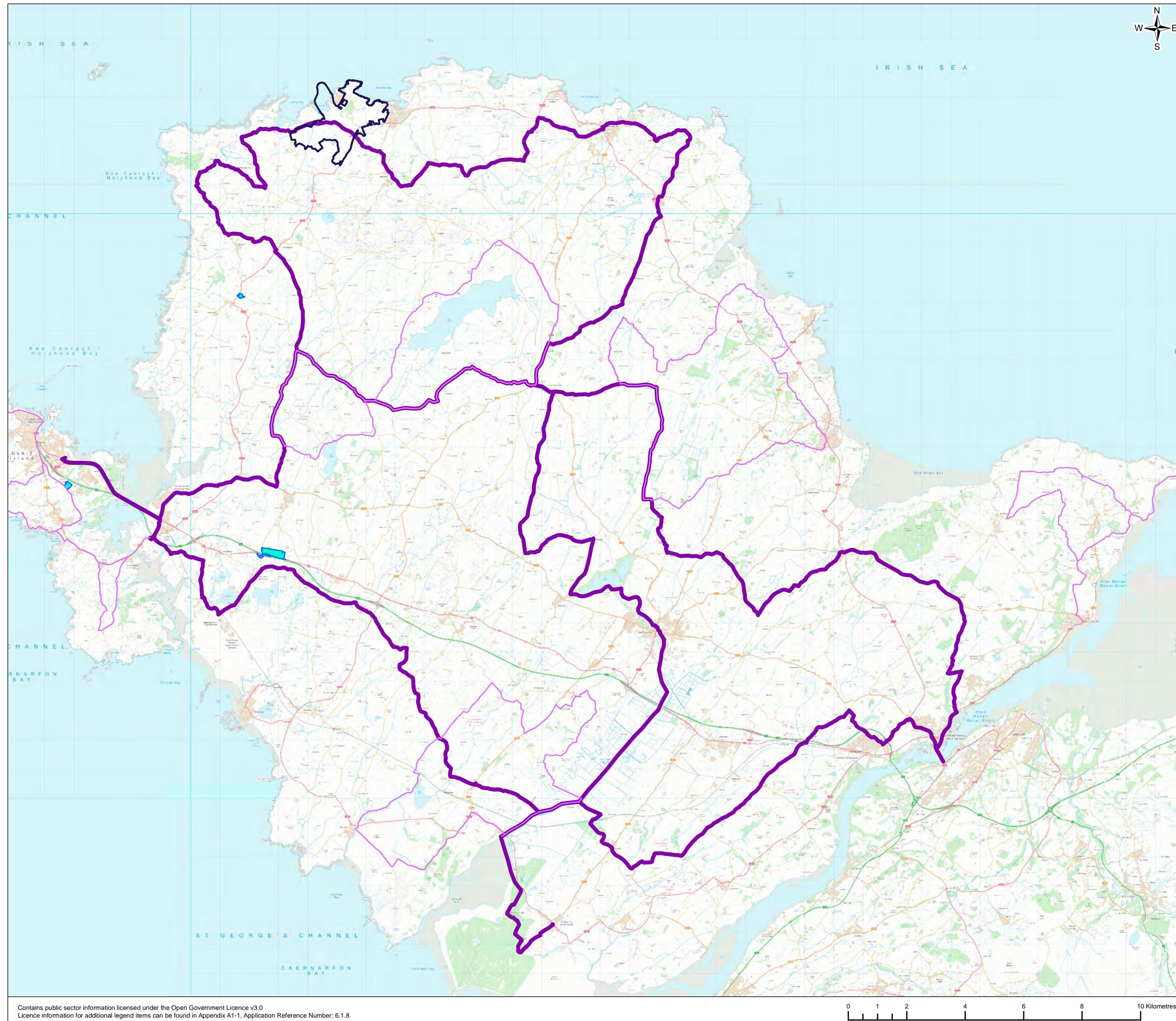


FIGURE C2-3

Legend

- Wylfa Newydd Development Area
- Associated Development sites (excluding A5025 Off-line Highway Improvements)
- National Cycle Network
- Existing Signed Cycle Network



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

HORIZON
NUCLEAR POWER

WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT

Drawing Title

EXISTING CYCLE ROUTES

Scale @ A3	1:125,000	DO NOT SCALE
Jacobs No.	60PO8077	
Client No.		
Drawing No.	60PO8077_DCO_VOL_C_02_03	

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FIGURE C3-1

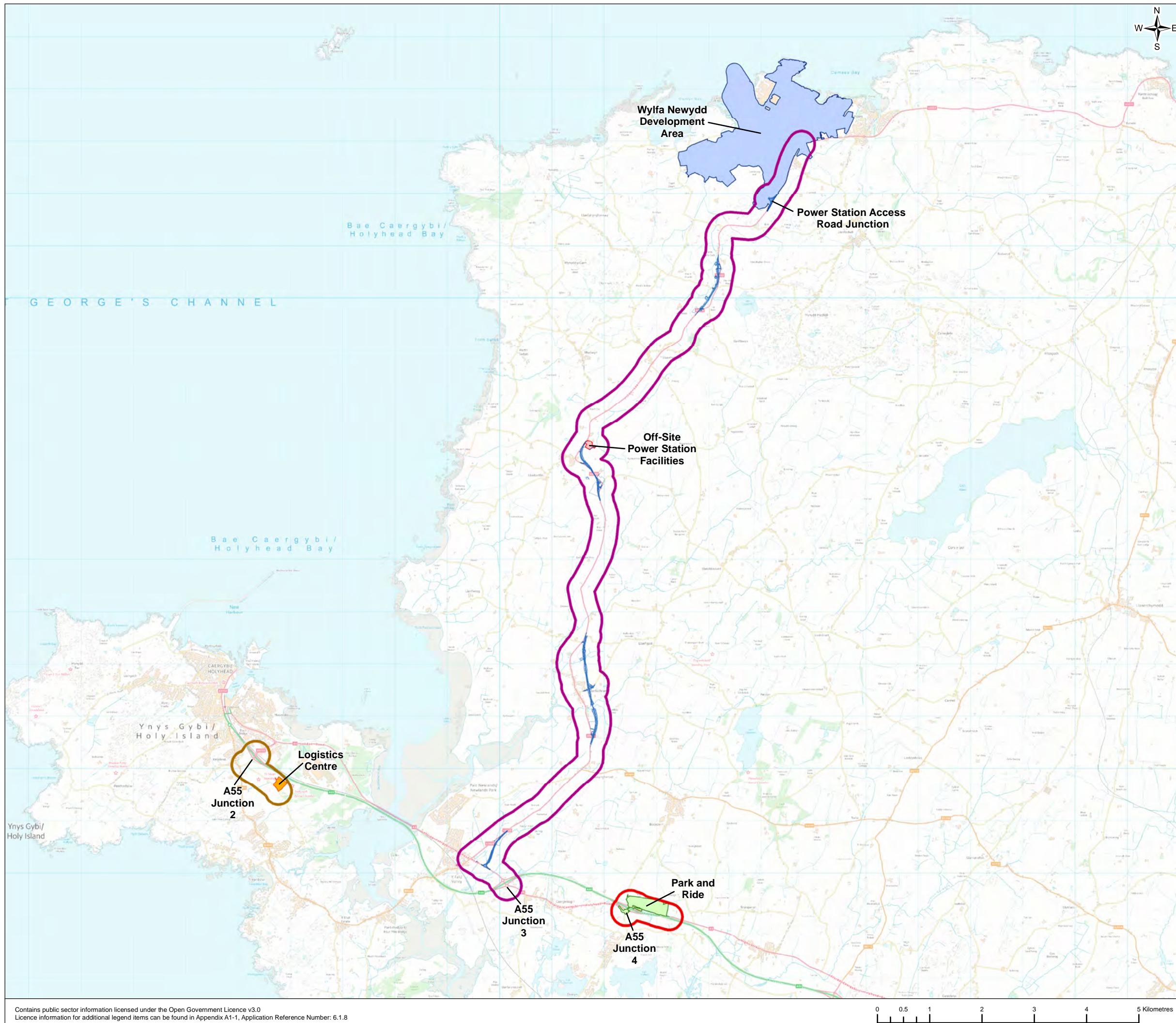
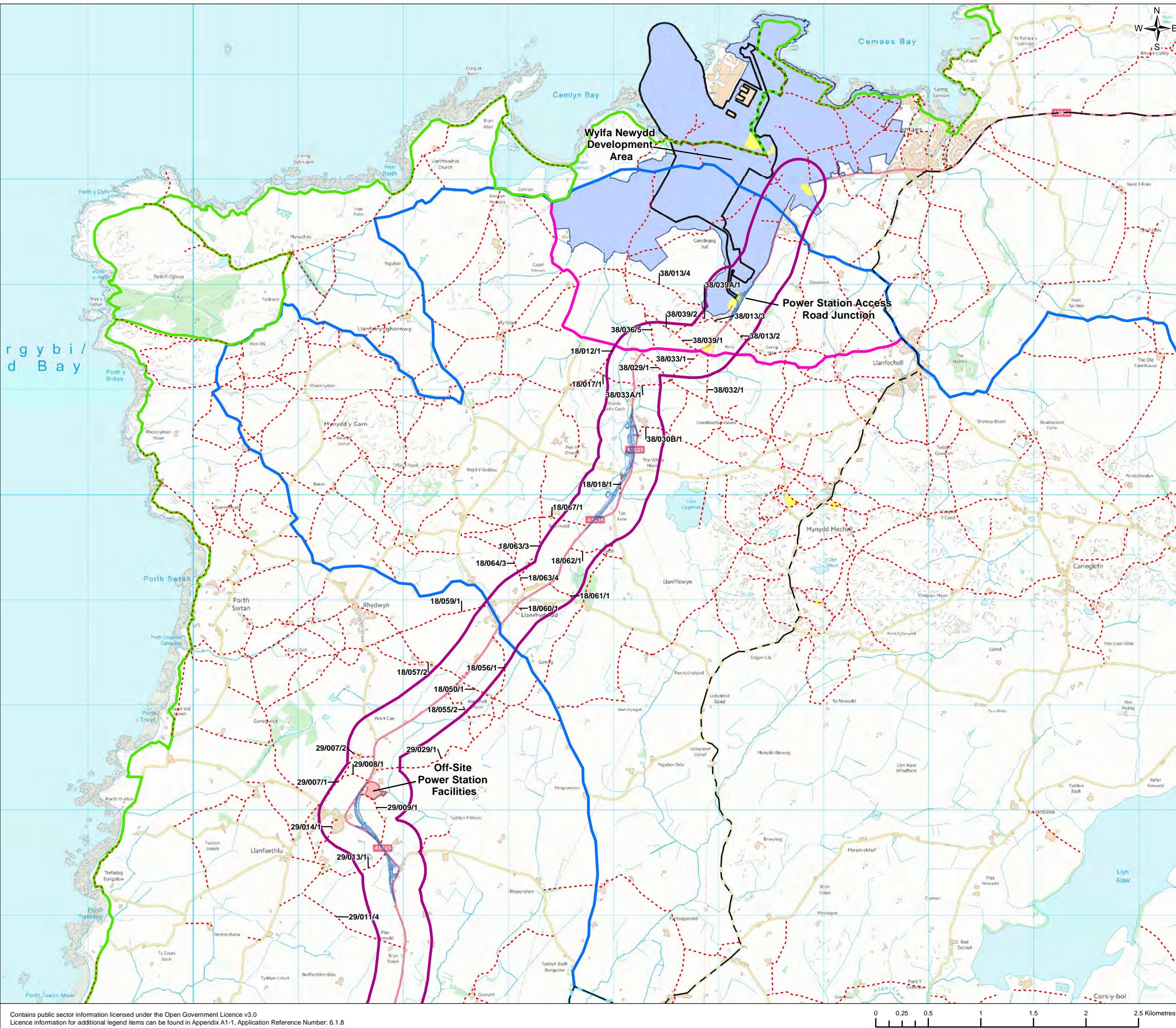
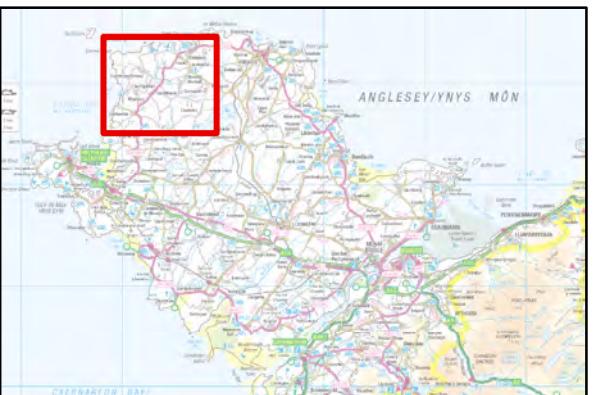


FIGURE C3-2



Legend

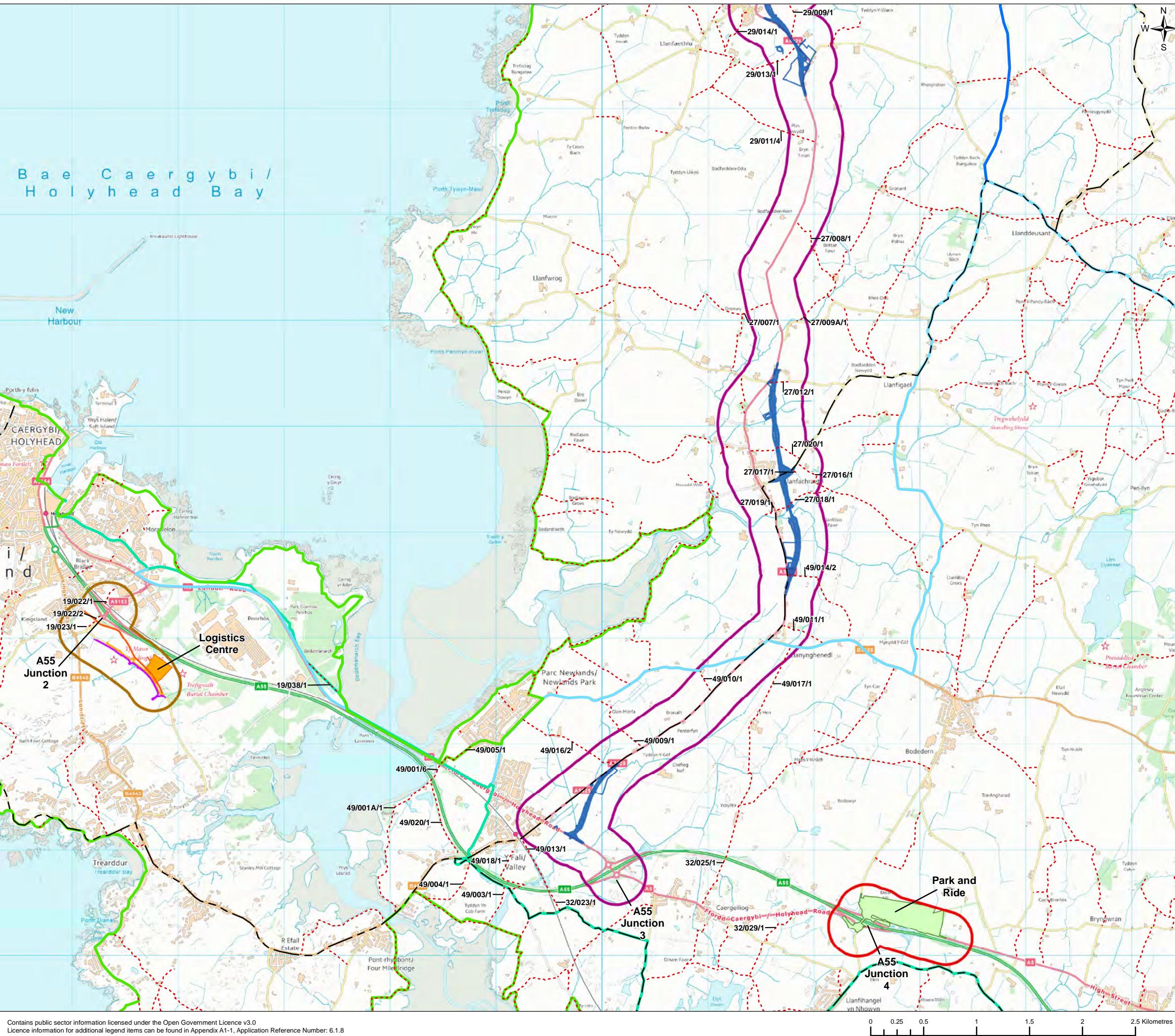
- A5025 Off-line Highway Improvements
- Study area for the link between Junction 3 of the A55 and the Off-site Power Station Facilities and the Wylfa Newydd Development Area
- Power Station Site
- Wylfa Newydd Development Area
- Off-Site Power Station Facilities
- Open Access and Common
- Public Right of Way
- Section of the Wales Coast Path to be diverted during construction and operation of the Wylfa Newydd Power Station
- Wales Coast Path
- National Cycle Network Route 5
- National Cycle Network Route 566 (Copper Trail)
- Proposed Copper Trail diversion
- Tour de Môn route



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
PUBLIC ACCESS AND RECREATION FEATURES (NORTHERN AREA)						
Scale @ A3	1:35,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.	60PO8077_DCO_VOL_C_03_02					

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FIGURE C3-3



Legend

1.0 MAR 18 DCO submission HNPWL HNPWL HNPWL HNPWL

Rev. Date Purpose of revision Drawn Check'd Rev'd App'd

Client

Project

WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT

Drawing Title

PUBLIC ACCESS AND RECREATION FEATURES (SOUTHERN AREA)

Scale @ A3 1:35,000 DO NOT SCALE

Jacobs No. 60PO8077

Client No.

Drawing No. 60PO8077_DCO_VOL_C_03_03

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HORIZON
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FIGURE C4-1

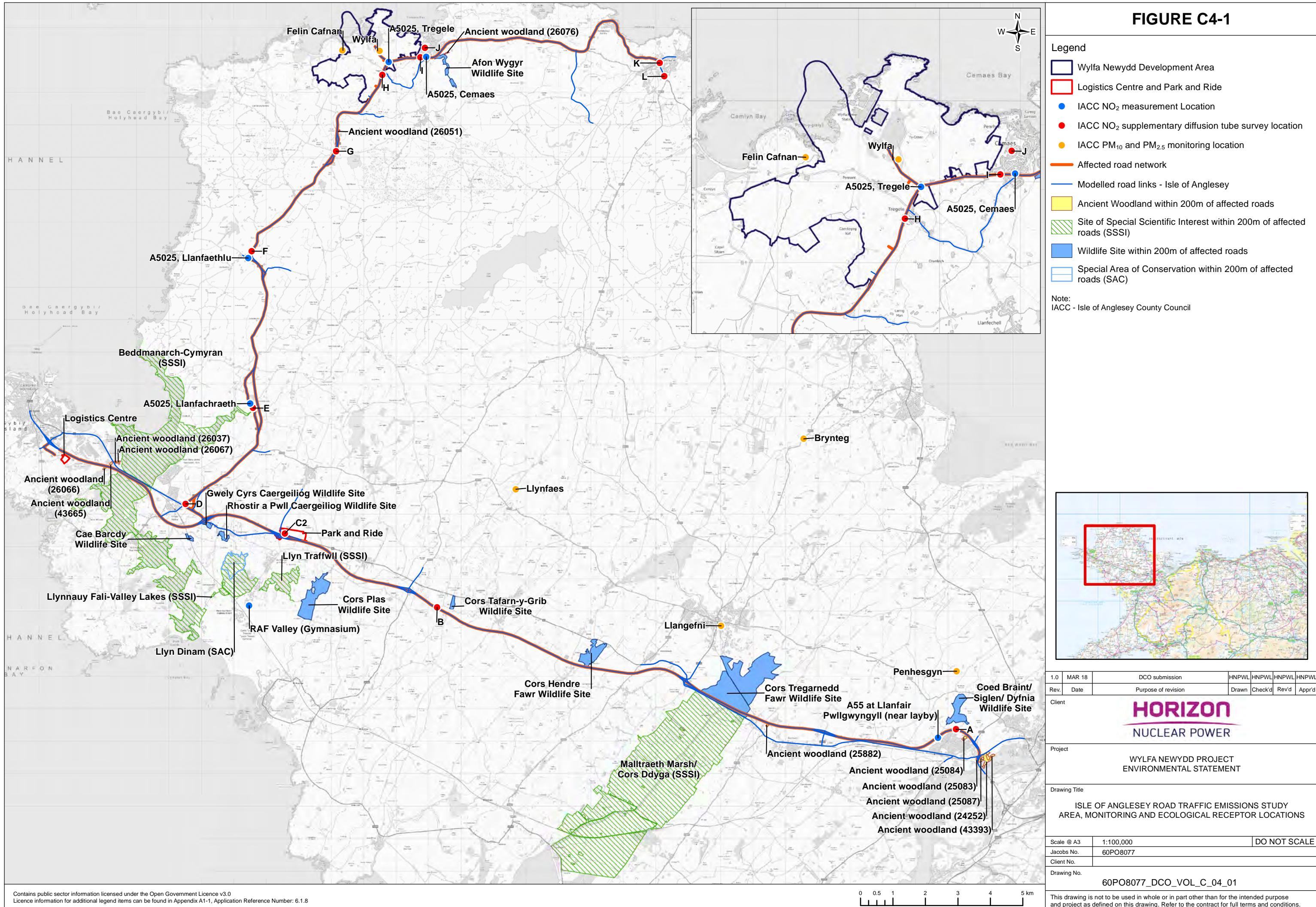
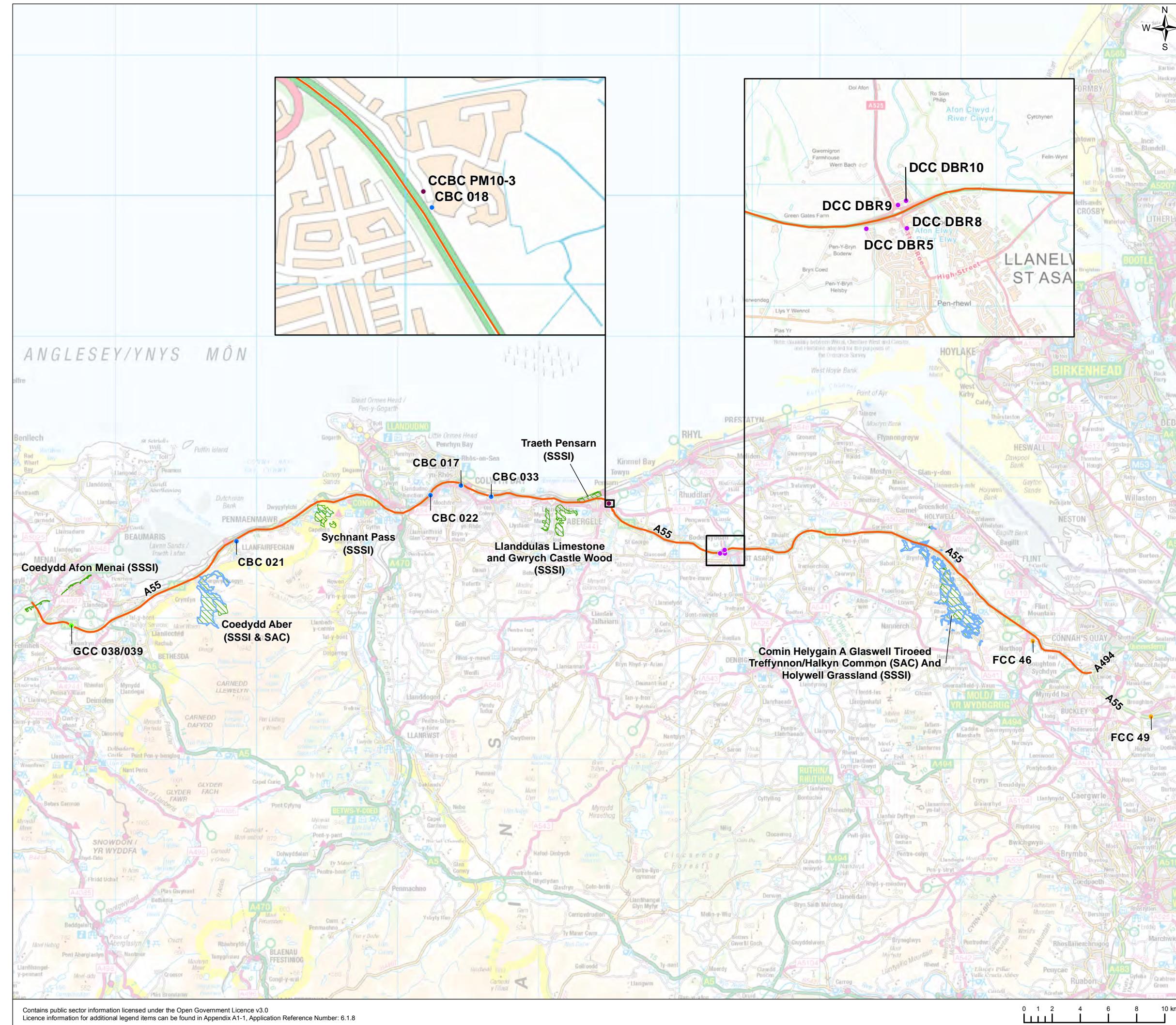


FIGURE C4-2



HORIZON
NUCLEAR POWER

WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT

MAINLAND WALES ROAD TRAFFIC EMISSIONS STUDY

⑧ A3	1:260,000	DO NOT SCALE
No.	60PO8077	
o.		
g No.	60PO8077_DCO_VOL_C_04_02	

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FIGURE C4-3

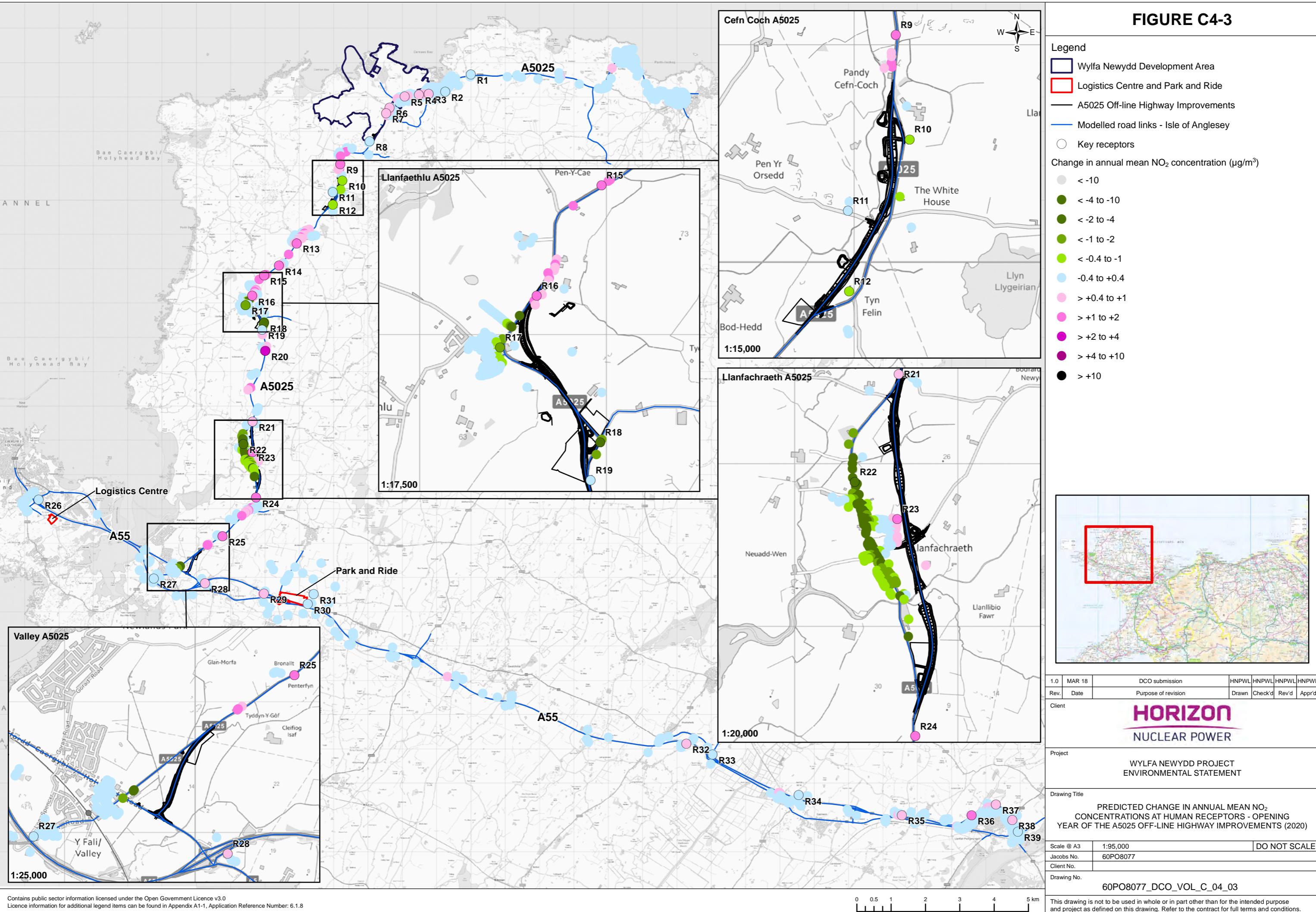


FIGURE C4-4

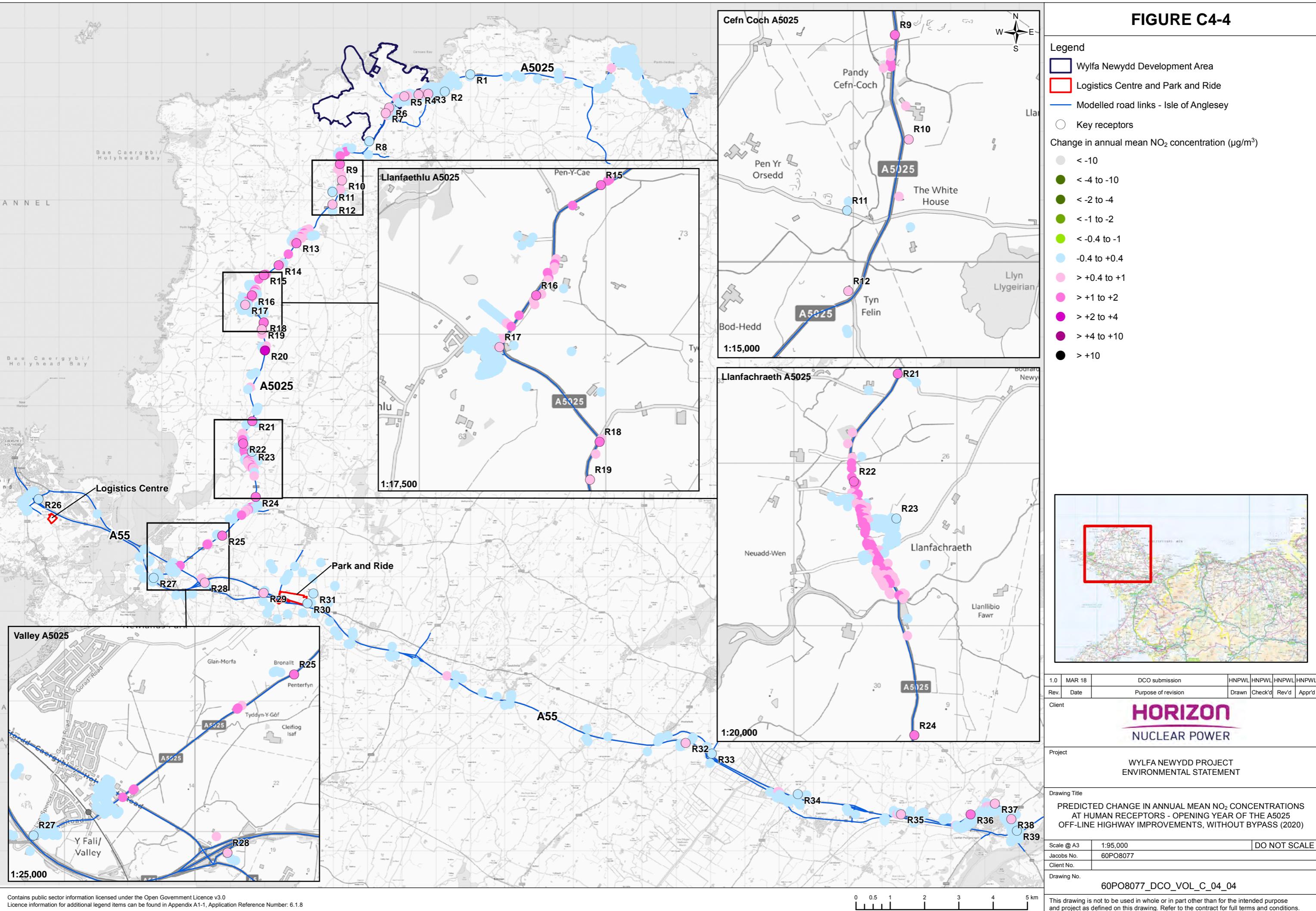


FIGURE C4-5

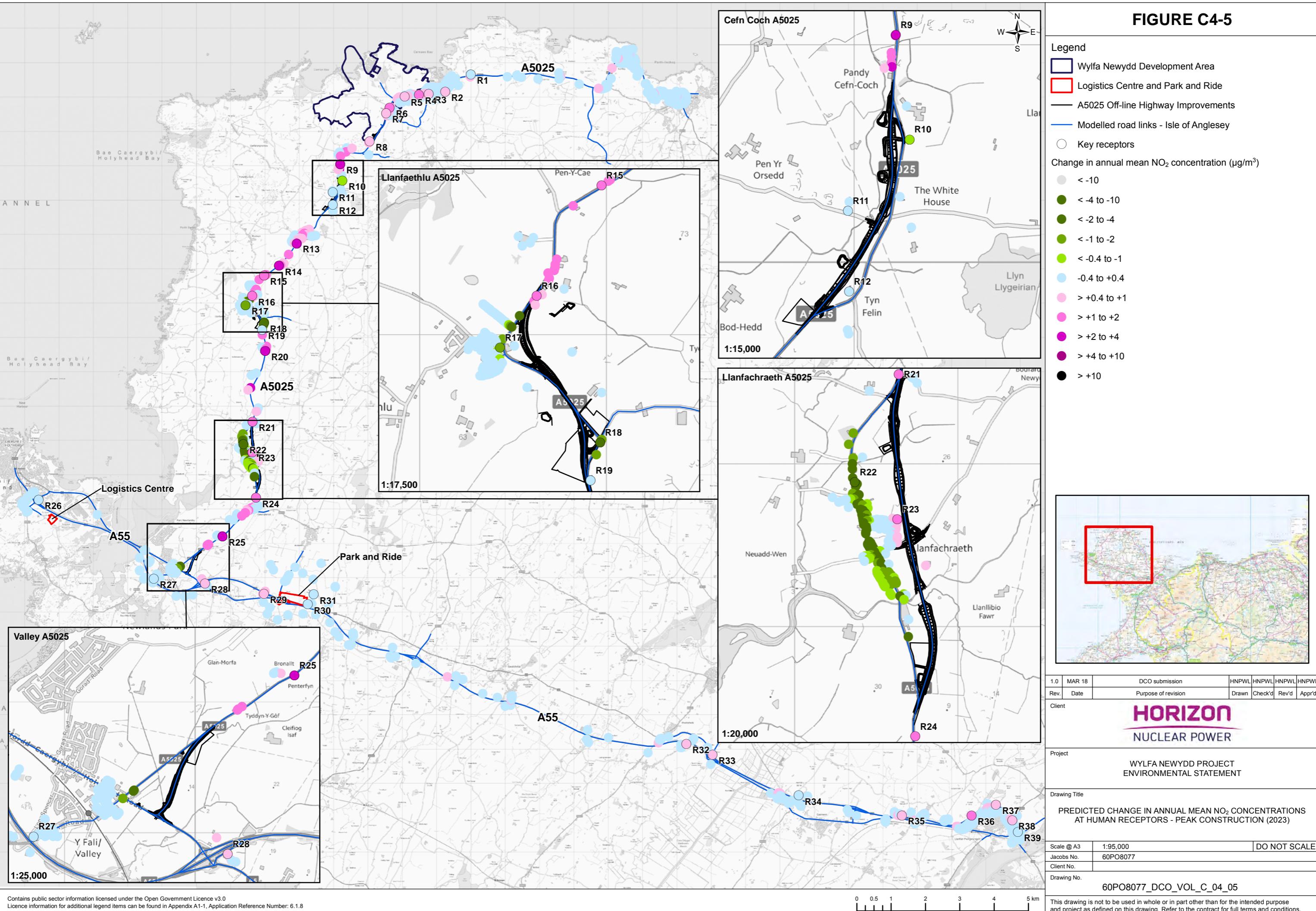


FIGURE C4-6

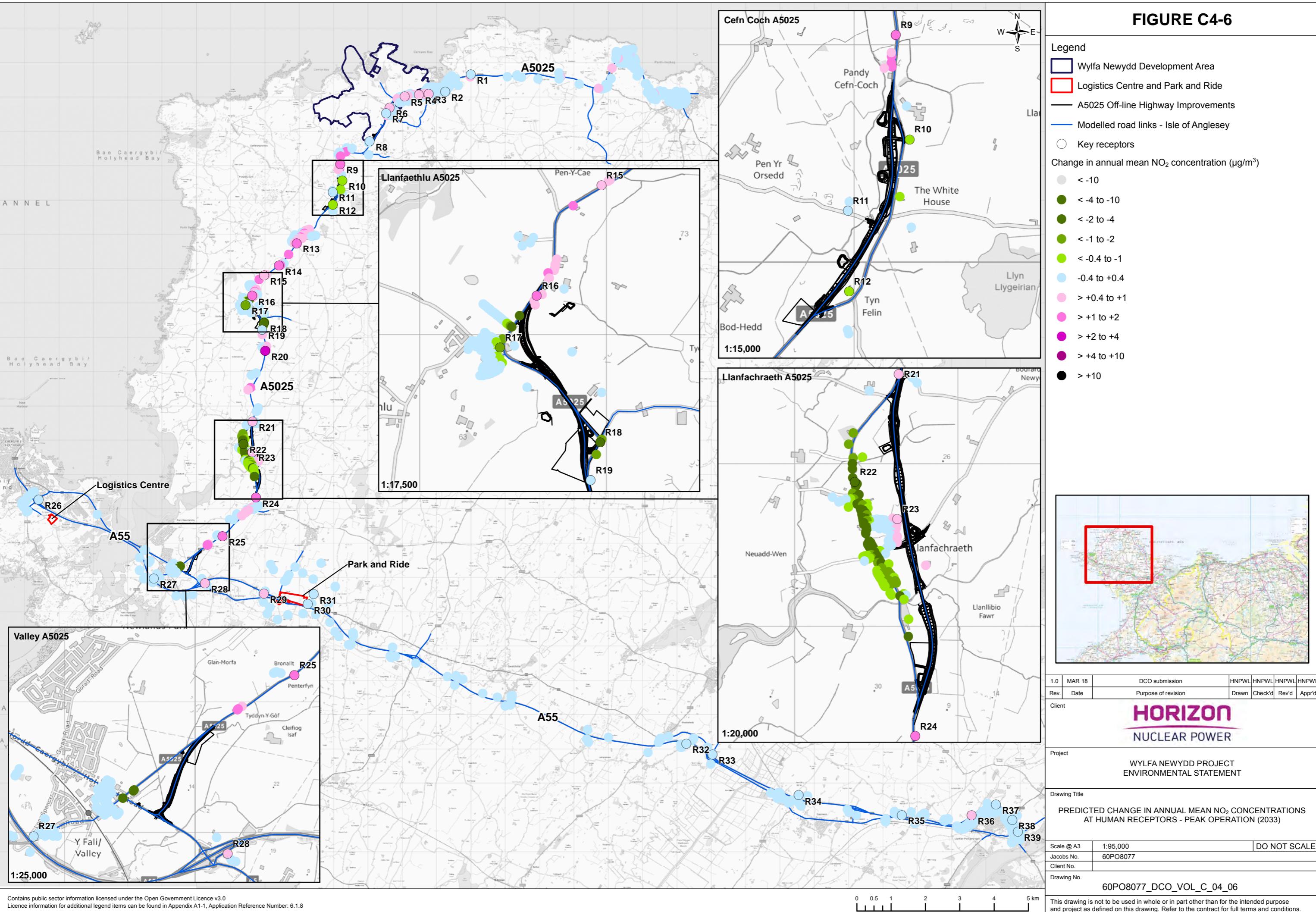
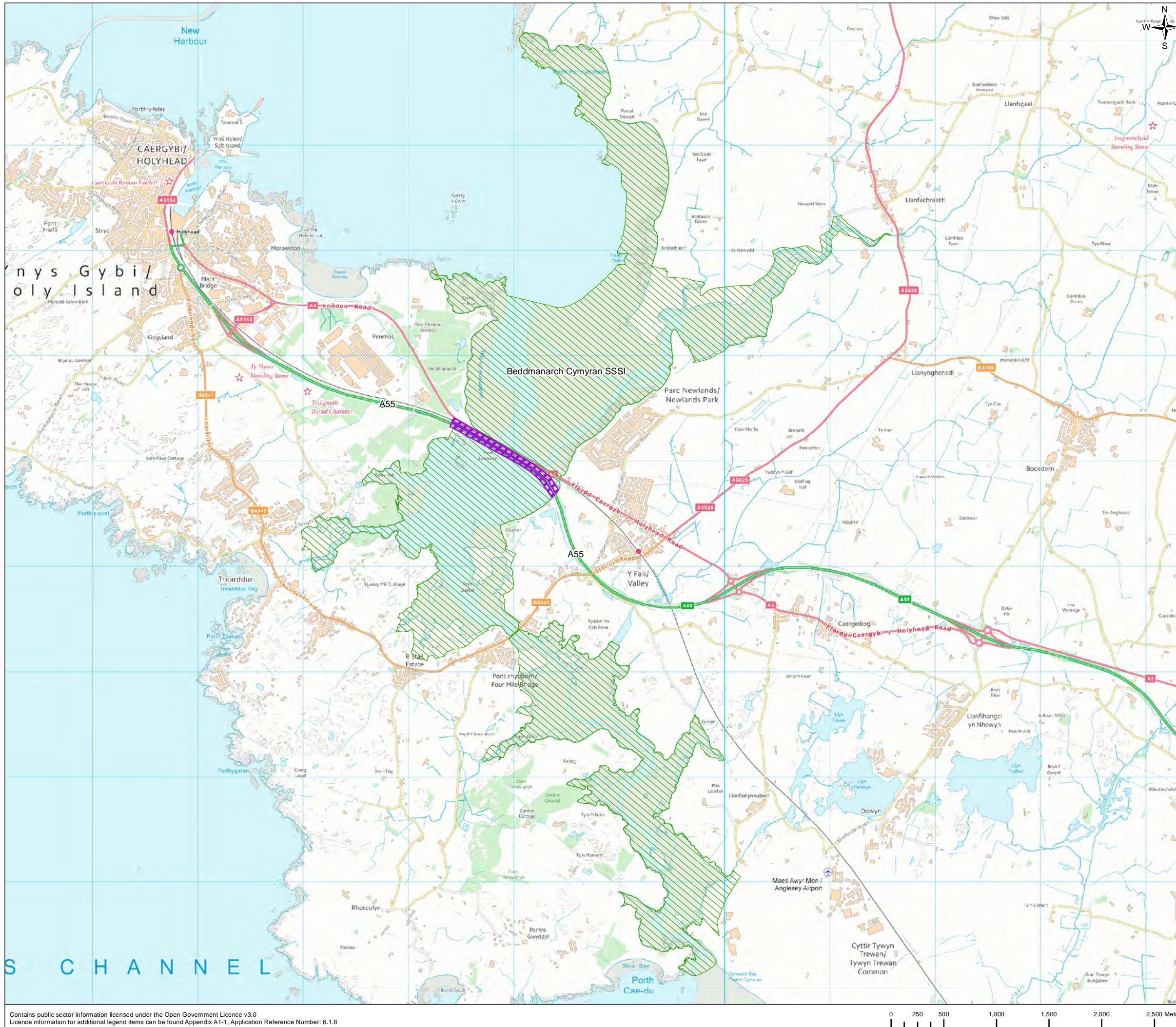


FIGURE C4-7



Legend

Beddmanarch Cymyran Site of Special Scientific Interest (SSSI)

NOx concentration increase greater than 1% of the critical level and greater than 70% of the predicted environmental concentration (PEC)



1.0 MAR 18 DCO submission HNPWL HNPWL HNPWL HNPWL

Rev. Date Purpose of revision Drawn Check'd Rev'd App'd

Client

HORIZON
NUCLEAR POWER

Project

WYLFA NEWYDD PROJECT
ENVIRONMENTAL STATEMENT

Drawing Title
2020 OPENING YEAR OF THE A5025
OFFLINE HIGHWAY IMPROVEMENTS, WITH BYPASSES
AIR QUALITY EFFECTS IN RELATION TO
BEDDMANARCH CYMYRAN SSSI

Scale @ A3 1:35,000 DO NOT SCALE

Jacobs No. 60PO8077

Client No.

Drawing No. 60PO8077_DCO_VOL_C_04_07

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FIGURE C5-1

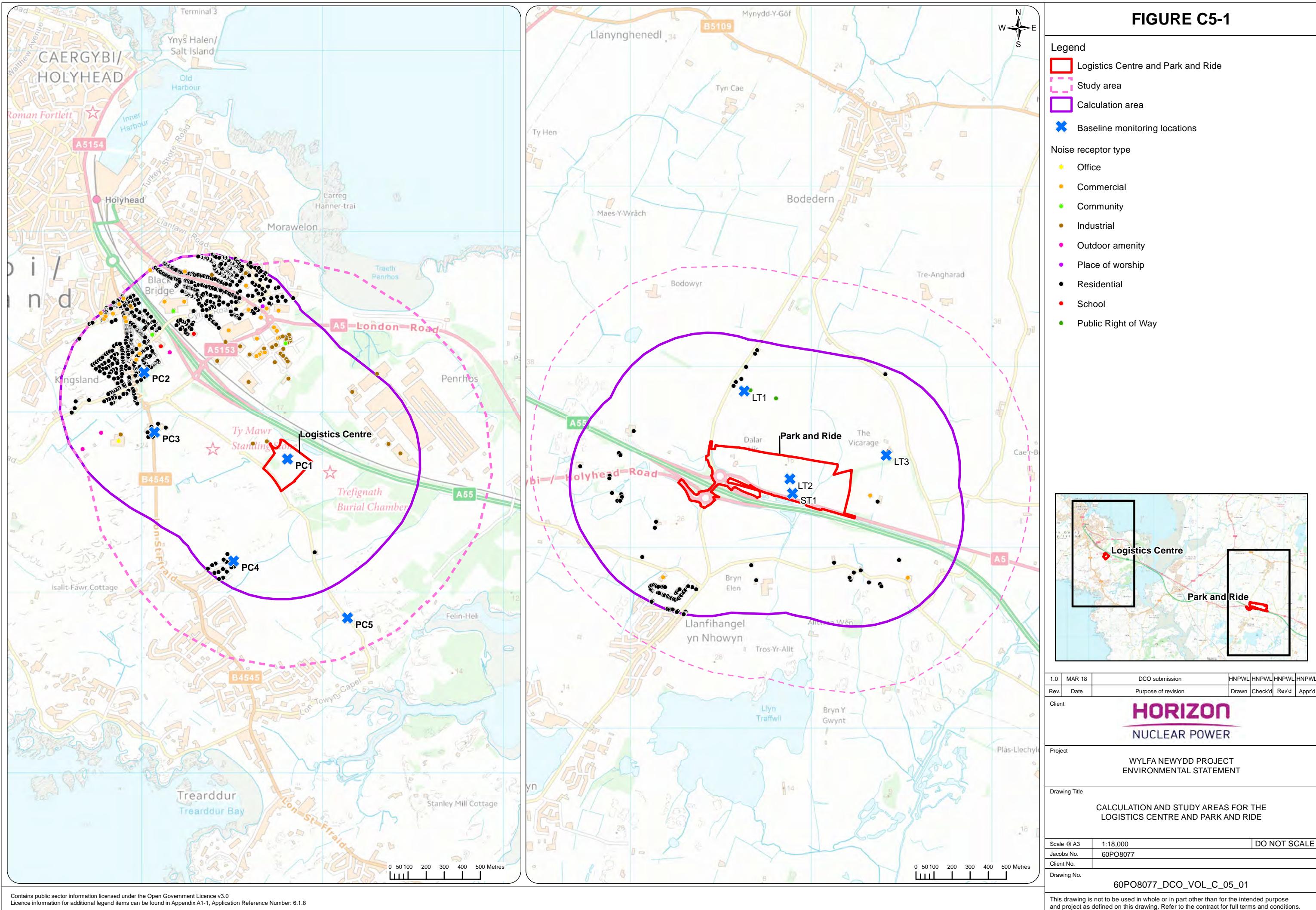
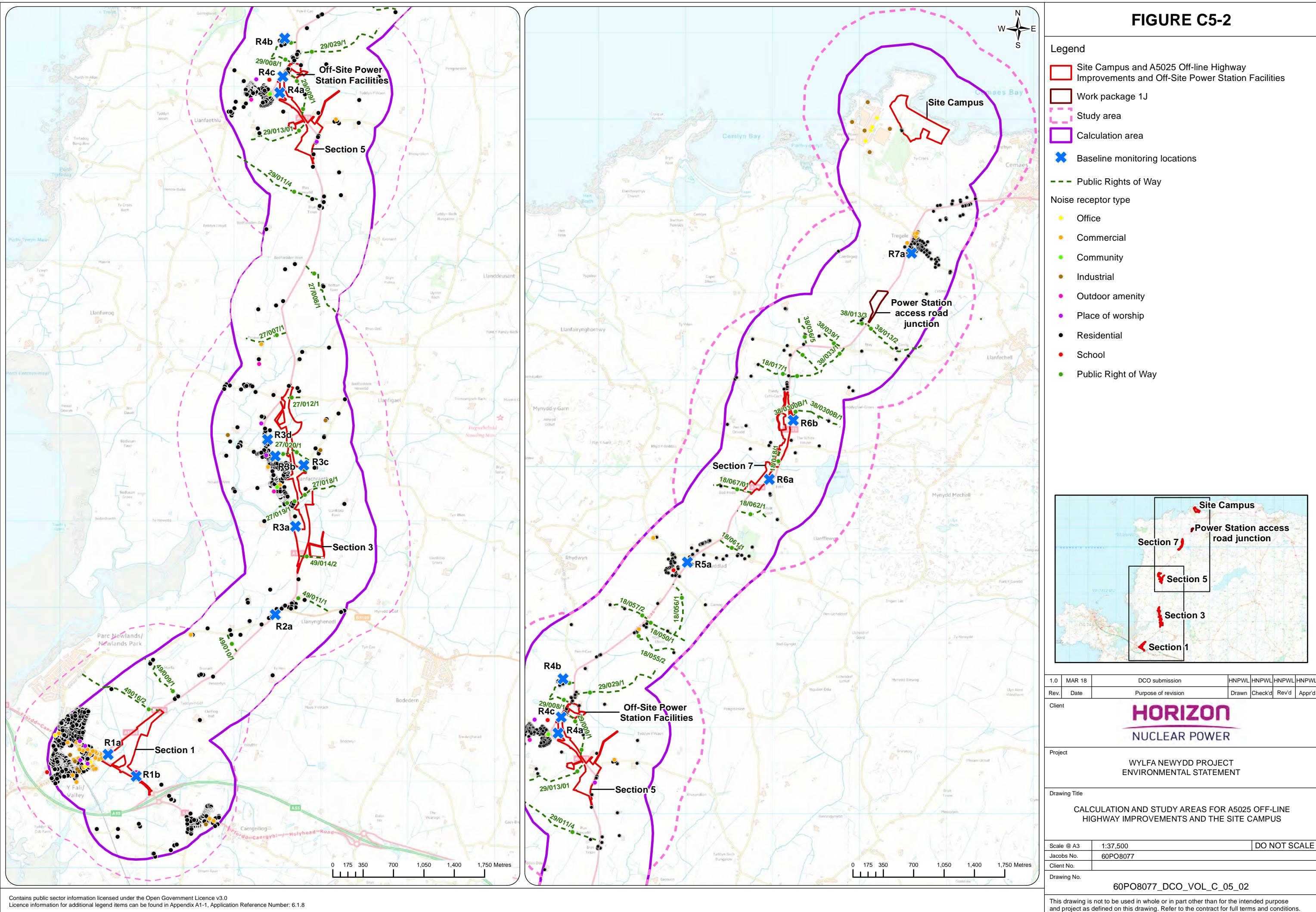


FIGURE C5-2



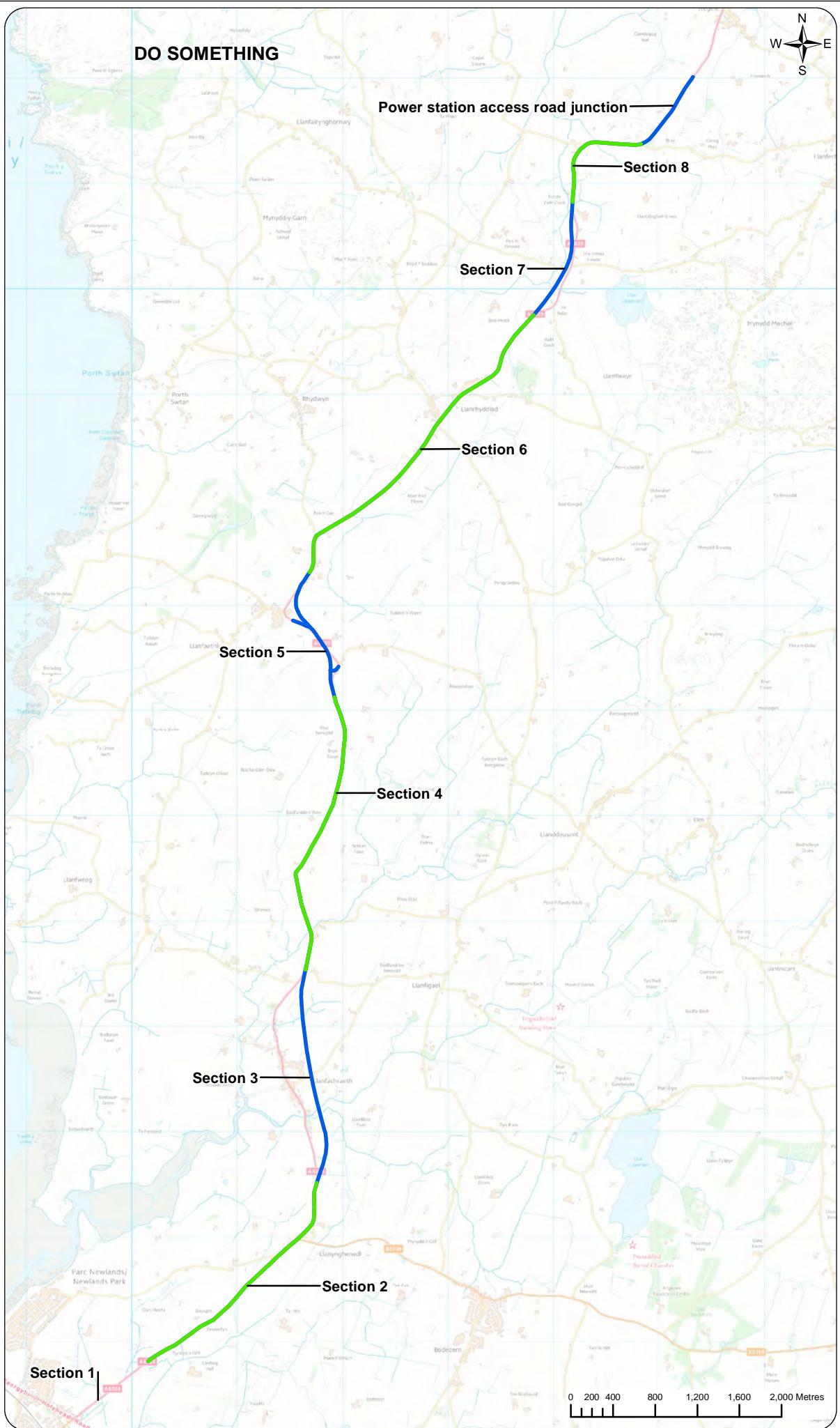
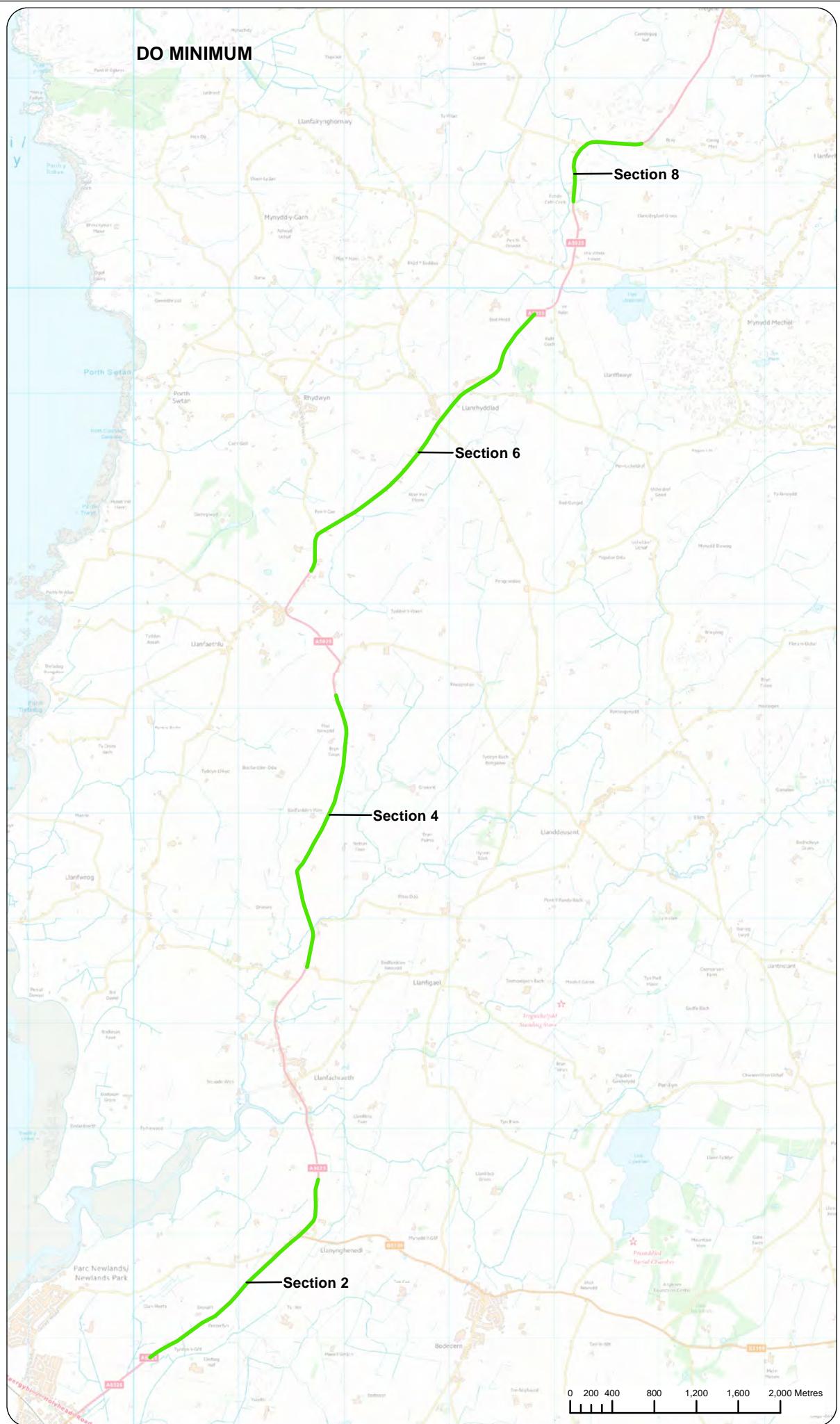


FIGURE C5-3

Legend

— LNRS prior to A5025 improvements

— LNRS subsequent to A5025 improvements



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HORIZON
NUCLEAR POWER

WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT

AREAS OF LOW NOISE ROAD SURFACE (LNRS) PRIOR TO THE A5025 IMPROVEMENTS (LEFT PANE) AND SUBSEQUENT TO COMPLETION (RIGHT PANE)

Scale @ A3 1:50,000 DO NOT SCALE

60PO8077

Client No.

60R08077 DCO VOL C 05 03

60PO8077_DCO_VOL_C_05_03

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FIGURE C5-4

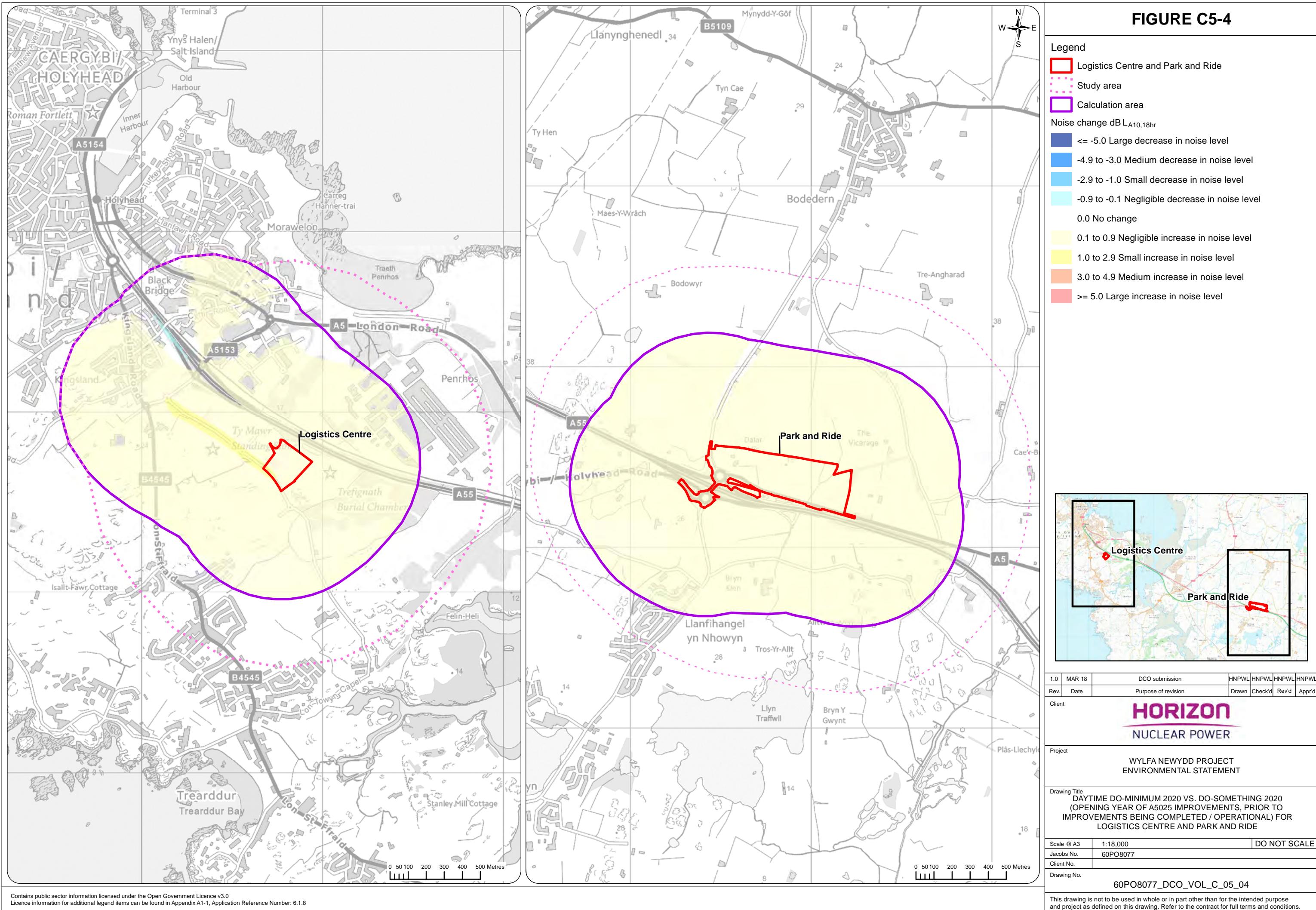
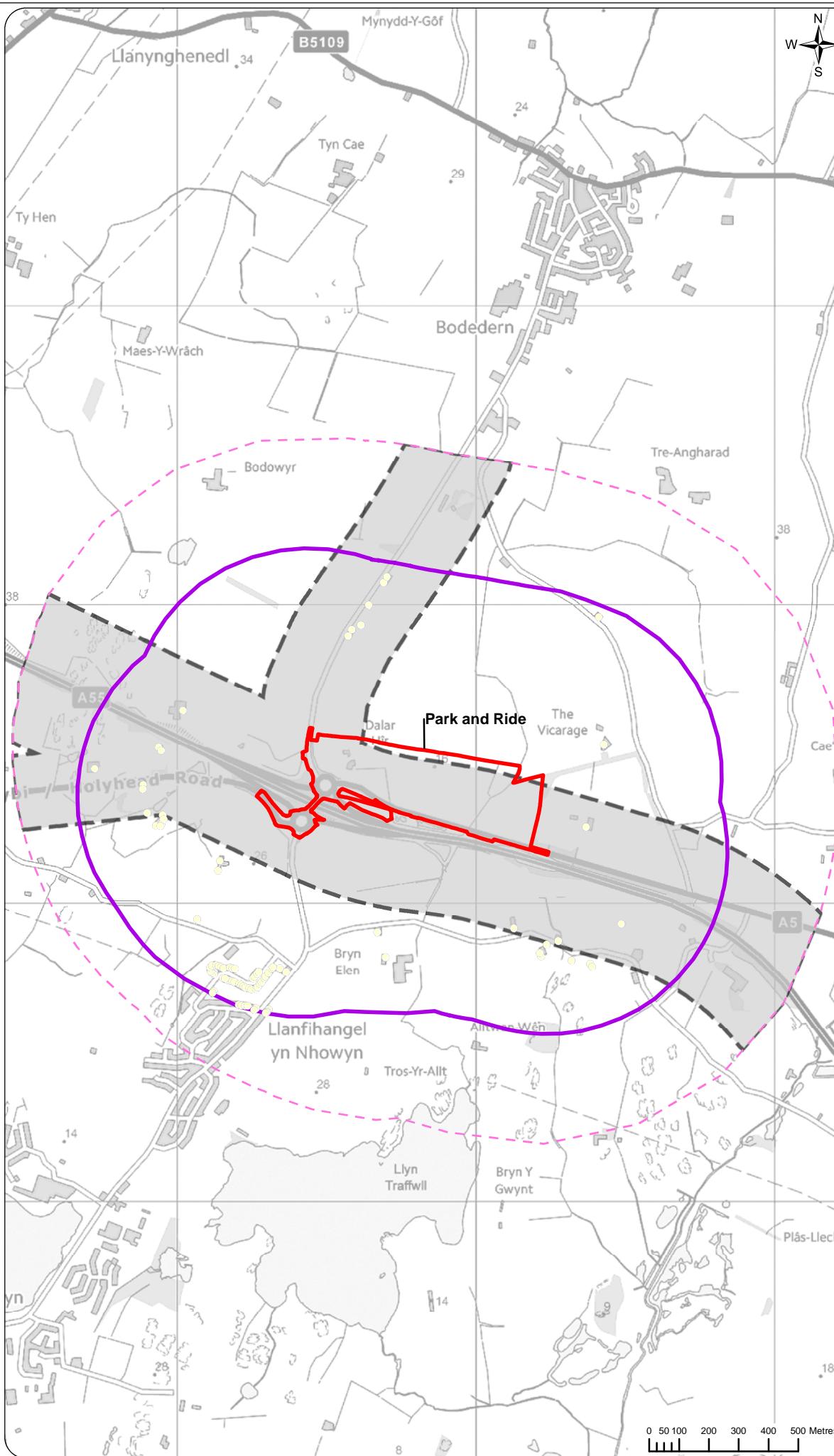


FIGURE C5-5



Legend	
 	Logistics Centre and Park and Ride
 	Study area
 	Calculation area
 	Estimated 60 dB LMax Buffer
	Noise change dB L _{Aeq,8hr}
• Large decrease in noise level	
• Medium decrease in noise level	
• Small decrease in noise level	
• Negligible decrease in noise level	
• No change	
• Negligible increase in noise level	
• Small increase in noise level	
• Medium increase in noise level	
• Large increase in noise level	

Logistics Centre

Park and Ride

1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						

HORIZON
NUCLEAR POWER

Project

WYLFA NEWYDD PROJECT
ENVIRONMENTAL STATEMENT

Drawing Title

NIGHT-TIME DO-MINIMUM 2020 VS. DO-SOMETHING 2020
(WITHOUT IMPROVEMENTS COMPLETED AND OPERATIONAL)
LOGISTICS CENTRE AND PARK AND RIDE

Scale @ A3	1:18,000	DO NOT SCALE
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Client No.		
Drawing No.	60PO8077_DCO_VOL_C_05_05	

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FIGURE C5-6

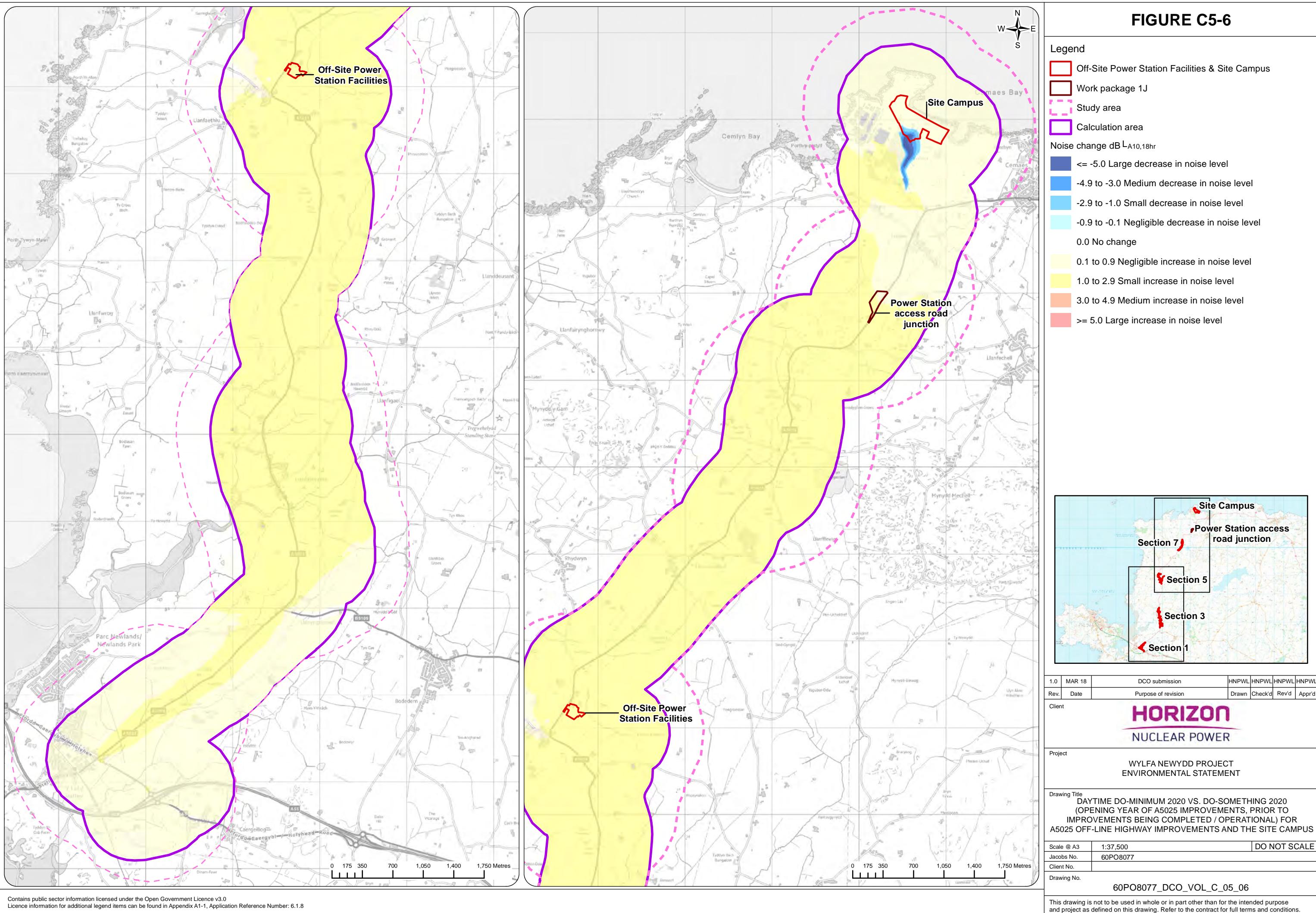


FIGURE C5-7

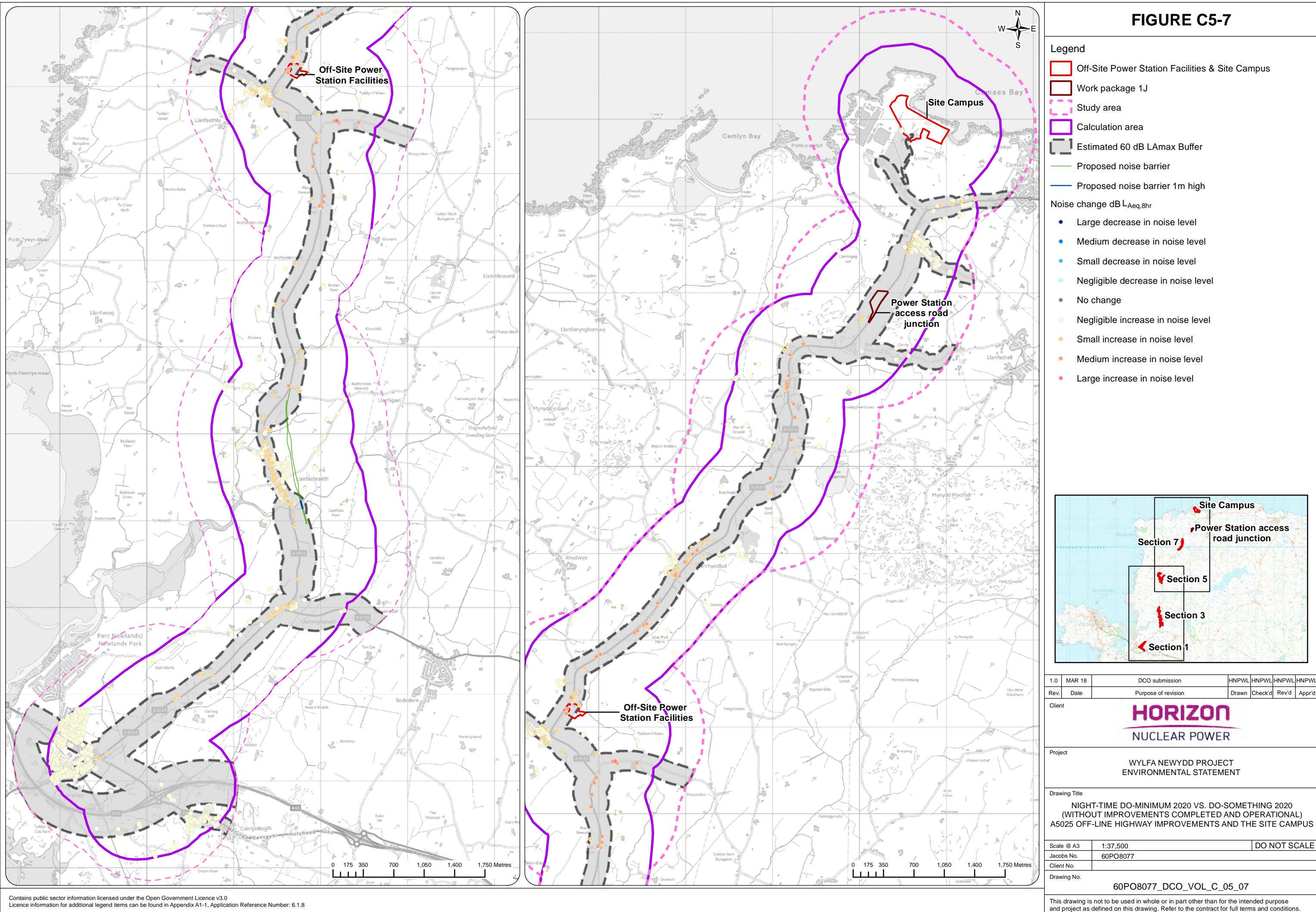


FIGURE C5-8

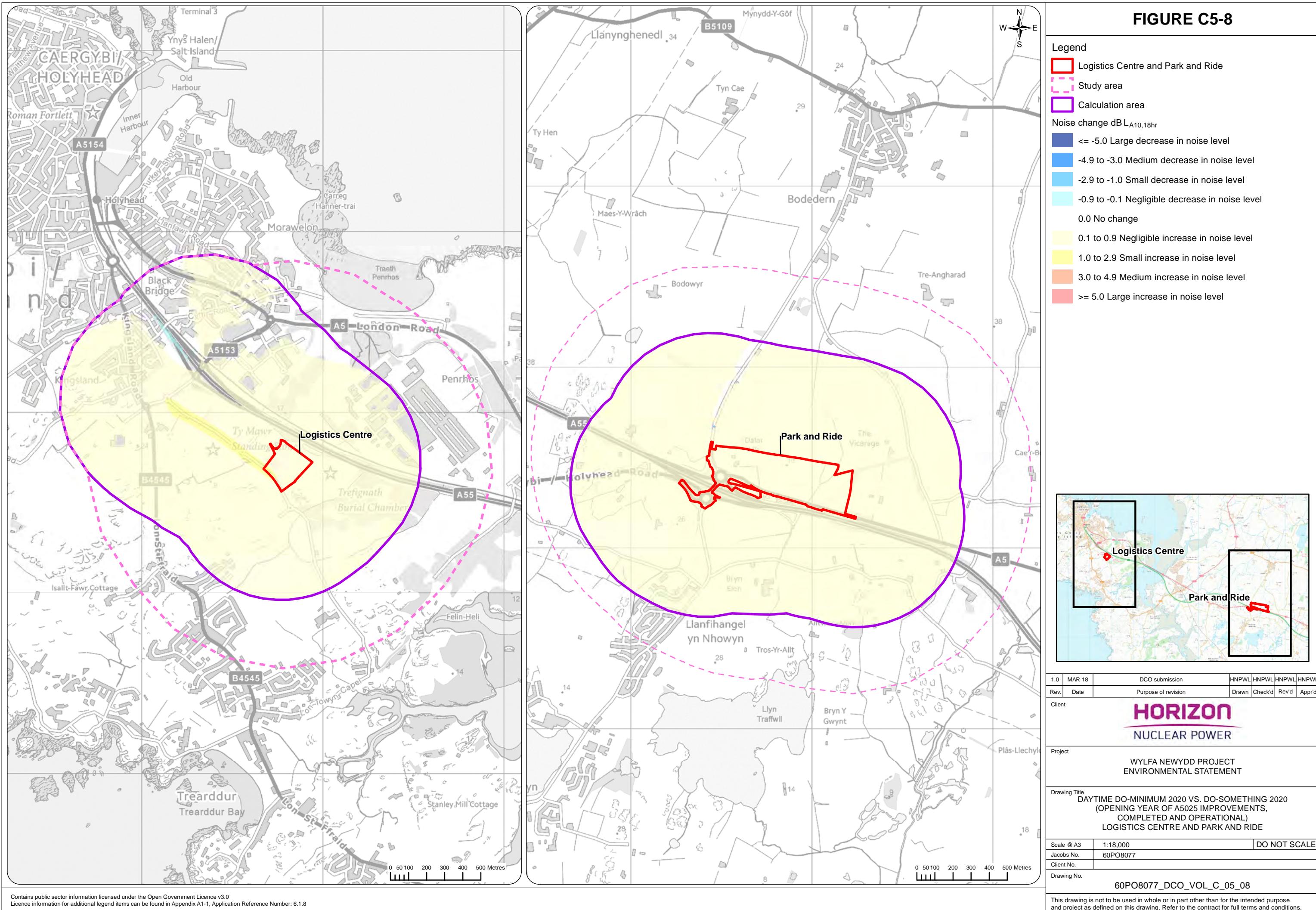
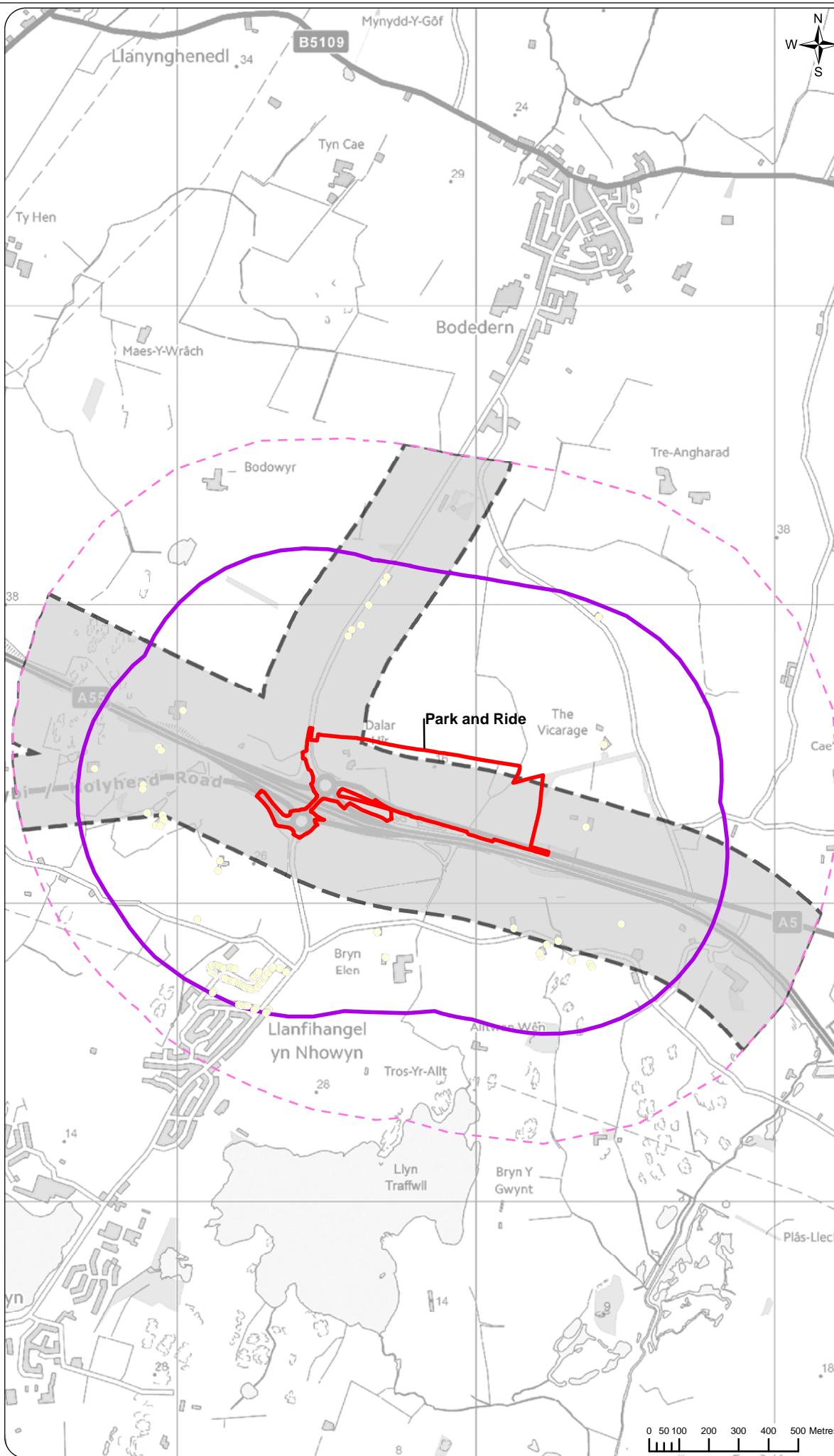


FIGURE C5-9



Legend

- Logistics Centre and Park and Ride
- Study area
- Calculation area
- Estimated 60 dB L_{Amax} Buffer
- Noise change dB L_{Aeq,8hr}
- Large decrease in noise level
- Medium decrease in noise level
- Small decrease in noise level
- Negligible decrease in noise level
- No change
- Negligible increase in noise level
- Small increase in noise level
- Medium increase in noise level
- Large increase in noise level



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
HORIZON NUCLEAR POWER						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
NIGHT-TIME DO-MINIMUM 2020 VS. DO-SOMETHING 2020 (WITH IMPROVEMENTS COMPLETED AND OPERATIONAL) LOGISTICS CENTRE AND PARK AND RIDE						
Scale @ A3	1:18,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.	60PO8077_DCO_VOL_C_05_09					
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FIGURE C5-10

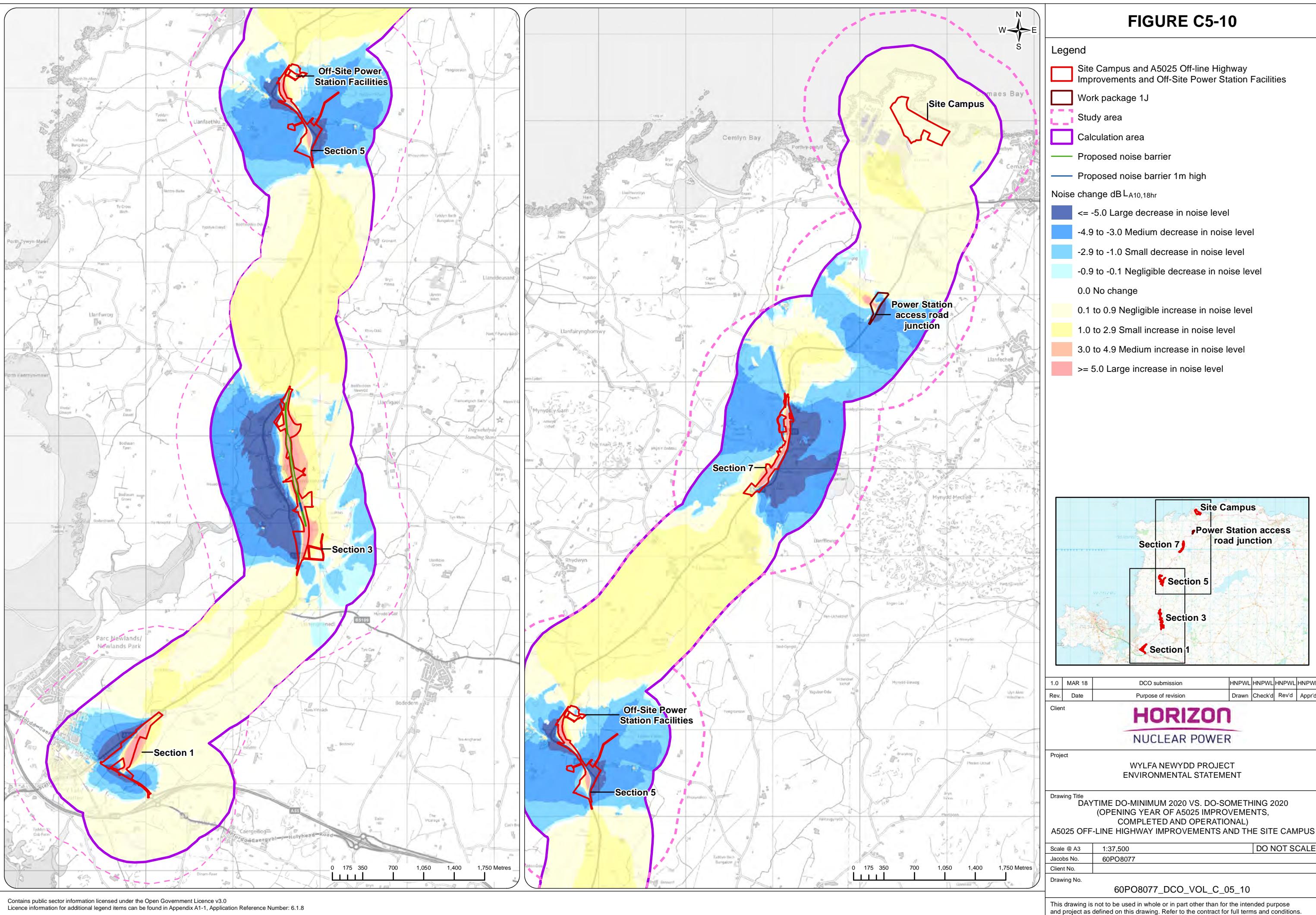
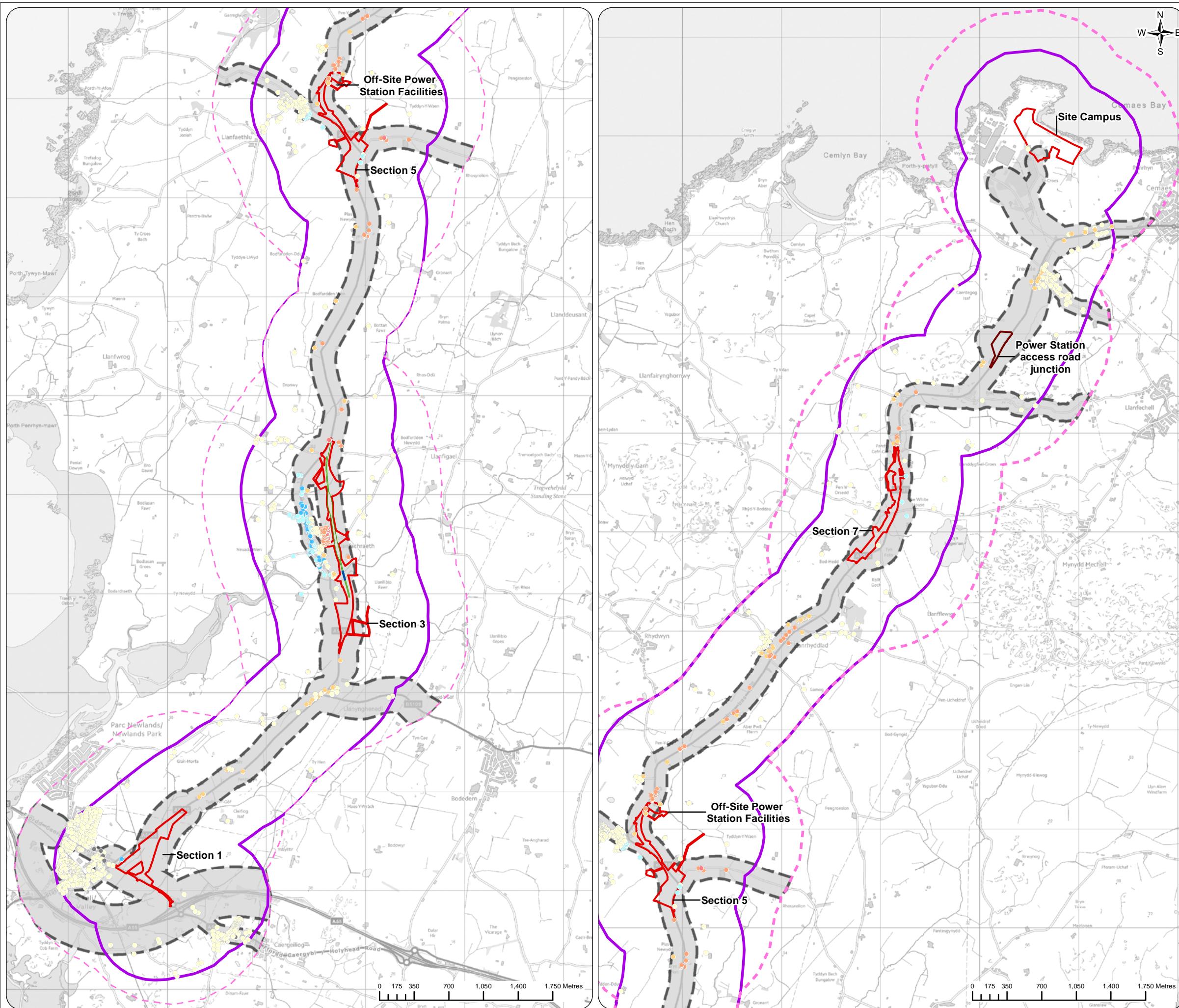


FIGURE C5-11



Drawing Title											
NIGHT-TIME DO-MINIMUM 2020 VS. DO-SOMETHING 2020 (WITH IMPROVEMENTS COMPLETED AND OPERATIONAL) A5025 OFF-LINE HIGHWAY IMPROVEMENTS AND THE SITE CAMPUS											
Scale @ A3	1:37,500	DO NOT SCALE									
Rev.	Date	Purpose of revision									
Client											
HORIZON NUCLEAR POWER											
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT											
Drawing No.											
60PO8077_DCO_VOL_C_05_11											
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FIGURE C5-12

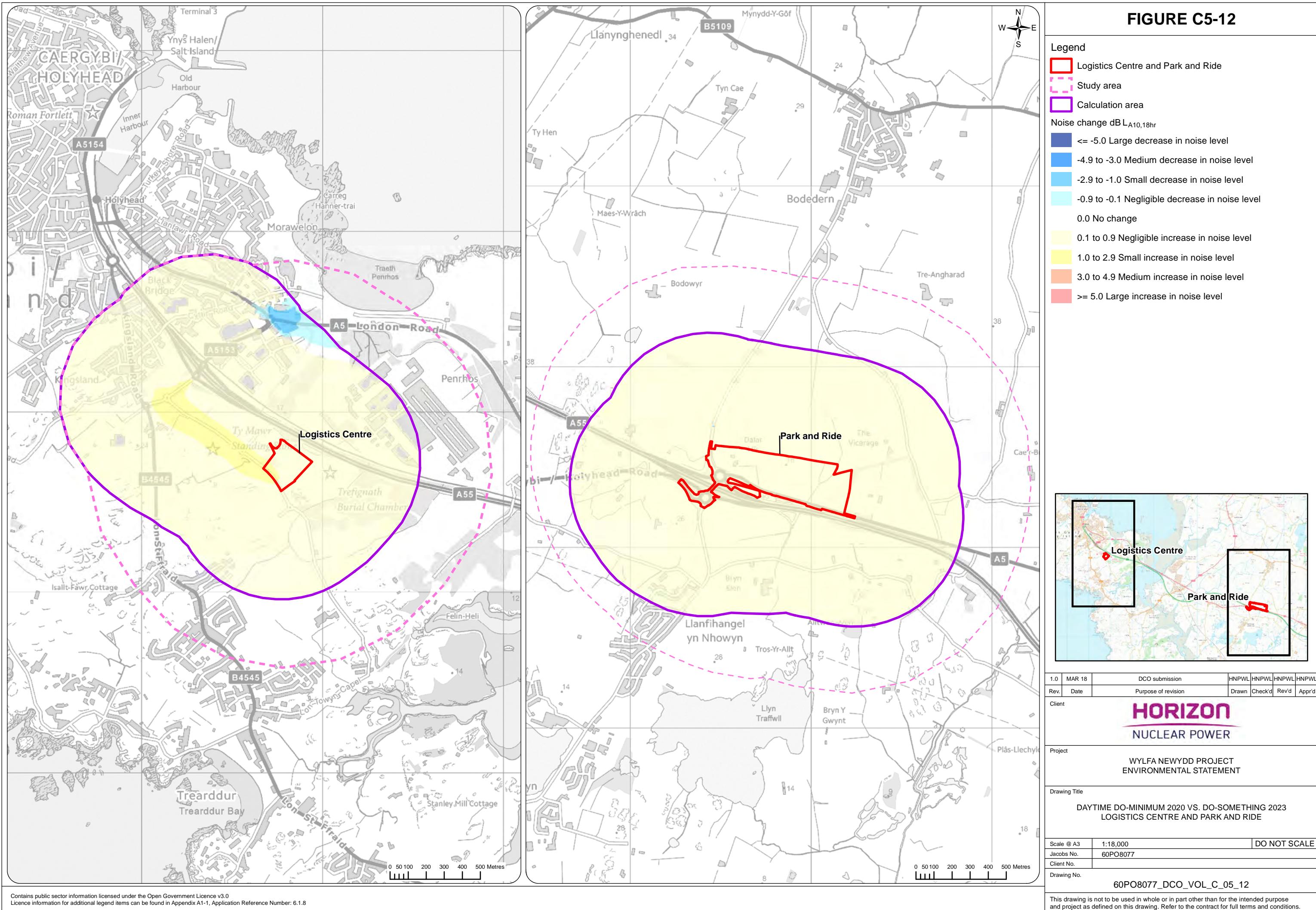
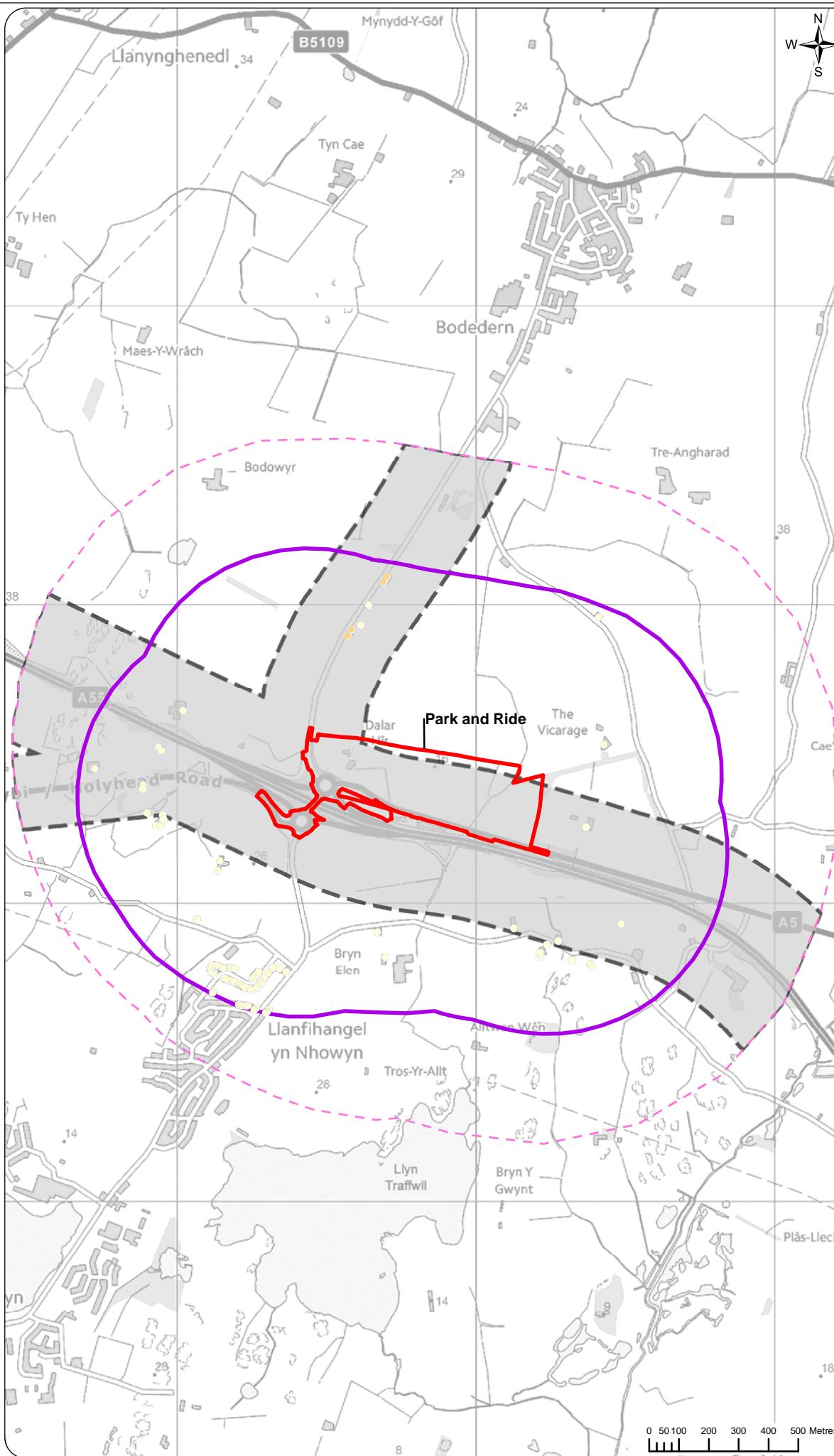


FIGURE C5-13



Legend	
	Logistics Centre and Park and Ride
	Study area
	Calculation area
	Estimated 60 dB L _{Amax} Buffer
	Noise change dB L _{Aeq,8hr}
• Large decrease in noise level	
• Medium decrease in noise level	
• Small decrease in noise level	
• Negligible decrease in noise level	
• No change	
• Negligible increase in noise level	
• Small increase in noise level	
• Medium increase in noise level	
• Large increase in noise level	

Logistics Centre

Park and Ride

1.0 MAR 18

Rev. Date

Client

DCO submission

Purpose of revision

Drawn Check'd Rev'd App'd

HNPWL HNPWL HNPWL HNPWL

HORIZON
NUCLEAR POWER

Project

WYLFA NEWYDD PROJECT
ENVIRONMENTAL STATEMENT

Drawing Title

NIGHT-TIME DO-MINIMUM 2020 VS. DO-SOMETHING 2023
LOGISTICS CENTRE AND PARK AND RIDE

Scale @ A3

1:18,000

DO NOT SCALE

Jacobs No.

60PO8077

Client No.

Drawing No.

60PO8077_DCO_VOL_C_05_13

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FIGURE C5-14

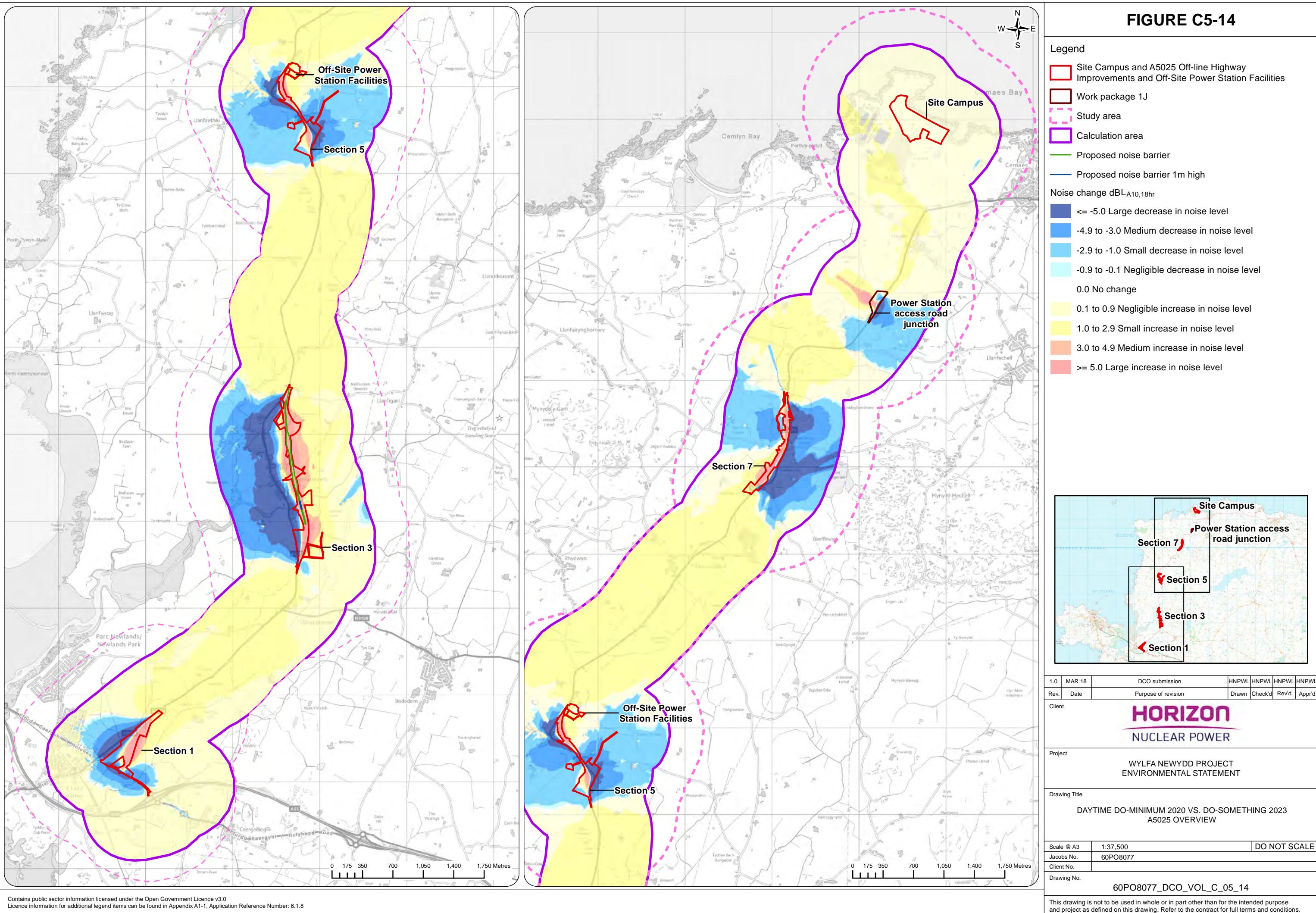


FIGURE C5-15

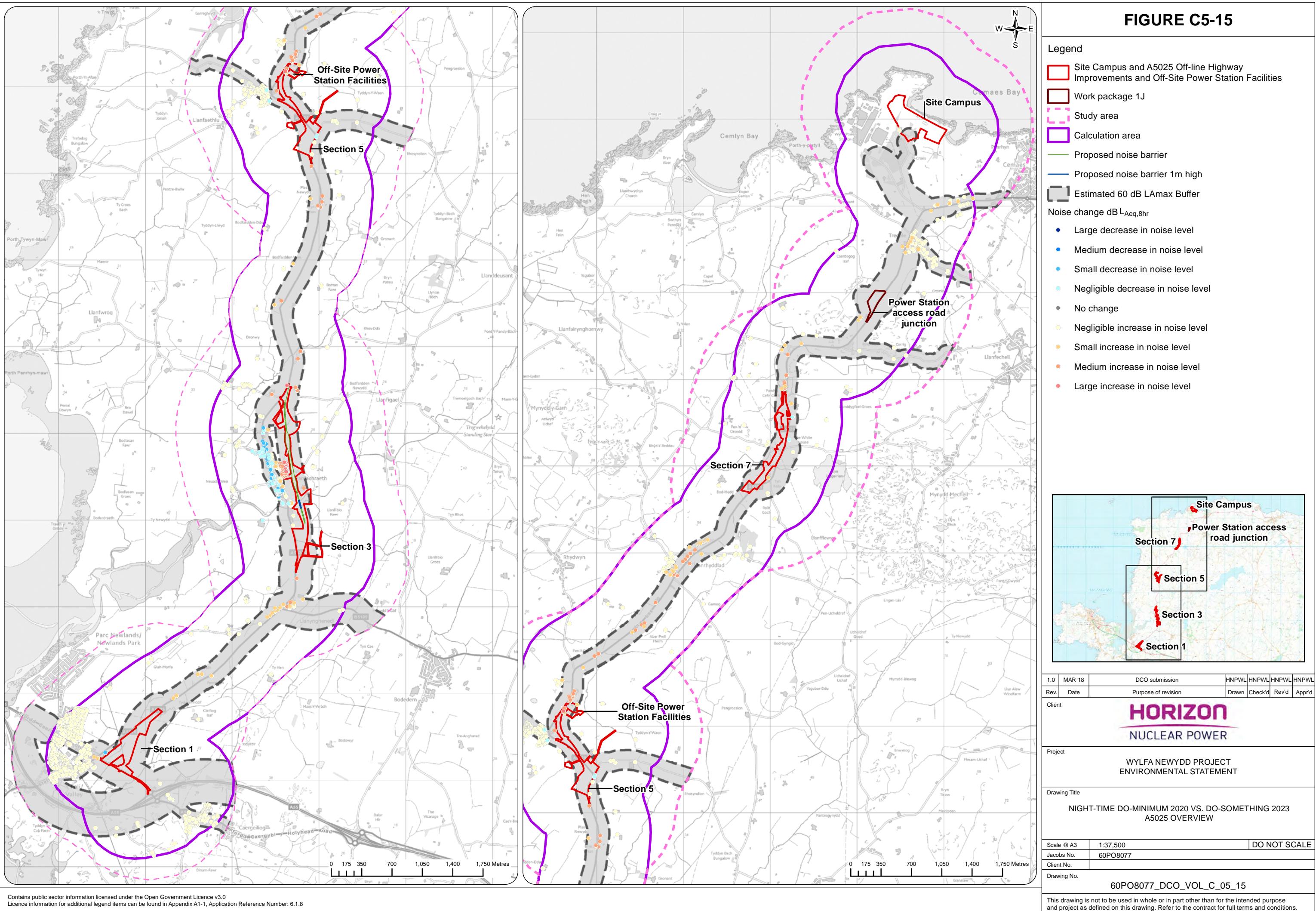
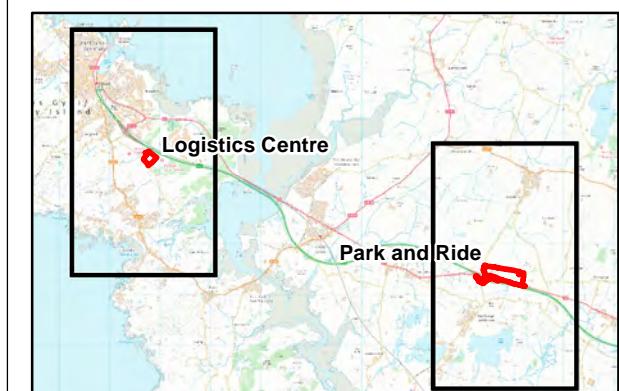
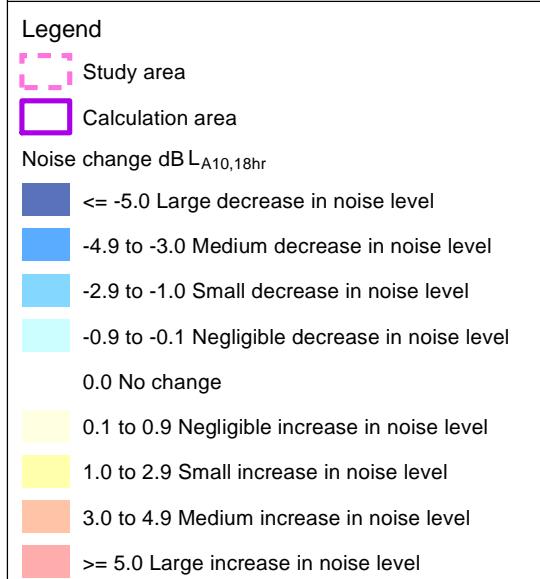
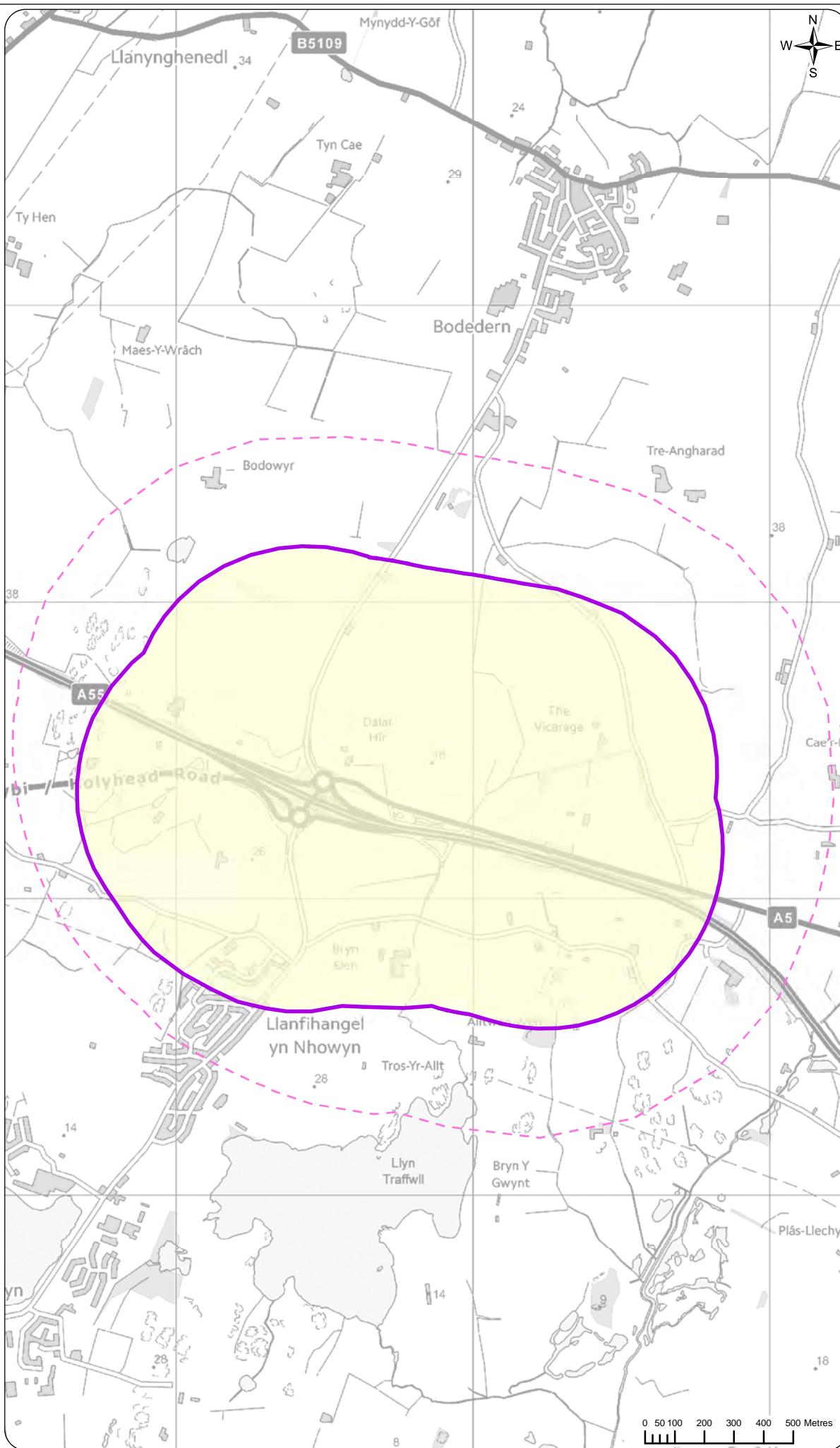
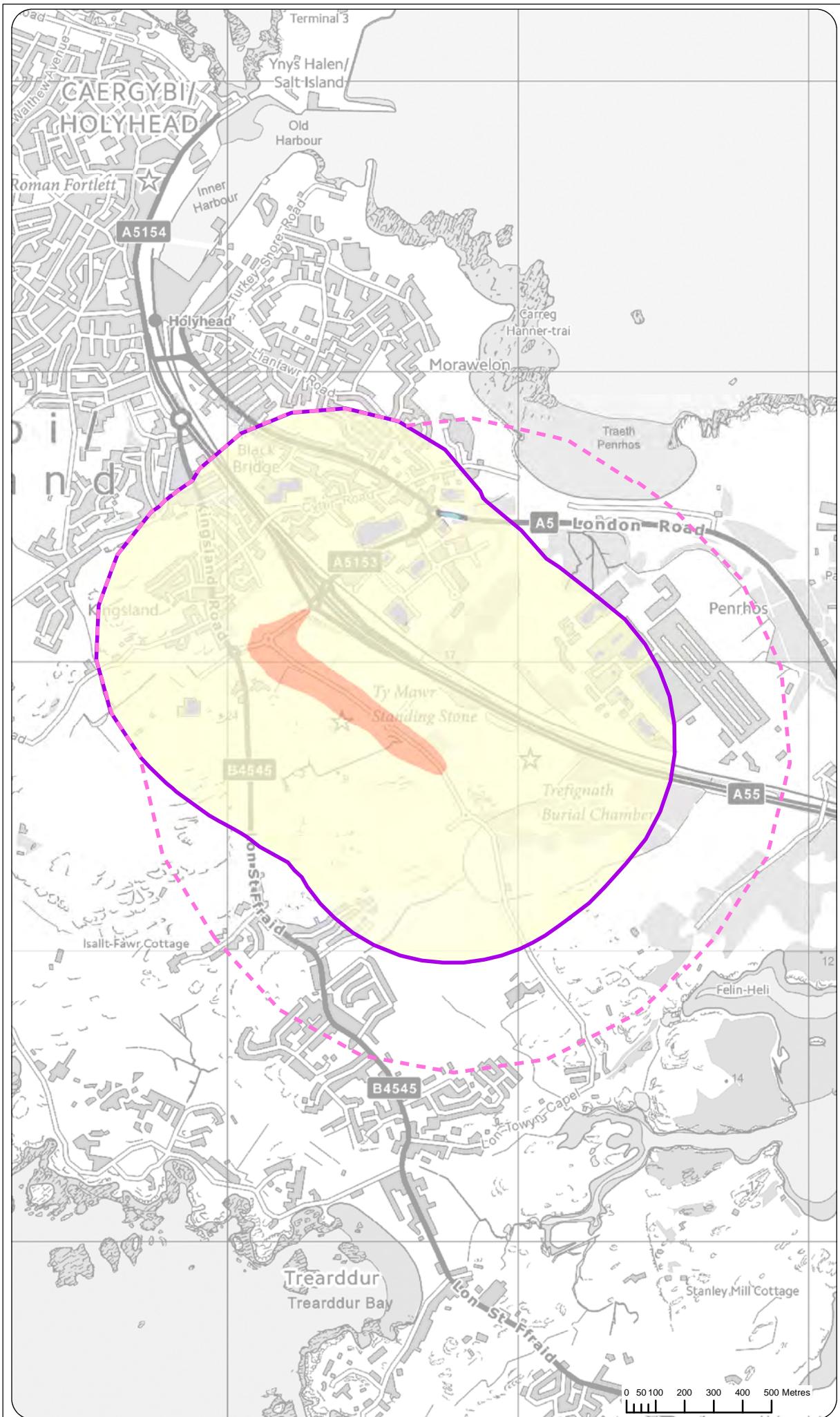
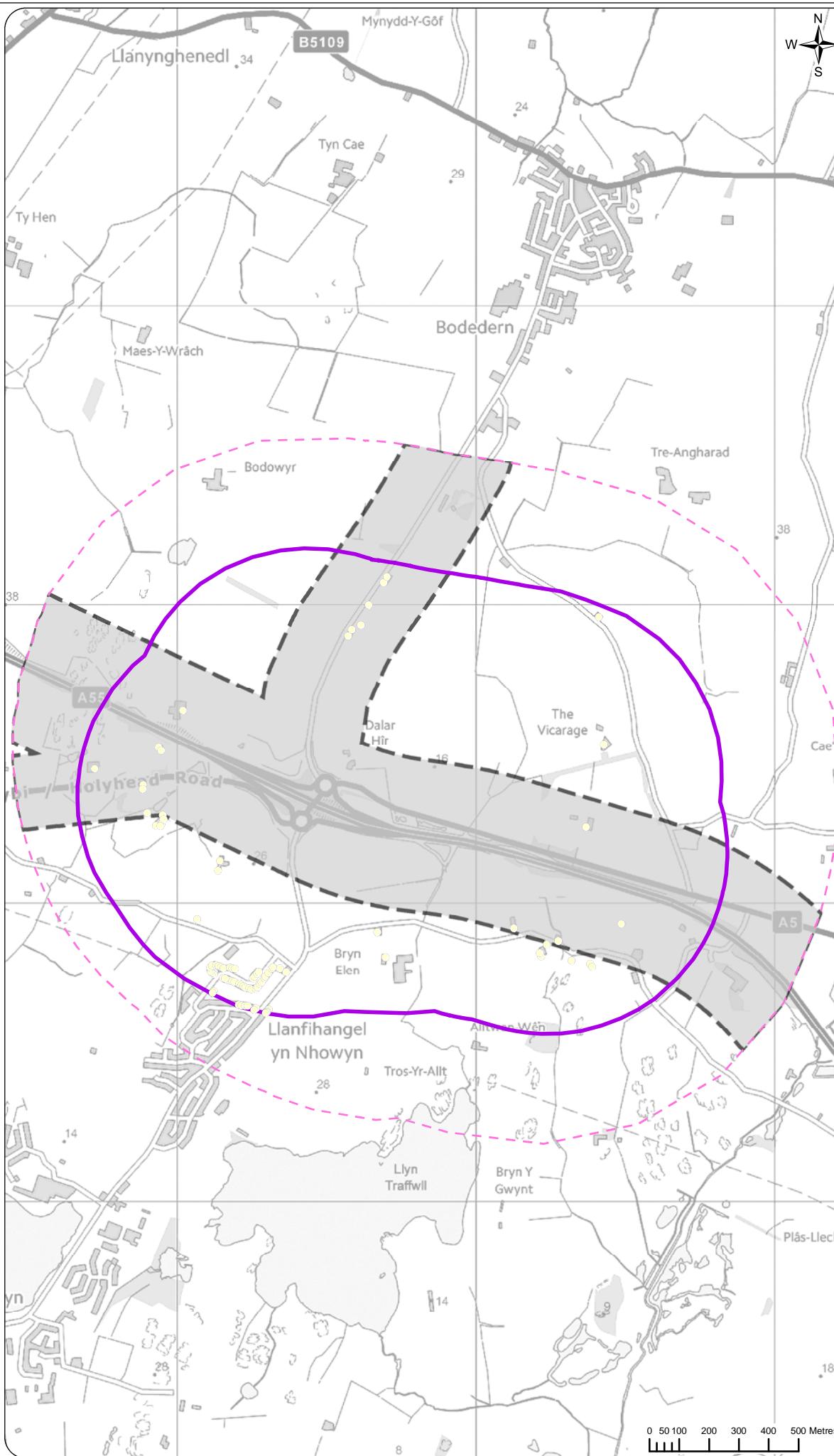


FIGURE C5-16



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
HORIZON						
NUCLEAR POWER						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
DAYTIME DO-MINIMUM 2020 VS. DO-MINIMUM 2033 LOGISTICS CENTRE AND PARK AND RIDE						
Scale @ A3	1:18,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.	60PO8077_DCO_VOL_C_05_16					
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FIGURE C5-17



Legend

- Study area
- Calculation area
- Estimated 60 dB L_{Amax} Buffer

Noise change dB L_{Aeq,8hr}

- Large decrease in noise level
- Medium decrease in noise level
- Small decrease in noise level
- Negligible decrease in noise level
- No change
- Negligible increase in noise level
- Small increase in noise level
- Medium increase in noise level
- Large increase in noise level

Logistics Centre

Park and Ride

1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
NIGHT-TIME DO-MINIMUM 2020 VS. DO-MINIMUM 2033 LOGISTICS CENTRE AND PARK AND RIDE						
Scale @ A3	1:18,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.						
60PO8077_DCO_VOL_C_05_17						
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HORIZON
NUCLEAR POWER

FIGURE C5-18

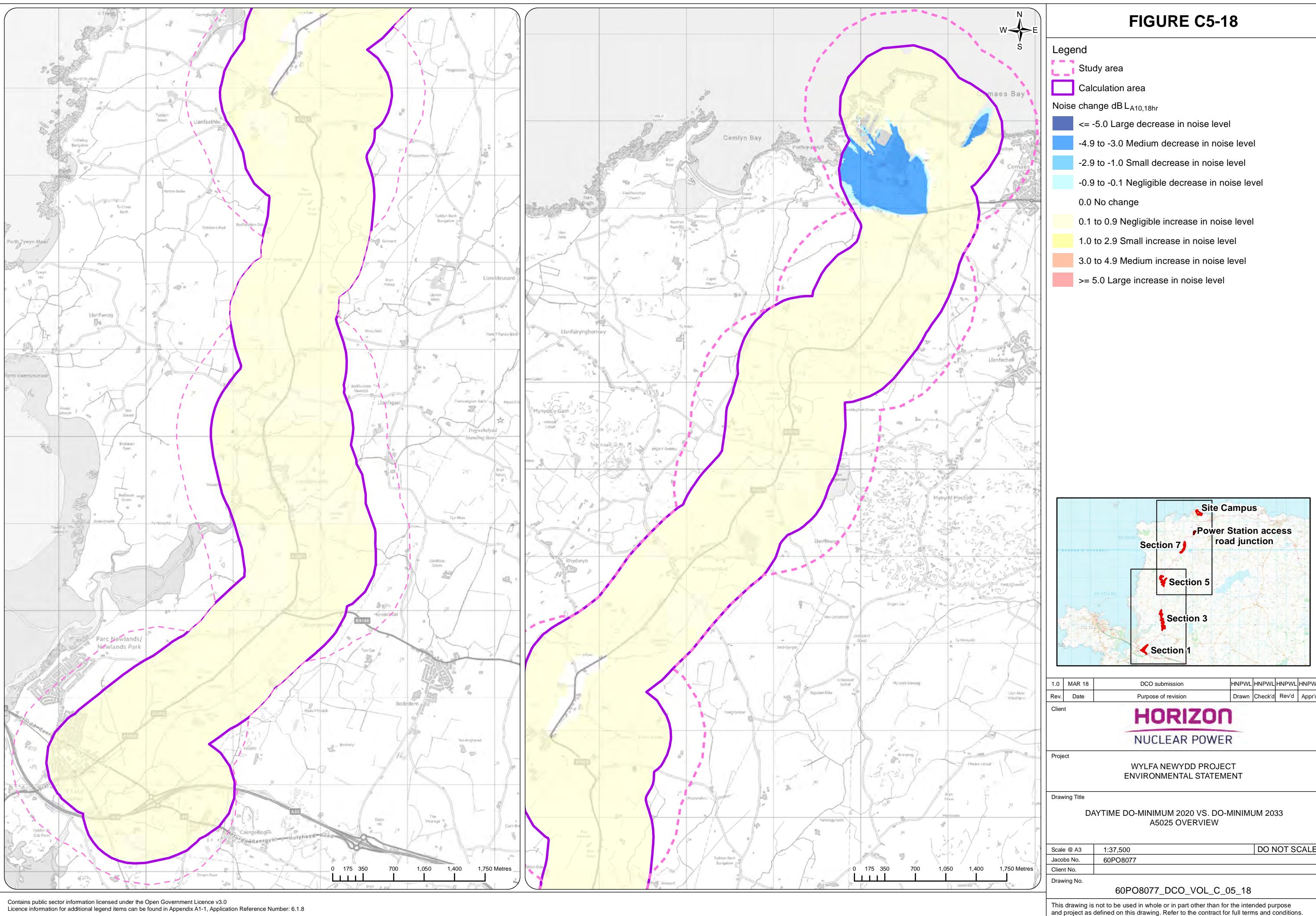
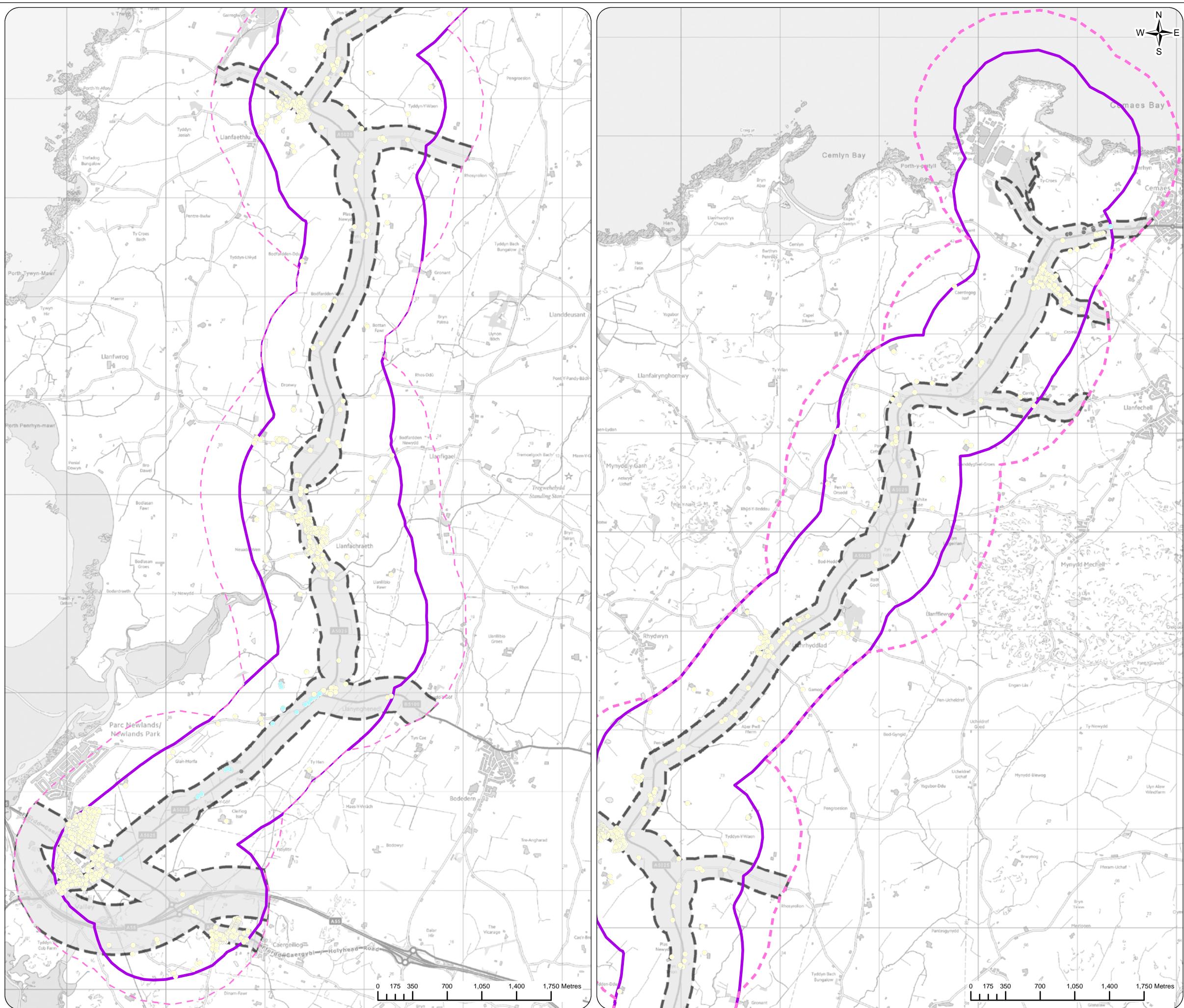
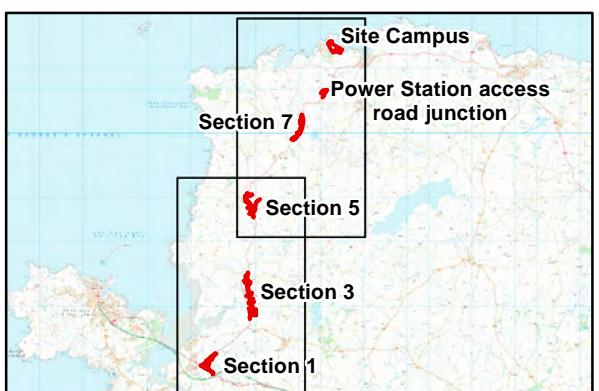


FIGURE C5-19



Legend

- Study area
- Calculation area
- Estimated 60 dB LMax buffer
- Noise change $dB\text{L}_{Aeq,8hr}$
- Large decrease in noise level
- Medium decrease in noise level
- Small decrease in noise level
- Negligible decrease in noise level
- No change
- Negligible increase in noise level
- Small increase in noise level
- Medium increase in noise level
- Large increase in noise level



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
NIGHT-TIME DO-MINIMUM 2020 VS. DO-MINIMUM 2033 A5025 OVERVIEW						
Scale @ A3	1:37,500	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.						
60PO8077_DCO_VOL_C_05_19						

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FIGURE C5-20

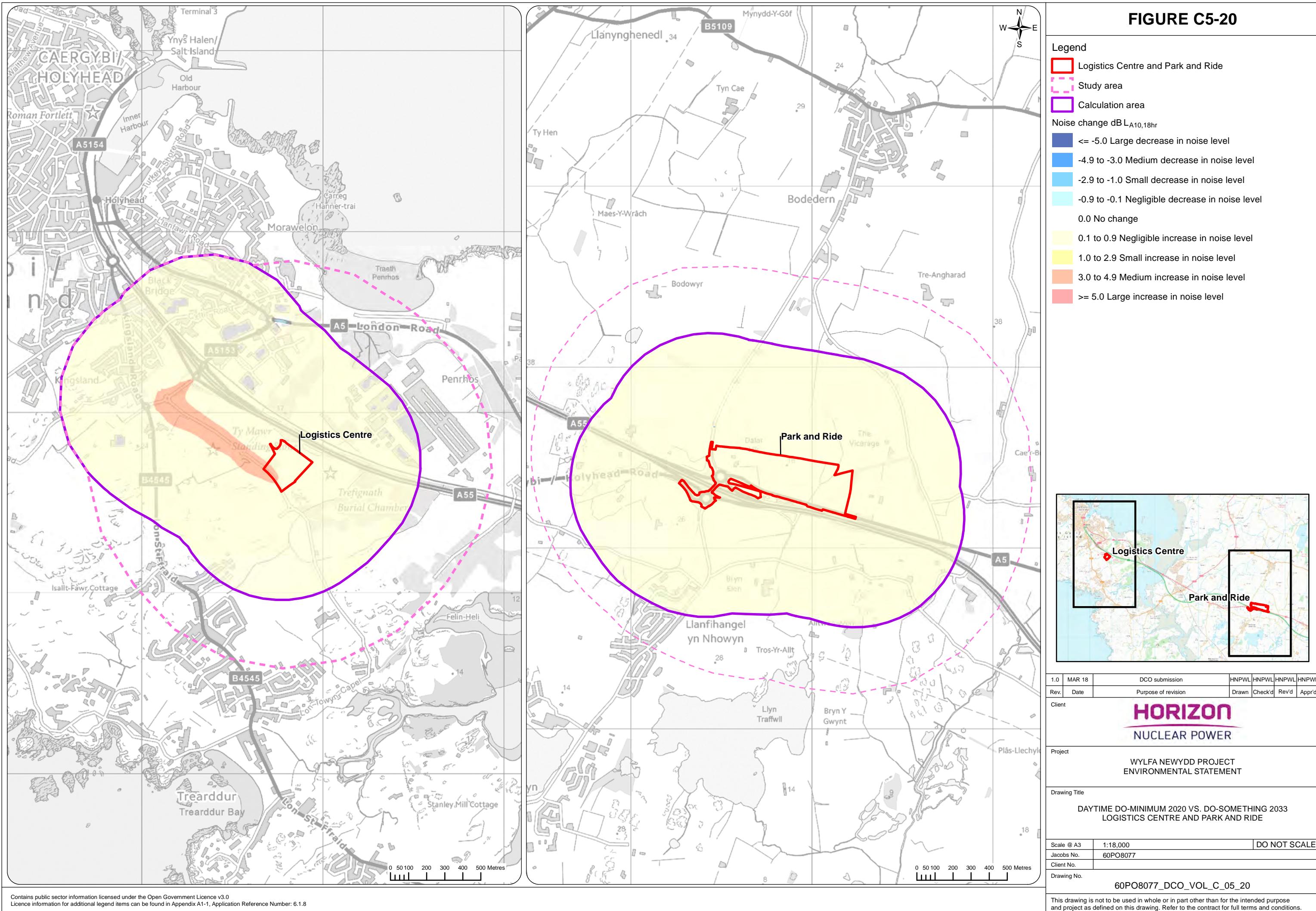
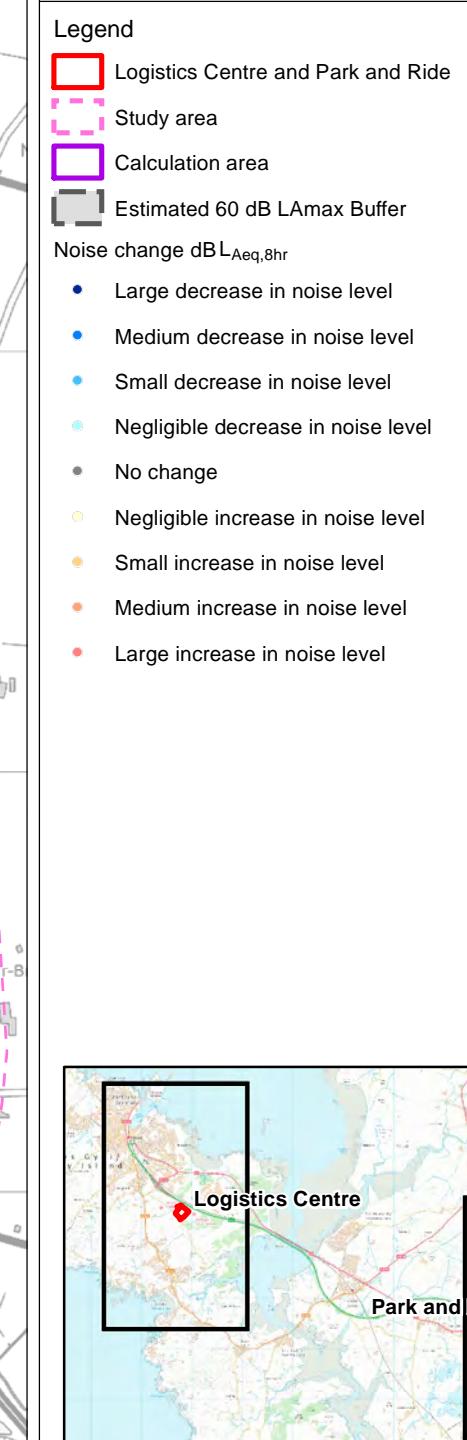
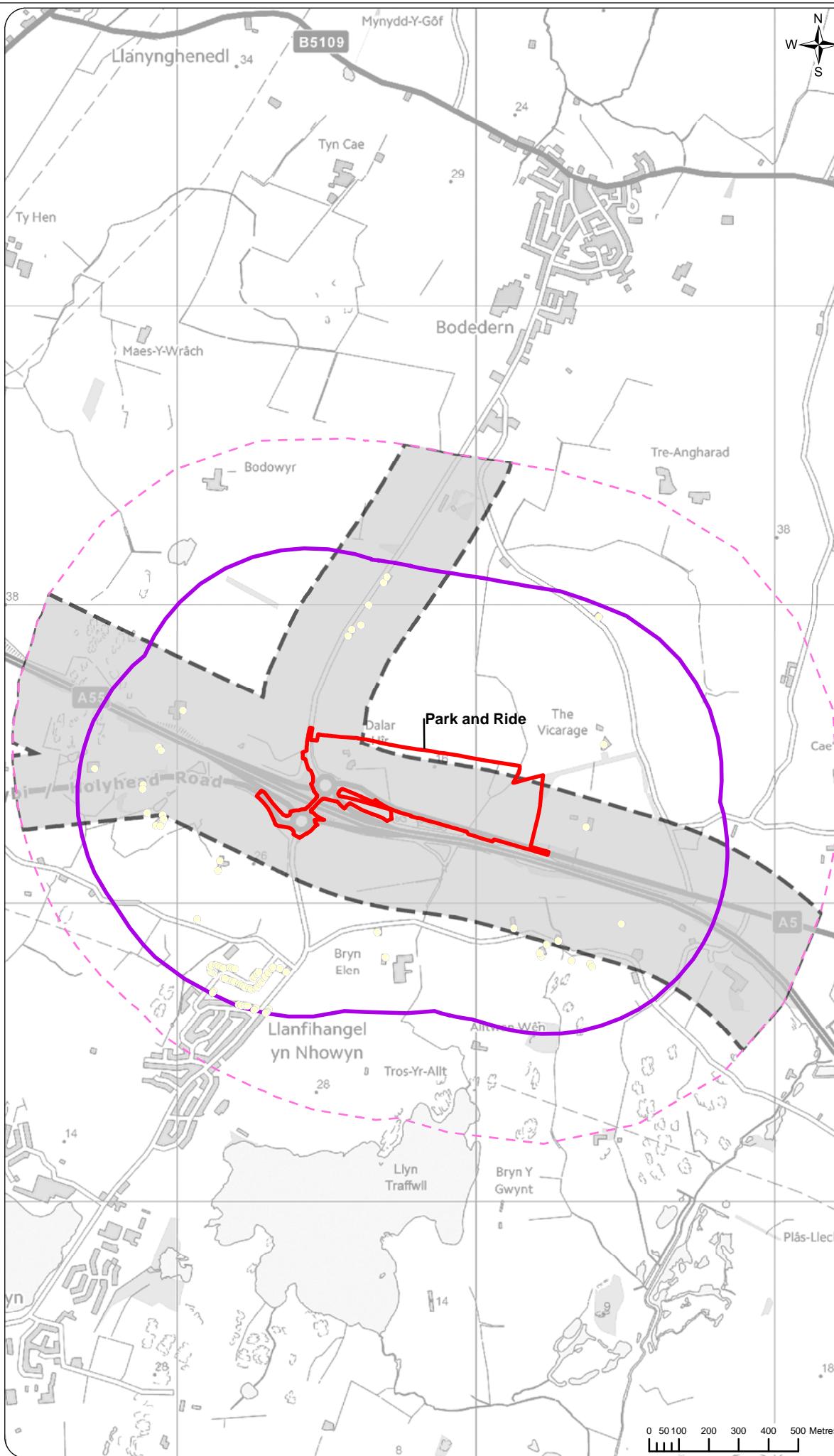
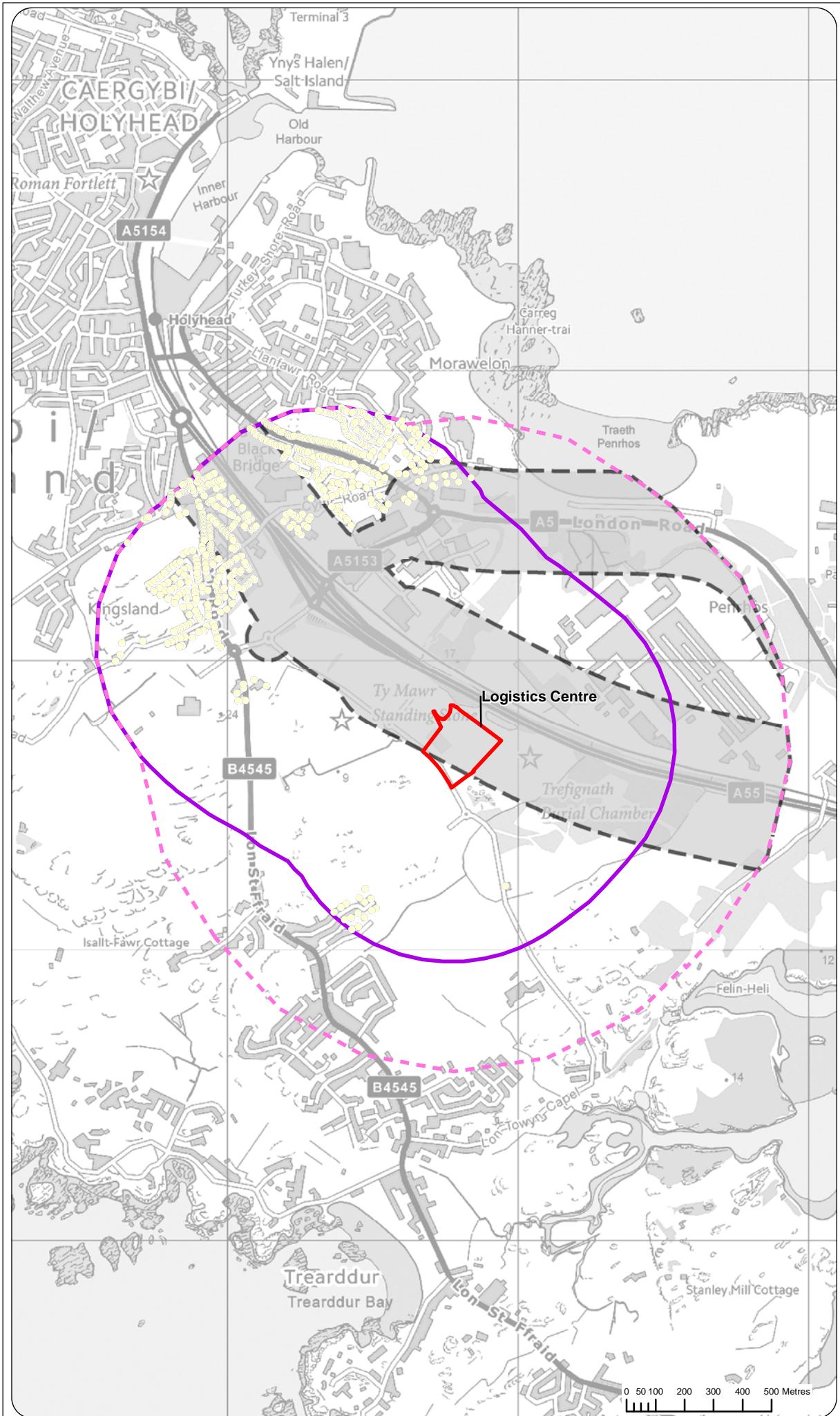


FIGURE C5-21



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
Client						
HORIZON						
NUCLEAR POWER						
Project						
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT						
Drawing Title						
NIGHT-TIME DO-MINIMUM 2020 VS. DO-SOMETHING 2033 LOGISTICS CENTRE AND PARK AND RIDE						
Scale @ A3	1:18,000	DO NOT SCALE				
Jacobs No.	60PO8077					
Client No.						
Drawing No.	60PO8077_DCO_VOL_C_05_21					
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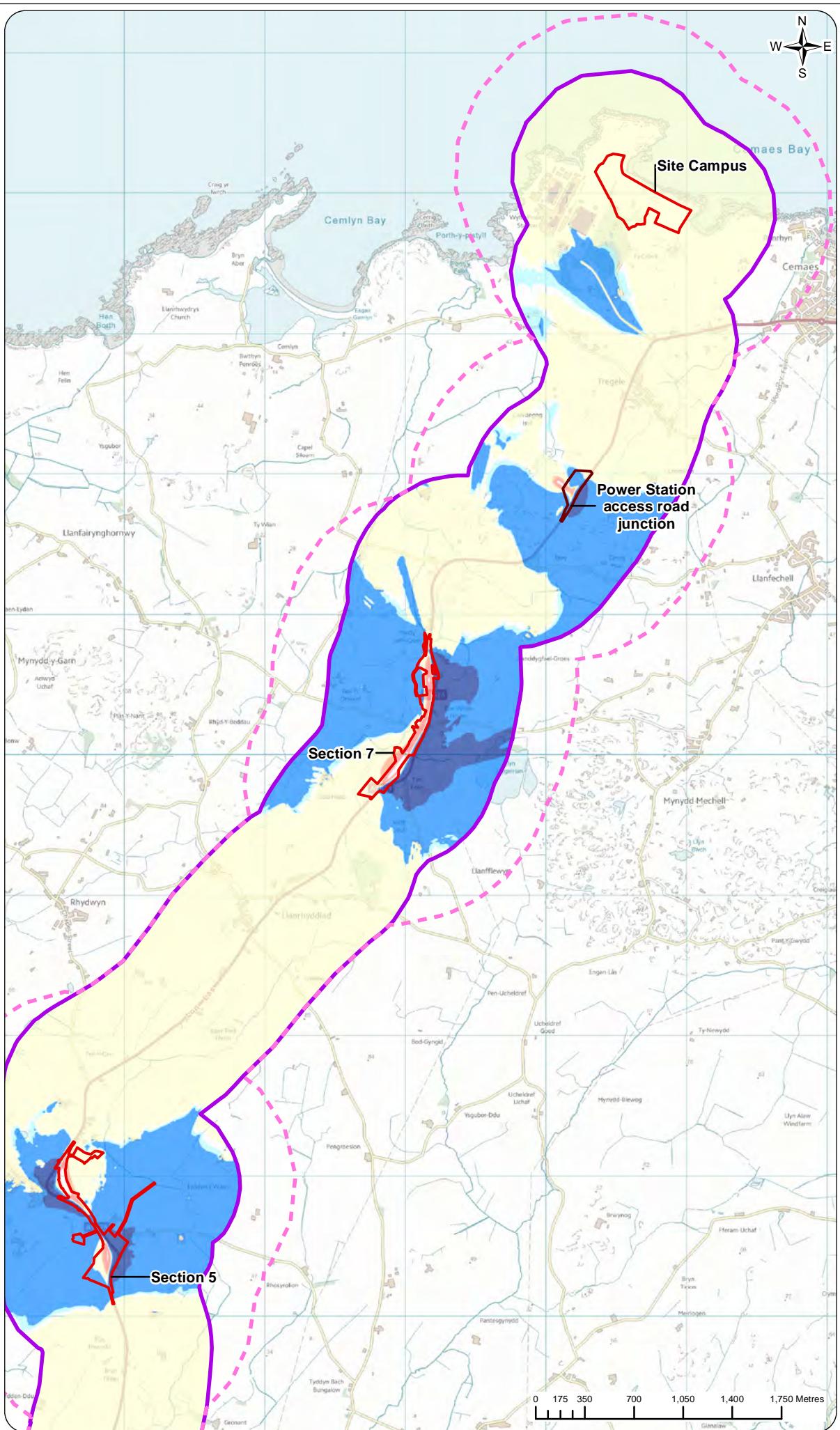
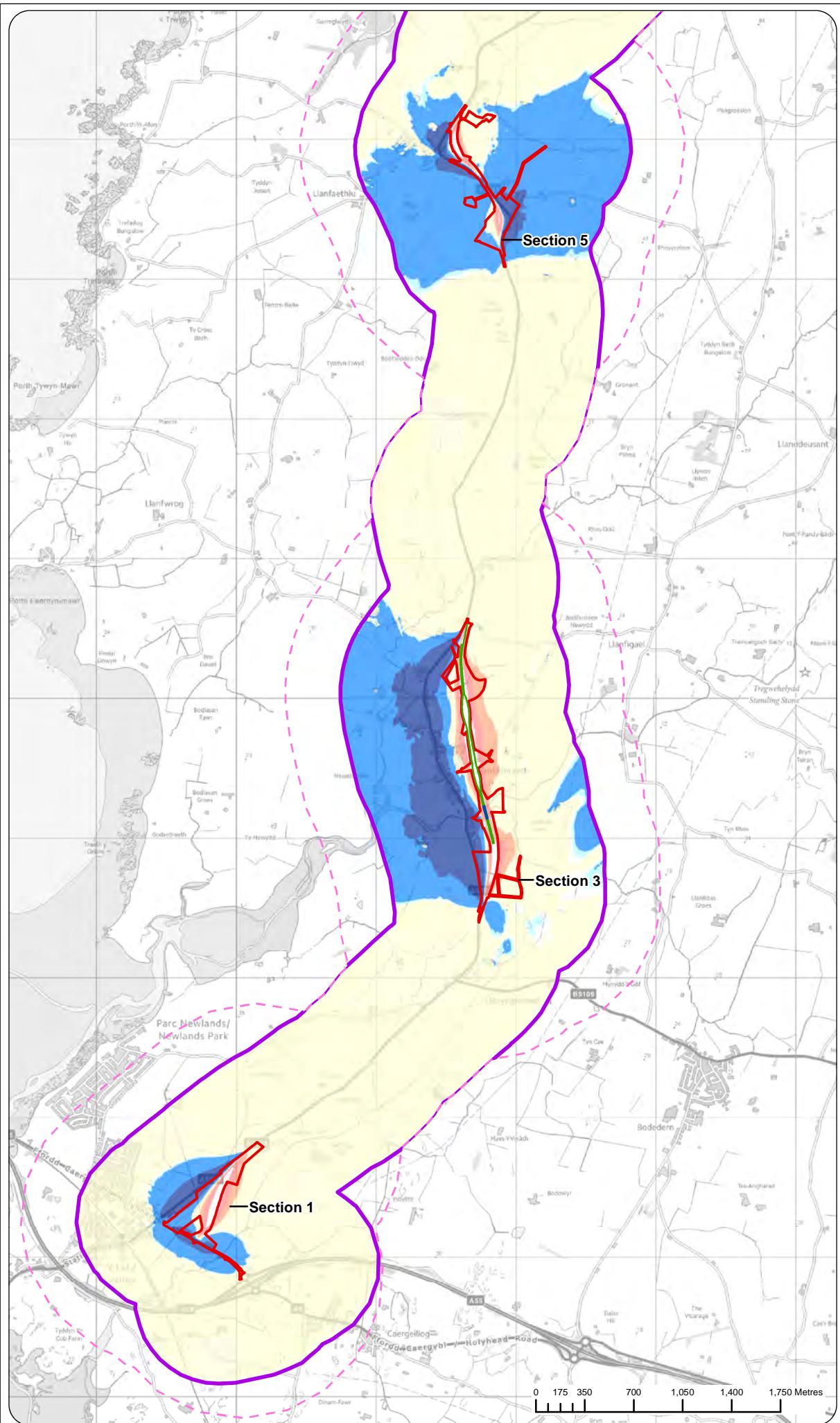
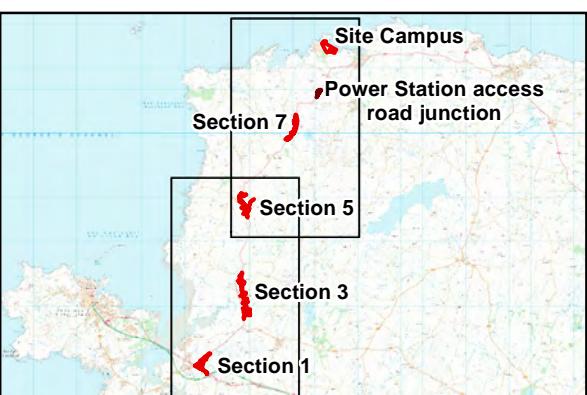


FIGURE C5-22

Legend

- Site Campus and A5025 Off-line Highway Improvements
- Work package 1J
- Study area
- Calculation area
- Proposed noise barrier
- Proposed noise barrier 1m high
- Noise change $\text{dB}L_{A10,18\text{hr}}$
 - ≤ -5.0 Large decrease in noise level
 - 4.9 to -3.0 Medium decrease in noise level
 - 2.9 to -1.0 Small decrease in noise level
 - 0.9 to -0.1 Negligible decrease in noise level
 - 0.0 No change
 - 0.1 to 0.9 Negligible increase in noise level
 - 1.0 to 2.9 Small increase in noise level
 - 3.0 to 4.9 Medium increase in noise level
 - ≥ 5.0 Large increase in noise level



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd
Client						
 <p>HORIZON NUCLEAR POWER</p>						
Project						
<p style="text-align: center;">WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT</p>						
Drawing Title						
<p style="text-align: center;">DAYTIME DO-MINIMUM 2020 VS. DO-SOMETHING 2033 A5025 OVERVIEW</p>						
Scale @ A3	1:37,500			DO NOT SCALE		
Jacobs No.	60PO8077					
Client No.						
Drawing No.						
2020-03-01 DCO VOL C 05-02						

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FIGURE C5-23

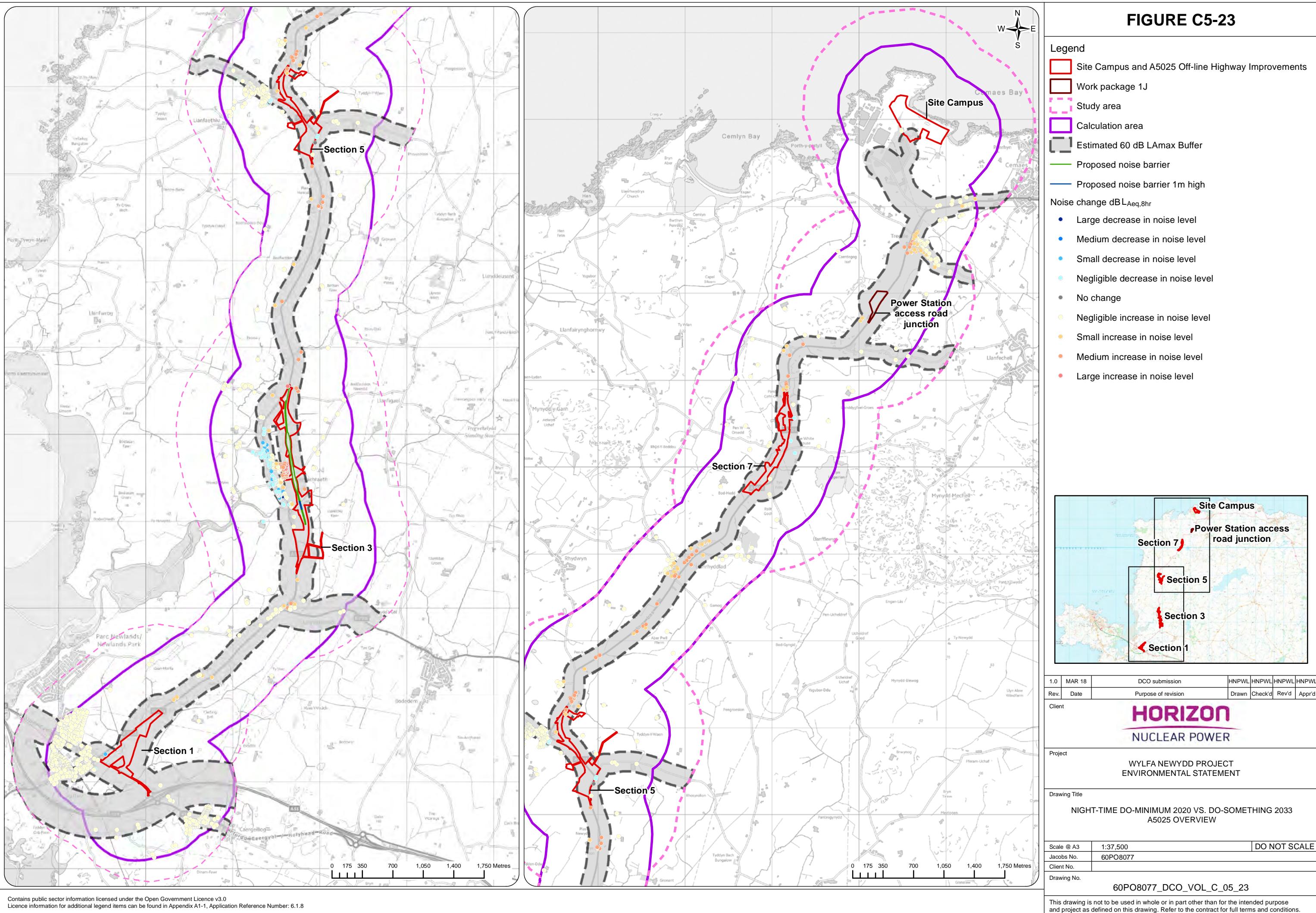
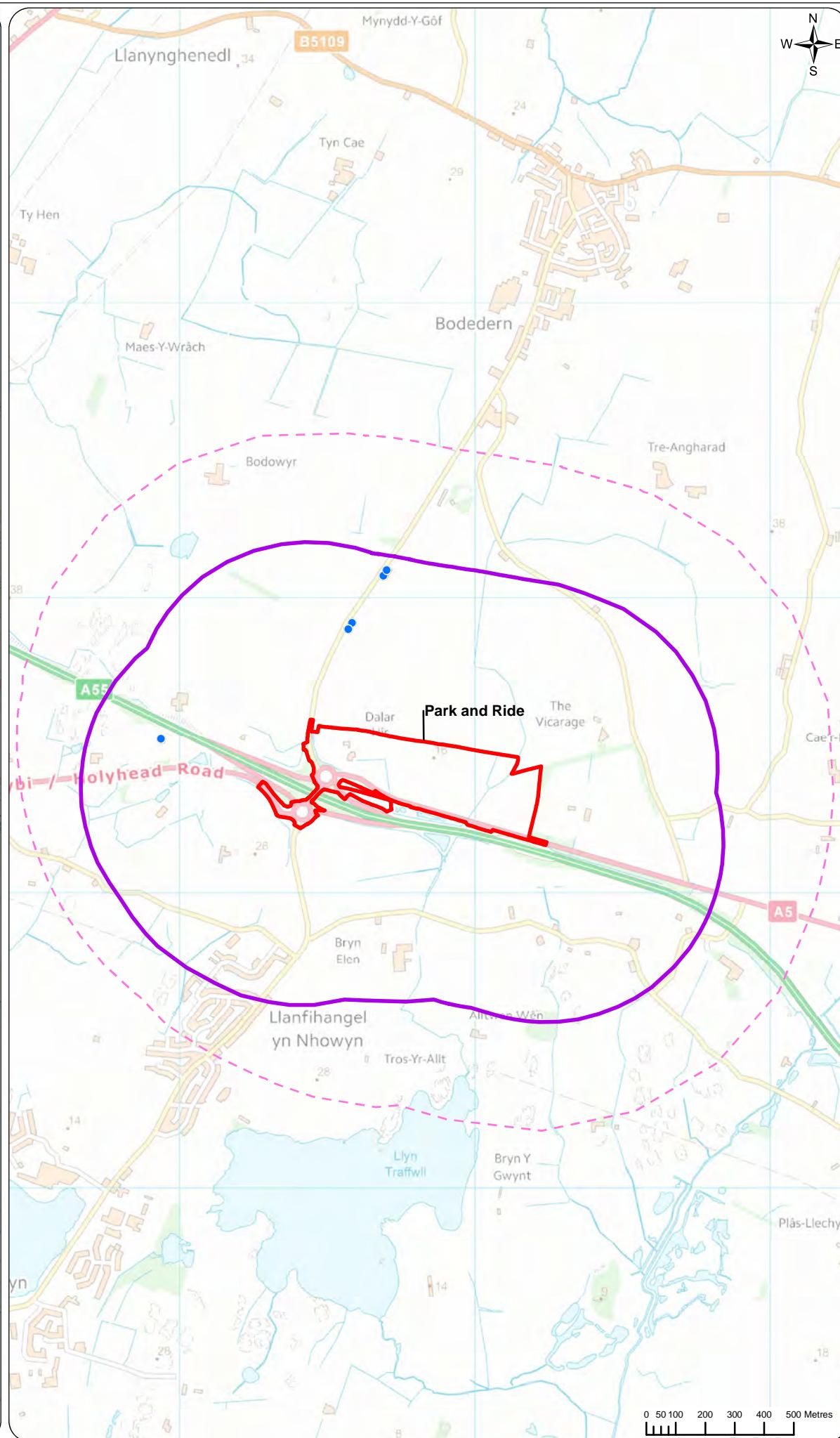
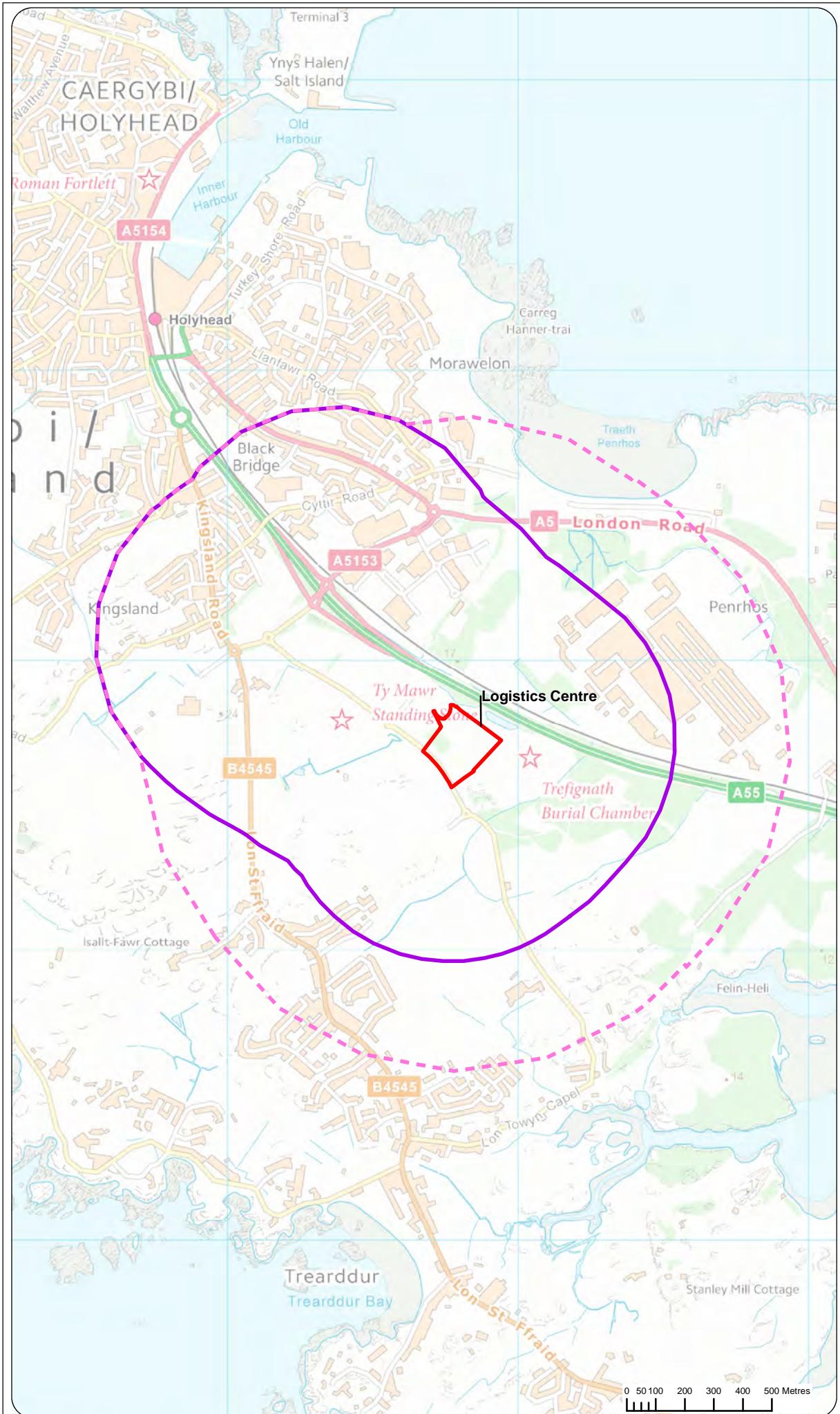


FIGURE C5-24



Legend					
Logistics Centre and Park and Ride					
Study area					
Calculation area					
Residential receptor estimated to be eligible for noise insulation					
1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd
Client					
HORIZON NUCLEAR POWER					
Project					
WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT					
Drawing Title					
LOCATIONS OF RESIDENTIAL RECEPTORS ESTIMATED TO BE ELIGIBLE FOR NOISE INSULATION LOGISTICS CENTRE AND PARK AND RIDE					
Scale @ A3	1:18,000	DO NOT SCALE			
Jacobs No.	60PO8077				
Client No.					
Drawing No.	60PO8077_DCO_VOL_C_05_24				
This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.					

FIGURE C5-25

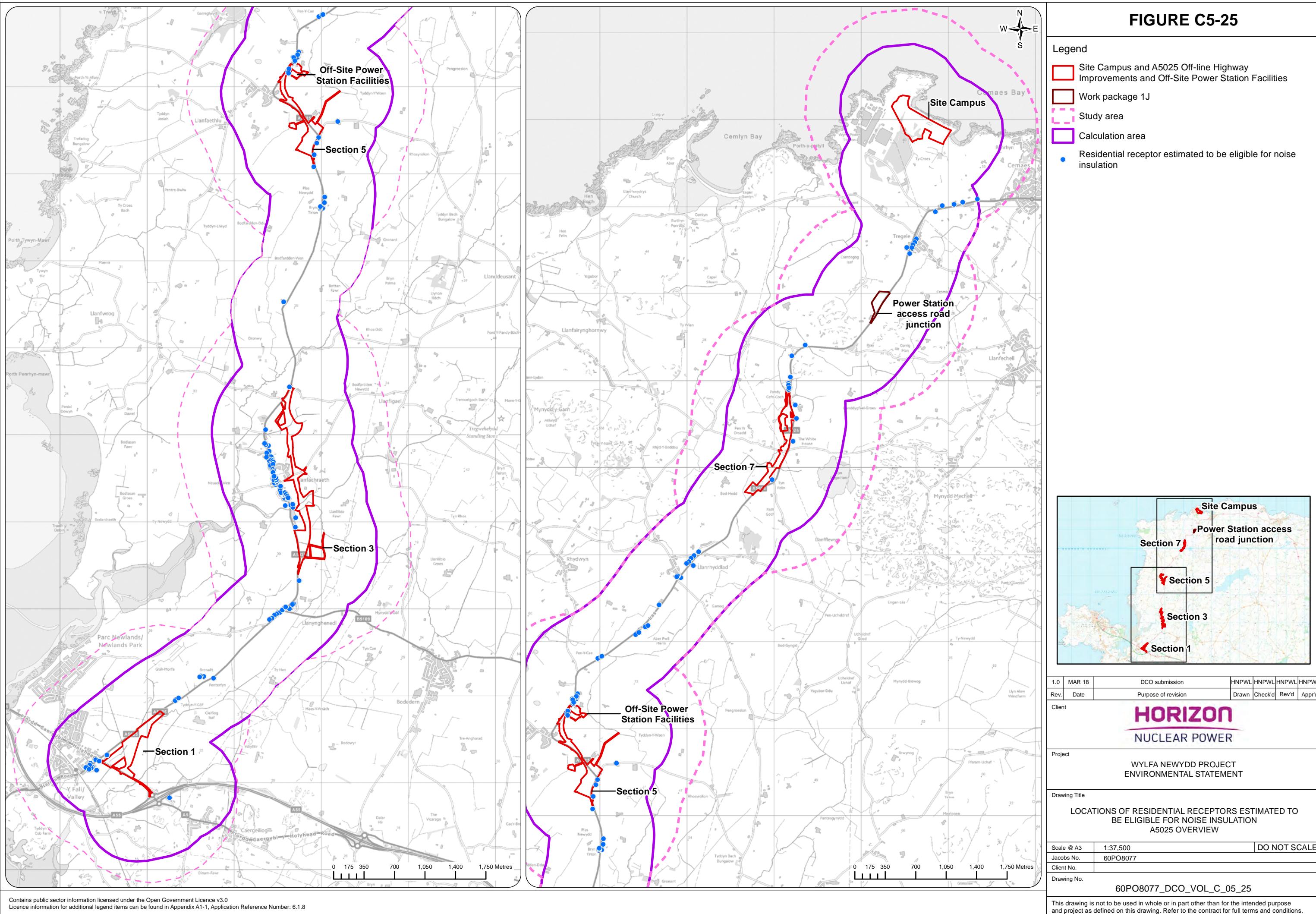
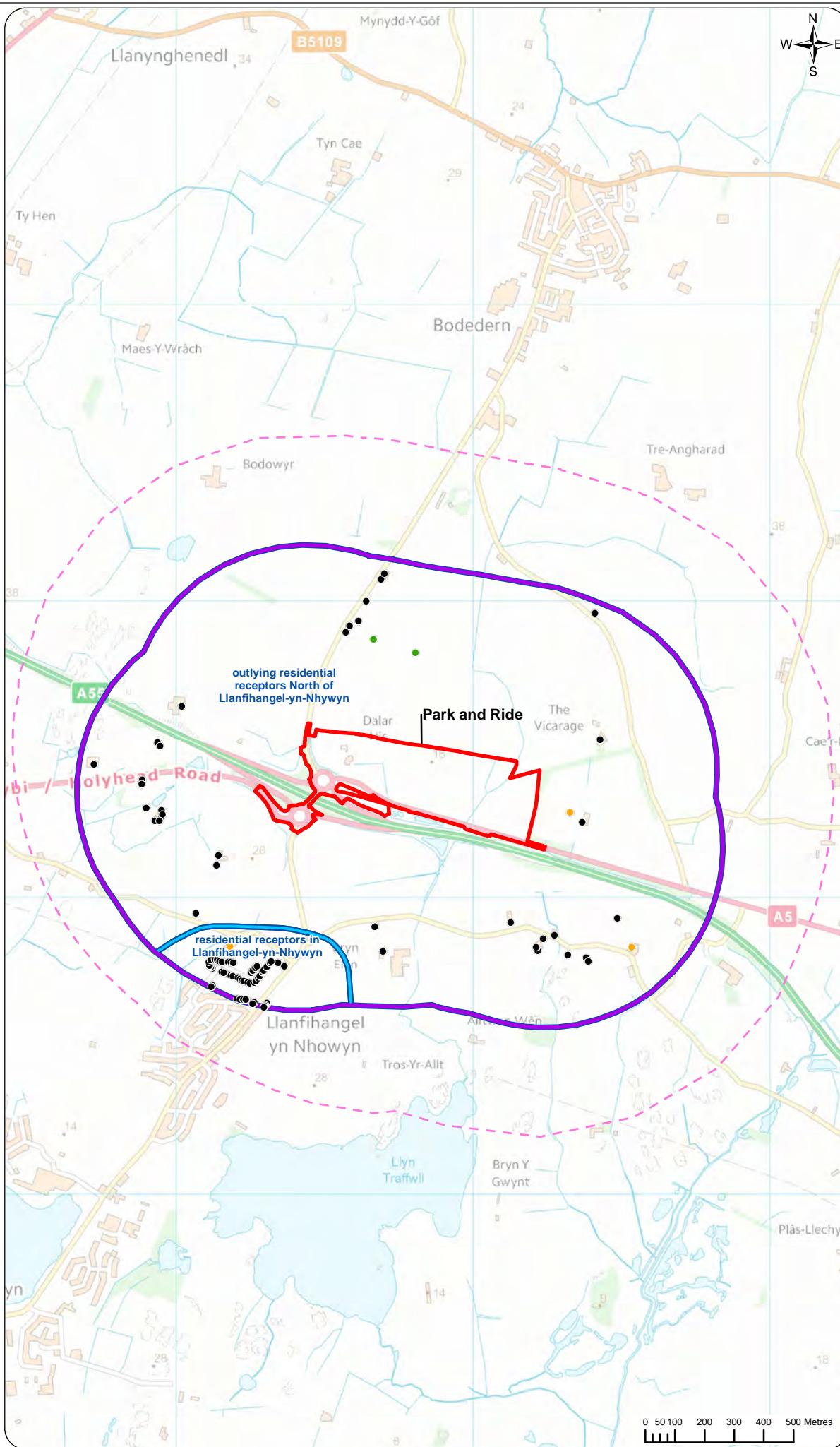
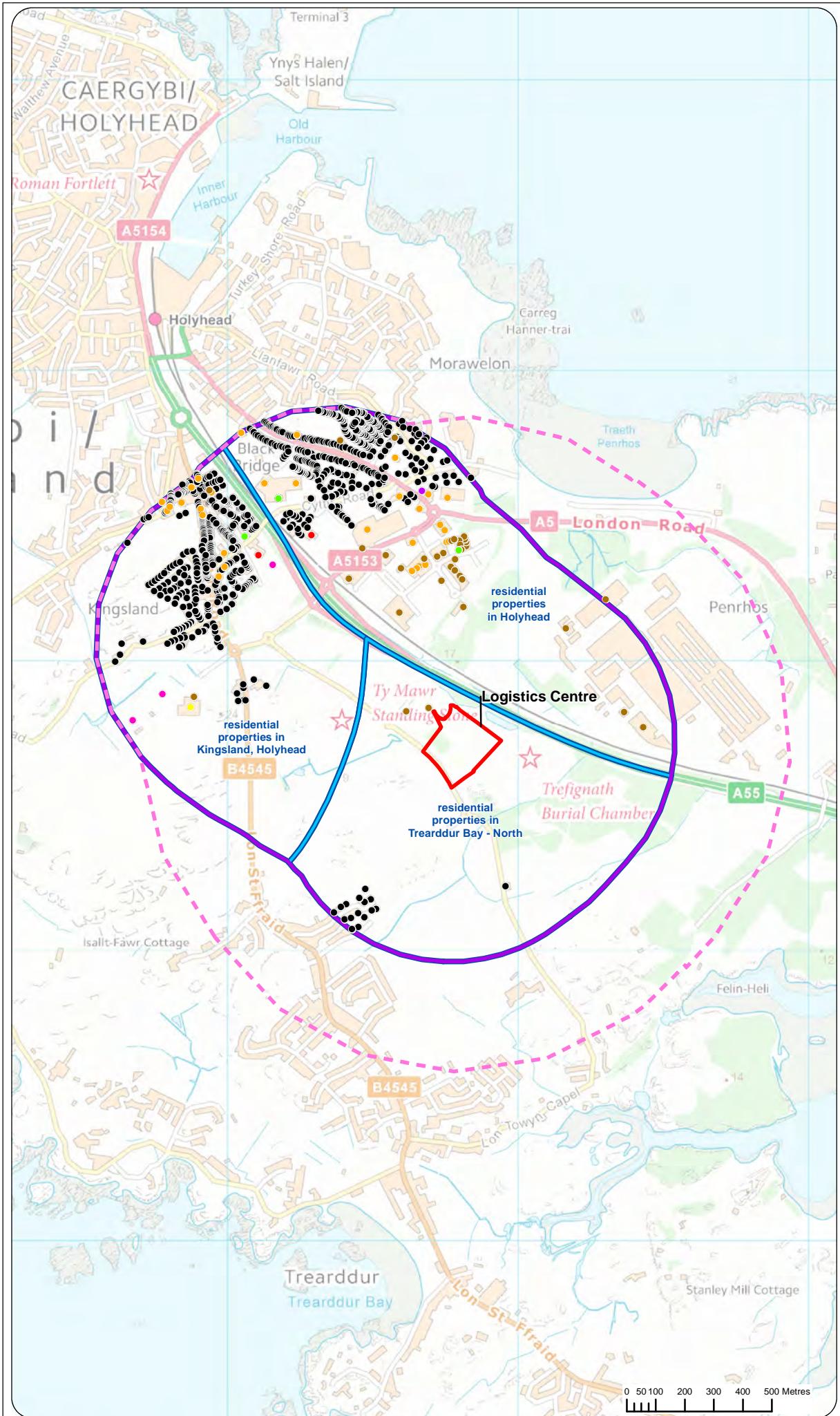
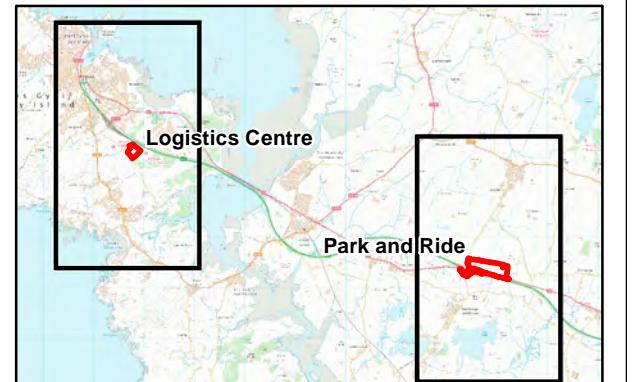


FIGURE C5-26



Legend					
Logistics Centre and Park and Ride					
Study area					
Calculation area					
Receptor Grouping					
Noise receptor type					
<ul style="list-style-type: none"> Office Commercial Community Industrial Outdoor amenity Place of worship Residential School Public Right of Way 					
					
1.0 MAR 18 DCO submission HNPWL HNPWL HNPWL HNPWL Rev. Date Purpose of revision Drawn Check'd Rev'd App'd Client HORIZON NUCLEAR POWER					
Project WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT					
Drawing Title LOCATIONS OF GEOGRAPHIC AREAS AND RESIDENTIAL RECEPTOR GROUPINGS LOGISTICS CENTRE AND PARK AND RIDE					
Scale @ A3 1:18,000 DO NOT SCALE Jacobs No. 60PO8077 Client No. Drawing No. 60PO8077_DCO_VOL_C_05_26					
This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.					

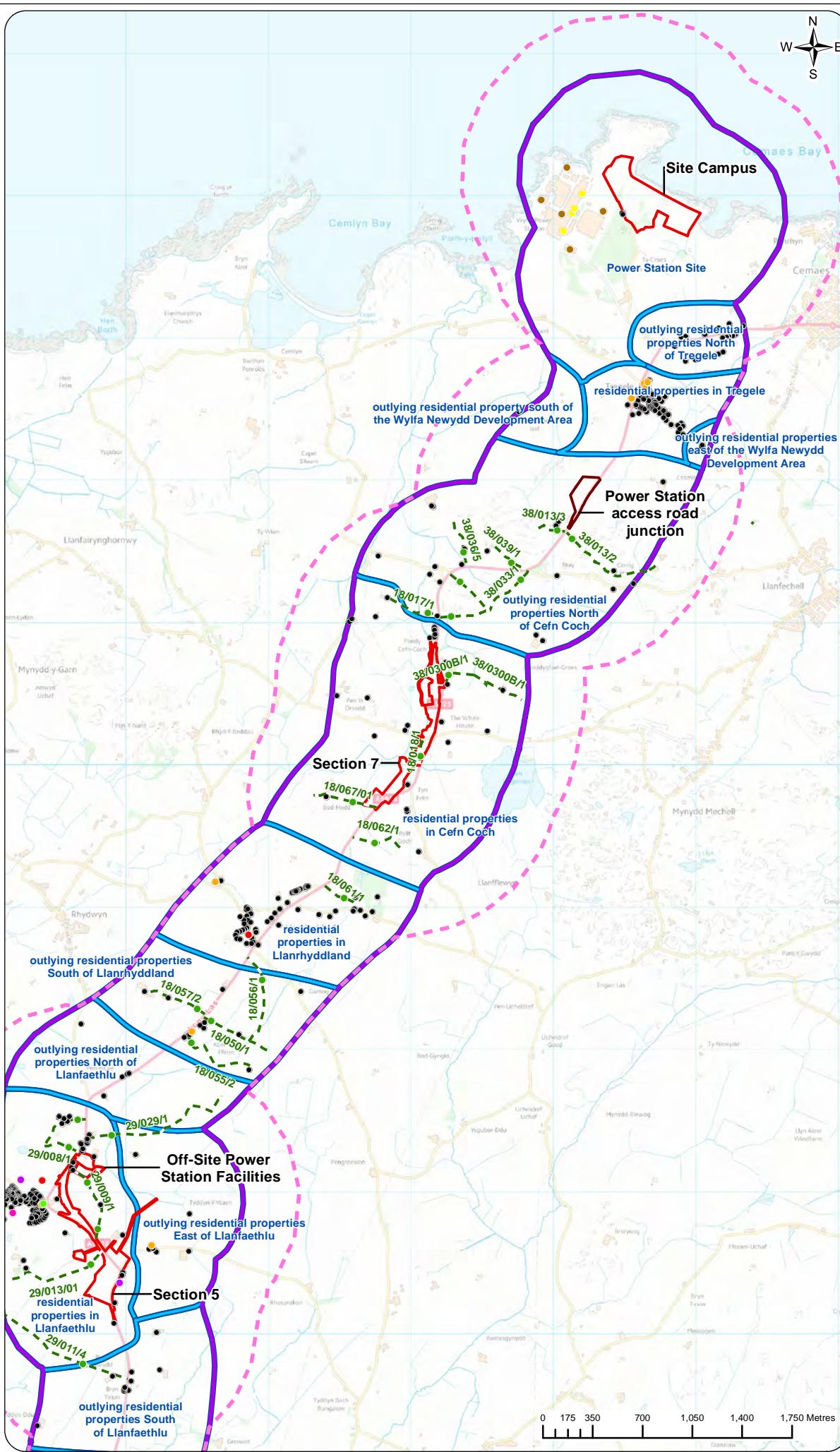
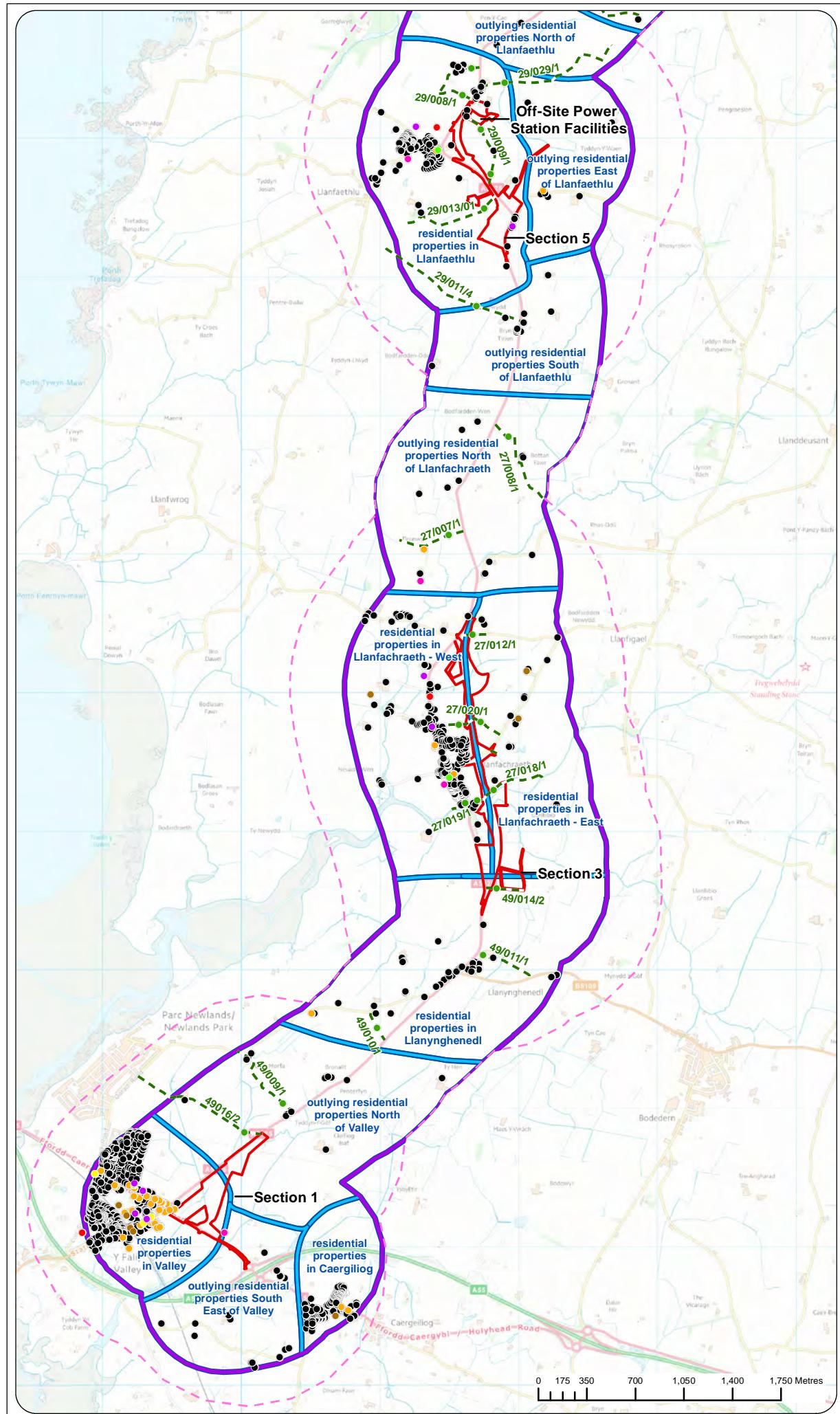


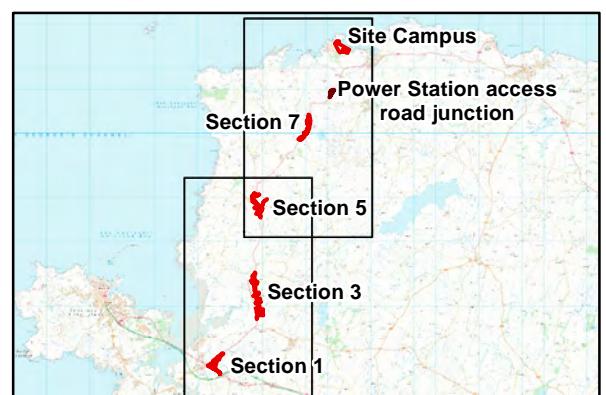
FIGURE C5-27

Legend

- Site Campus and A5025 Off-line Highway Improvements and Off-Site Power Station Facilities
- Work package 1J
- Study area
- Calculation area
- Receptor Grouping
- Public Rights of Way

Noise receptor type

- Office
- Commercial
- Community
- Industrial
- Outdoor amenity
- Place of worship
- Residential
- School
- Public Right of Way



1.0	MAR 18	DCO submission	HNPWL	HNPWL	HNPWL	HNPWL
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'r'd
Client		NOV 2012				

HORIZON
NUCLEAR POWER

Project

WYLFA NEWYDD PROJECT ENVIRONMENTAL STATEMENT

Drawing Title

LOCATIONS OF GEOGRAPHIC AREAS AND RESIDENTIAL RECEPTOR GROUPINGS A5025 OVERVIEW

Scale @ A3	1:37,500	DO NOT SCALE
Jacobs No.	60PO8077	
Client No.		
Drawing No.	60PO8077 DCC VOL C 05 27	

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