



Llywodraeth Cymru
Welsh Government

A55 Junctions 16 and 16A Improvements

Environmental Statement

Volume 2 Figures

March 2021



UNDEB EWROPEAIDD
EUROPEAN UNION



Llywodraeth Cymru
Welsh Government

**Cronfa Datblygu
Rhanbarthol Ewrop
European Regional
Development Fund**

Intended for
Welsh Government

Document type
Environmental Statement

Date
February 2021

A55 JUNCTION 16 ENVIRONMENTAL STATEMENT VOLUME 2 FIGURES

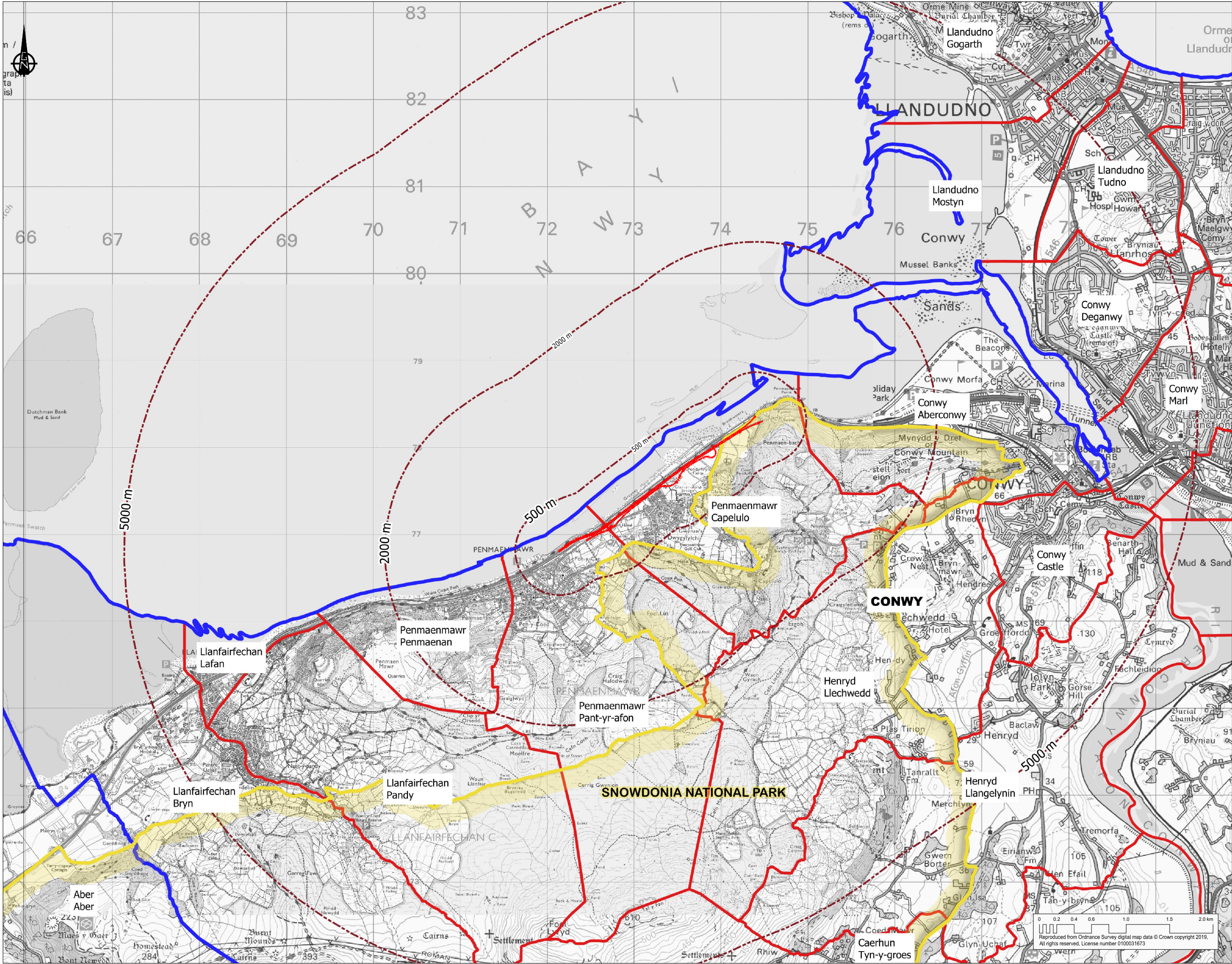
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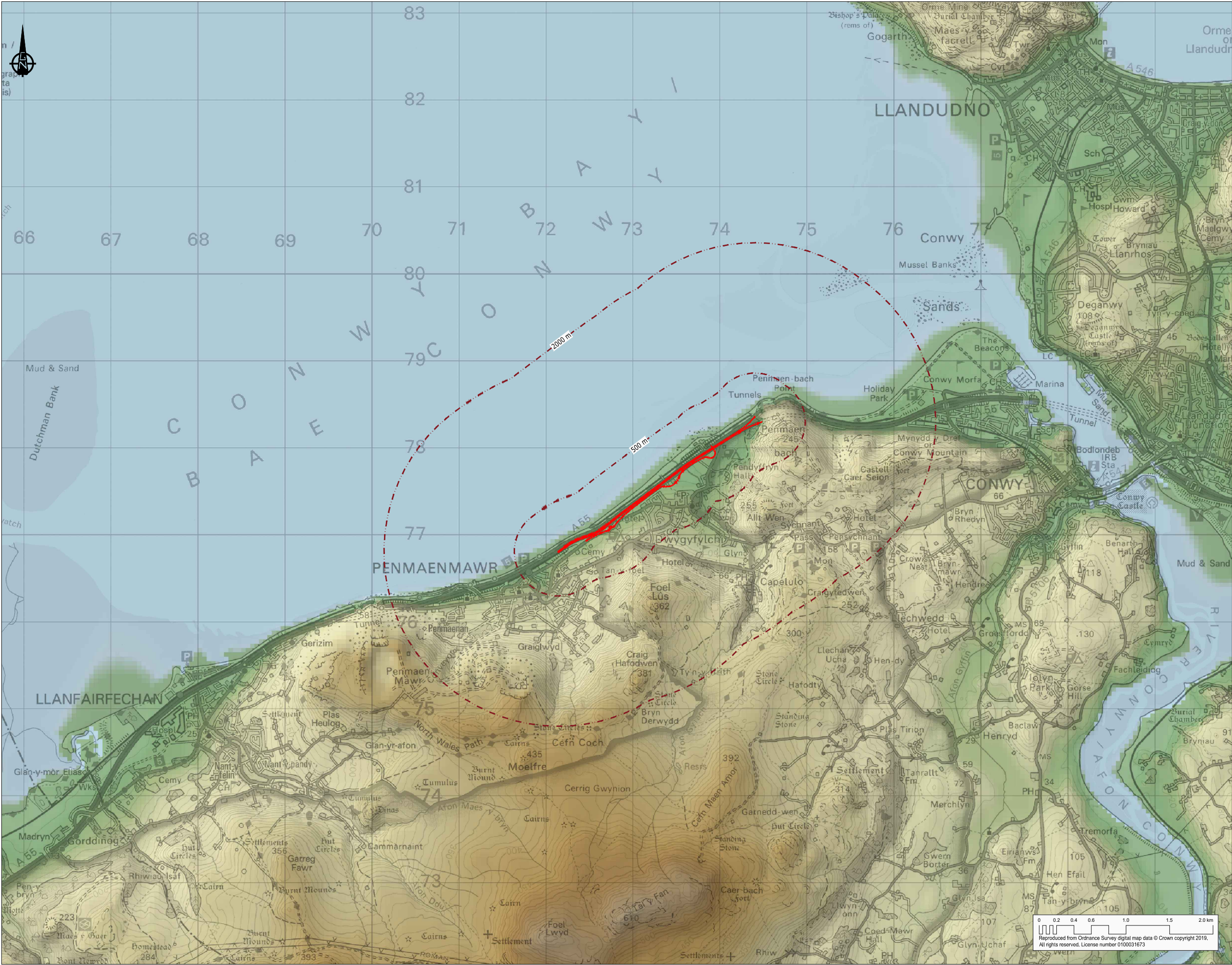
- Notes
- Community Council
 - County Council
 - National Park
 - Carriageway alignment
 - Fixed distance buffer

A55 JUNCTION 15 & 16 IMPROVEMENTS



JUNCTION 16 FIGURE 2.1 ADMINISTRATIVE AREA SHEET 1 OF 1

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:40,000	RHe	DEC 20
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Notes

Level (metres above Ordnance datum)

more than 1000
901 to 1000
801 to 900
701 to 800
601 to 700
501 to 600
450 to 500
401 to 450
351 to 400
301 to 350
251 to 300
201 to 250
101 to 200
51 to 100
41 to 50
31 to 40
21 to 30
11 to 20
1 to 10
Sea Level

--- Carriageway alignment

--- Fixed distance buffer

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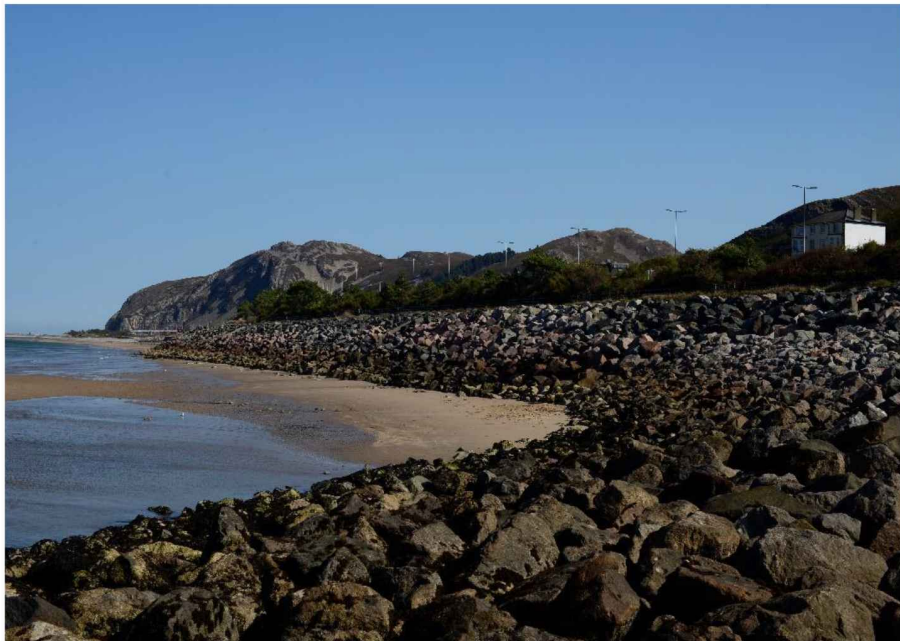
JUNCTION 16
FIGURE 2.2
SETTING OF THE SCHEME
SHEET 1 OF 1

Project No:	Scale (@A1):	Drawn:	Date:
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COAST



A. View east along Penmaenmawr Promenade with existing A55 road corridor above cafe and play area.



B. Coastal defences east of Promenade.



C. Pebble beach with views towards the Great Orme and West Shore of Llandudno.



D. Former skatepark area on Promenade with properties in Penmaenmawr overlooking the A55 road corridor.

Notes	Rev	Description	Date	By CHK	App	 Llywodraeth Cymru Welsh Government  Gateley /HAMER	 tel 01244 311855 chester@ramboll.co.uk www.ramboll.co.uk	JUNCTION 16 FIGURE 2.3 COAST, ROAD, TOWN & COUNTRY SHEET 1 OF 4			
	Project No: 1620000620		Scale (@A3): N.T.S.	Drawn: RJ	Date: FEB 20						
	Drawing No: A55115116-RML-30-16-DR-X-0206		Rev: 01								

TOWN



E. A55 westbound carriageway west of Junction 16A.



F. Maes-y-Llan residential area to the south of the A55 road corridor.



G. Junction 16A.



H. The A55 road corridor east of Junction 16.

Notes				Rev	Description	Date	By Chk	App				

TOWN



I. Penmaenmawr and Dwygyfylchi.



J. Penmaenmawr Town Centre



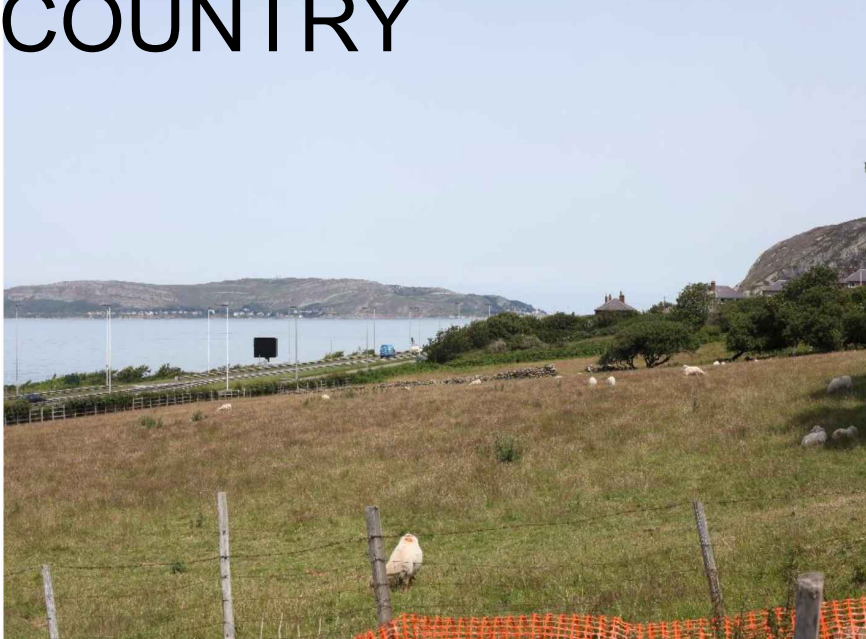
K. Penmaenmawr Quarry.



L. Quarrymen's Cottages in Penmaenmawr (West).

Notes	Rev	Description	Date	By CHK	App	 Llywodraeth Cymru Welsh Government  Gateley /HAMER  tel 01244 311855 chester@ramboll.co.uk www.ramboll.co.uk	JUNCTION 16 FIGURE 2.3 COAST, ROAD, TOWN & COUNTRY SHEET 3 OF 4			
	A55 JUNCTION 15 & 16 IMPROVEMENTS						Project No: 1620000620	Scale (@A3): N.T.S.	Drawn: RJ	Date: FEB 20
							Drawing No: A55J15J16-RML-30-16-DR-X-0208			

COUNTRY

A scenic view of a coastal landscape in Norway. In the foreground, a grassy field with a wire fence and a sheep is visible. In the middle ground, there's a body of water (fjord) with a small town and a large bridge. In the background, there are steep, rocky hills under a clear sky.

M. View northeast from Junction 16 towards Great Orme from Ysguborwen Road.



N. View northeast from recreation area adjacent to Gwel-y-Mor.

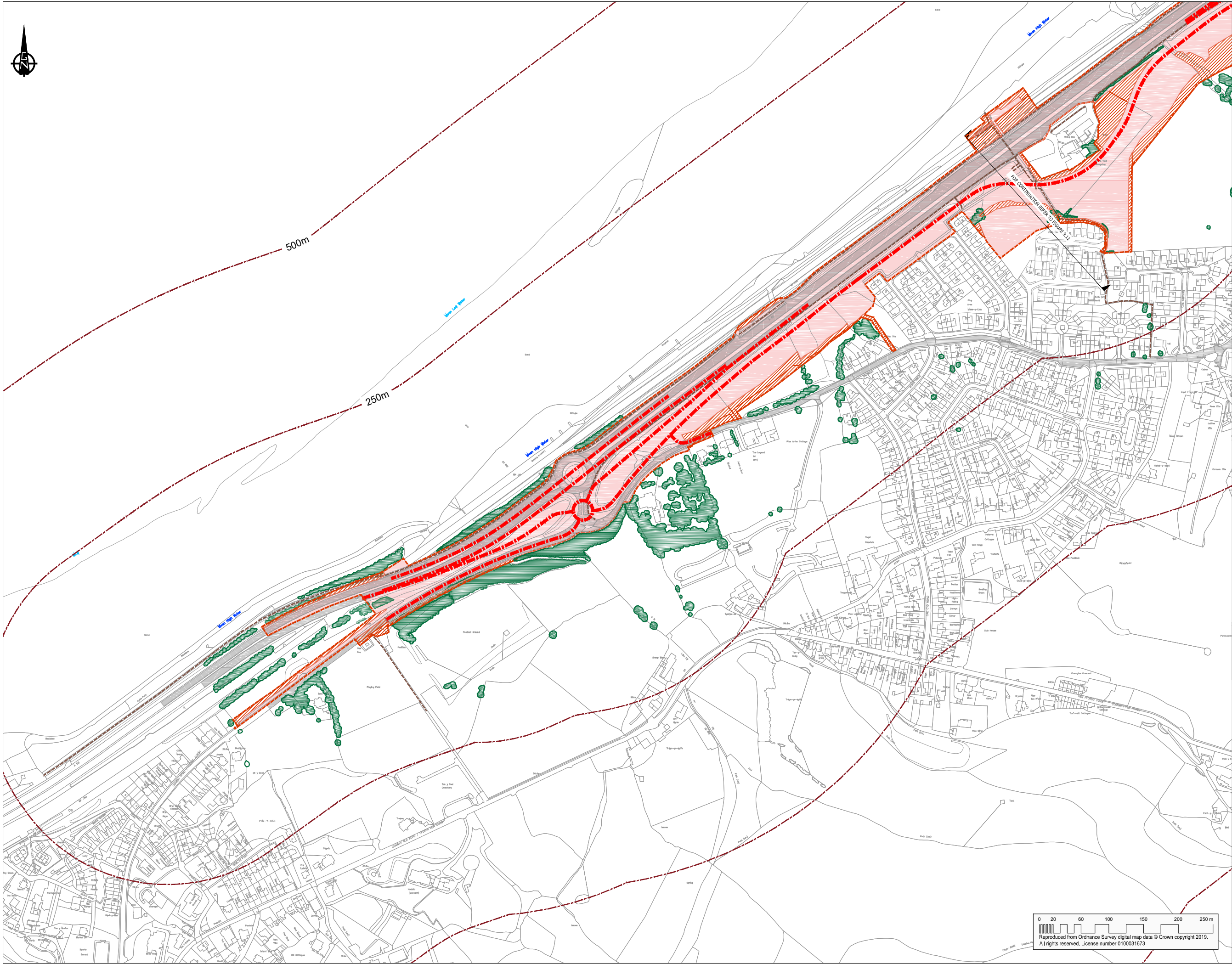


O. View towards Junction 16A across farmland and field used for events.



P. View west, south of A55 road corridor towards Dwygyfylchi with backdrop of Penmaenmawr Quarry.

Notes	Rev	Description	Date	By Cltk	App	 Llywodraeth Cymru Welsh Government   Gateley /HAMER				 tel 01244 311855 chester@ramboll.co.uk www.ramboll.co.uk		JUNCTION 16 FIGURE 2.3 COAST, ROAD, TOWN & COUNTRY SHEET 4 OF 4 <table><tr><td>Project No:</td><td>Scale (@A3):</td><td>Drawn:</td><td>Date:</td></tr><tr><td>1620000620</td><td>N.T.S.</td><td>RJ</td><td>FEB 20</td></tr><tr><td>Drawing No:</td><td colspan="2">A55J15J16-RML-30-16-DR-X-0209</td><td>Rev:</td></tr><tr><td></td><td colspan="2"></td><td>01</td></tr></table>				Project No:	Scale (@A3):	Drawn:	Date:	1620000620	N.T.S.	RJ	FEB 20	Drawing No:	A55J15J16-RML-30-16-DR-X-0209		Rev:				01
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Notes

- Existing road surface
- Extent of landtake
- Temporary landtake
- Proposed scheme alignment
- Fixed distance buffer

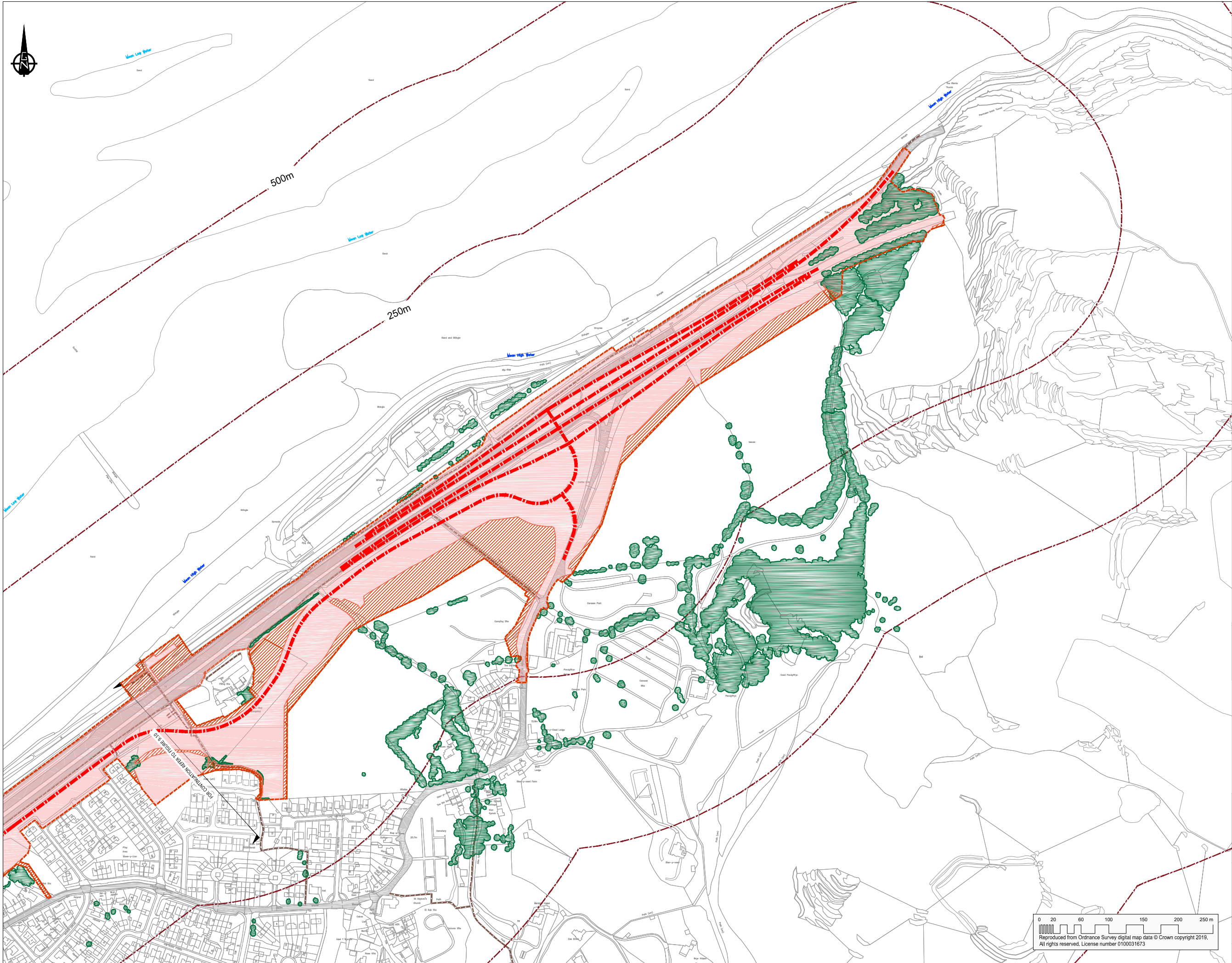
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JUNCTION 16 FIGURE 2.4 EXTENT OF LANDTAKE SHEET 1 OF 2

Project No:	Scale (@A1):	Drawn:	Date:
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- Notes
- Existing road surface
 - Extent of landtake
 - Proposed scheme alignment
 - Fixed distance buffer

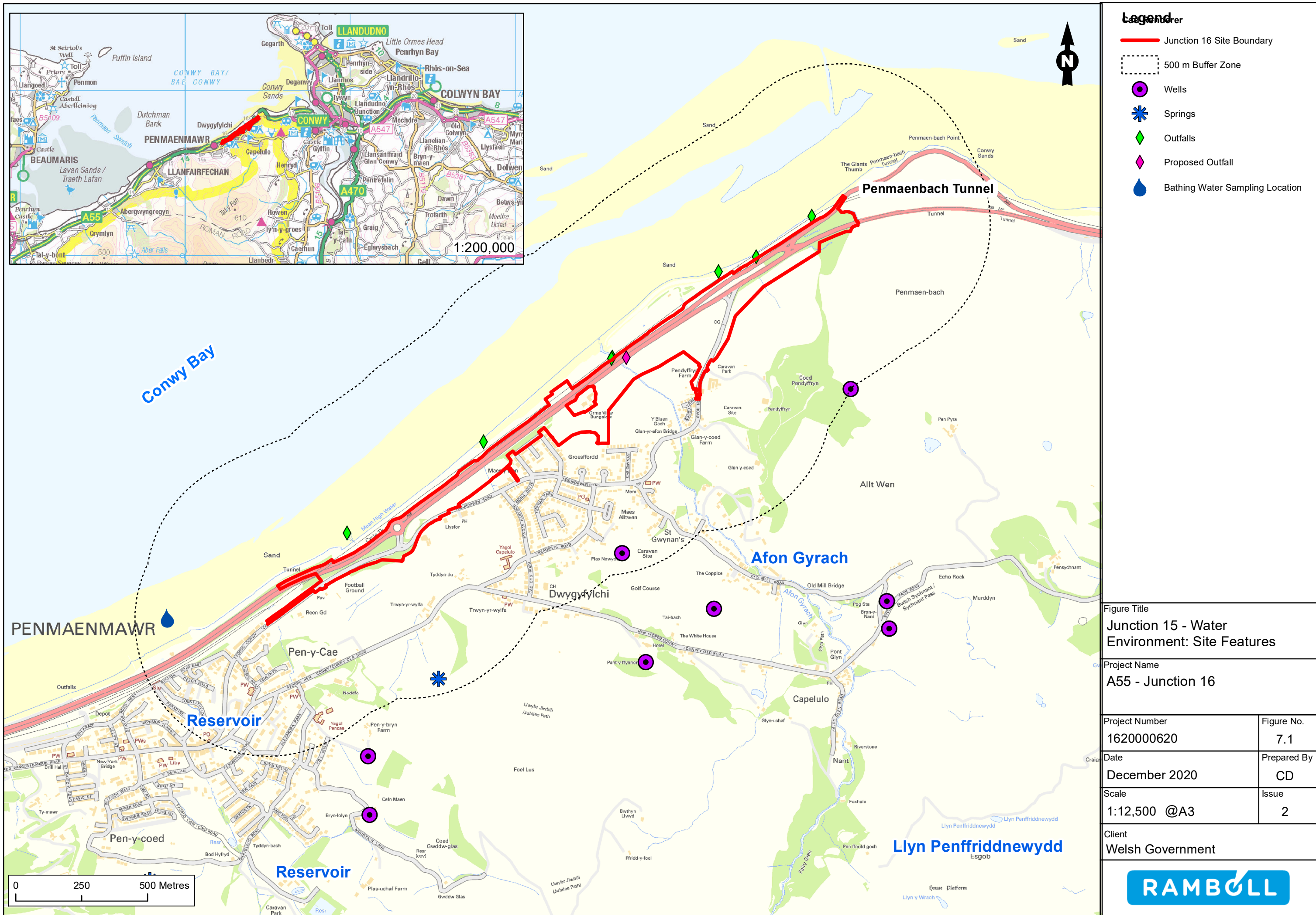
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JUNCTION 16 FIGURE 2.4 EXTENT OF LANDTAKE SHEET 2 OF 2

Project No: 1620000620	Scale (0A1): 1:5,000	Drawn: RhE	Date: DEC 20
Drawing No: A55J15J16-RML-30-16-DR-X-0211		Rev: 03	

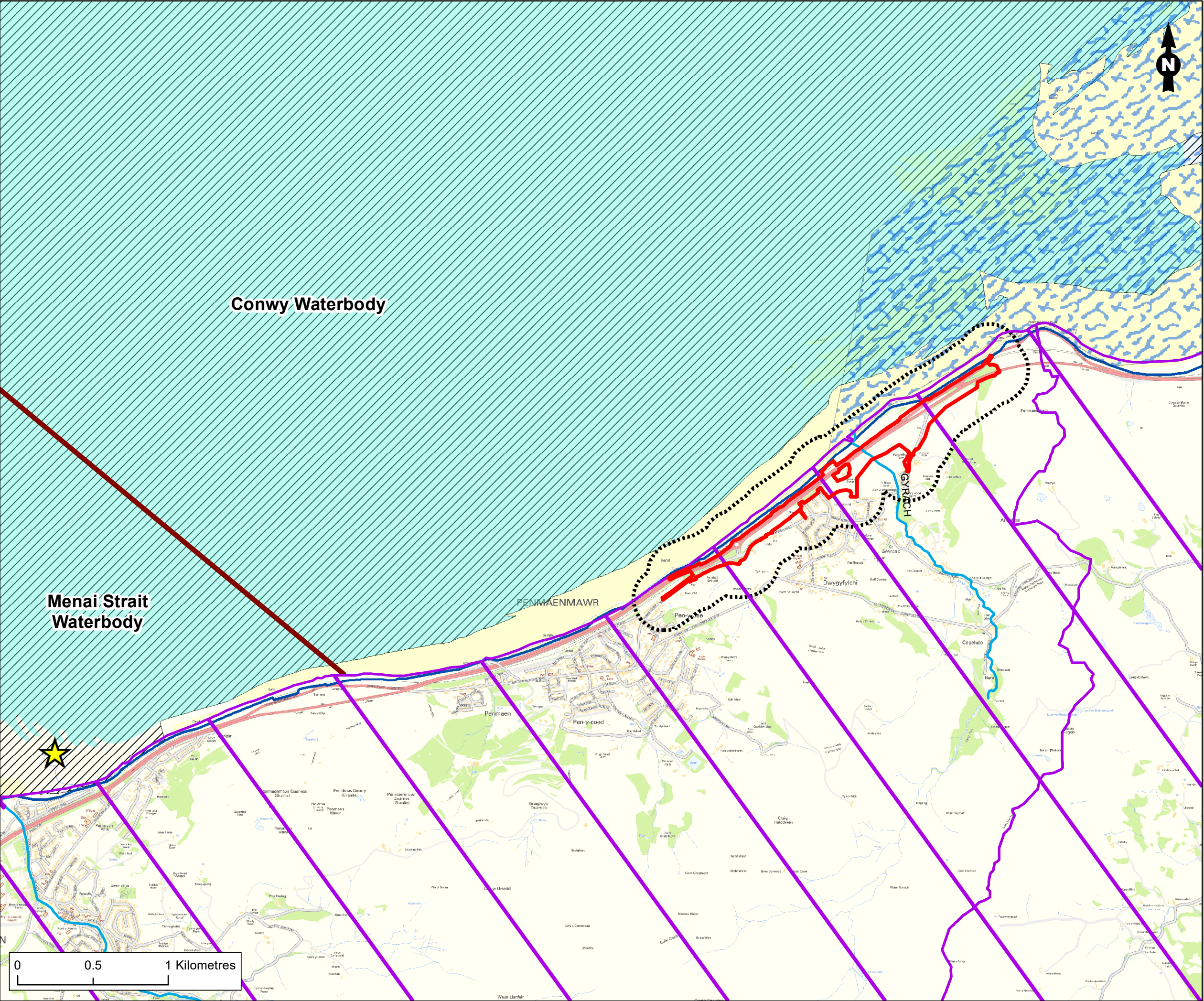
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7.2	Water Environment - Designated Sites
7.3	NRW Risk of Flooding from Rivers and Sea
7.4	NRW Risk of Flooding from Surface Water (3% annual chance)
7.5	NRW Risk of Flooding from Surface Water (1% annual chance)
7.6	NRW Risk of Flooding from Surface Water (0.1% annual chance)



- Legend**
- Junction 16 Site Boundary
 - 500 m Buffer Zone
 - Wells
 - ✱ Springs
 - ◆ Outfalls
 - ◆ Proposed Outfall
 - 💧 Bathing Water Sampling Location

Figure Title	
Junction 15 - Water Environment: Site Features	
Project Name	
A55 - Junction 16	
Project Number	Figure No.
1620000620	7.1
Date	Prepared By
December 2020	CD
Scale	Issue
1:12,500 @A3	2
Client	
Welsh Government	

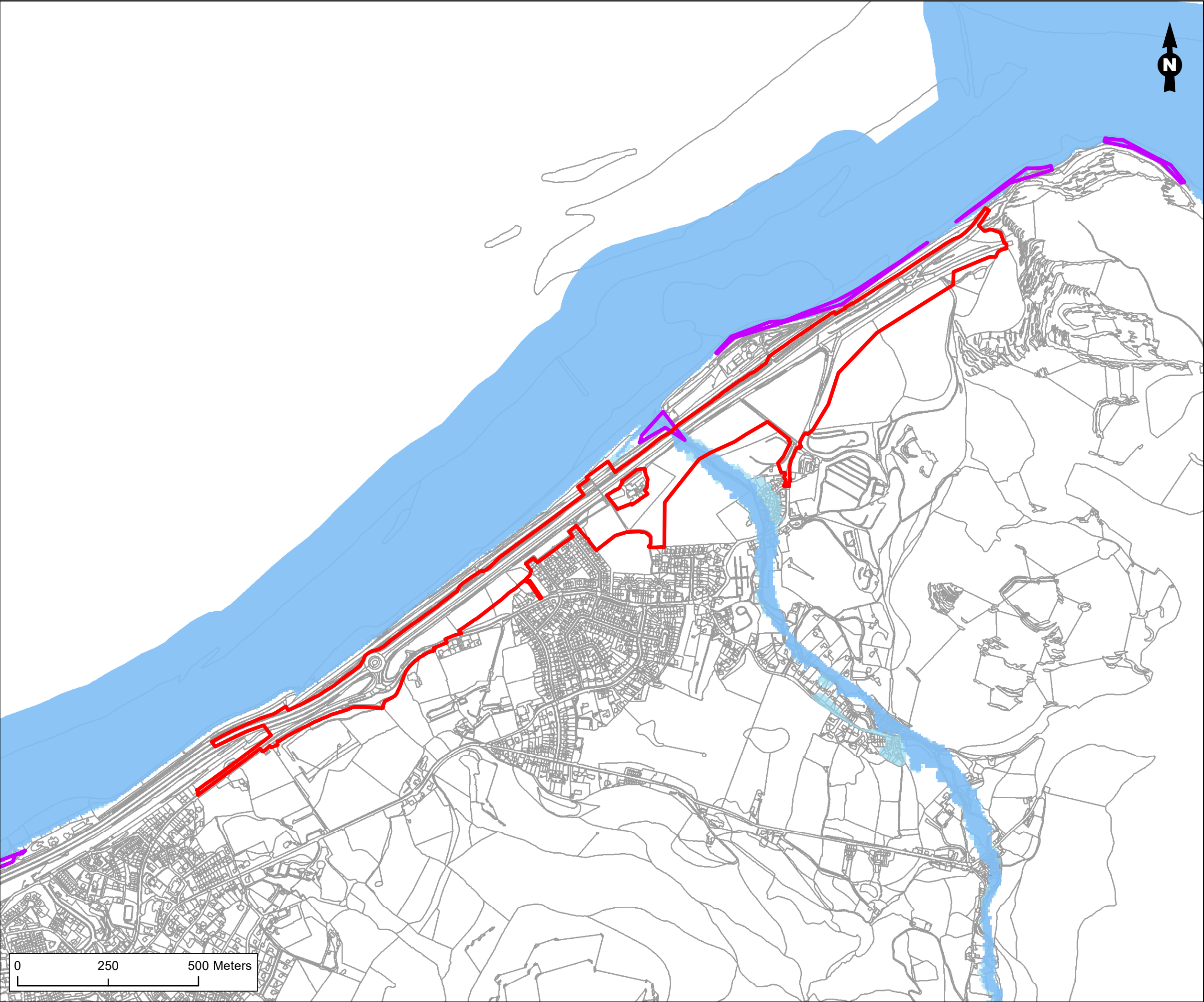




Legend

- Junction 16 Site Boundary
- 200 m Buffer Zone
- WFD Designated Groundwater Body
- Shellfish Bed - Protected Site
- Protected Sites Special Protection Areas**
- Liverpool Bay
- Protected Sites Special Areas Of Conservation**
- Menai Strait and Conwy Bay
- ★ Bathing water

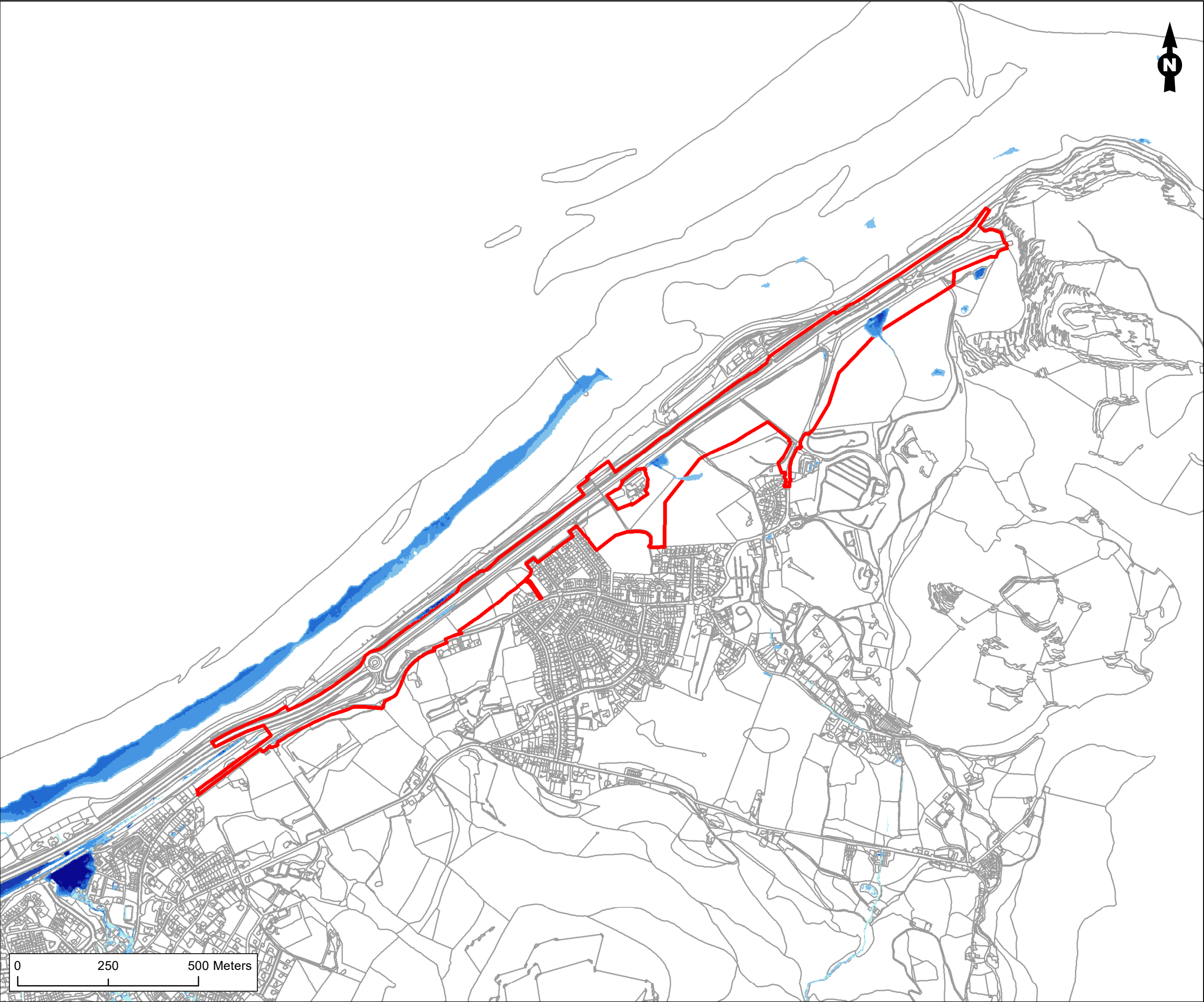
Figure Title	
Junction 16 - Water Environment Designated Sites	
Project Name	
A55 - Junction 16	
Project Number	Figure No.
1620000620	7.2
Date	Prepared By
December 2020	CD
Scale	Issue
1:24,000 @A3	2
Client	
Welsh Government	
RAMBOLL	



Legend

- Junction 16 Site Boundary
- Flood Zone 3
- Flood Zone 2
- Flood Alert Area
- Area Benefitting from Flood Defences

Figure Title	
NRW Flood Zone Mapping	
Project Name	
A55 Junction 16 Improvements	
Project Number	Figure No.
1620000620	7.3
Date	Prepared By
December 2020	CD
Scale	Issue
1:10,000 @A3	2
Welsh Government	
RAMBOLL	



Legend

Junction 16 Site Boundary

Surface Water and Small Watercourses - High Probability (1 in 30)
Depth (metres)

0 - 0.15

0.15 - 0.3

0.3 - 0.6

0.6 - 0.9

0.9 - 1.2

>1.2

Figure Title

NRW Surface Water and Small Watercourses - High Probability

Project Name

A55 Junction 16

Project Number

1620000620

Figure No.

7.4

Date

December 2020

Prepared By

CD

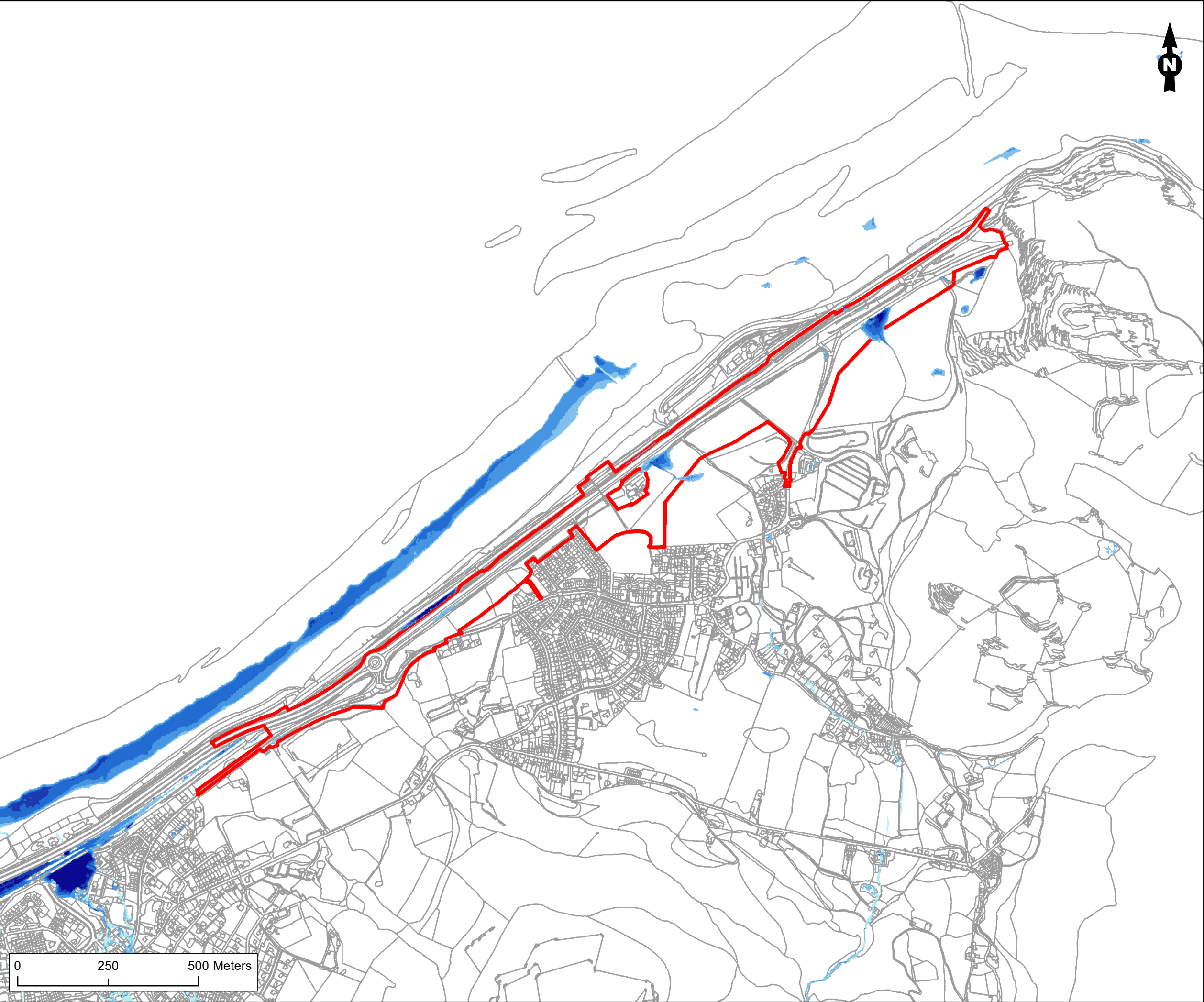
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Issue

2

Welsh Government



Legend

— Junction 16 Site Boundary

Surface Water and Small Watercourses - Medium Probability (1 in 100)

Depth (metres)

- 0 - 0.15
- 0.15 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- >1.2

Figure Title
NRW Surface Water and Small Watercourses - Medium Probability

Project Name
A55 Junction 16

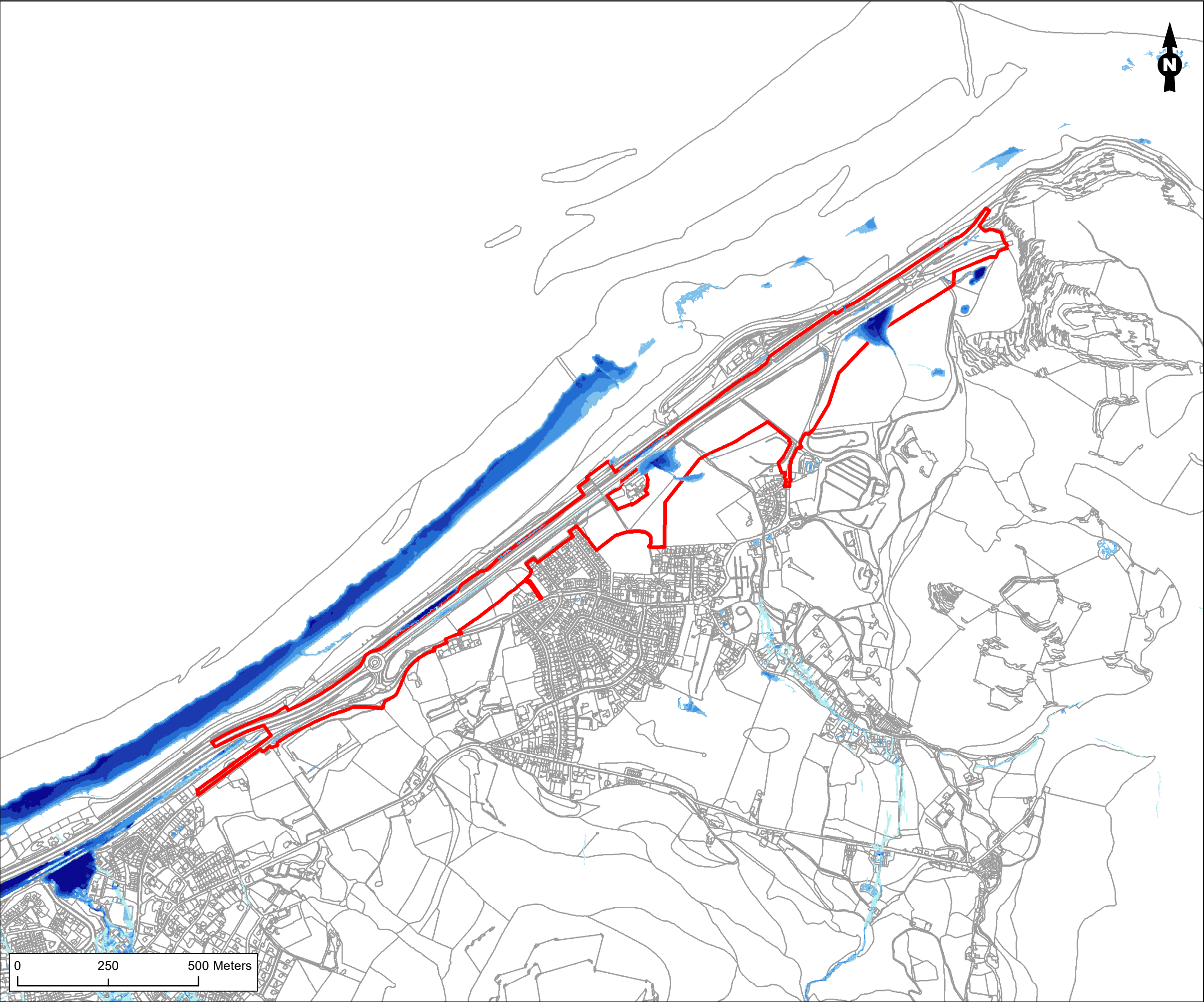
Project Number 1620000620	Figure No. 7.5
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Date December 2020	Prepared By CD
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Scale 1:10,000 @A3	Issue 2
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Legend

— Junction 16 Site Boundary

Surface Water and Small Watercourses - Low Probability (1 in 1,000)

Depth (metres)

- 0 - 0.15
- 0.15 - 0.3
- 0.3 - 0.6
- 0.6 - 0.9
- 0.9 - 1.2
- >1.2

Figure Title
NRW Surface Water and Small Watercourses - Low Probability

Project Name
A55 Junction 16

Project Number 1620000620	Figure No. 7.6
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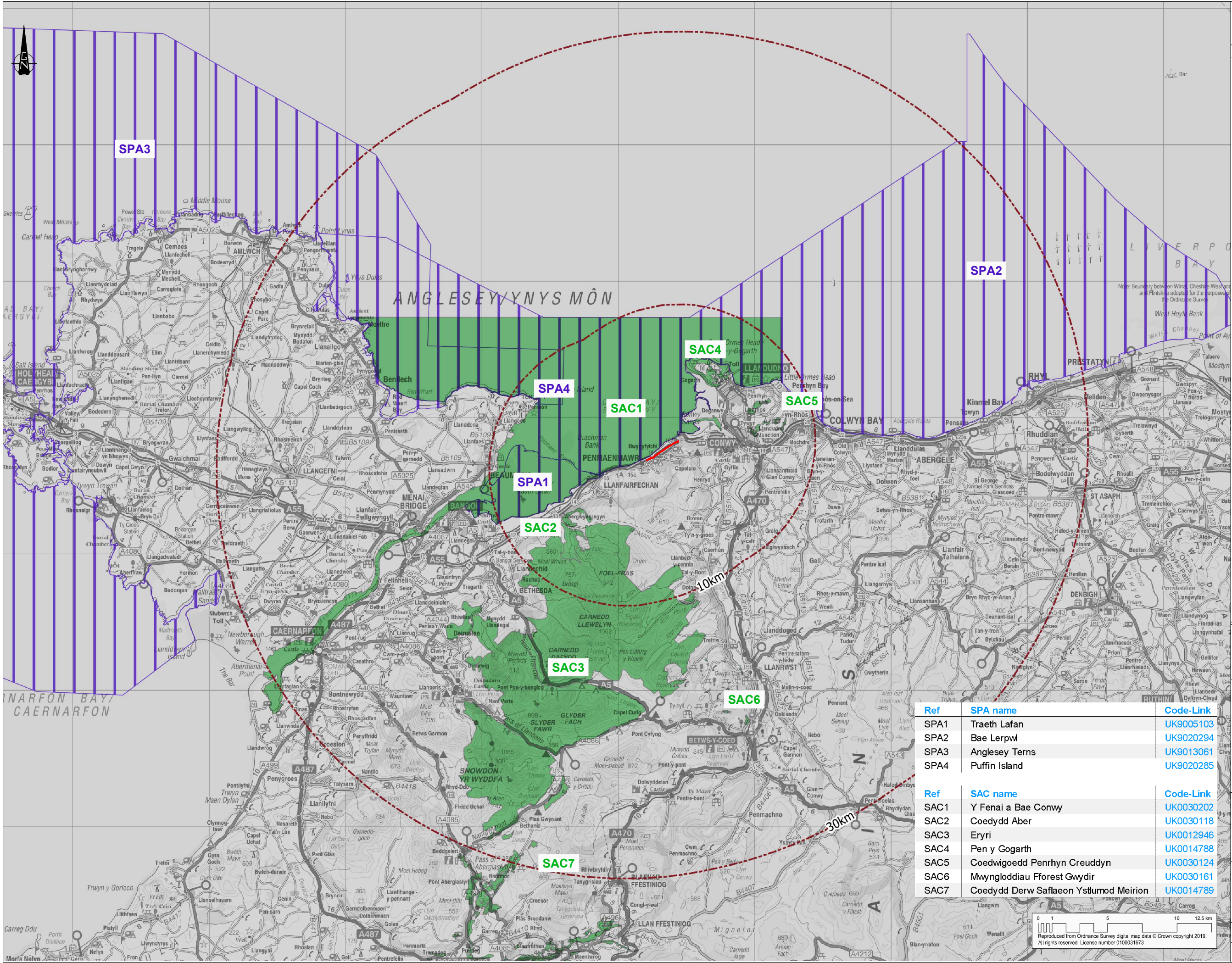
Date December 2020	Prepared By CD
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Scale 1:10,000 @A3	Issue 2
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ES Chapter 8 Figures	
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8.2	Nationally Designated Nature Conservation Sites
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8.12	Otter Survey of Afon Gyrach (North)
8.13	Otter Survey of Afon Gyrach (Centre)
8.14	Otter Survey of Afon Gyrach (South)



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- Notes
- Scheme location
 - Fixed distance buffer (10 and 30 km)
 - Special Protection Area
 - Special Area of Conservation

A55 JUNCTION 15 & 16 IMPROVEMENTS



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JUNCTION 16 FIGURE 8.1 INTERNATIONALLY DESIGNATED NATURE CONSERVATION SITES

Project No:	Scale (041):	Drawn:	Date:
1620000620	1:250,000	RLJ	FEB 20
Drawing No:			Rev:
A55J15J16-RML-30-16-DR-X-0801			01

Ref	SPA name	Code-Link
SPA1	Traeth Lafan	UK9005103
SPA2	Bae Lerpwl	UK9020294
SPA3	Anglesey Terns	UK9013061
SPA4	Puffin Island	UK9020285

Ref	SAC name	Code-Link
SAC1	Y Fenai a Bae Conwy	UK0030202
SAC2	Coedydd Aber	UK0030118
SAC3	Eryri	UK0012946
SAC4	Pen y Gogarth	UK0014788
SAC5	Coedwigoedd Penrhyn Creuddyn	UK0030124
SAC6	Mwyngloddiau Fforest Gwydir	UK0030161
SAC7	Coedydd Derw Safleau Ystlumod Meirion	UK0014789



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Notes

- Study Area (2 and 5 km buffer)
- Site of Special Scientific Interest
- Local Nature Reserve

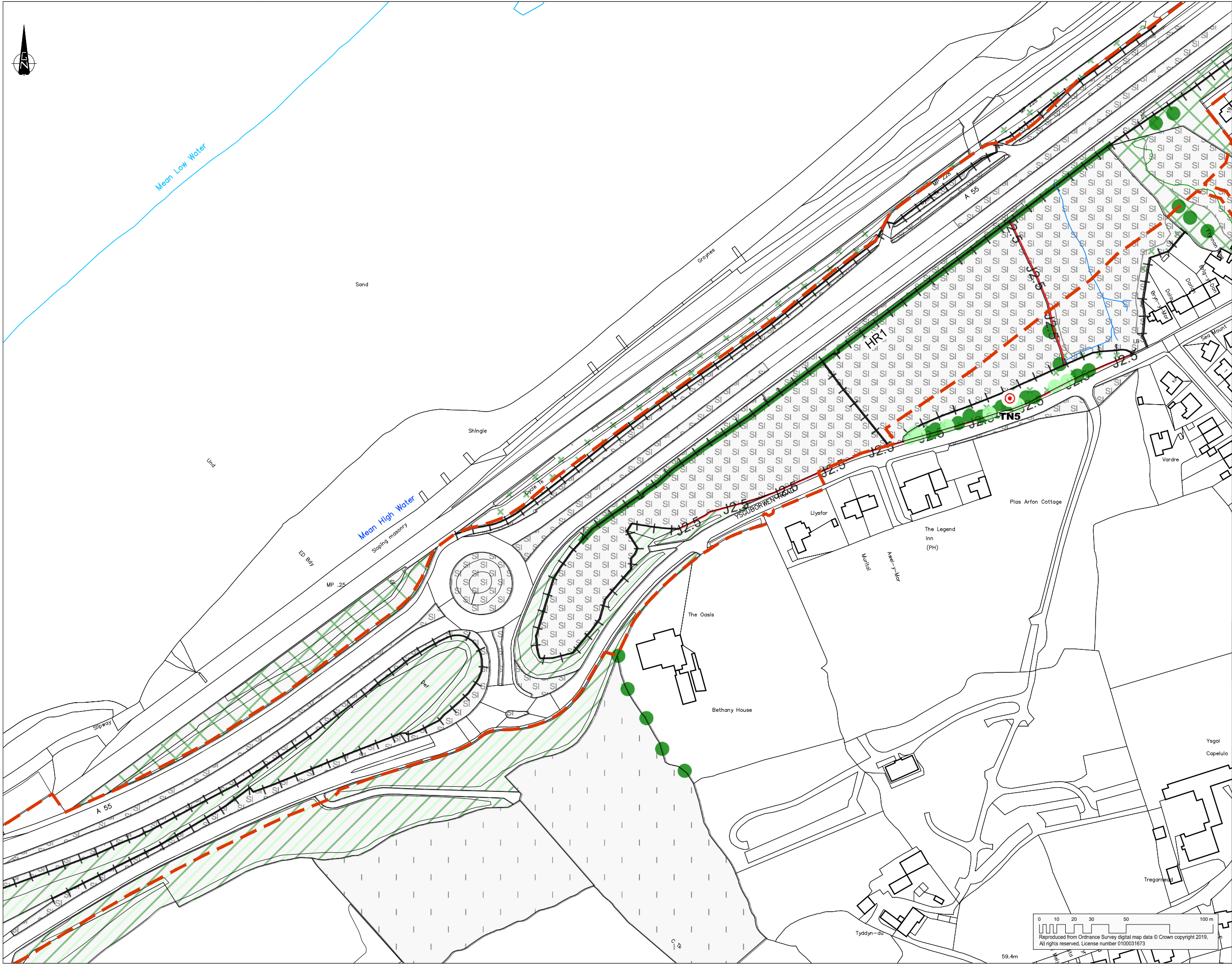
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JUNCTION 16
FIGURE 8.2
NATIONALLY DESIGNATED
NATURE CONSERVATION SITES

Project No: 1620000620	Scale (041): 1:50,000	Drawn: RLJ	Date: FEB 20
Drawing No: A55J15J16-RML-30-16-DR-X-0802		Rev: 03	



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- Notes
- Proposed scheme extents
 - Phase 1 Habitat Elements
 - Target note
 - A1.3.2 - Mixed woodland plantation
 - A2.1 - Scrub, dense/continuous
 - A2.2 - Scrub, scattered
 - A3.1 - Parkland, scattered trees, broad-leaved
 - A3.2 - Parkland, scattered trees, coniferous
 - B4 - Improved grassland
 - B6 - Poor semi-improved grassland
 - H1.1 - Mud/Sand
 - H3 - Shingle above high tide mark
 - J2.1.2 - Intact hedge species poor
 - J2.4 - Fence
 - J2.5 - Wall
 - J3.6 - Buildings

A55 JUNCTION 15 & 16 IMPROVEMENTS

Llywodraeth Cymru
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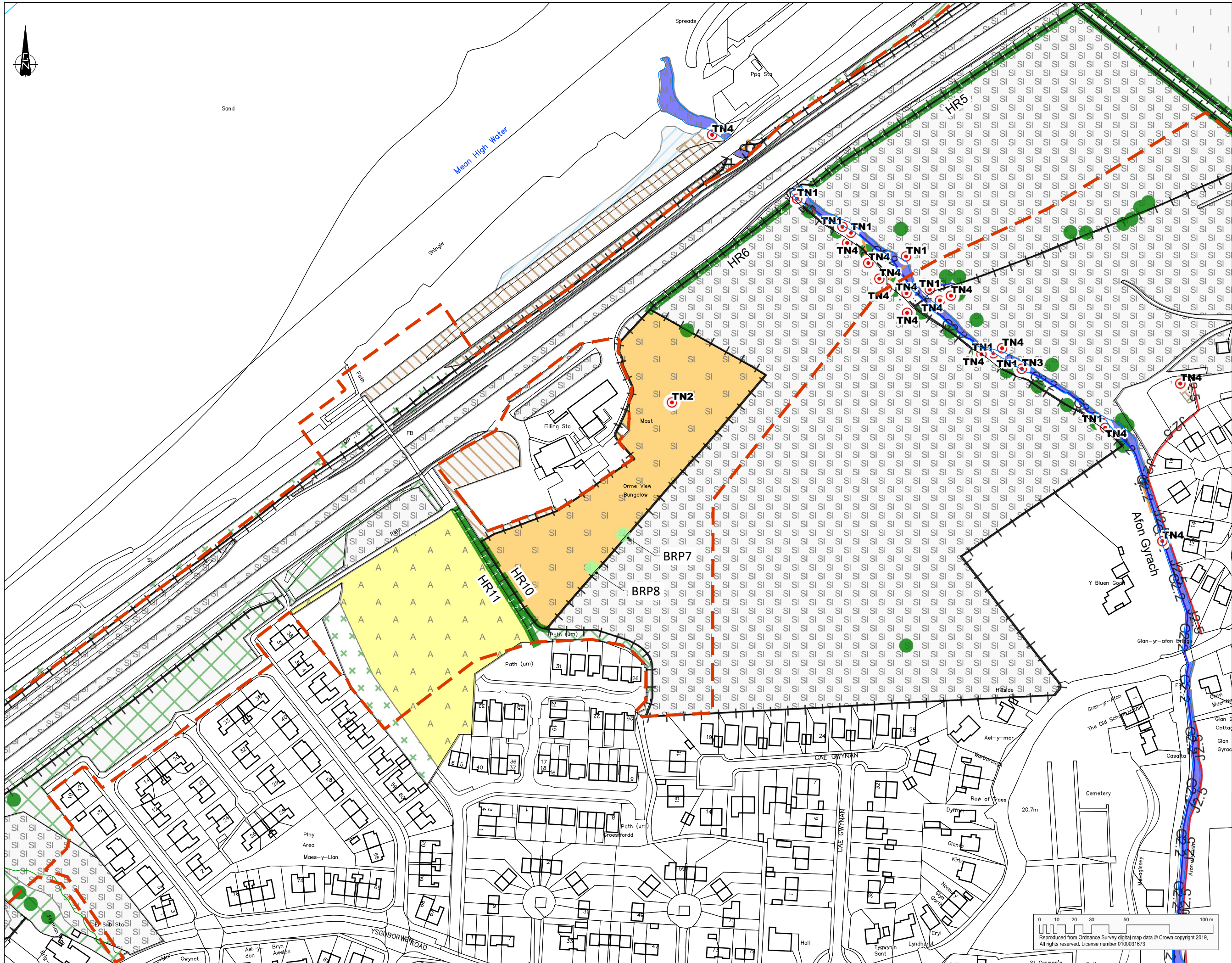
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JUNCTION 16
FIGURE 8.3
PHASE 1 HABITAT SURVEY
SHEET 01 of 03

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:2,000	RLJ	FEB 20
Drawing No:			Rev:
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Notes

Proposed scheme extents

Phase 1 Habitat Elements

- Target note
- A1.3.2 - Mixed woodland plantation
- A3.1 - Parkland, scattered trees, broad-leaved
- A3.2 - Parkland, scattered trees, coniferous
- A2.1 - Scrub, dense/continuous
- A2.2 - Scrub, scattered
- B2.2 - Semi-improved grassland
- B4 - Improved grassland
- B6 - Poor semi-improved grassland
- C3.1 - Tall ruderal
- F2.1 - Marginal vegetation
- G2.2 - Running water
- H1.1 - Mud/Sand
- H3 - Shingle above high tide mark
- J1.2 - Amenity grassland
- J2.1.1 - Intact hedge species rich
- J2.1.2 - Intact hedge species poor
- J2.2.2 - Defunct hedge species poor
- J2.4 - Fence
- J2.5 - Wall
- J3.6 - Buildings

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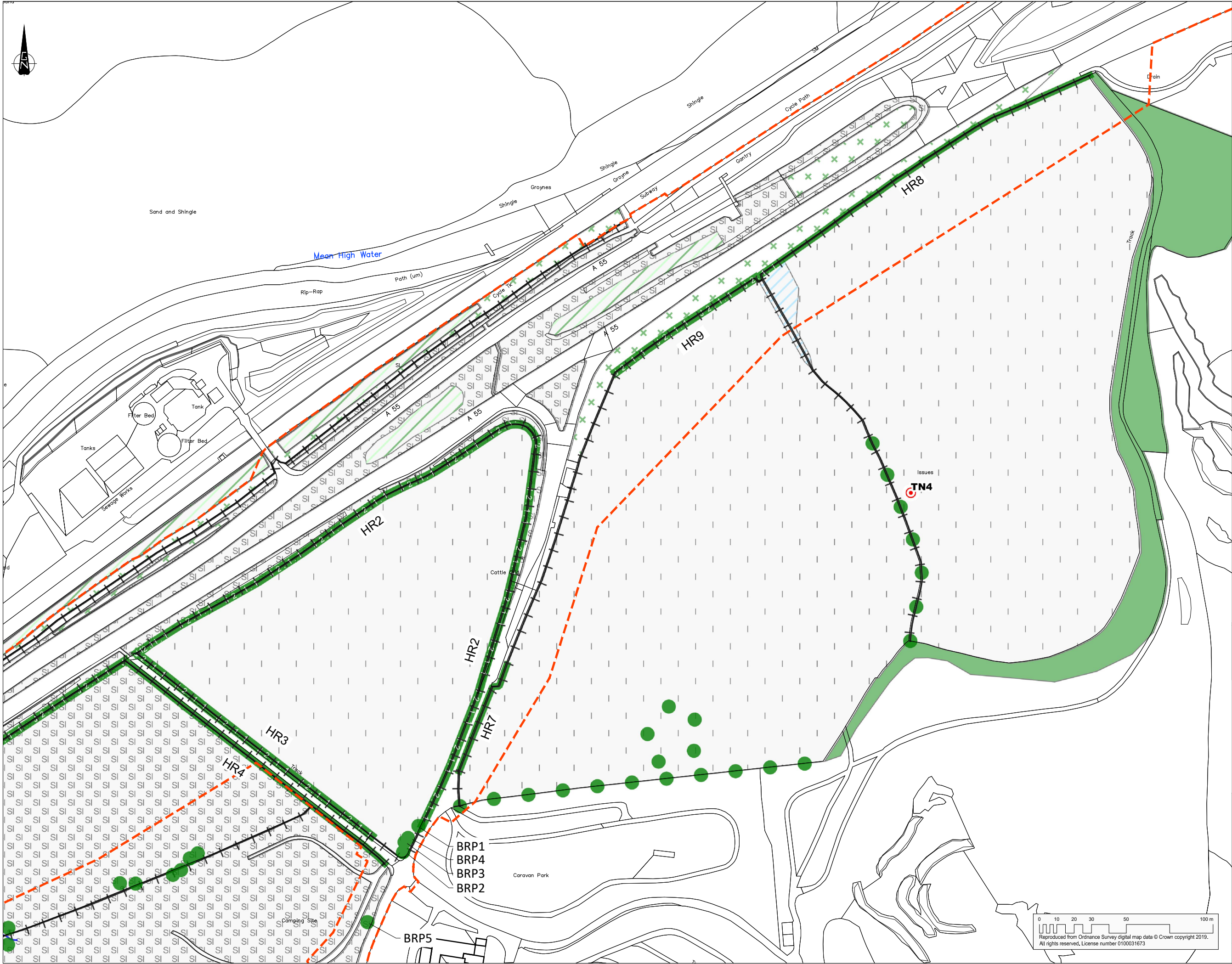
 
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**JUNCTION 16
FIGURE 8.4
PHASE 1 HABITAT SURVEY
SHEET 02 of 03**

Project No:	Scale (0A1):	Drawn:	Date:
1620000620	1:2,000	RLJ	FEB 20
Drawing No:			Rev:
A55J15J16-RML-30-16-DR-X-0804			04



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- Notes
- Proposed scheme extents
 - Phase 1 Habitat Elements
 - Target note
 - A1.3.2 - Mixed woodland plantation
 - A3.1 - Parkland, scattered trees, broad-leaved
 - A2.2 - Scrub, scattered
 - B4 - Improved grassland
 - B6 - Poor semi-improved grassland
 - F2.1 - Marginal vegetation
 - H1.1 - Mud/Sand
 - H3 - Shingle above high tide mark
 - J2.1.1 - Intact hedge species rich
 - J2.1.2 - Intact hedge species poor
 - J2.4 - Fence
 - J3.6 - Buildings

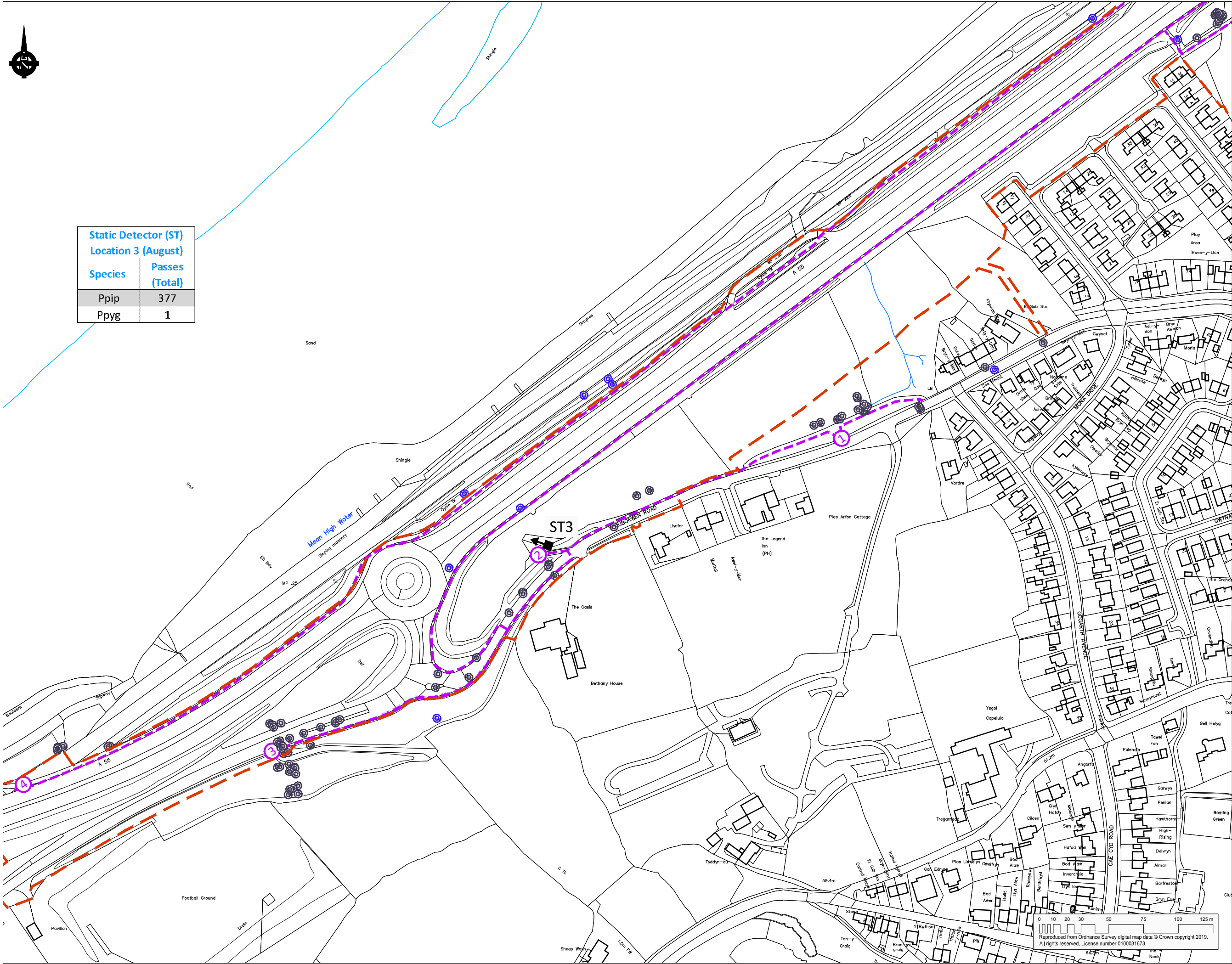
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JUNCTION 16
FIGURE 8.5
PHASE 1 HABITAT SURVEY
SHEET 03 of 03

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:2,000	RLJ	FEB 20
Drawing No:			Rev:
A55J15J16-RML-30-16-DR-X-0805			03



Static Detector (ST)	
Location 3 (August)	
Species	Passes (Total)
Ppip	377
Ppyg	1

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- Notes
- Proposed scheme extents
 - Transect route completed in 2018
 - 5 minute stopping point
 - Location for static detector
 - Means of access
 - Common Pipistrelle (Ppip) record during transect surveys
 - Soprano Pipistrelle (Ppyg) record during transect surveys
 - Noctule (Nnoc) record during transect surveys

Notes:
Transect to be walked over 3 occasions, with route reversed on one occasion.

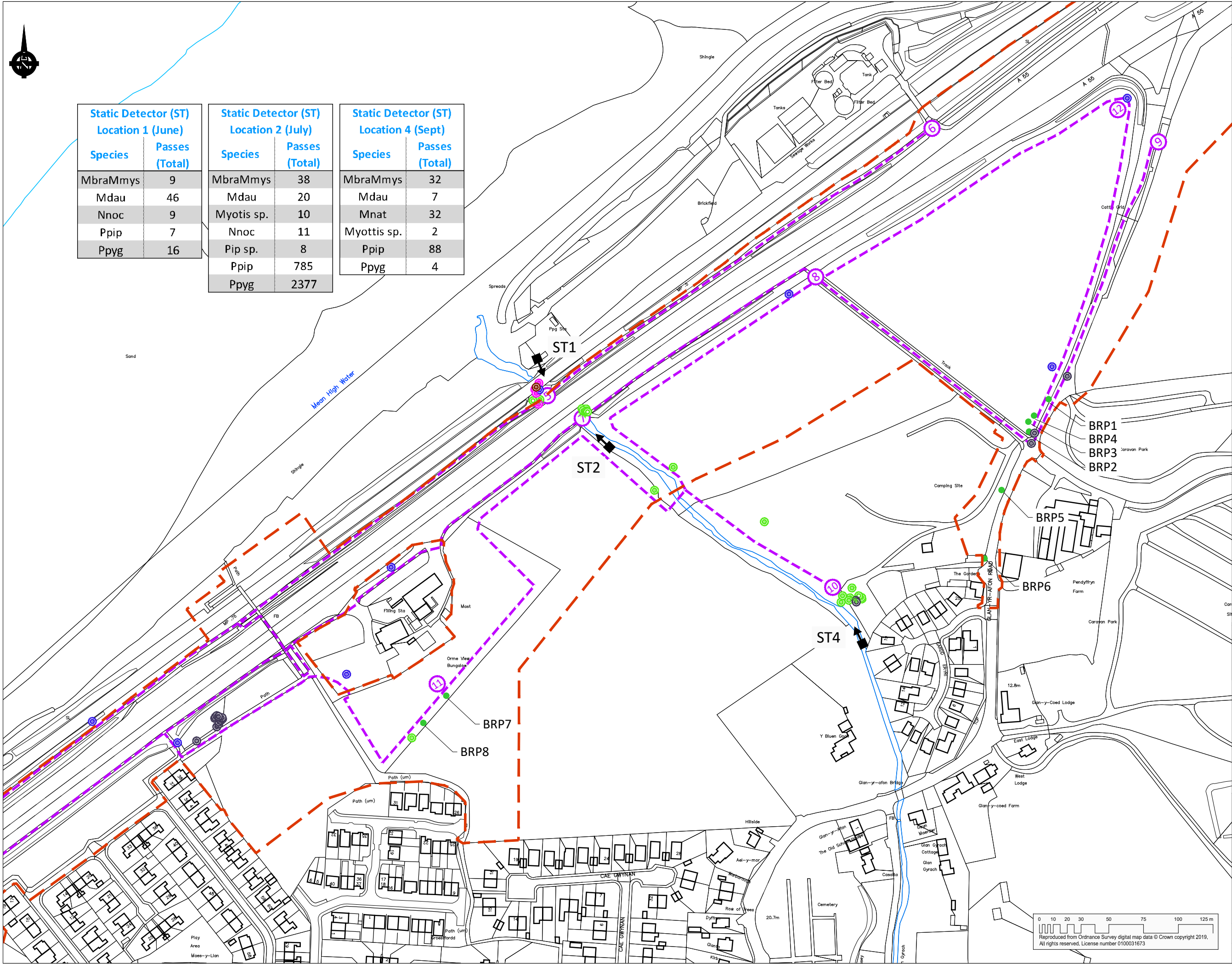
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JUNCTION 16 FIGURE 8.6 BAT TRANSECT ROUTE 2018 SHEET 01 of 02

Project No: 1620000620	Scale (041): 1:2,500	Drawn: RLJ	Date: FEB 20
Drawing No: A55J15J16-RML-30-16-DR-X-0806		Rev: 03	



Static Detector (ST) Location 1 (June)	
Species	Passes (Total)
MbraMmys	9
Mdau	46
Nnoc	9
Ppip	7
Ppyg	16

Static Detector (ST) Location 2 (July)	
Species	Passes (Total)
MbraMmys	38
Mdau	20
Myotis sp.	10
Nnoc	11
Pip sp.	8
Ppip	785
Ppyg	2377

Static Detector (ST) Location 4 (Sept)	
Species	Passes (Total)
MbraMmys	32
Mdau	7
Mnat	32
Myotis sp.	2
Ppip	88
Ppyg	4

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- Notes
- Proposed scheme extents
 - Transect route completed in 2018
 - 5 minute stopping point
 - Location for static detector
 - Means of access
 - Common Pipistrelle (Ppip) record during transect surveys
 - Soprano Pipistrelle (Ppyg) record during transect surveys
 - Noctule (Nnoc) record during transect surveys
 - Whiskered/Brandts (MbraMmys) record during transect surveys
 - Daubentons (Mdau) record during transect surveys

Notes:
Transect to be walked over 3 occasions, with route reversed on one occasion.

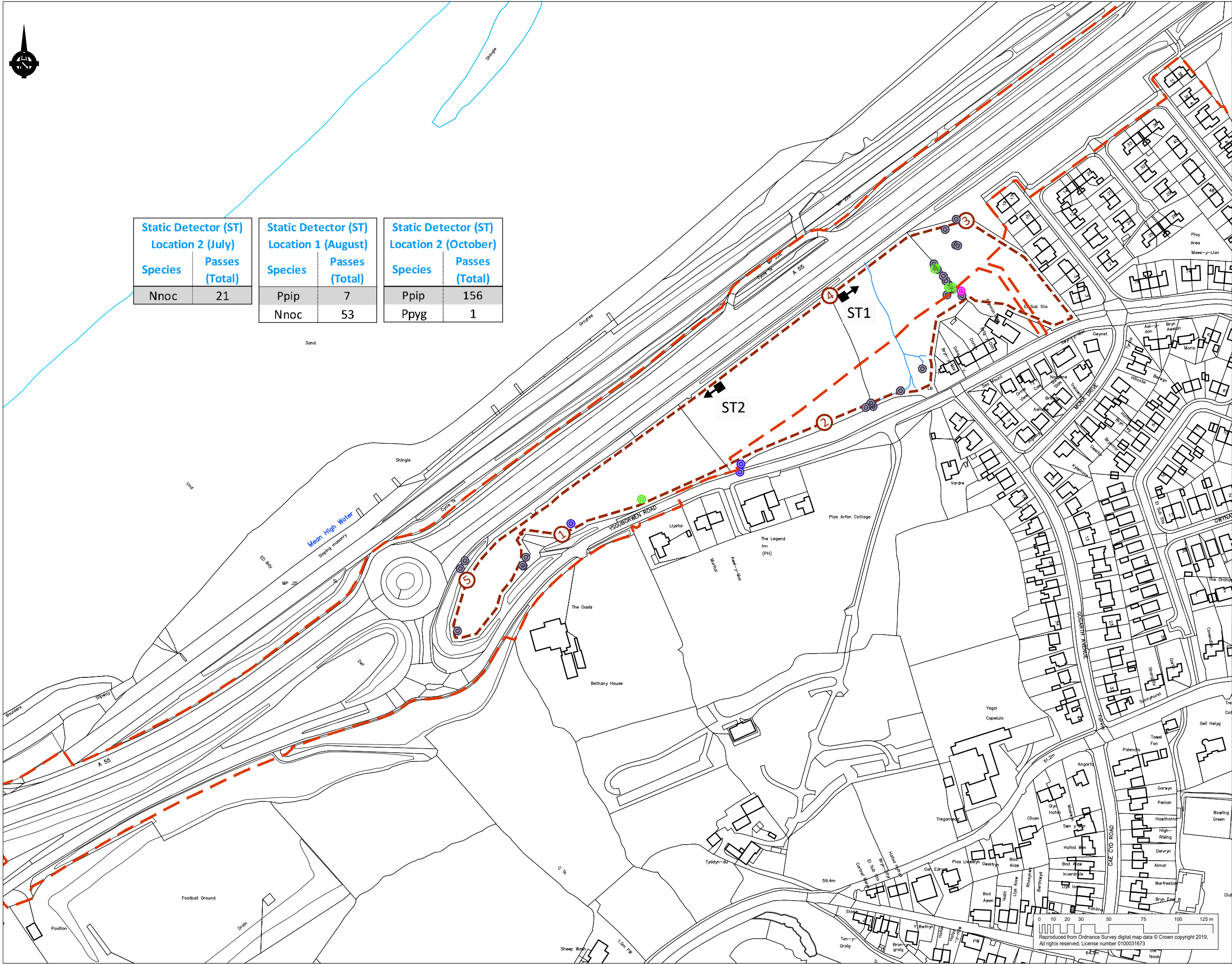
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JUNCTION 16 FIGURE 8.7 BAT TRANSECT ROUTE 2018 SHEET 02 of 02

Project No: 1620000620 Scale (0A1): 1:2,500 Drawn: RLJ Date: FEB 20
Drawing No: A55J15J16-RML-30-16-DR-X-0807 Rev: 03



Static Detector (ST) Location 2 (July)		Static Detector (ST) Location 1 (August)		Static Detector (ST) Location 2 (October)	
Species	Passes (Total)	Species	Passes (Total)	Species	Passes (Total)
Nnoc	21	Ppip	7	Ppip	156
		Nnoc	53	Ppyg	1

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- Notes
- Proposed scheme extents
 - Transect route completed in 2019
 - 5 minute stopping point
 - Location for static detector
 - Means of access
 - Common Pipistrelle (Ppip) record during transect survey
 - Soprano Pipistrelle (Ppyg) record during transect survey
 - Noctule (Nnoc) record during transect survey
 - Whiskered/Brandts (MbraMmys) record during transect survey

Notes:
Transect to be walked over 3 occasions, with route reversed on one occasion.

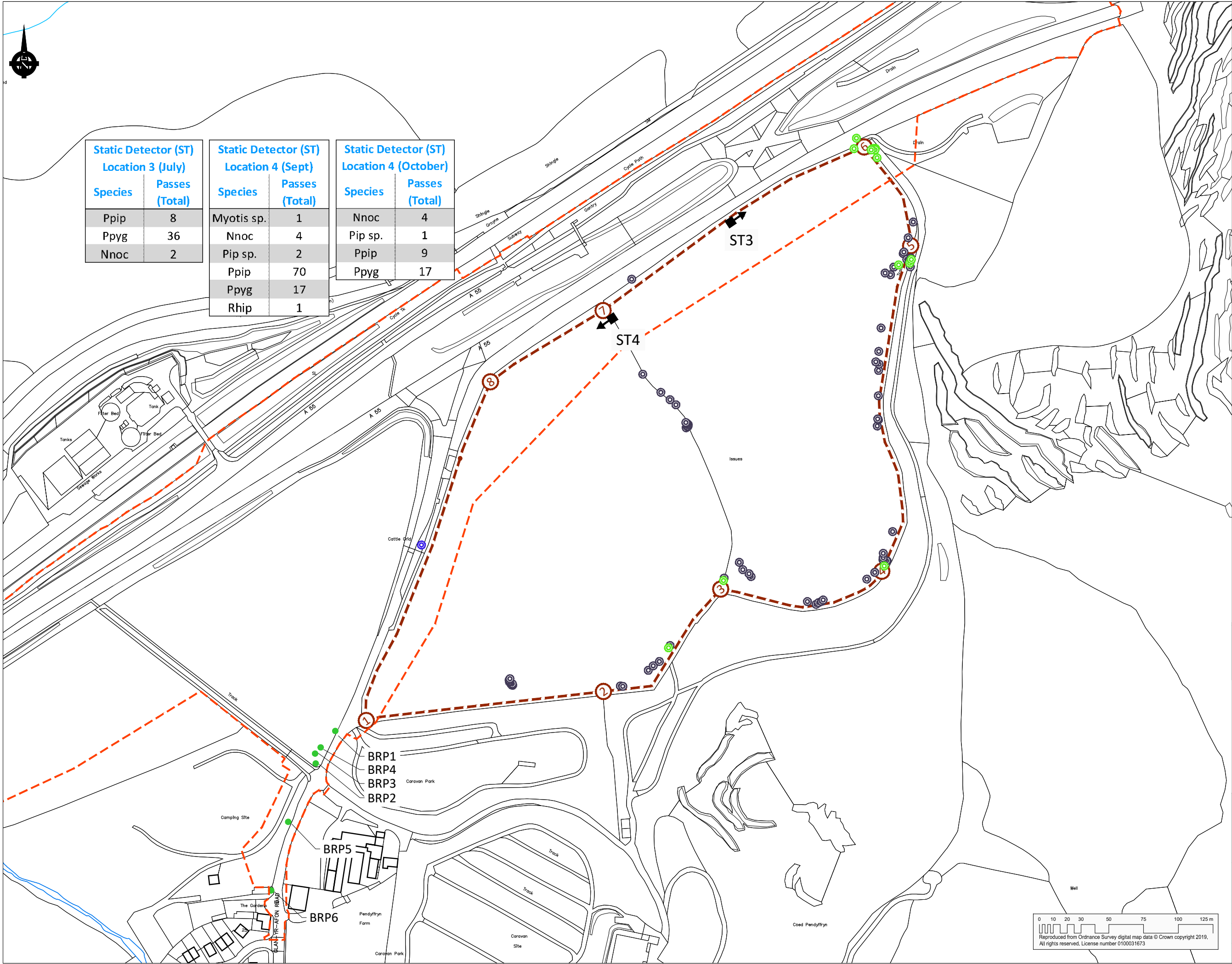
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JUNCTION 16 FIGURE 8.8 BAT TRANSECT ROUTE 2019 SHEET 01 of 02

Project No: 1620000620	Scale (041): 1:2,500	Drawn: RLJ	Date: FEB 20
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- Notes
- Proposed scheme extents
 - Transect route completed in 2019
 - 5 minute stopping point
 - Location for static detector
 - Means of access
 - Common Pipistrelle (Ppip) record during transect survey
 - Soprano Pipistrelle (Ppyg) record during transect survey
 - Noctule (Nnoc) record during transect survey
 - Whiskered/Brandts (MbraMmys) record during transect survey

Notes:
Transect to be walked over 3 occasions, with route reversed on one occasion.

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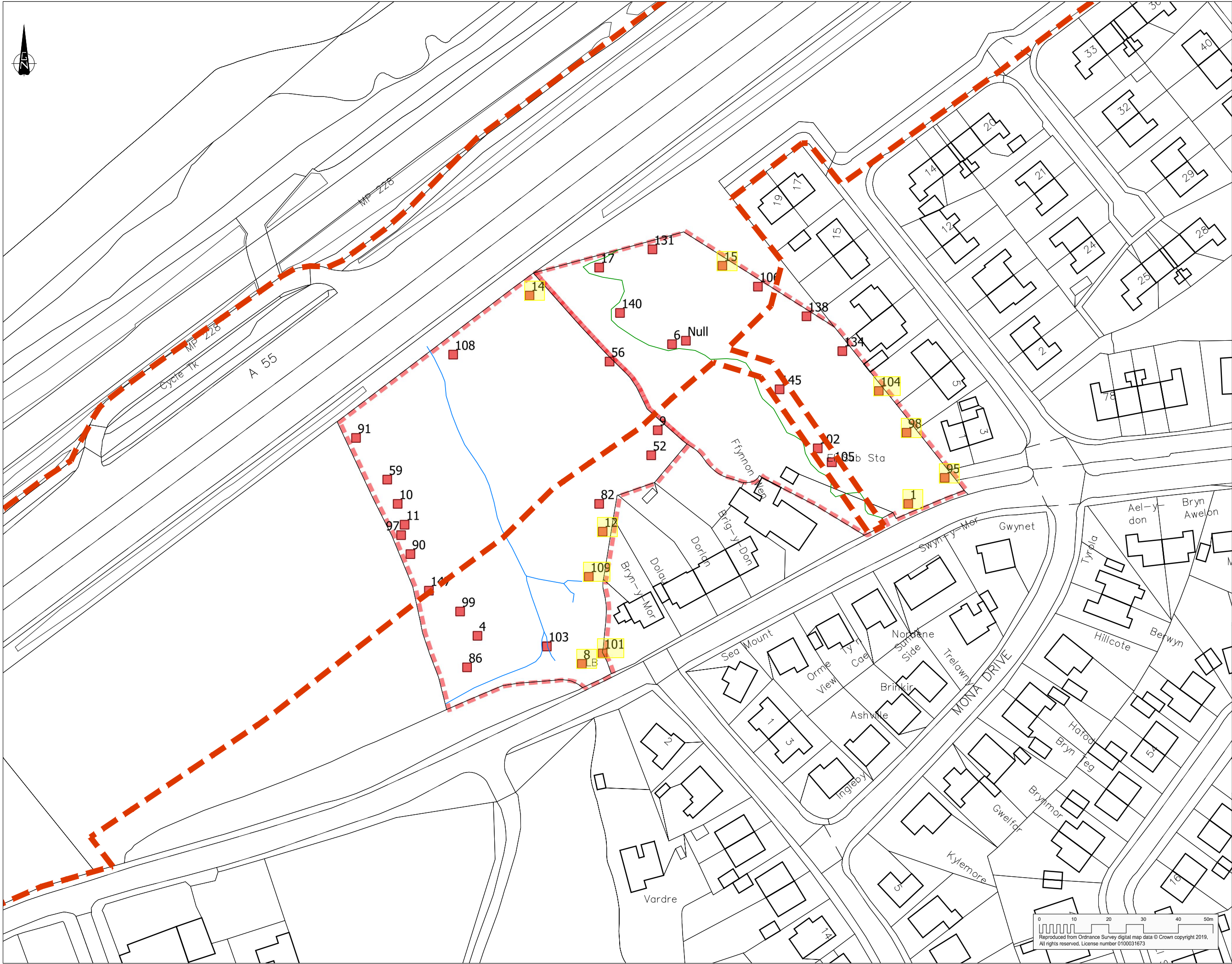
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JUNCTION 16
FIGURE 8.9
BAT TRANSECT ROUTE 2019
SHEET 02 of 02

Project No: 1620000620	Scale (0A1): 1:2,500	Drawn: RLJ	Date: FEB 20
Drawing No: A55J15J16-RML-30-16-DR-X-0809	Rev: 02		



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- Notes
- Proposed scheme extents
 - Reptile survey areas
 - Reptile survey artificial refugia - Highlighted yellow where present

Notes:
Artificial refugia placed at approximate 20m intervals to field margins and where suitable habitat was identified by the Ecologist. Numbers and text associated/shown with artificial refugia are for identification purposes onsite only.

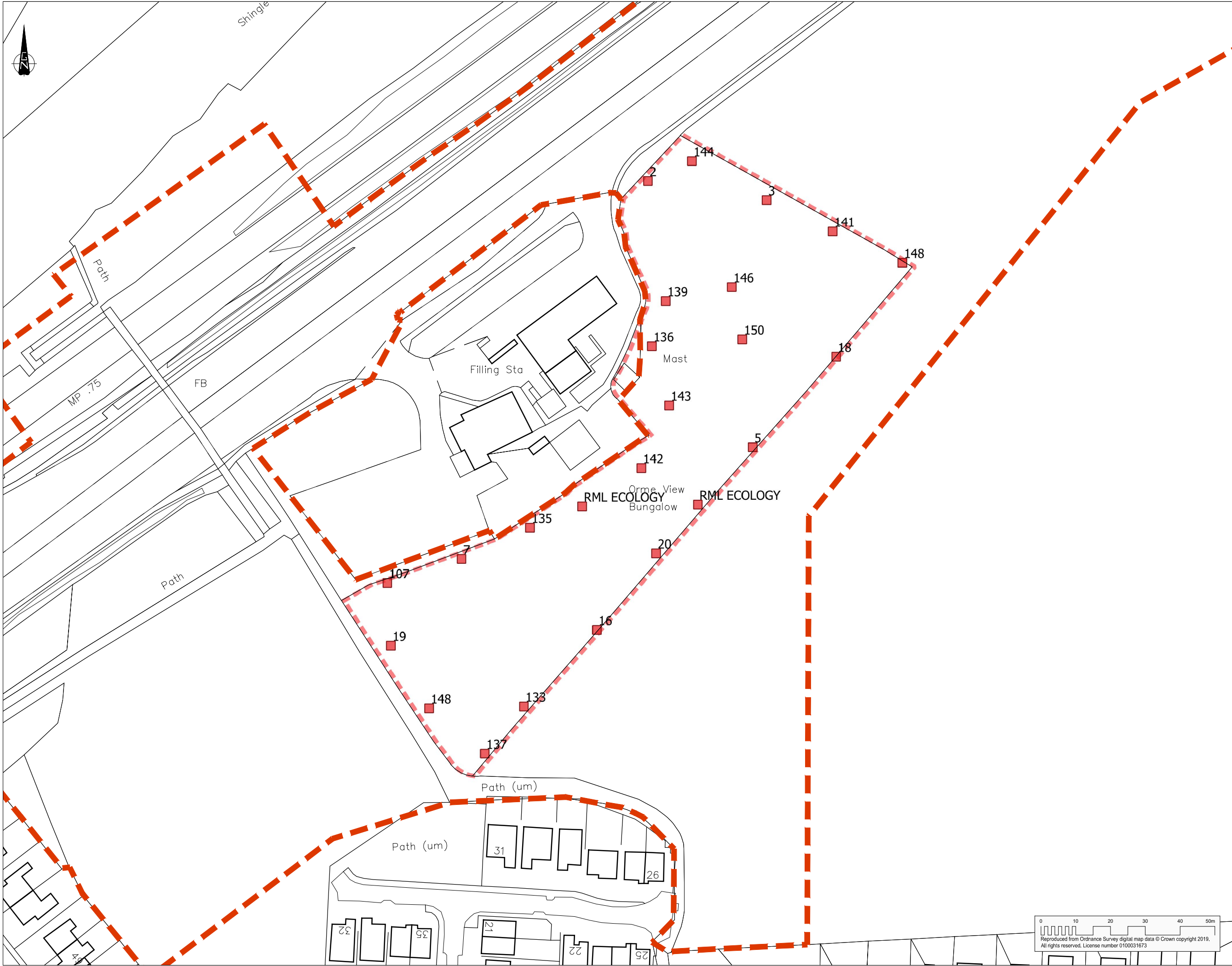
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JUNCTION 16 FIGURE 8.10 REPTILE SURVEY SHEET 01 of 02

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- Notes
- Proposed scheme extents
 - Reptile survey areas
 - Reptile survey artificial refugia - Highlighted yellow where present

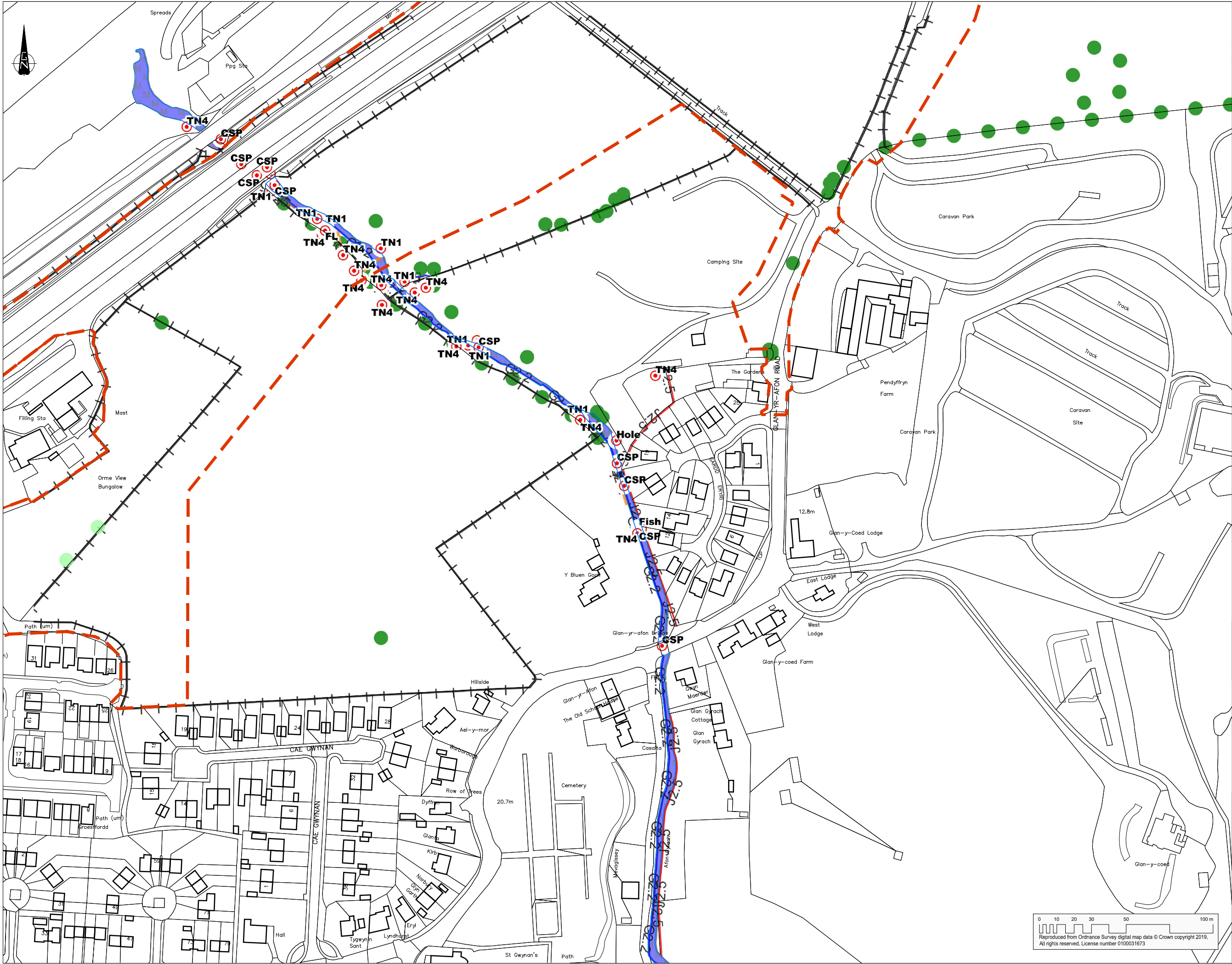
Notes:
Artificial refugia placed at approximate 20m intervals to field margins and where suitable habitat was identified by the Ecologist. Numbers and text associated/shown with artificial refugia are for identification purposes onsite only.

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JUNCTION 16 FIGURE 8.11 REPTILE SURVEY SHEET 02 of 02

Project No:	Scale (0A1):	Drawn:	Date:
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- Notes
- Proposed scheme extents
- Otter Survey Elements
- Target note
 - CSP: Confirmed Otter Spraint - inspected
 - PSP: Possible Otter Spraint - unable to inspect due to access
 - LUP: Lying Up spot identified
 - PLUP: Possible lying up spot
 - FL: Fox latrine
 - Afon Gyrach river corridor
 - 32.4 - Fence
 - 32.5 - Wall
 - Animal track or crossing point

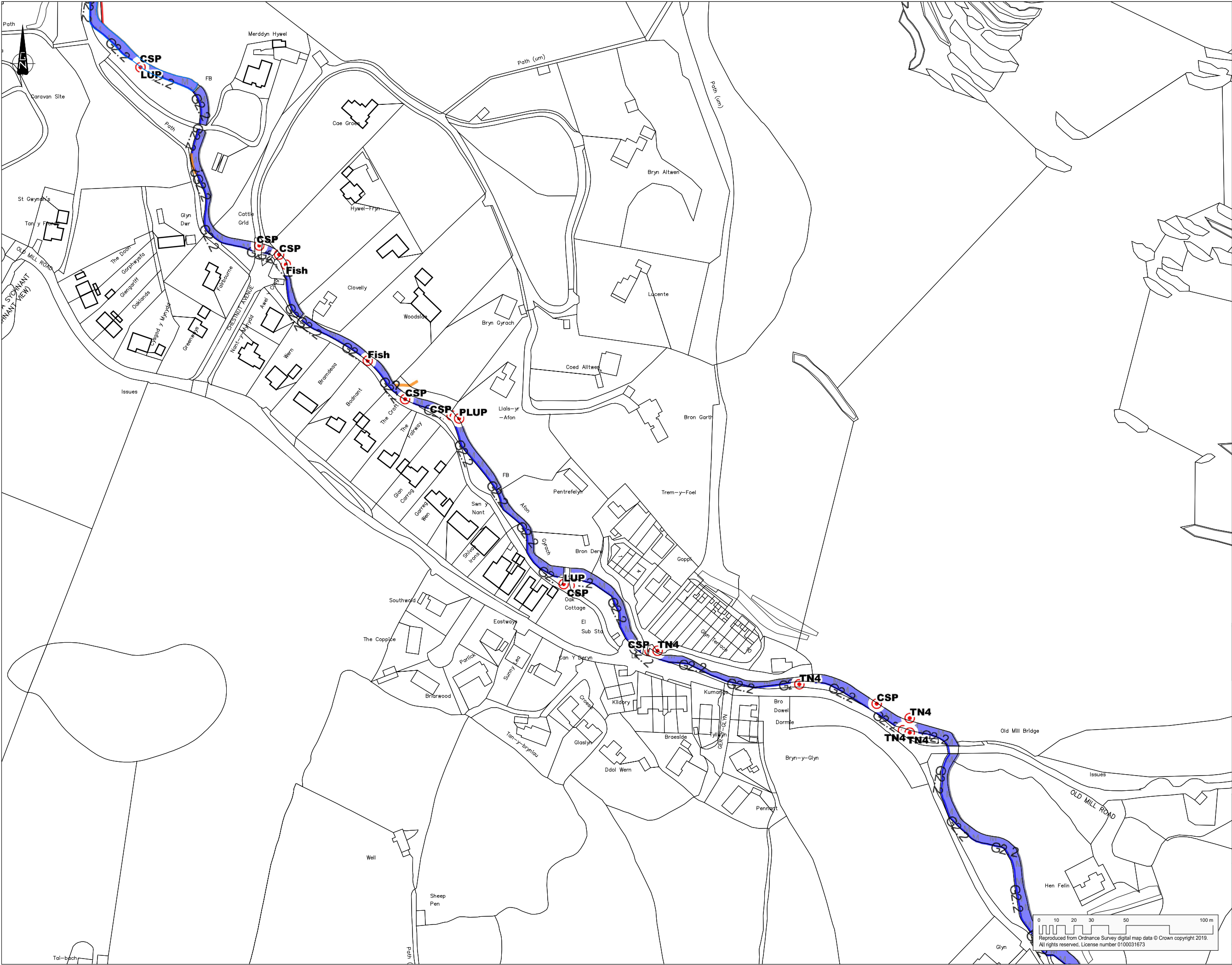
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JUNCTION 16 FIGURE 8.12 OTTER SURVEY SHEET 01 of 03

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- Notes
- Otter Survey Elements**
- Target note
 - CSP: Confirmed Otter Sprint - inspected
 - PSP: Possible Otter Sprint - unable to inspect due to access
 - LUP: Lying Up spot identified
 - PLUP: Possible lying up spot
 - FL: Fox latrine
 - Afon Gyrach river corridor
 - 12.4 - Fence
 - 12.5 - Wall
 - Animal track or crossing point

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JUNCTION 16 FIGURE 8.13 OTTER SURVEY SHEET 02 of 03

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:2,000	RLJ	FEB 20
Drawing No:			Rev:
A55J15J16-RML-30-16-DR-X-0813			01



Notes

Otter Survey Elements

-  Afon Gyrach river corridor
 J2.4 - Fence
 J2.5 - Wall
 ? Animal track or crossing point

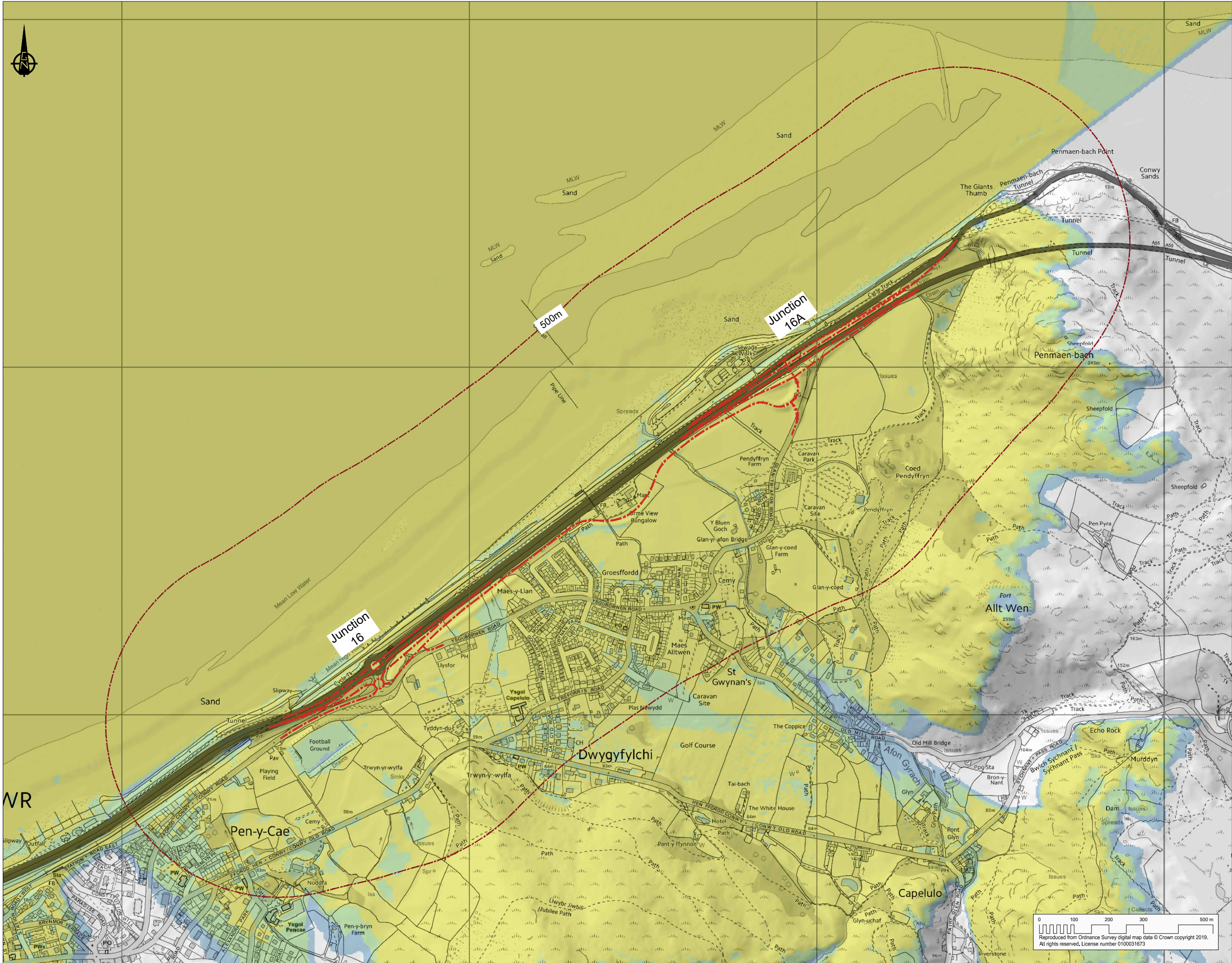
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Drawing No: A55J15J16-RML-30-16-DR-X-0814			Rev: 01

ES Chapter 9 Figures	
9.1	Study Area
9.2	Visual Effects Overview
9.3	Landform and Terrain
9.4	Landscape Designations
9.5	Landscape Baseline
9.6	Landscape Evaluation Visual and Sensory Aspect
9.7	Landscape Character Areas Context Overview
9.8	Landscape Character Areas
9.9	Representative Viewpoints
9.10	Visual Effects Drawing (West)
9.11	Visual Effects Drawing (East)
9.12 A-D	Illustrative Cross Section Sheet 1 - 4



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Notes

Legend

- Scheme Assessment Area (500m)
- Proposed Scheme Alignment

Zone of Theoretical Visibility

- View of road surface
- View of high sided vehicles
- View of lighting columns

Notes

ZTV based on Natural Resources Wales LiDAR digital terrain model, which does not include surface features such as buildings and substantial vegetation.

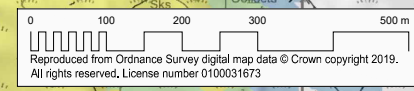
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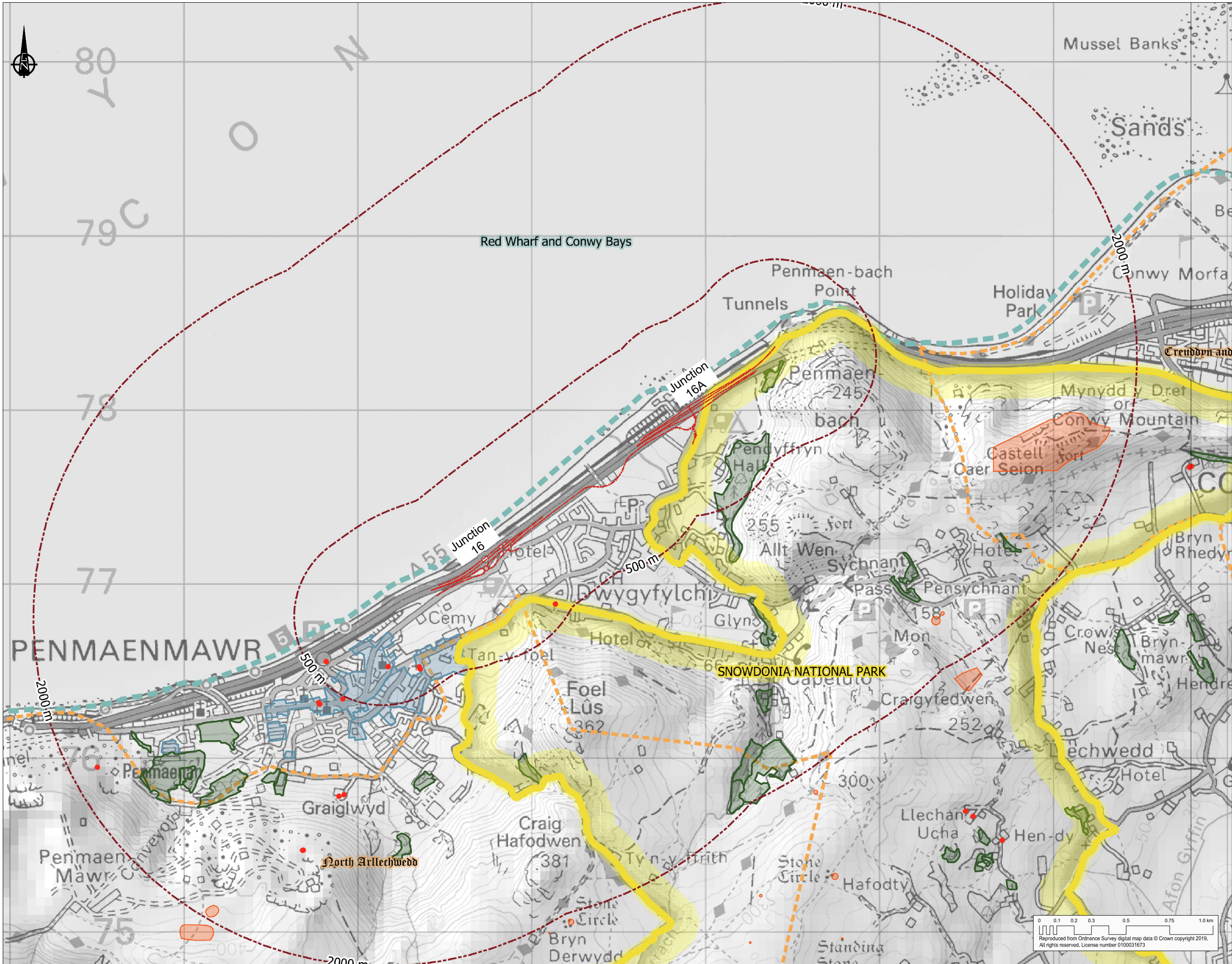


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JUNCTION 16
FIGURE 9.2
VISUAL EFFECTS OVERVIEW
SHEET 1 OF 1

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:10,000	RhE	DEC 20
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Notes

Legend

- Scheme Study Area (2000m)
- Scheme Assessment Area (500m)
- Proposed Scheme Alignment

Landscape Designations

- Snowdonia National Park *¹
- Registered Historic Park and Garden *²
- Registered Historic Landscape in Wales *²
- Conservation Area *³
- Ancient Woodland *¹
- Marine Character Area 3 Red Wharf and Conwy Bays*⁴
- Scheduled Ancient Monument *²
- Listed Building *²

Source data used with permission of:

- *¹ Natural Resources Wales
- *² Cadw
- *³ Welsh Government
- *⁴ Natural Resources Wales and Land Use Consultants

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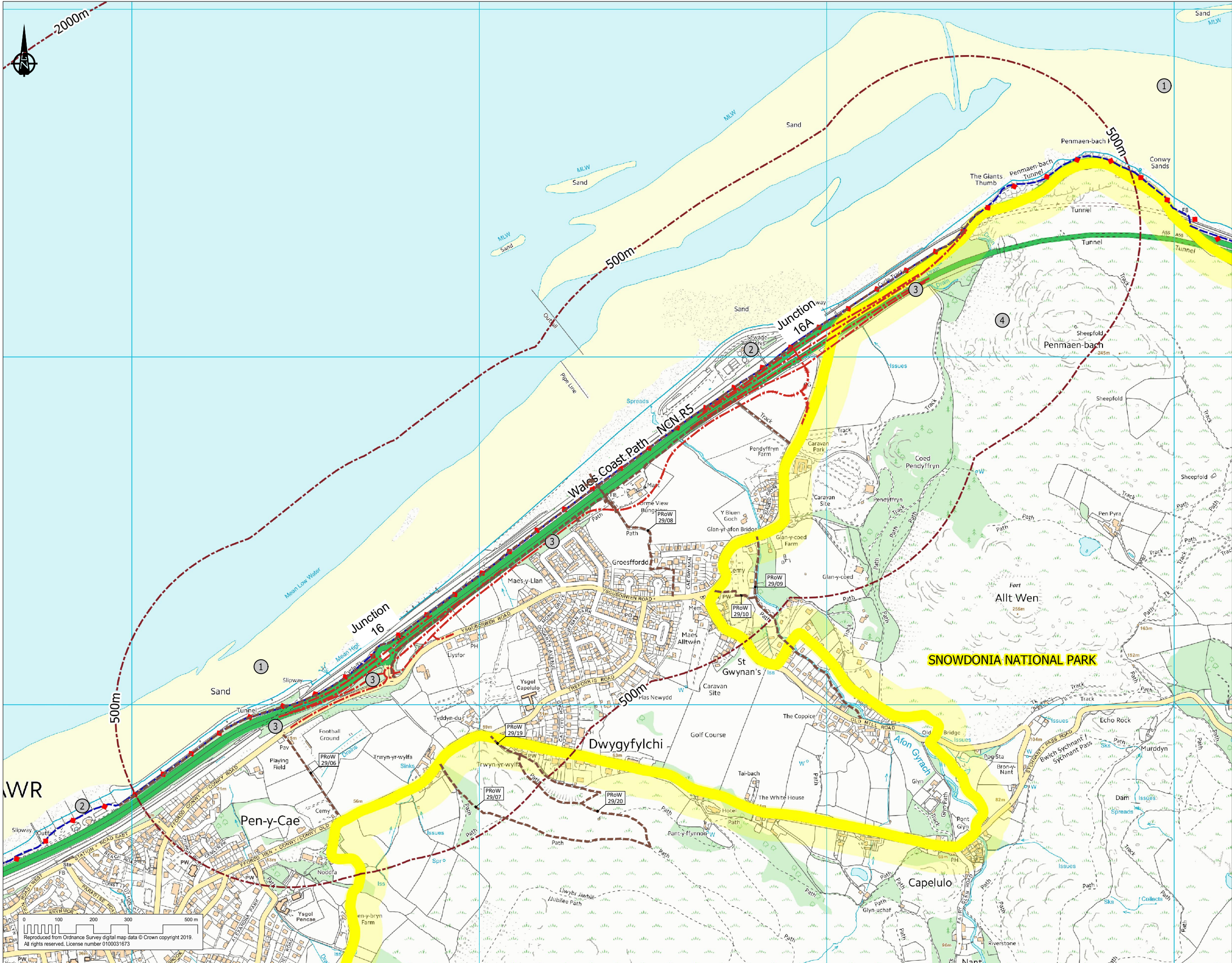
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**JUNCTION 16
FIGURE 9.4
LANDSCAPE DESIGNATIONS
SHEET 1 OF 1**

Project No: 1620000620 Scale (0A1): 1:20000 Drawn: RhE Date: DEC 20
Drawing No: A55J15J16-RML-30-16-DR-X-0904 Rev: 03



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Notes

Legend

- Scheme Assessment Area (500m)
- Proposed Scheme Alignment
- National Cycle Network Route 5
- Wales Coast Path
- Public Right of Way
- Existing vegetation

1 Intertidal area
2 Coastal plain
3 A55 Roadside Plantation
4 Hillside Slopes

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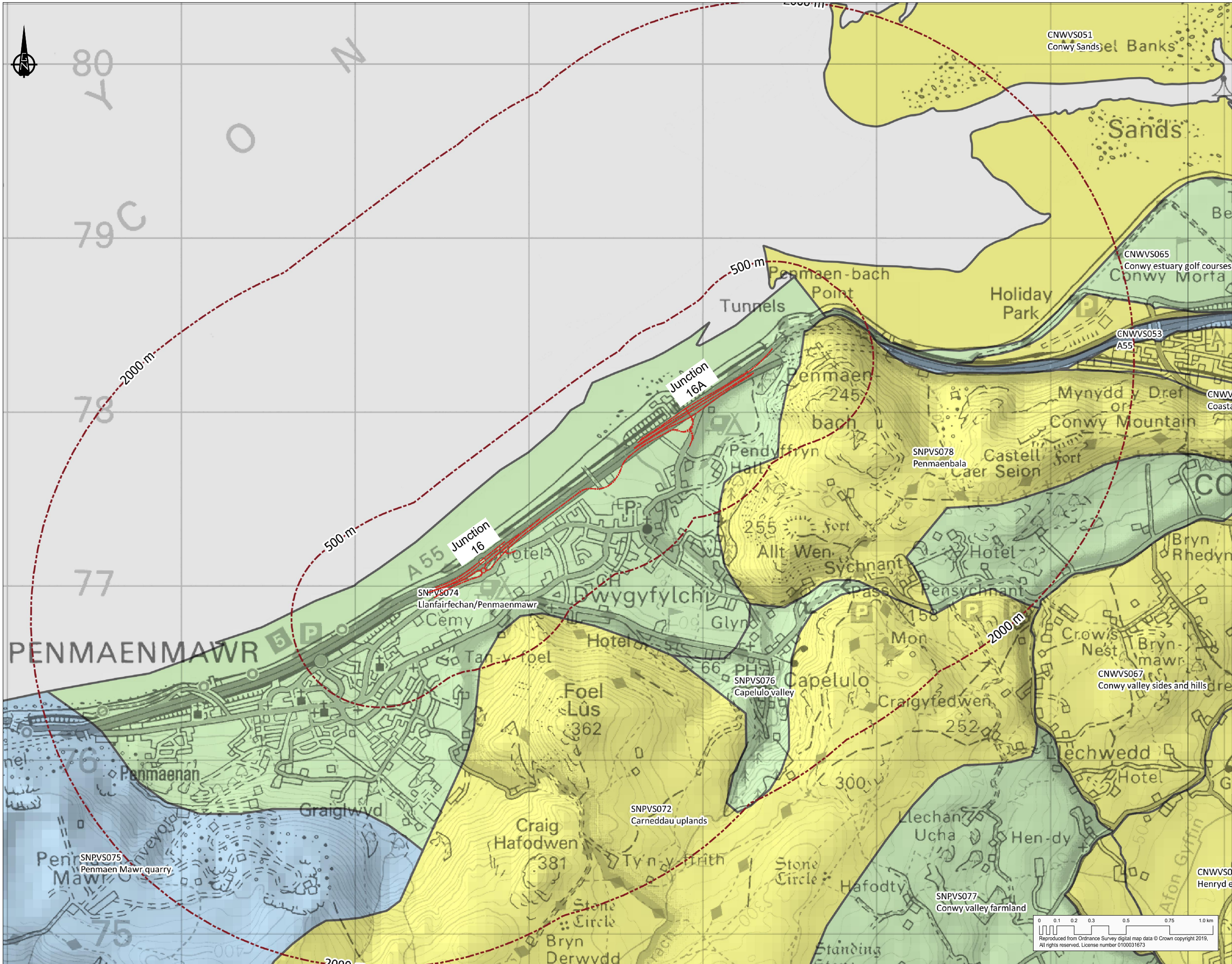
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JUNCTION 16
FIGURE 9.5
LANDSCAPE BASELINE
SHEET 1 OF 1

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:10,000	RhE	DEC 20
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Notes

Legend

- Scheme Study Area (2000m)
- Scheme Assessment Area (500m)
- Proposed Scheme Alignment

LANDMAP Aspect Areas Overall Evaluation

- Outstanding
- High
- Moderate
- Low

Source data used with permission of:
Natural Resources Wales

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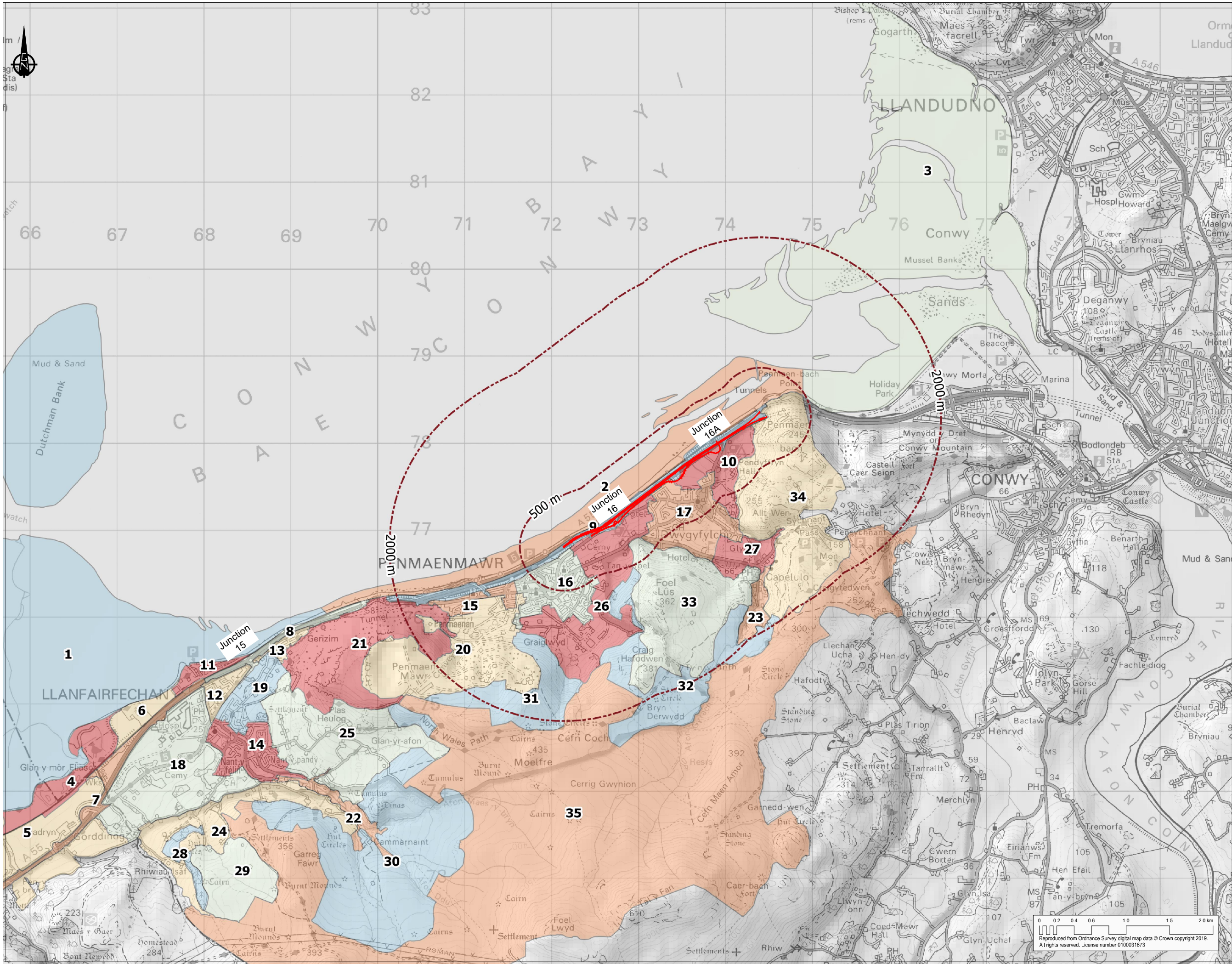
 
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**JUNCTION 16
FIGURE 9.6
LANDMAP EVALUATION
VISUAL AND SENSORY ASPECT**

Project No:	Scale (0A1):	Drawn:	Date:
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Notes

Legend

- Scheme Study Area (2000m)
- Scheme Assessment Area (500m)
- Proposed Scheme Alignment

Landscape Character Areas

REF	NAME
1	Traeth Lafan and Dutchman Bank
2	Penmaenmawr beach
3	Conwy Estuary
4	Aber and Felin-fach Salt Marsh
5	Aber Farmland
6	Tyddyn-y-coed Mosaic
7	Abergwyngregyn to Llanfairfechan
8	Llanfairfechan to Pen-y-clip
9	Pen-y-clip to Penmaenbach
10	Pendyffryn Pasture and Parkland
11	Llanfairfechan Promenade
12	Llanfairfechan Centre
13	Llanfairfechan Drycin
14	Llanfairfechan Uchaf
15	Penmaenmawr Penmaenan
16	Penmaenmawr Pant-yr-afon
17	Dwygyfylchi
18	Llanfairfechan Parkland
19	Penmaen Park
20	Penmaenmawr Quarries (active)
21	Penmaenmawr Quarries (disused)
22	Y Teiryd Valley
23	Fairy Glen Valley
24	Nant-y-felin Pasture
25	Nant-y-pandy Pasture
26	Pant-yr-afon Pasture
27	Capelulo Pasture
28	Coed y Rhiwiau
29	Cae'r Haidd Mountain Pasture
30	Y Teiryd Mountain Pasture
31	Graig Lwyd Mountain Pasture
32	Maen Crwn Mountain Pasture
33	Foel Wen Moorland
34	Allt Wen Moorland
35	Upland moorland

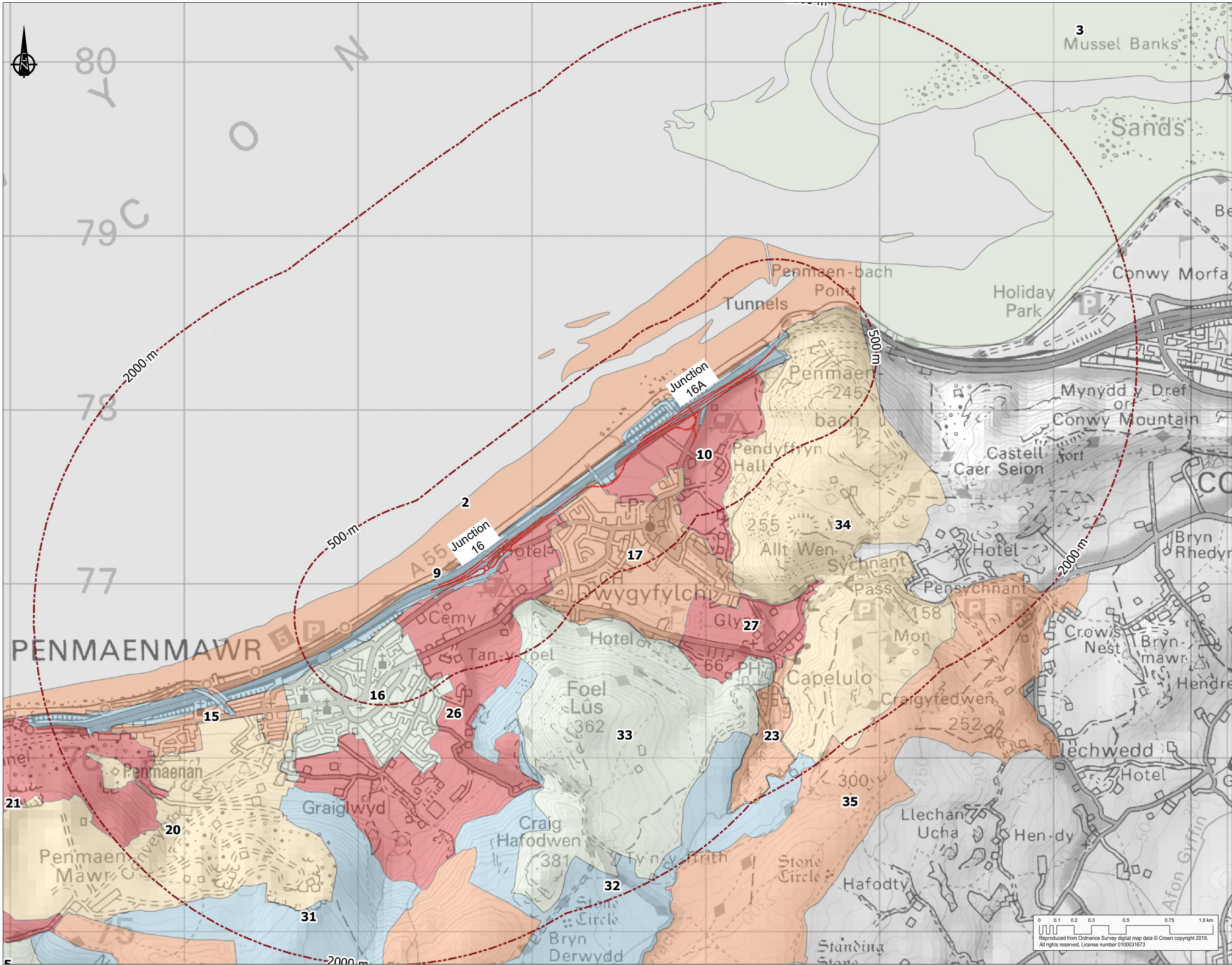
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JUNCTION 16
FIGURE 9.7
LANDSCAPE CHARACTER AREAS
CONTEXT OVERVIEW

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:40000	RhE	DEC 20
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Notes

Legend

- Scheme Study Area (2000m)
- Scheme Assessment Area (500m)
- Proposed Scheme Alignment

Landscape Character Areas

REF	NAME
2	Penmaenmawr beach
3	Conwy Estuary
6	Tyddyn-y-coed Mosaic
9	Pen-y-clip to Penmaenbach
10	Pendyffryn Pasture and Parkland
15	Penmaenmawr Penmaenan
16	Penmaenmawr Pant-yr-afon
17	Dwygyfylchi
20	Penmaenmawr Quarries (active)
23	Fairy Glen Valley
26	Pant-yr-afon Pasture
27	Capelulo Pasture
31	Graig Lwyd Mountain Pasture
32	Maen Crwn Mountain Pasture
33	Foel Wen Moorland
34	Allt Wen Moorland
35	Upland moorland

A55 JUNCTION 15 & 16 IMPROVEMENTS

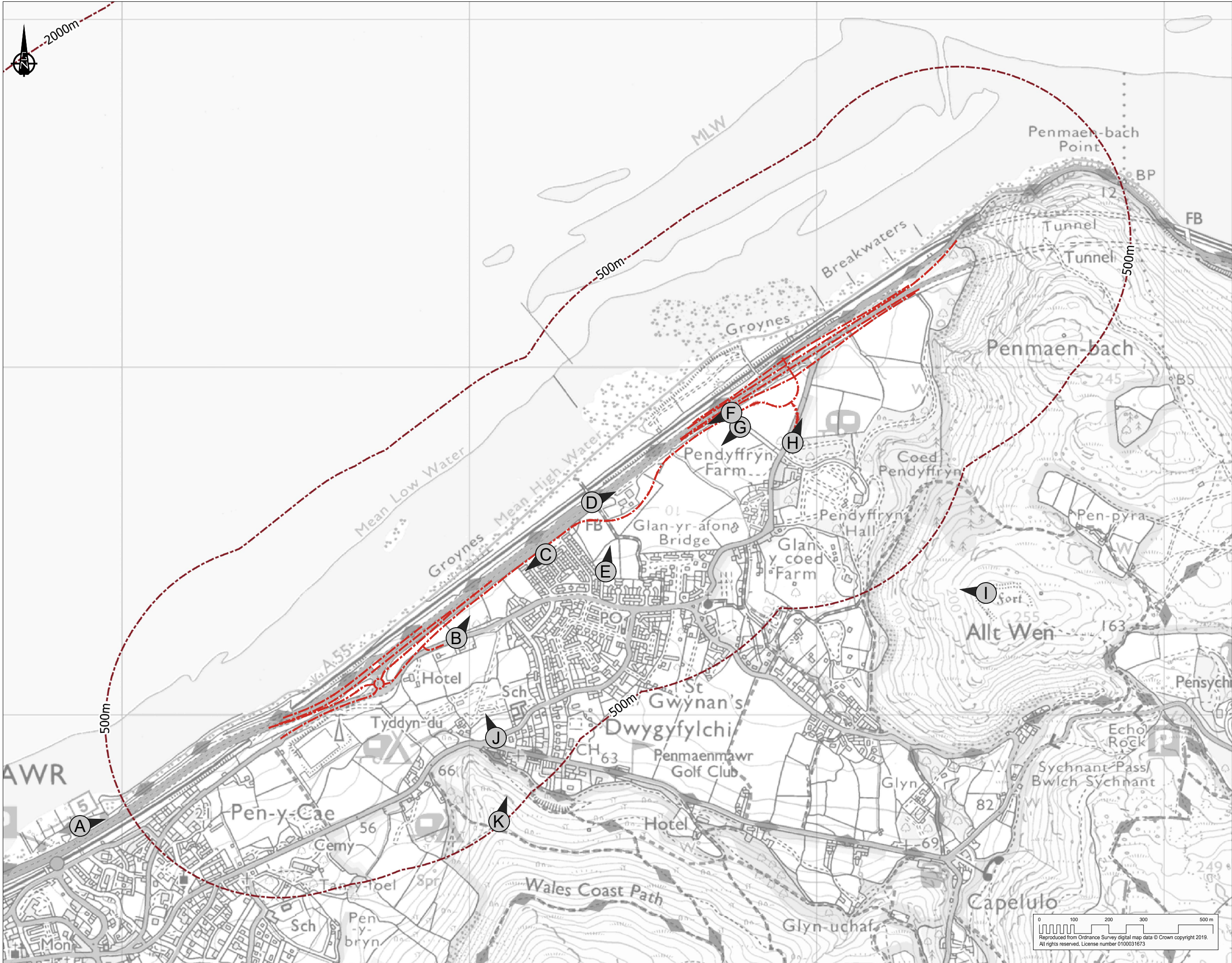


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JUNCTION 16
FIGURE 9.8
LANDSCAPE CHARACTER AREAS
SHEET 1 OF 1

Project No:	Scale (to A1):	Drawn:	Date:
1620000620	1:20000	RhE	DEC 20
Drawing No:		Rev:	
A55J15J16-RML-30-16-DR-X-0908			03



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Notes

Legend

- Scheme Study Area (2000m)
- .- Scheme Assessment Area (500m)
- Proposed Scheme Alignment
- (X) Representative Viewpoint

Representative Viewpoints

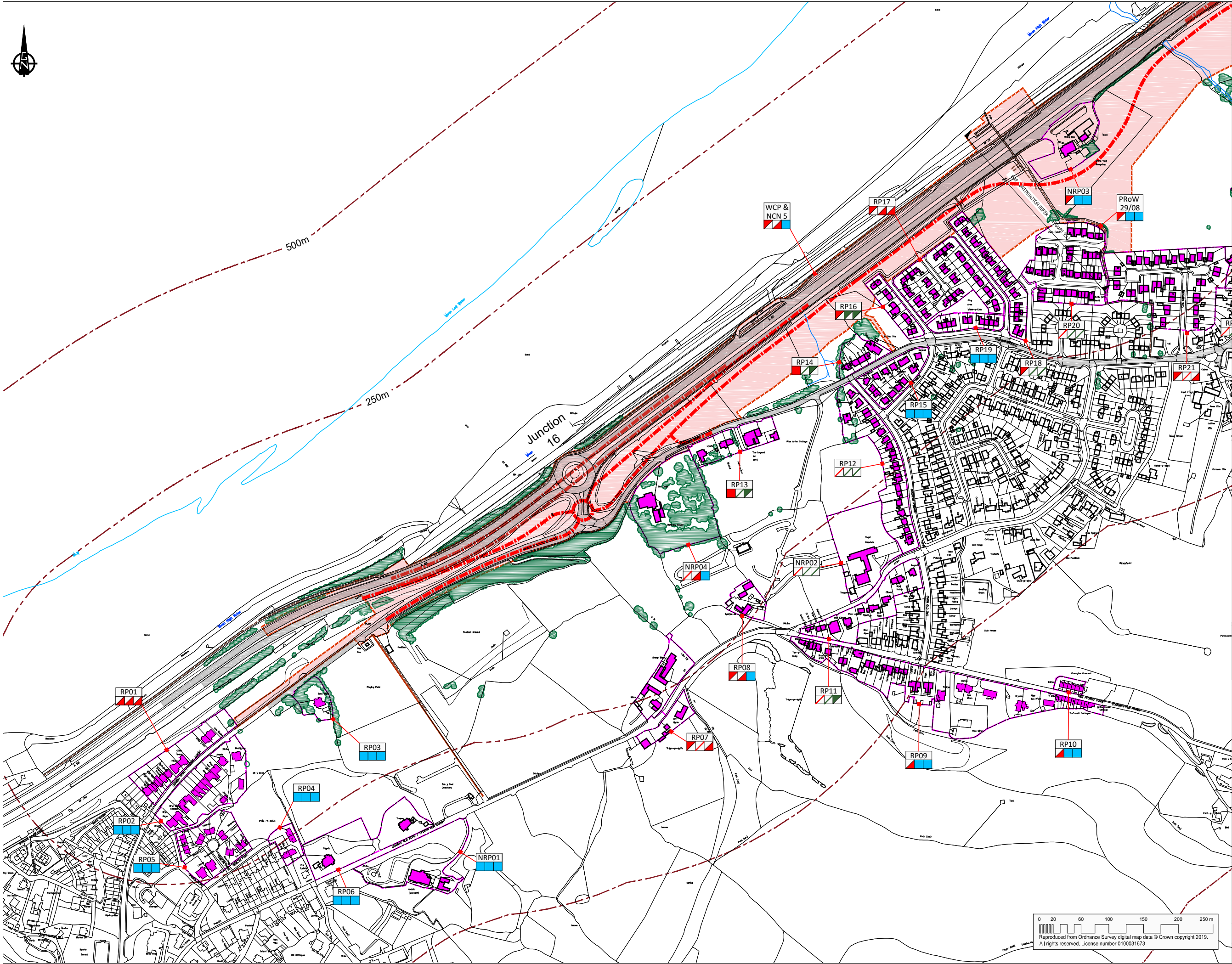
- A Penmaenmawr Promenade
- B Ysguborwen Rd
- C Maes-y-Llan
- D Puffin Footbridge
- E Gwel y Mor
- F A55 Road Corridor West of J16A
- G Pandyffryn Farmland
- H Glan-yr-Afon Field
- I Allt Wen Hill Fort
- J Treforris Rd
- K Trwyn-yr-Wylfa

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JUNCTION 16
FIGURE 9.9
REPRESENTATIVE VIEWPOINTS
SHEET 1 OF 1

Project No:	Scale (041):	Drawn:	Date:
1620000620	1:10,000	RhE	DEC 20
Drawing No:		Rev:	
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- Notes
- Legend**
- Scheme Assessment Area (500m)
 - Proposed Scheme Alignment
 - Proposed scheme extents
 - Existing A55
 - Visual barriers
 - Substantial vegetation
 - Visual receptors
 - Right of way (Footpath / Cycle-way)
 - Receptor group (refer to Visual Effect Schedule)
 - Significance of visual effect
 - Visual Effect Schedule reference
 - Significance (Summer Year 15)
 - Significance (Winter Year 0)
 - Significance (during Construction)
 - Visual effect significance
 - VLA Very large adverse
 - LA Large adverse
 - MA Moderate adverse
 - SA Slight adverse
 - N Neutral
 - SB Slight beneficial
 - MB Moderate beneficial
 - LB Large beneficial
 - VLB Very large beneficial

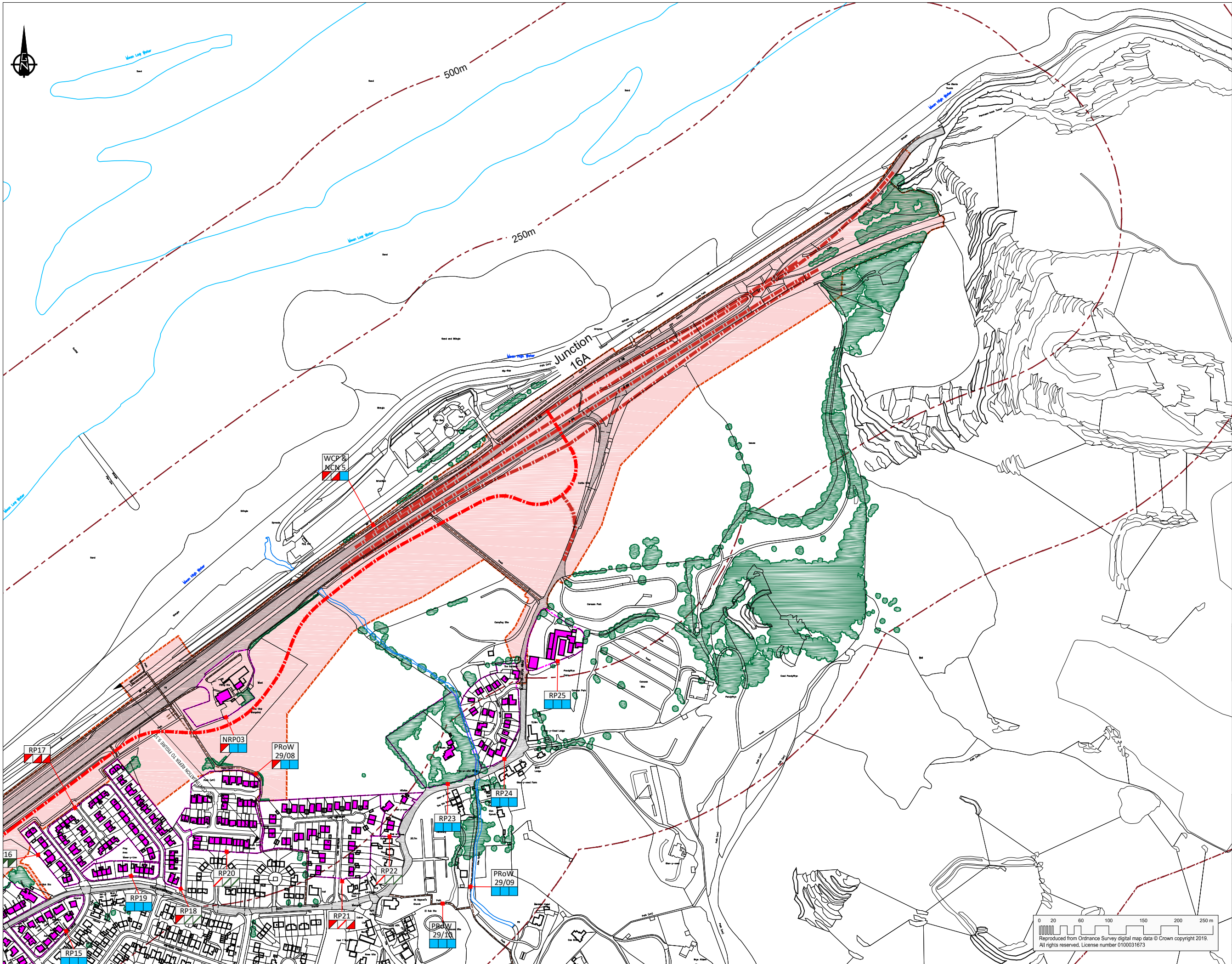
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JUNCTION 16 FIGURE 9.10 VISUAL EFFECTS DRAWING SHEET 1 OF 2

Project No: 1620000620 Scale (041): 1:5,000 Drawn: RHe Date: DEC 20
Drawing No: A55J15J16-RML-30-16-DR-X-0910 Rev: 03



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- Notes
- Legend**
- Scheme Assessment Area (500m)
 - Proposed Scheme Alignment
 - Proposed scheme extents
 - Existing A55
- Visual barriers
- Substantial vegetation
- Visual receptors
- Right of way (Footpath / Cycle-way)
 - Receptor group (refer to Visual Effect Schedule)
- Significance of visual effect
- Visual Effect Schedule reference
 - Significance (Summer Year 15)
 - Significance (Winter Year 0)
 - Significance (during Construction)
- Significance of visual effect
- VLA Very large adverse
 - LA Large adverse
 - MA Moderate adverse
 - MA Slight adverse
 - N Neutral
 - SA Slight beneficial
 - MB Moderate beneficial
 - LB Large beneficial
 - VLB Very large beneficial

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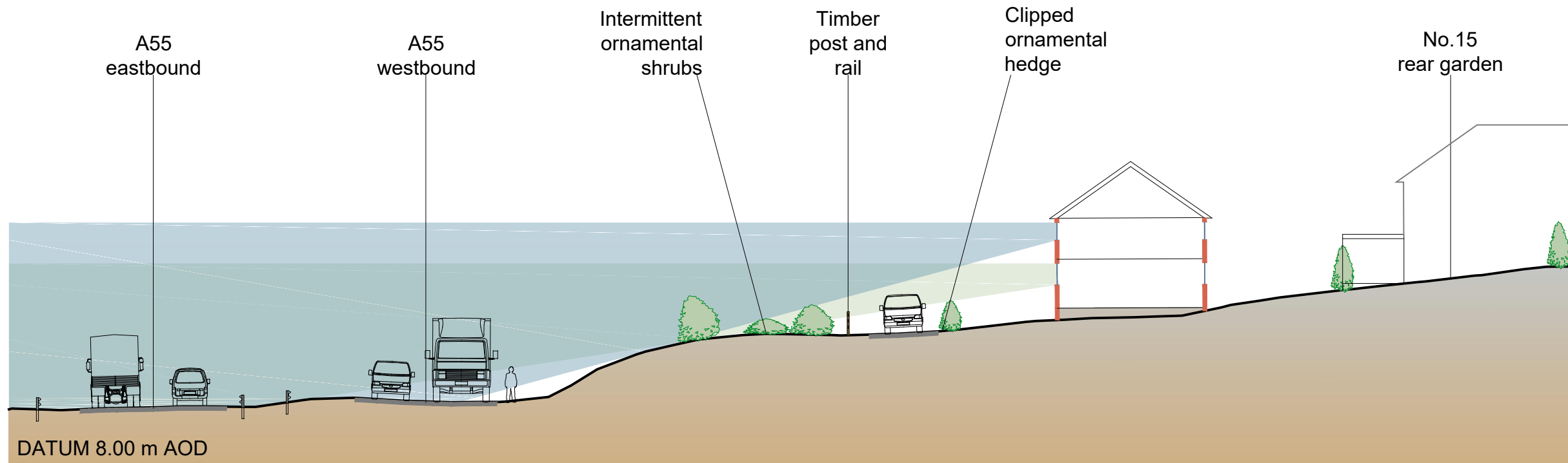
JUNCTION 16 FIGURE 9.11 VISUAL EFFECTS DRAWING SHEET 2 OF 2

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Drawing No:	A55J15J16-RML-30-16-DR-X-0911	Revised:		Rev:			03

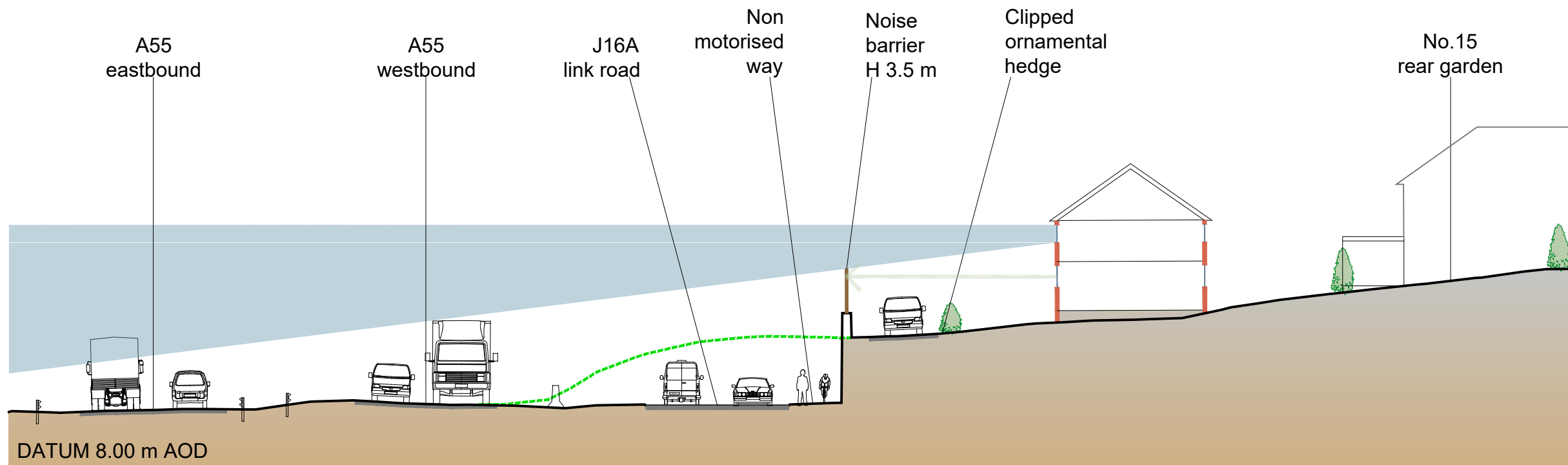
Notes

Legend

- Coastal view from 1st floor
- Coastal view from ground floor
- Coastal view combined
- Limited ground floor view



19 MAES-Y-LLAN EXISTING SITUATION



19 MAES-Y-LLAN PROPOSED

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A55 JUNCTION 15 & 16
IMPROVEMENTS



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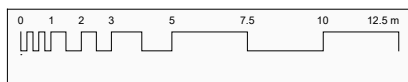
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JUNCTION 16
FIGURE 9.12 A
ILLUSTRATIVE CROSS SECTION
SHEET 1 OF 4

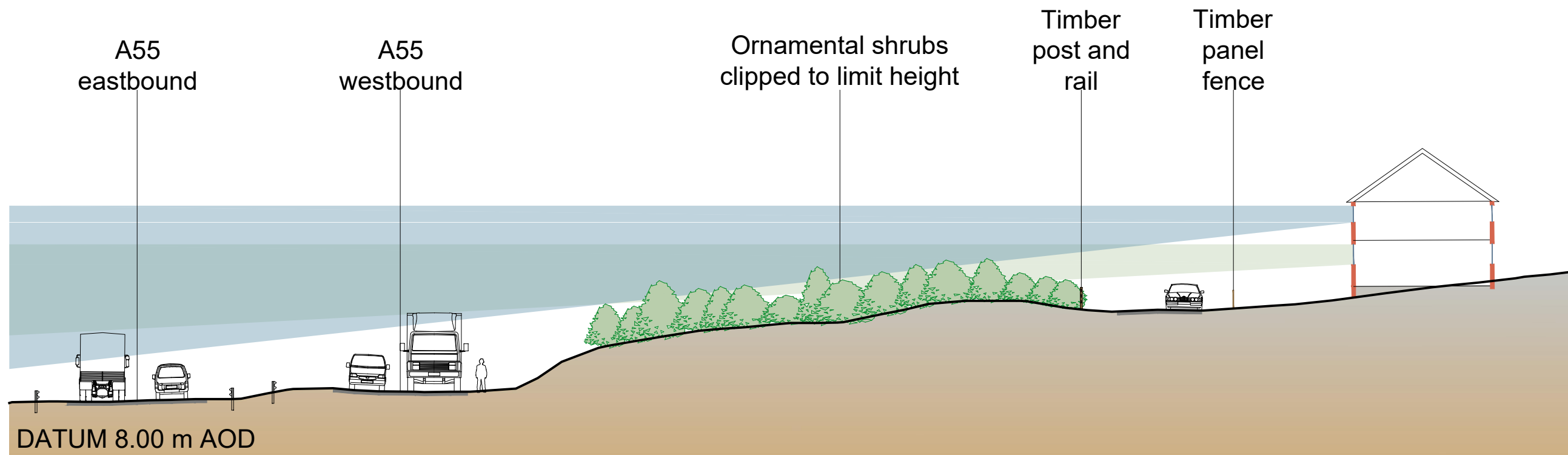
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1620000620	1:250	RhE	JAN 21
Drawing No:		Rev:	
A55J15J16-RML-30-16-DR-X-0912			01



Notes

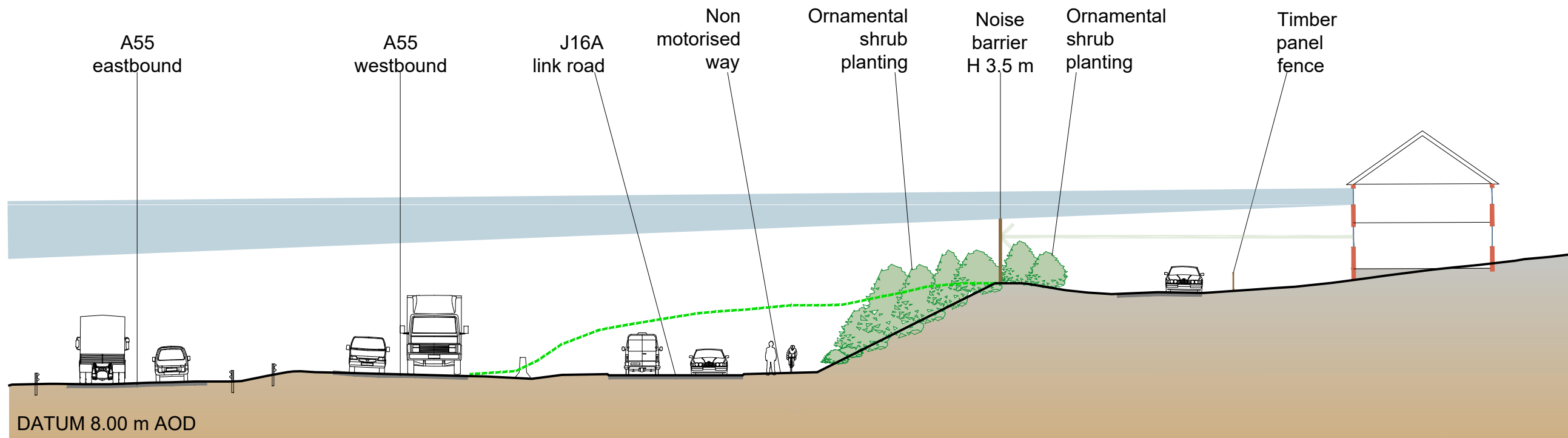
Legend

- Coastal view from 1st floor
- Coastal view from ground floor
- Coastal view combined
- Limited ground floor view



DATUM 8.00 m AOD

18 MAES-Y-LLAN EXISTING SITUATION



DATUM 8.00 m AOD

18 MAES-Y-LLAN PROPOSED

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A55 JUNCTION 15 & 16
IMPROVEMENTS



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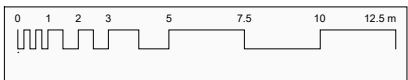
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JUNCTION 16
FIGURE 9.12 B
ILLUSTRATIVE CROSS SECTION
SHEET 2 OF 4

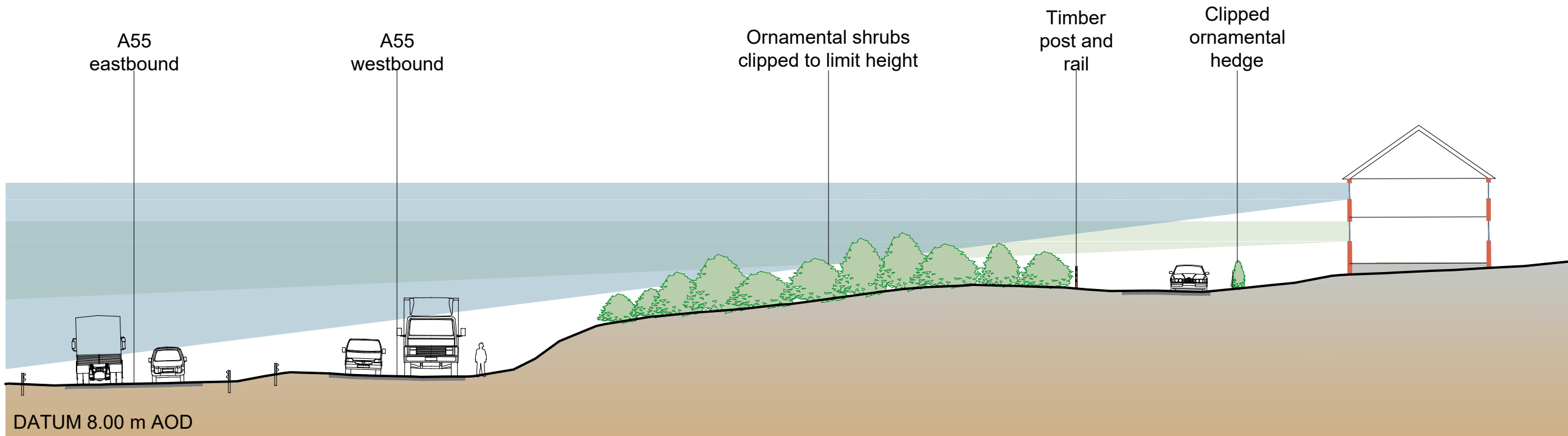
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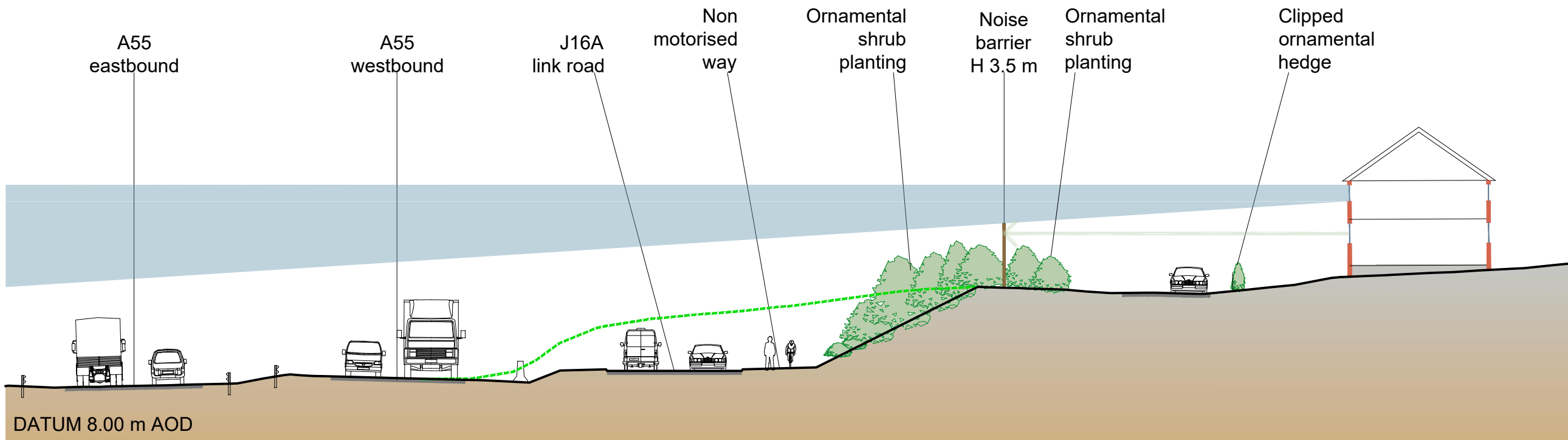
Notes

Legend

- Coastal view from 1st floor
- Coastal view from ground floor
- Coastal view combined
- Limited ground floor view



36 MAES-Y-LLAN EXISTING SITUATION



36 MAES-Y-LLAN PROPOSED

DRAFT

A55 JUNCTION 15 & 16
IMPROVEMENTS

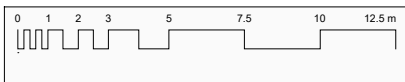


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JUNCTION 16
FIGURE 9.12 C
ILLUSTRATIVE CROSS SECTION
SHEET 3 OF 4

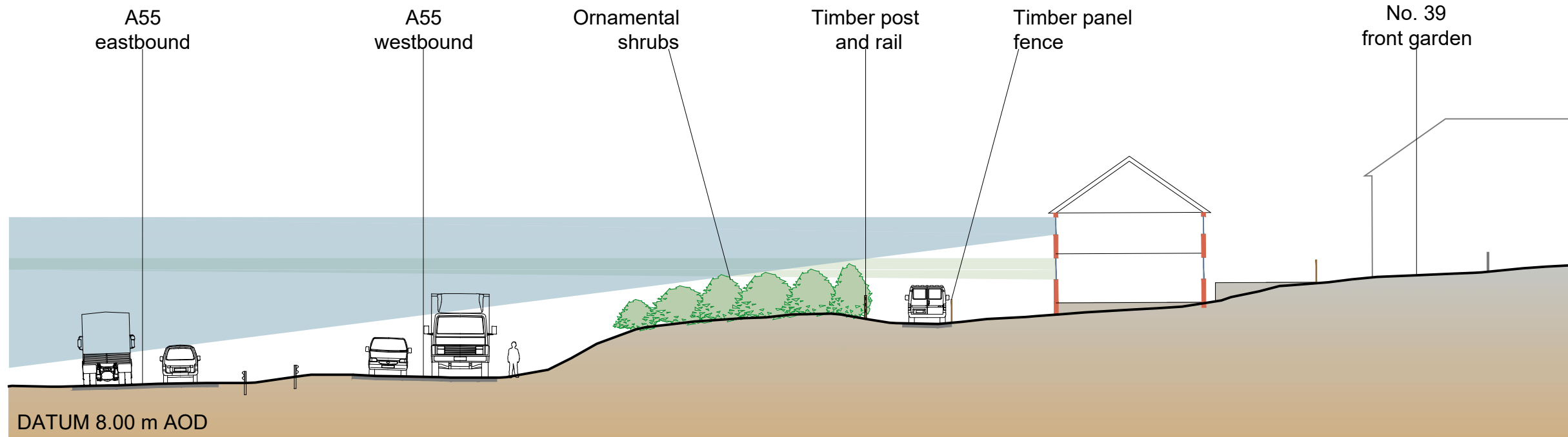
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Drawing No: A55J15J16-RML-30-16-DR-X-0912		Rev:	01



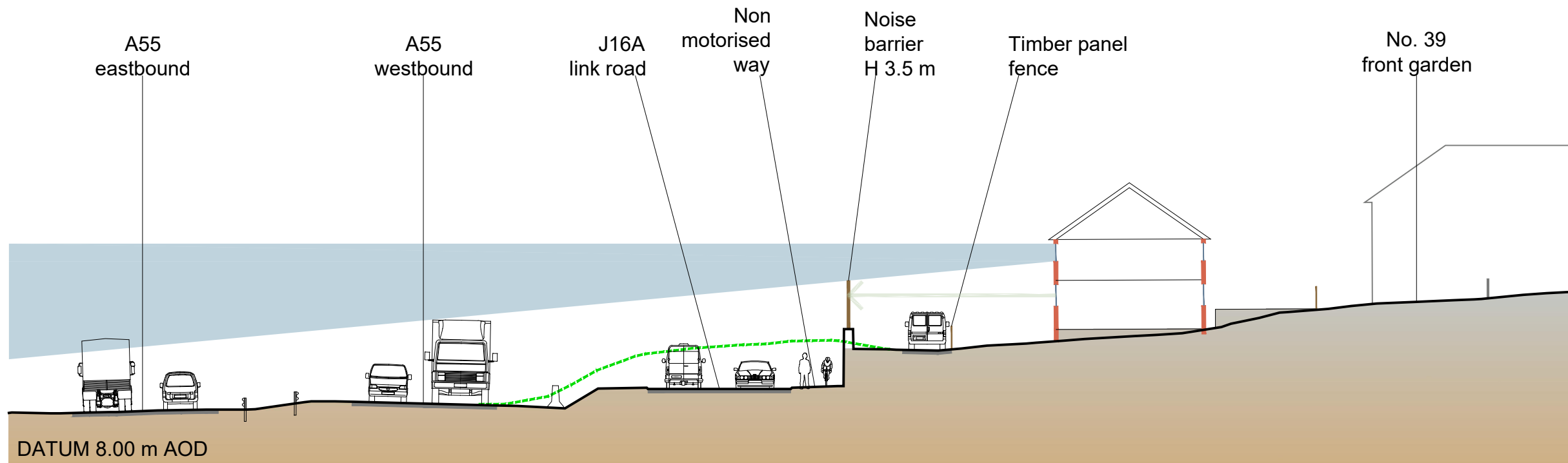
Notes

Legend

- Coastal view from 1st floor
- Coastal view from ground floor
- Coastal view combined
- Limited ground floor view



37 MAES-Y-LLAN EXISTING SITUATION



37 MAES-Y-LLAN PROPOSED

DRAFT

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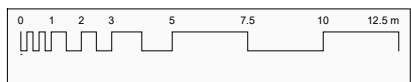
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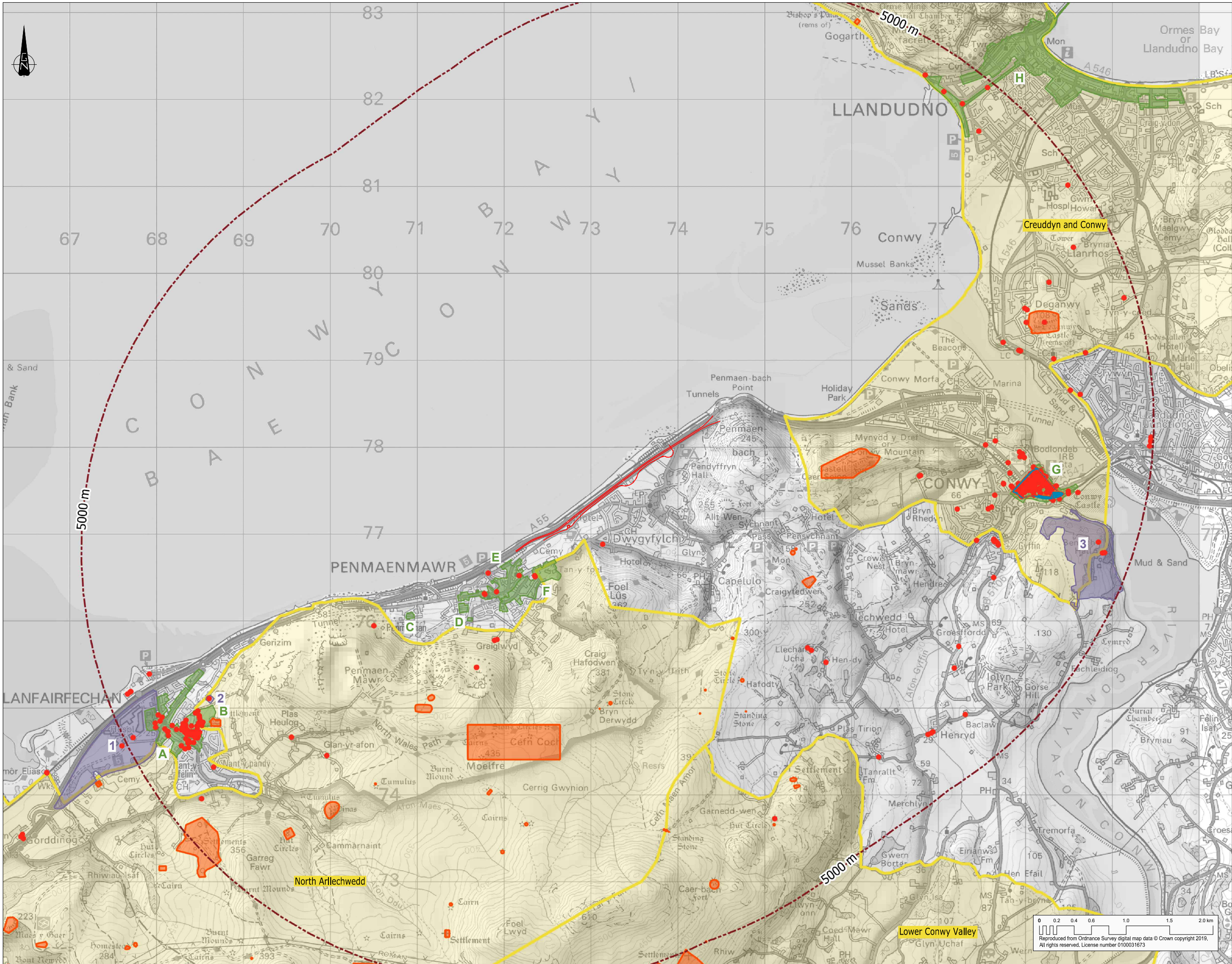
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JUNCTION 16
FIGURE 9.12 D
ILLUSTRATIVE CROSS SECTION
SHEET 4 OF 4

Project No:	Scale (1:43):	Drawn:	Date:
1620000620	1:250	RhE	JAN 21
Drawing No:		Rev:	
A55J15J16-RML-30-16-DR-X-0912			01



ES Chapter 10 Figures	
10.1	Designated Sites of Historic Interest
10.2	Assets Overview
10.3	Assets (Pen-y-cae and Pen-y-coed)
10.4	Assets (Dwygyfylchi and Capelulo)
10.5	Assets (Sychnant and Penmaen-bach)
10.6	Assets (Dwygyfylchi and Capelulo)
10.7	Assets (Coastal strip)



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Notes

Legend

- Carriageway Alignment
- Fixed Distance Buffer
- World Heritage Site
- Listed Building
- Scheduled Ancient Monument
- Conservation Area
- Registered Historic Park and Garden
- Registered Historic Landscape in Wales

A. Llanfairfechan Town Centre
B. The Close
C. Penmaenan
D. St David's Road
E. Penmaenmawr Town Centre
F. Pen-y-Cae
G. Conwy
H. Llandudno

1. Bryn-y-Neuadd
2. Wern Isaf (Rosebriars)
3. Benarth Hall

A55 JUNCTION 15 & 16 IMPROVEMENTS

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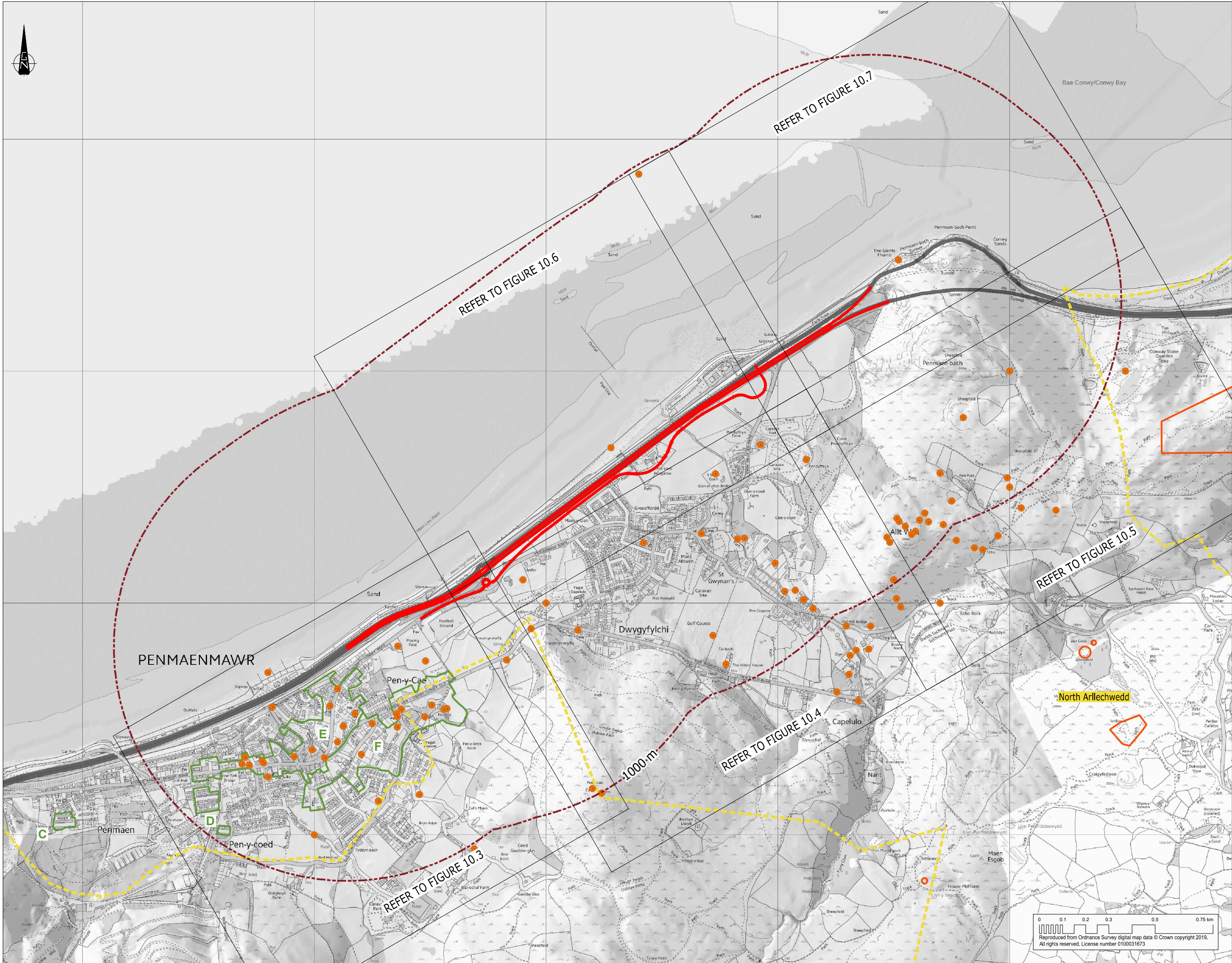
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JUNCTION 16
FIGURE 10.1
DESIGNATED SITES
OF HISTORIC INTEREST

Project No: 1620000620 Scale (041): 1:40,000 Drawn: RHe Date: DEC 20
Drawing No: A55J15J16-RML-30-16-DR-X-1001 Rev: 02



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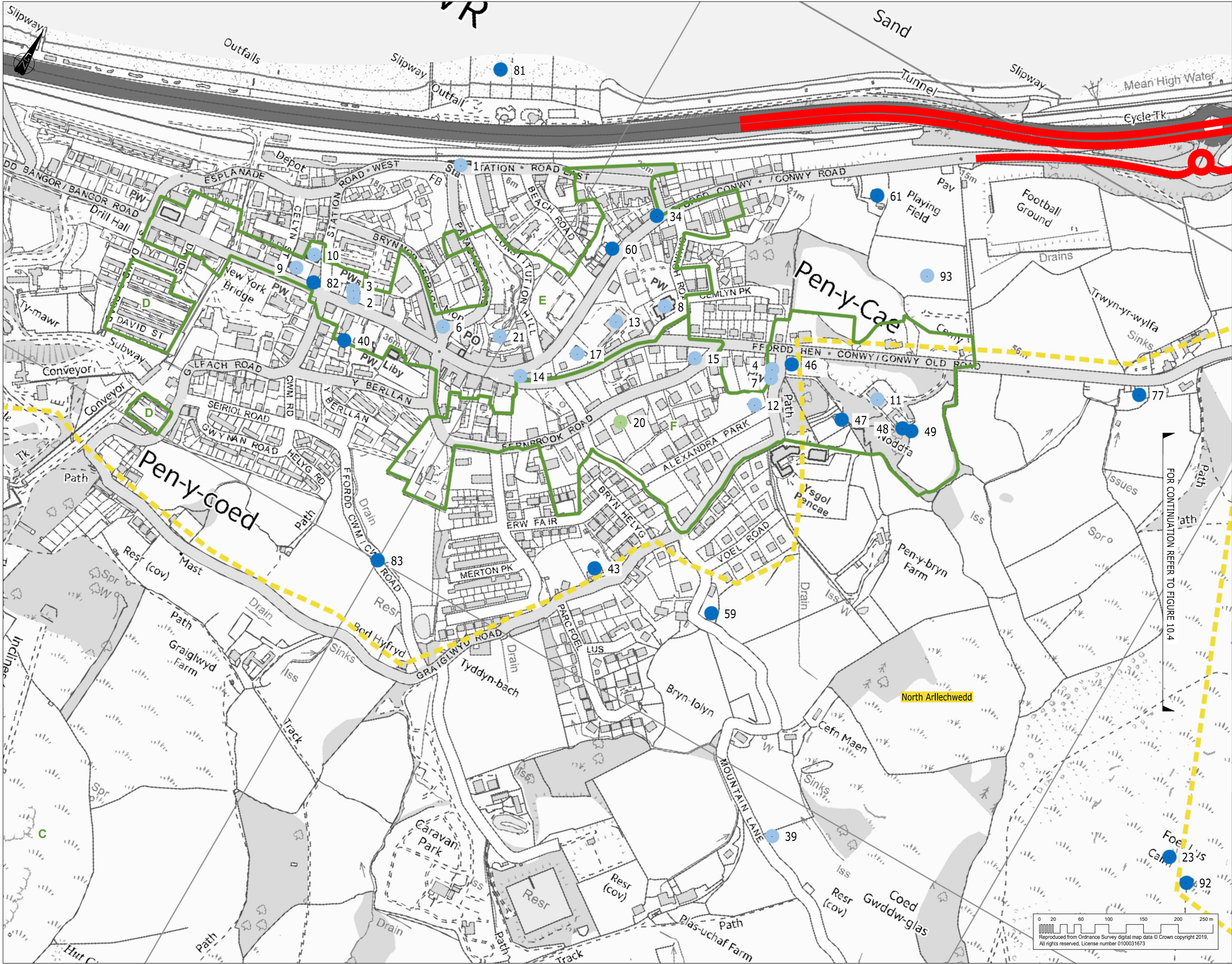
- Notes
- Legend
- Carriageway Alignment
 - Fixed Distance Buffer
 - Assets
 - Scheduled Ancient Monument
 - Conservation Area
 - C. Penmaenan
 - D. St David's Road
 - E. Penmaenmawr Town Centre
 - F. Pen-y-Cae
 - Registered Historic Landscape in Wales

A55 JUNCTION 15 & 16 IMPROVEMENTS



JUNCTION 16 FIGURE 10.2 ASSETS OVERVIEW DRAWING

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:15000	RhE	DEC 20
Drawing No:		Rev:	
A55J15J16-RML-30-16-DR-X-1002			03



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Notes

Legend

- Carriageway Alignment
- Scheduled Ancient Monument
- Conservation Area
- D. St David's Road
- E. Penmaenmawr Town Centre
- F. Pen-y-Cae
- Registered Historic Landscape in Wales

Assets

Significance of Effect

- Neutral
- Neutral / Slight
- Slight
- Slight / Moderate
- Moderate
- Moderate / Large
- Large
- Large / Very Large
- Very Large
- Unknown

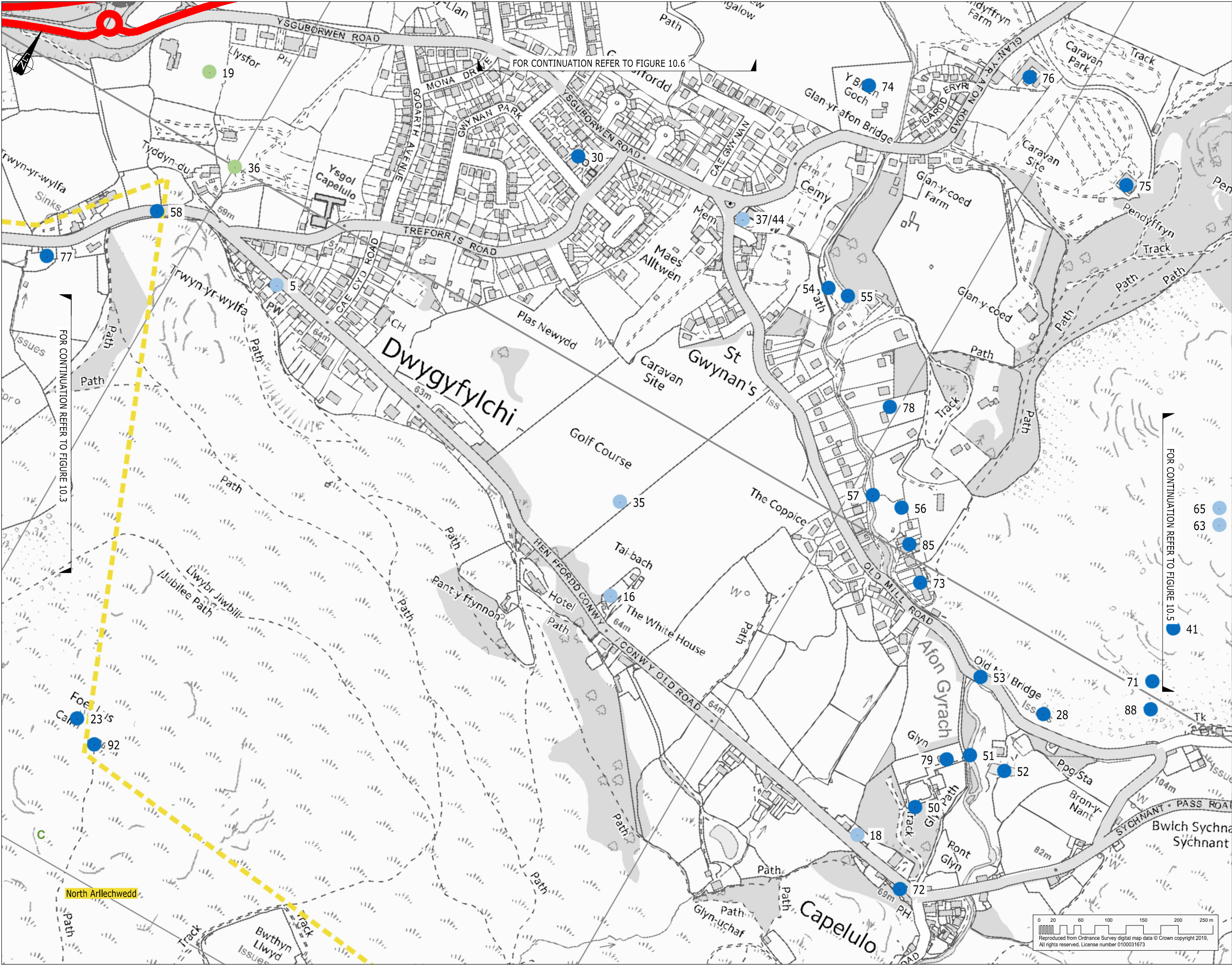
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A55 JUNCTION 15 & 16 IMPROVEMENTS



JUNCTION 16
FIGURE 10.3
ASSETS
SHEET 1 OF 5

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:15000	RHe	DEC 20
Drawing No:		Rev:	
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Notes

Legend

- Carriageway Alignment
- Scheduled Ancient Monument
- Conservation Area
- D. St David's Road
- E. Penmaenmawr Town Centre
- F. Pen-y-Cae
- Registered Historic Landscape in Wales

Assets

Significance of Effect

- Neutral
- Neutral / Slight
- Slight
- Slight / Moderate
- Moderate
- Moderate / Large
- Large
- Large / Very Large
- Very Large
- Unknown

Asset reference number corresponds with Junction 16 Appendix 10.6 table

A55 JUNCTION 15 & 16 IMPROVEMENTS


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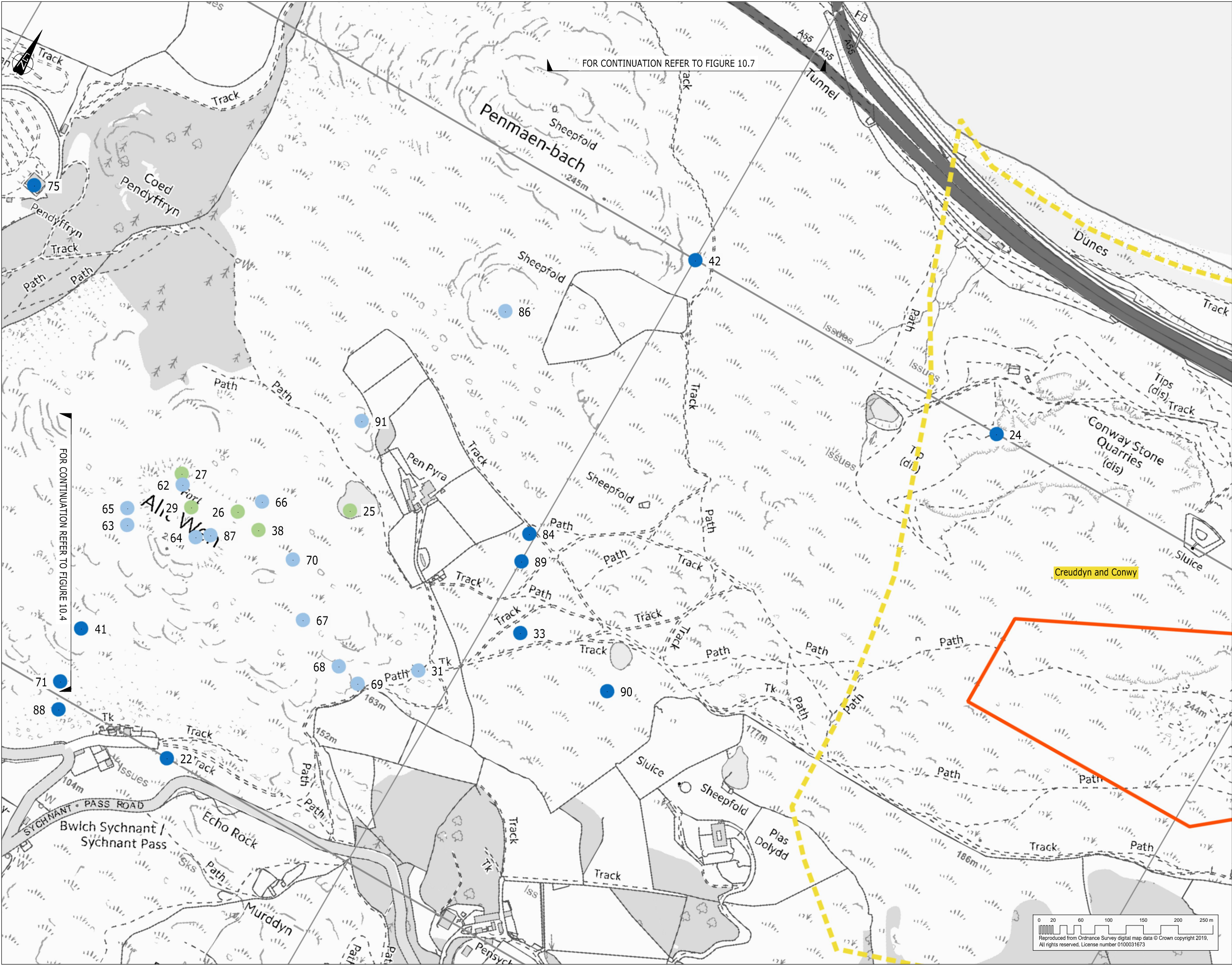
 
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JUNCTION 16
FIGURE 10.4
ASSETS
SHEET 2 OF 5

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:5000	RhE	DEC 20
Drawing No:	Rev:		
A55J15J16-RML-30-16-DR-X-1004			03



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Notes

Legend

- Carriageway Alignment
- Scheduled Ancient Monument
- Conservation Area
- D. St David's Road
- E. Penmaenmawr Town Centre
- F. Pen-y-Cae
- Registered Historic Landscape in Wales

Assets

Significance of Effect

- Neutral
- Neutral / Slight
- Slight
- Slight / Moderate
- Moderate
- Moderate / Large
- Large
- Large / Very Large
- Very Large
- Unknown

Asset reference number corresponds with Junction 16 Appendix 10.6 table

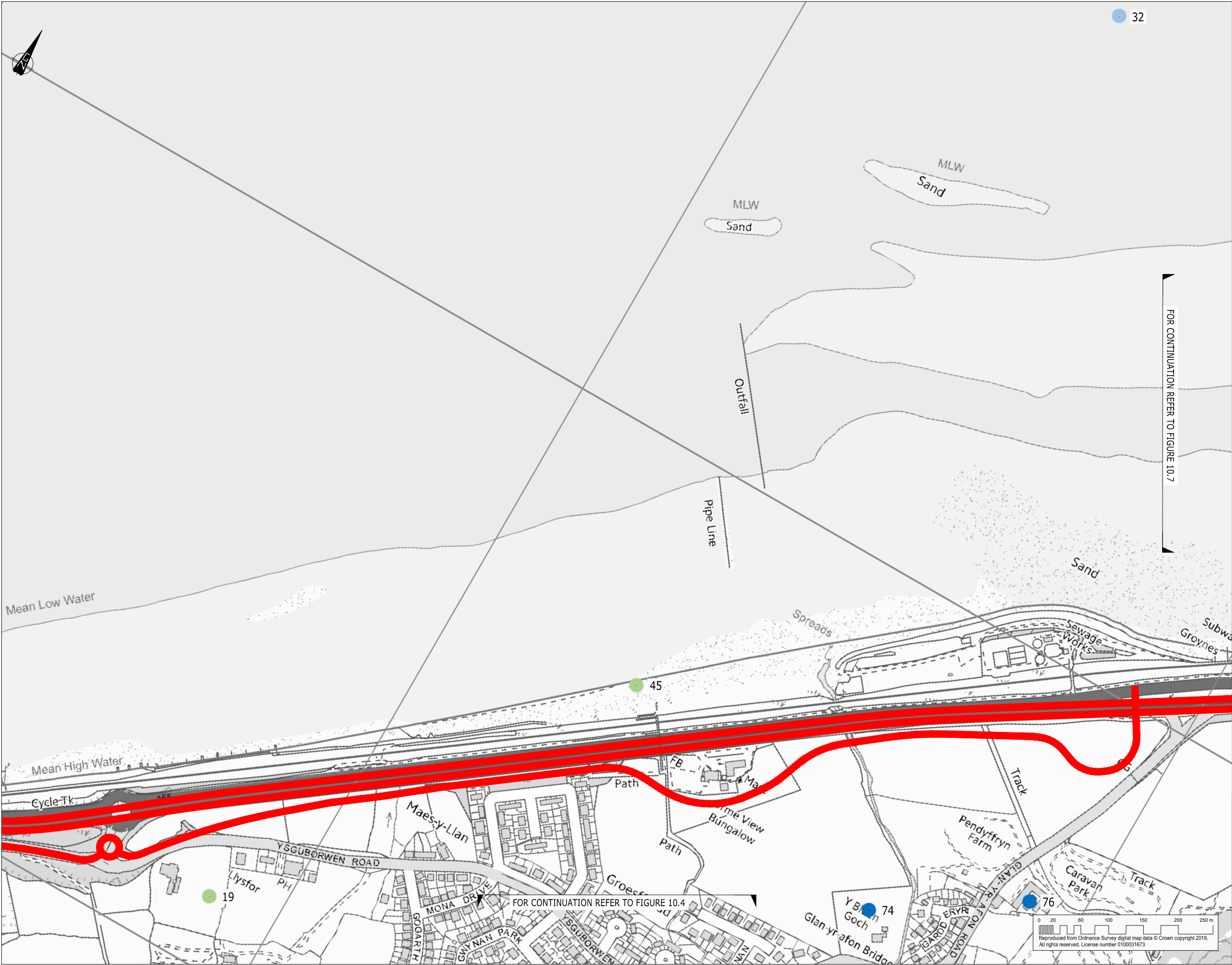
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JUNCTION 16
FIGURE 10.5
ASSETS
SHEET 3 OF 5

Project No:	Scale (@A1):	Drawn:	Date:
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Drawing No:		Rev:	
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Notes

Legend

- Carriageway Alignment
- Scheduled Ancient Monument
- Conservation Area
- D. St David's Road
- E. Penmaenmawr Town Centre
- F. Pen-y-Cae
- Registered Historic Landscape in Wales

Assets

Significance of Effect

- Neutral
- Neutral / Slight
- Slight
- Slight / Moderate
- Moderate
- Moderate / Large
- Large
- Large / Very Large
- Very Large
- Unknown

Asset reference number corresponds with Junction 16 Appendix 10.6 table

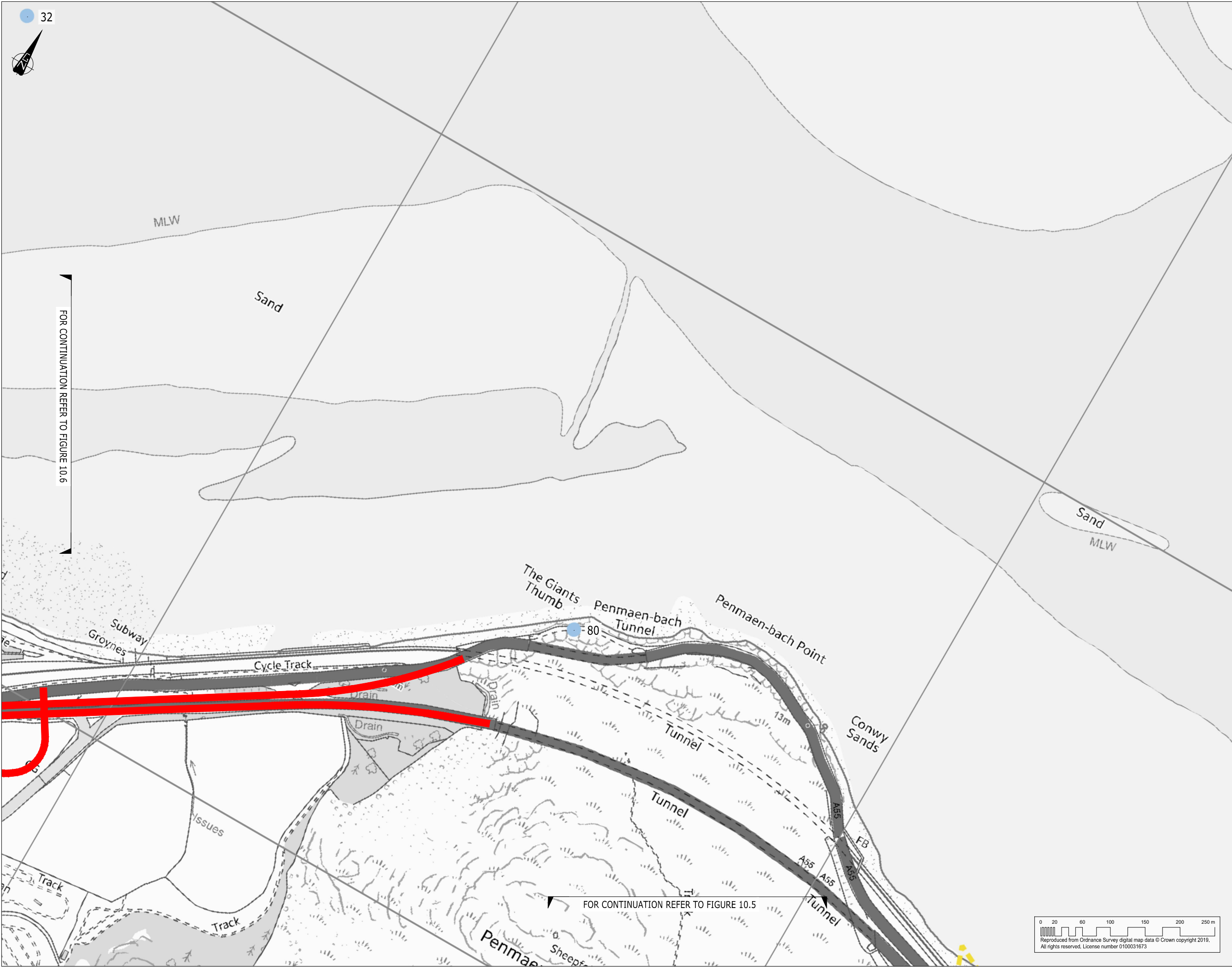
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JUNCTION 16
FIGURE 10.6
ASSETS
SHEET 4 OF 5

Project No:	Scale (@A1):	Drawn:	Date:
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Notes

Legend

Carriageway Alignment

Scheduled Ancient Monument

Conservation Area

D. St David's Road
E. Penmaenmawr Town Centre
F. Pen-y-Cae

Registered Historic Landscape in Wales

Assets

Significance of Effect

Neutral

Neutral / Slight

Slight

Slight / Moderate

Moderate

Moderate / Large

Large

Large / Very Large

Very Large

Unknown

Asset reference number corresponds with Junction 16 Appendix 10.6 table

A55 JUNCTION 15 & 16 IMPROVEMENTS


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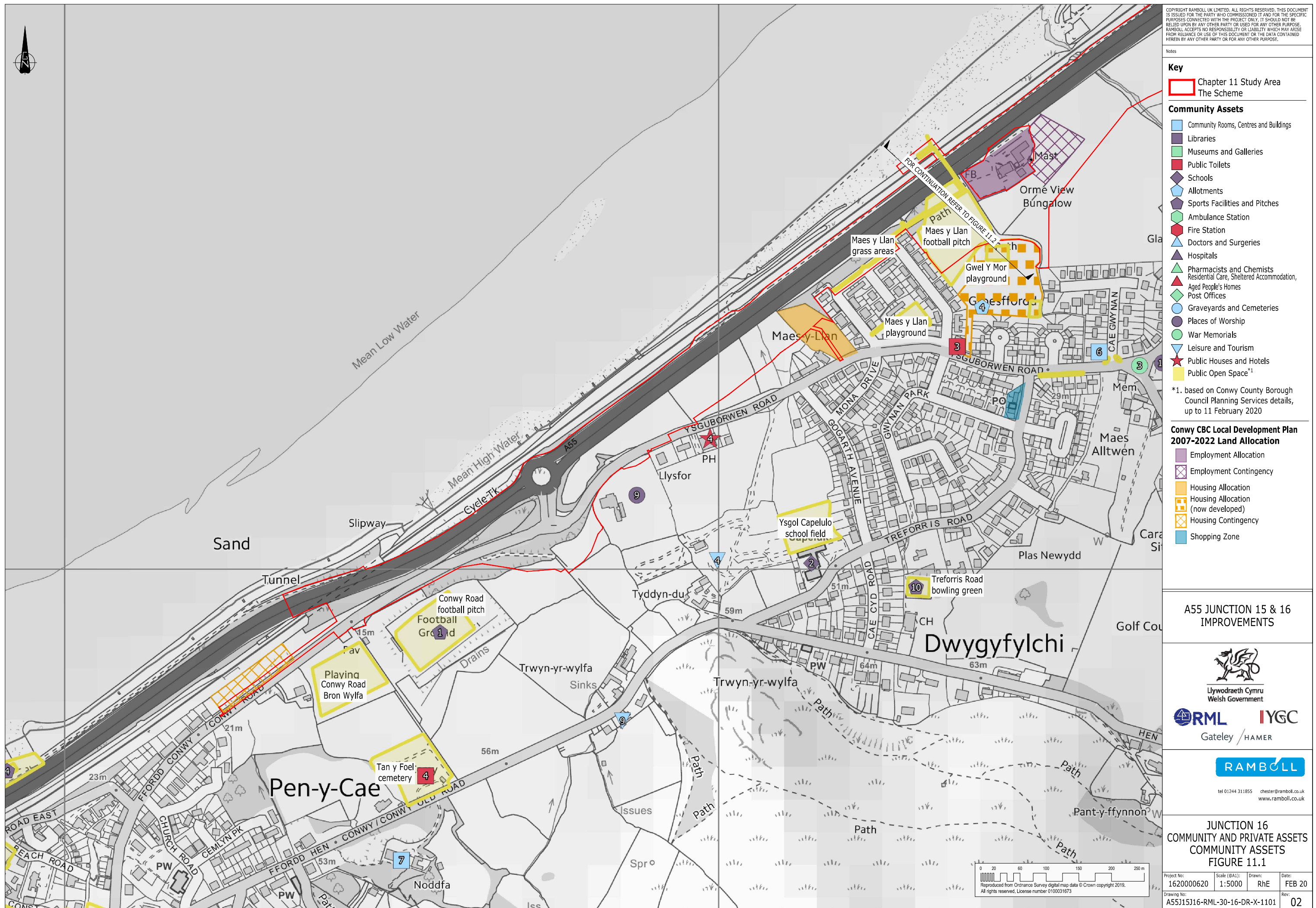


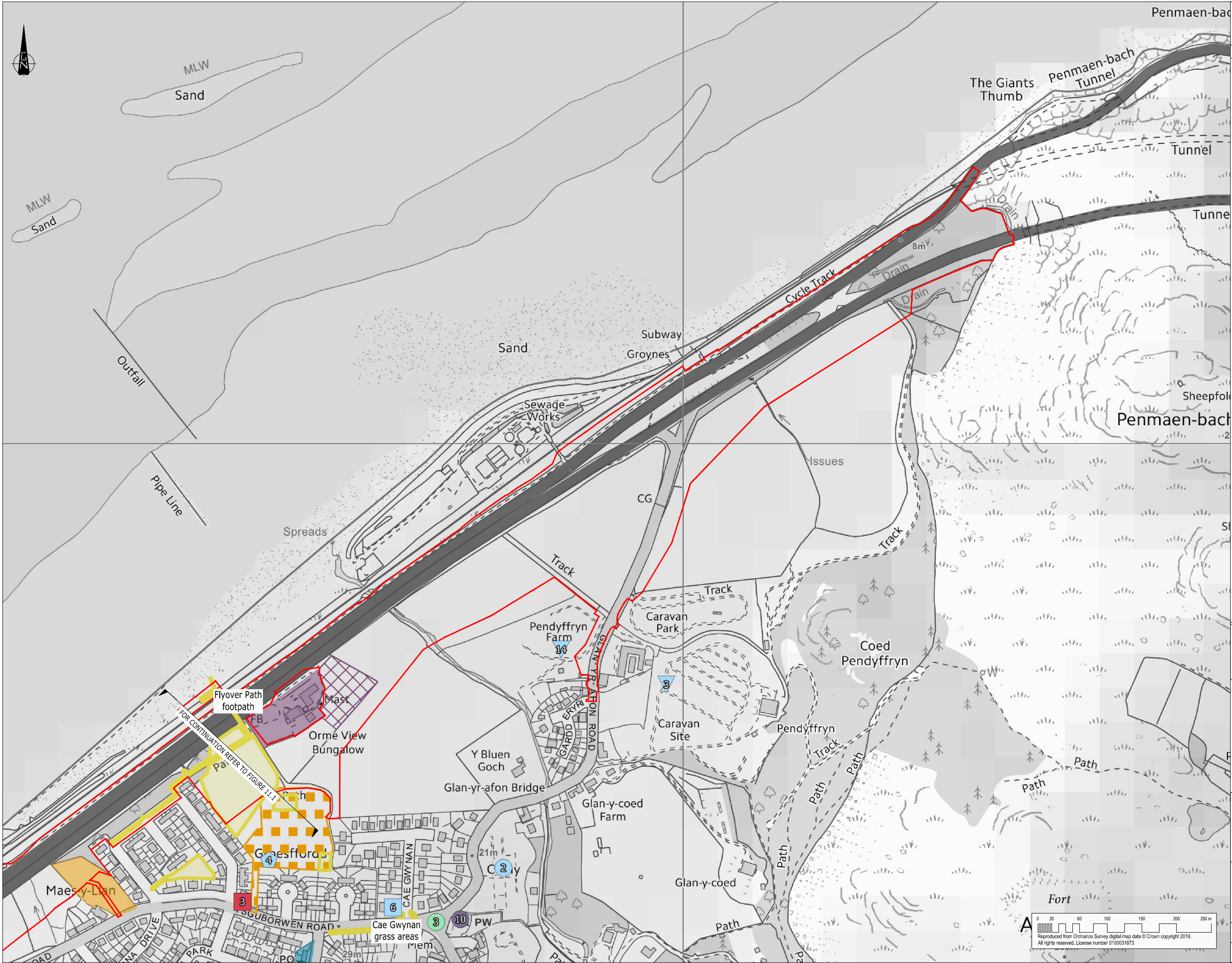
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JUNCTION 16
FIGURE 10.7
ASSETS
SHEET 5 OF 5

Project No: 1620000620	Scale (@A1): 1:5000	Drawn: RhE	Date: DEC 20
Drawing No: A55J15J16-RML-30-16-DR-X-1007		Rev:	03

ES Chapter 11 Figures	
11.1	Community and Private Assets (Pen-y-cae and Dwygyfylchi)
11.2	Community and Private Assets (Dwygyfylchi and Pendyffryn)





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Notes

Key

Chapter 11 Study Area
The Scheme

Community Assets

- Community Rooms, Centres and Buildings
- Libraries
- Museums and Galleries
- Public Toilets
- Schools
- Allotments
- Sports Facilities and Pitches
- Ambulance Station
- Fire Station
- Doctors and Surgeries
- Hospitals
- Pharmacists and Chemists
- Residential Care, Sheltered Accommodation,
- Aged People's Homes
- Post Offices
- Graveyards and Cemeteries
- Places of Worship
- War Memorials
- Leisure and Tourism
- Public Houses and Hotels
- Public Open Space^{*1}

^{*1}. based on Conwy County Borough Council Planning Services details, up to 11 February 2020

Conwy CBC Local Development Plan 2007-2022 Land Allocation

- Employment Allocation
- Employment Contingency
- Housing Allocation
- Housing Allocation (now developed)
- Housing Contingency
- Shopping Zone

A55 JUNCTION 15 & 16 IMPROVEMENTS


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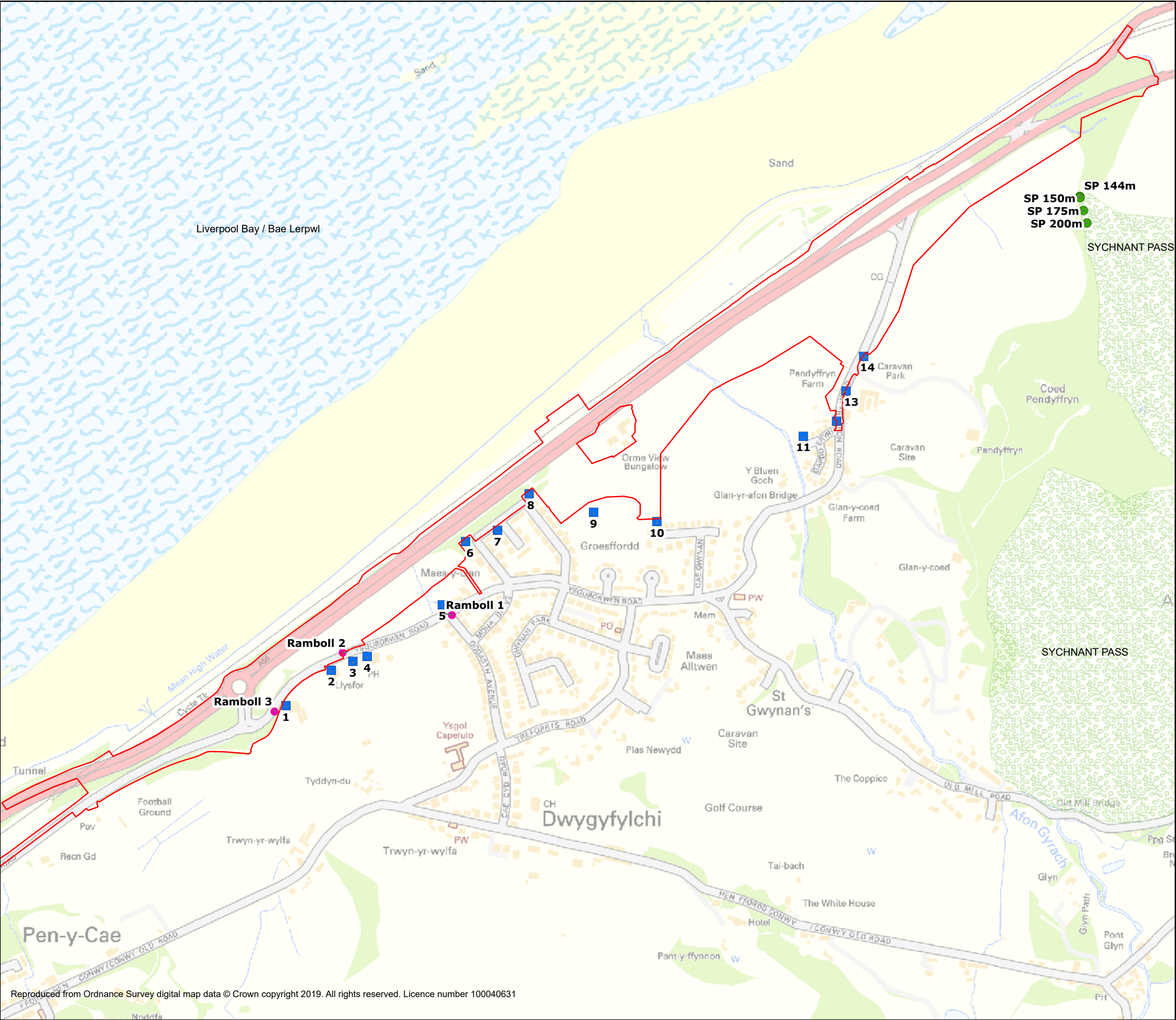


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**JUNCTION 16
COMMUNITY AND PRIVATE ASSETS
COMMUNITY ASSETS
FIGURE 11.2**

Project No: 1620000620 Scale (BA1): 1:5000 Drawn: RhE Date: FEB 20
Drawing No: A55J15J16-RML-30-16-DR-X-1102 Rev: 02

ES Chapter 12 Figures	
12.1	Air Quality Receptor and Monitoring Locations
12.2	Junction 16 Air Quality Annual Mean Nitrogen Dioxide Contour
12.3	Junction 16 Air Quality Annual Mean PM10 Contour



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Legend

- J16 Scheme Boundary
- Human Health Receptors
- Ecological Receptors
- Ramboll Diffusion Tubes
- SPA
- SSSI

Figure Title

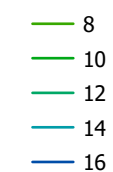
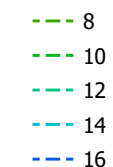
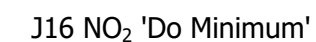
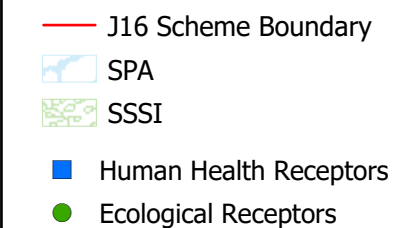
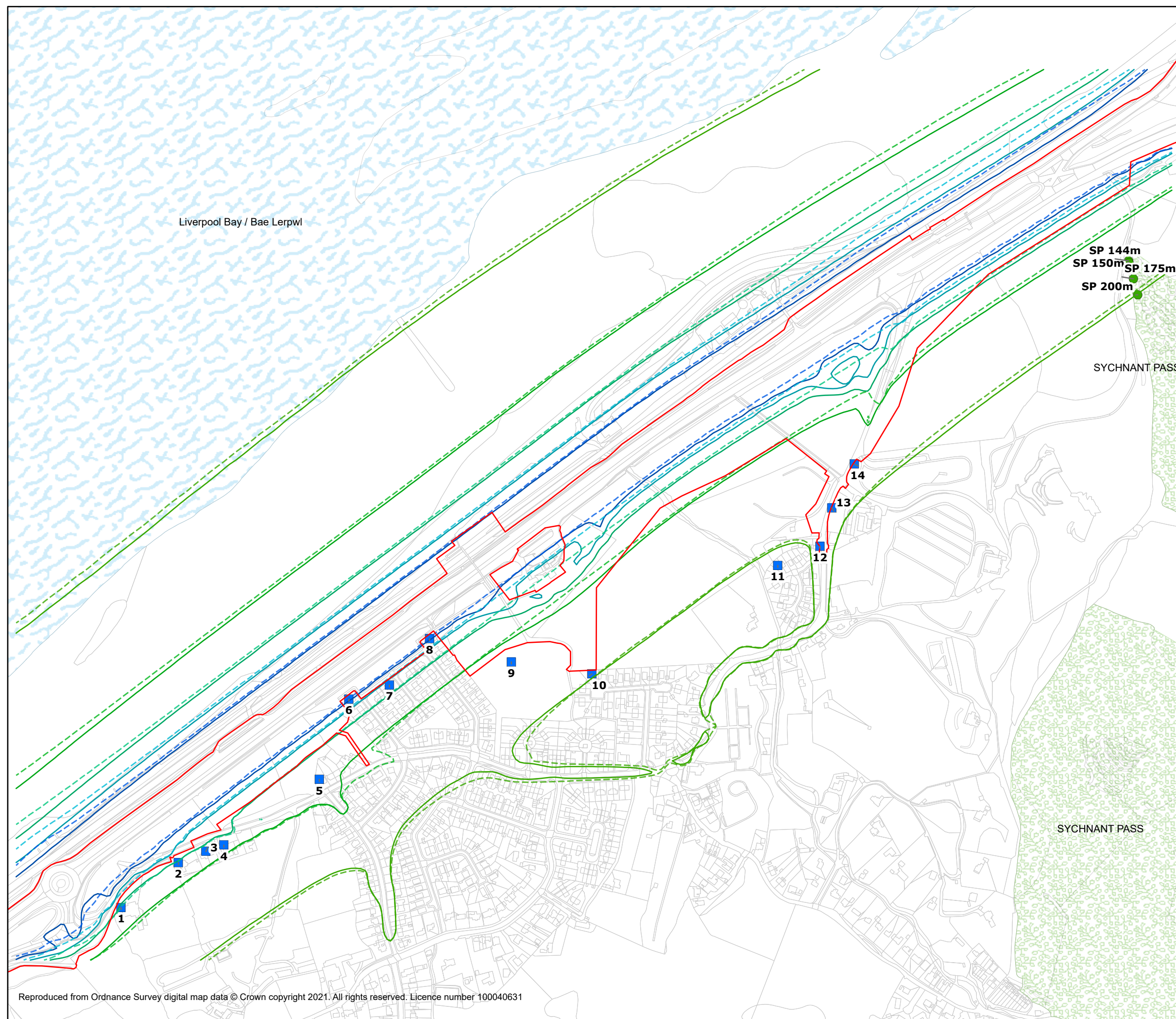
Air Quality Receptor and Monitoring Locations

Project Name

A55 Junctions 16 Improvements

Project Number	Figure No.
162000620	12.1
Date	Prepared By
January 2021	AG
Scale	Issue
1:7,000 @A3	2
Client	
Welsh Assembly Government	

RAMBOLL



The map shows the coastline of Tientsin, China, with the Bohai Sea to the east. Four sampling points are marked with green dots and labeled: SP 144m, SP 150m, SP 175m, and SP 200m. The points are located at increasing distances from the coast, with SP 144m being the closest and SP 200m being the furthest. The map also shows the city of Tientsin and the surrounding land area.

SYCHNANT PASS

SYCHNANT PASS



Figure Title

J16 Air Quality Annual Mean
Nitrogen Dioxide Contour
($\mu\text{g}/\text{m}^3$)

Project Name

A55 Junctions 16 Improvements

Project Number	162000620
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Figure No.
12.2

Date	January 2021
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Prepared By	AG
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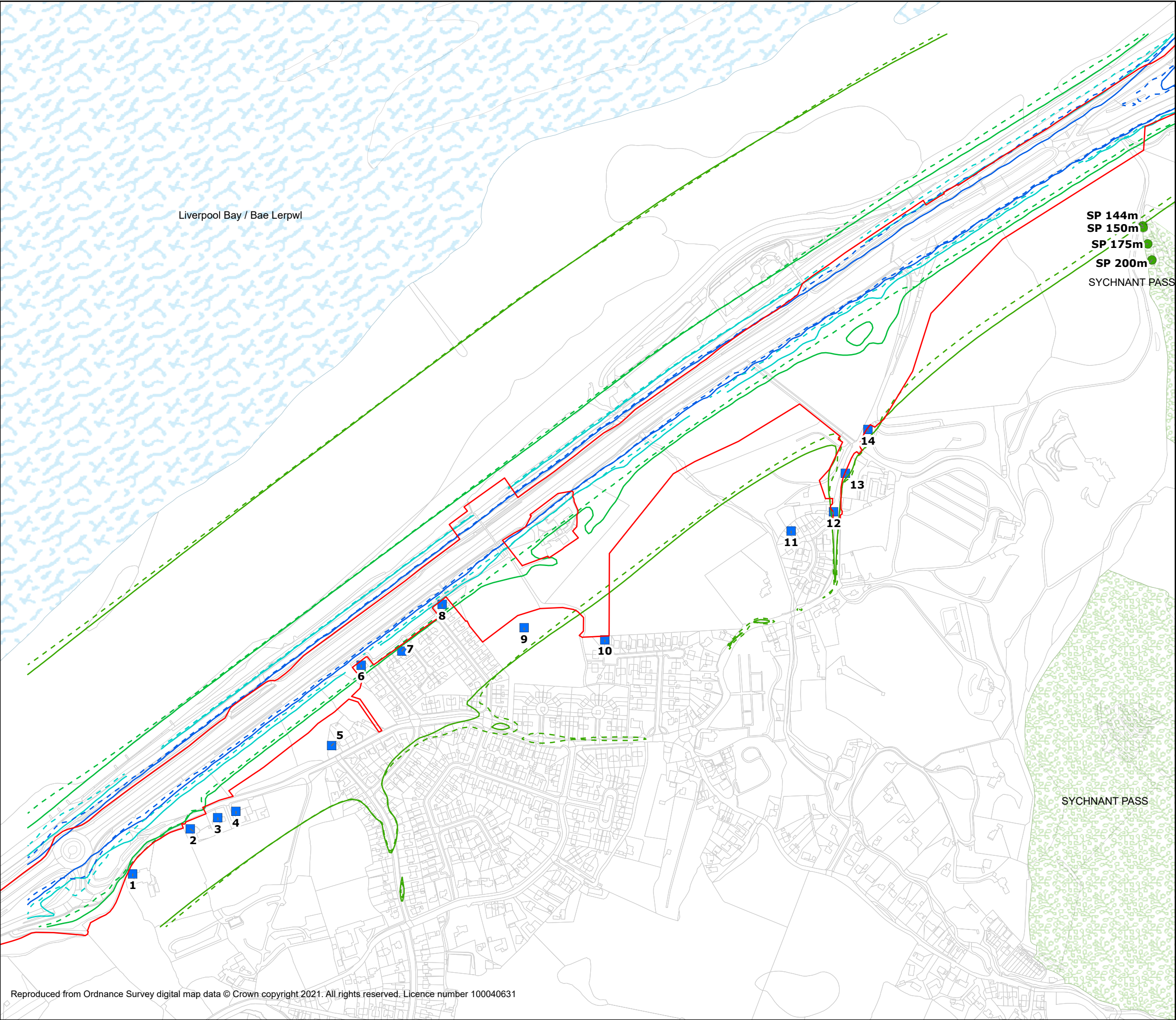
Scale
1:5,500 @A3

Issue	2
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Client	
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Welsh Assembly Government





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- J16 Scheme Boundary
- SPA
- SSSI
- Human Health Receptors
- Ecological Receptors

J16 PM₁₀ 'Do Minimum'

- 8
- 9
- 10
- 11

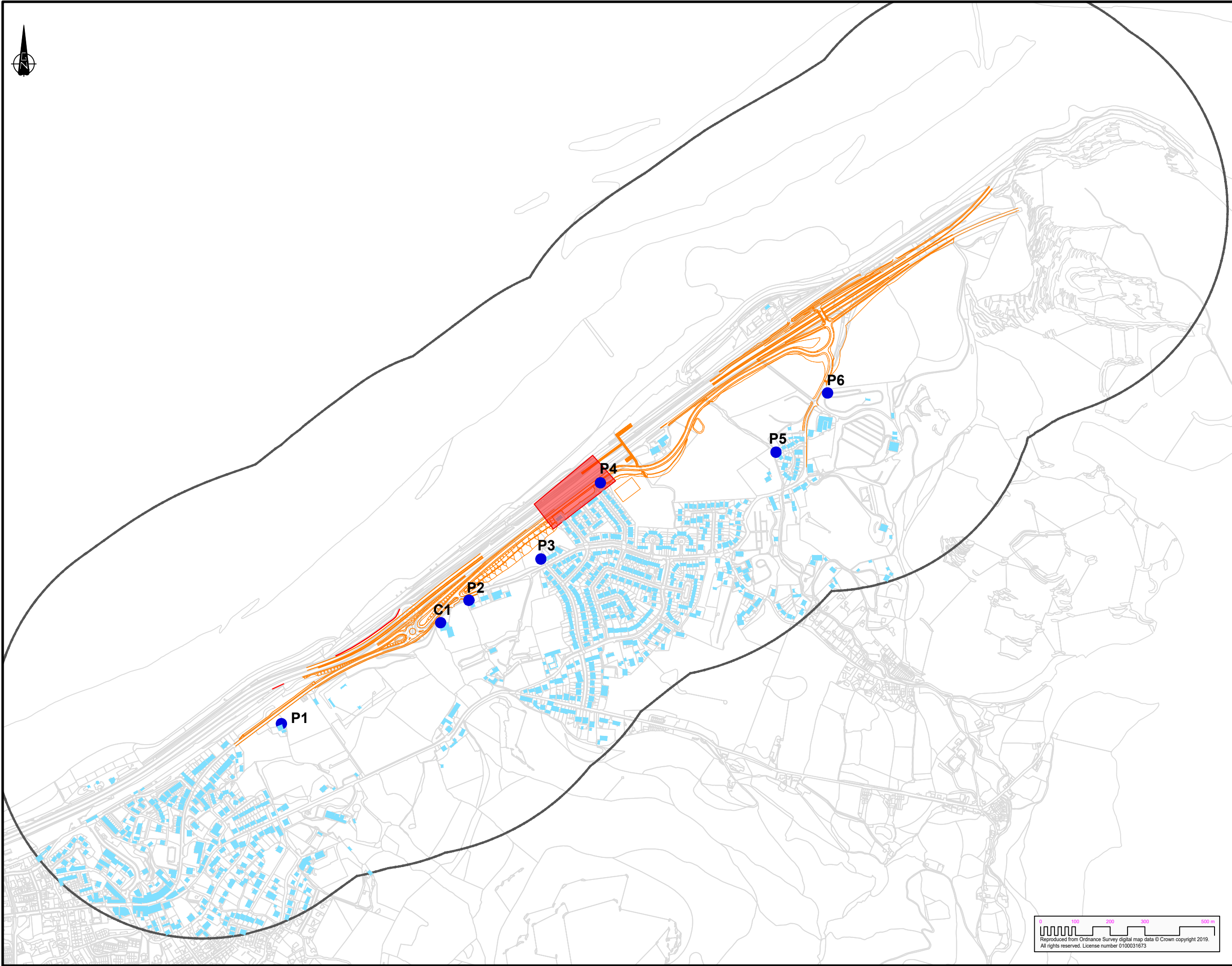
J16 PM₁₀ 'Do Something'

- 8
- 9
- 10
- 11

Figure Title	
J16 Air Quality Annual Mean PM ₁₀ Contour (µg/m ³)	
Project Name	
A55 Junctions 16 Improvements	
Project Number	Figure No.
162000620	12.3
Date	Prepared By
January 2021	AG
Scale	Issue
1:5,500 @A3	2
Client	
Welsh Assembly Government	



ES Chapter 13 Figures	
13.1	Study Area
13.2	Baseline Noise Monitoring Locations
13.3	Noise Level Difference at 4m Height Without Mitigation
13.4	Noise Level Map at 4m Height Without Mitigation
13.5	Noise Level Map at 4m Height With Mitigation
13.6	Baseline Traffic
13.7	Proposed Traffic



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Notes

- Construction NSR
- Proposed Scheme
- Assessed Buildings
- Calculation Area
- Priority Area

Rev	Description	Date	By	App
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A55 JUNCTION 15 & 16 IMPROVEMENTS

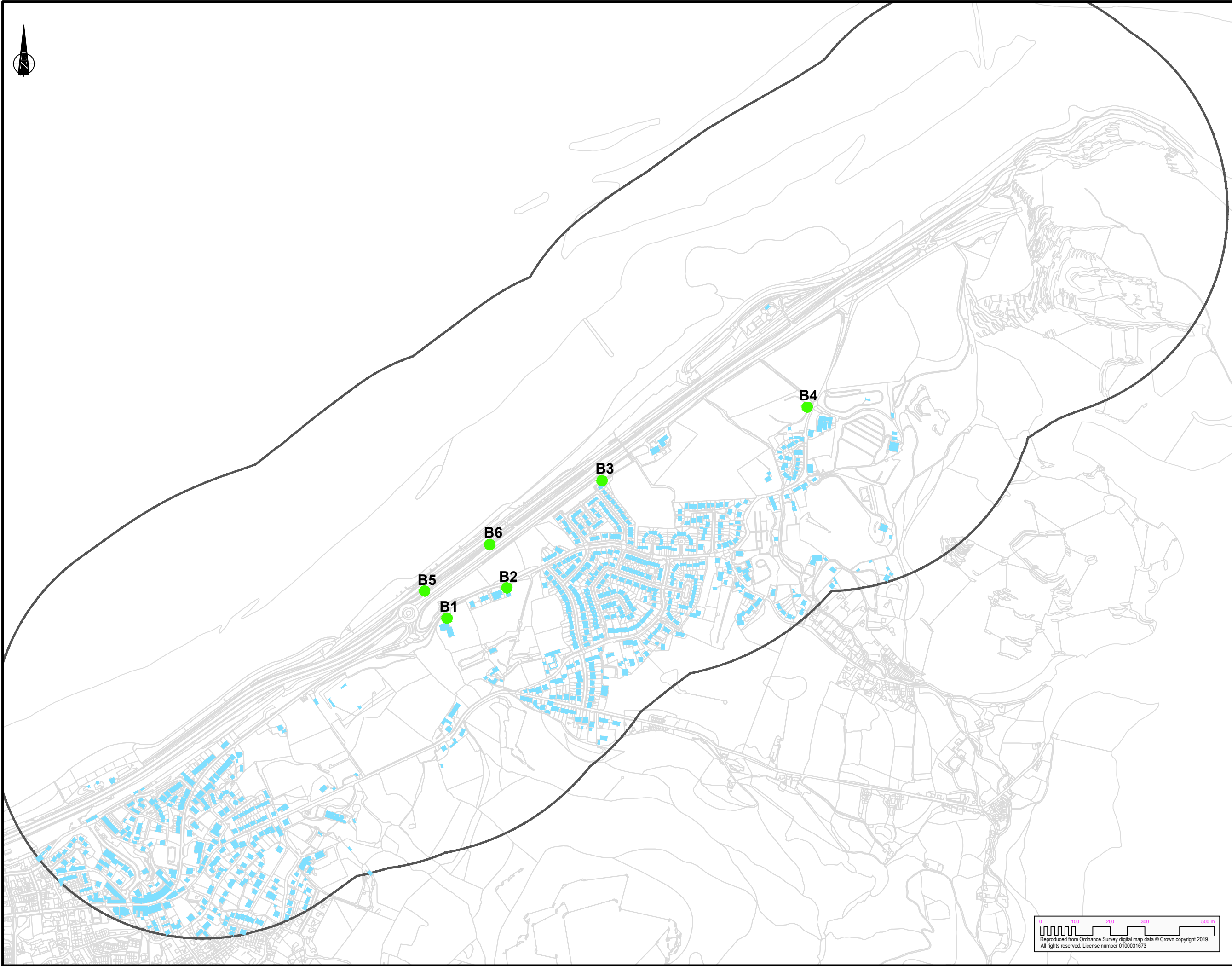
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Welsh Government

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Study Area				
Project No:	Scale (@A3):	Drawn:	Date:	
1620004796	1:10000	NJ	12/2020	
Drawing No:				Rev:
162_4796_Fig13.1_StudyArea				1



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- Notes
- Baseline Monitoring
 - Assessed Buildings
 - Calculation Area

Rev	Description	Date	By	App
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A55 JUNCTION 15 & 16 IMPROVEMENTS



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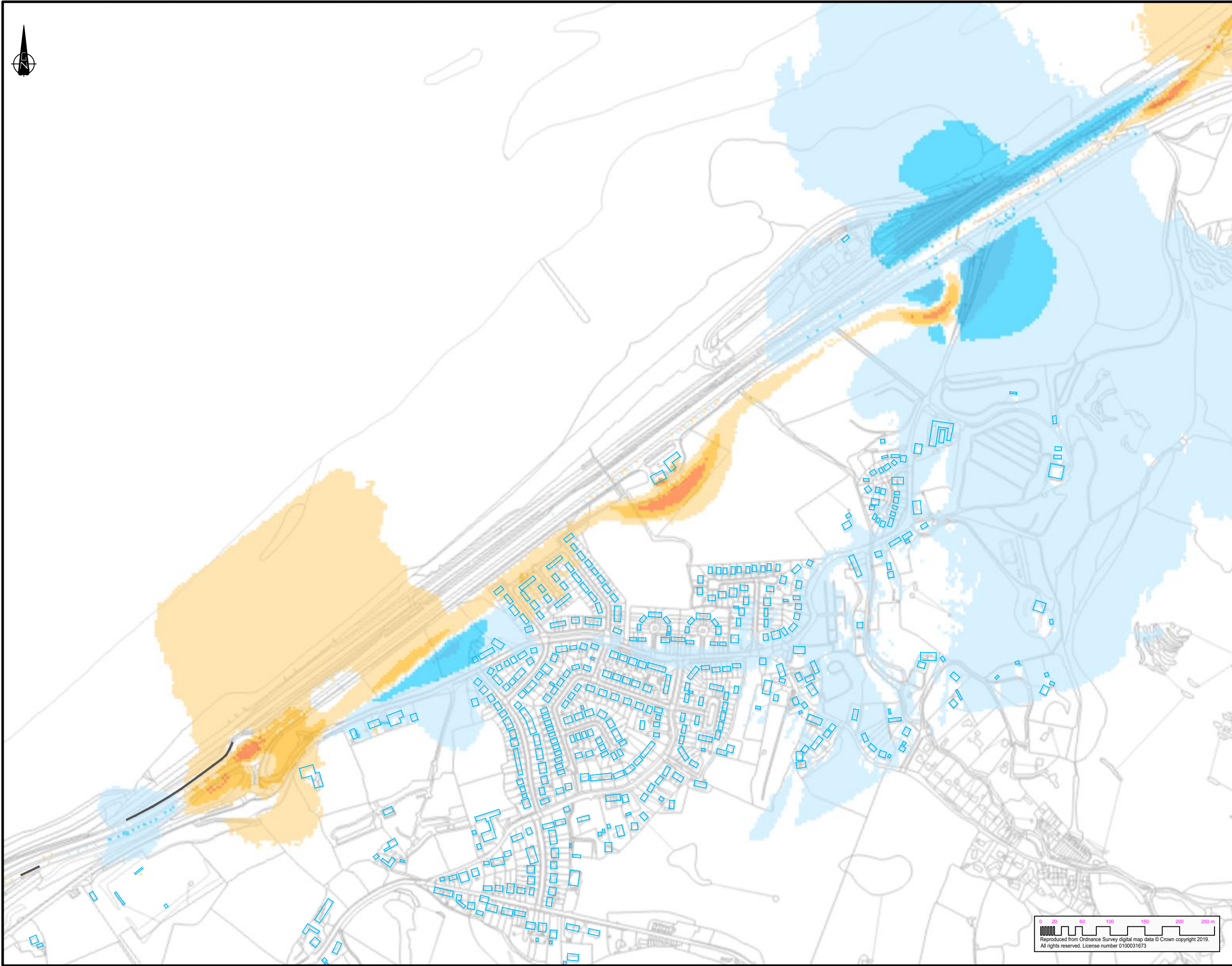
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Baseline Noise Monitoring Locations

Project No:	Scale (@A3):	Drawn:	Date:
1620004796	1:10000	NJ	12/2020
Drawing No:	Rev:		
162_4796_Fig13.2_BaselineMonitor	1		



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- Notes
- Assessed Buildings
 - Existing Barrier - retained
 - Noise Level Change (dB L_{A10, 18h})
 - < -5
 - 3 to -5
 - 1 to -3
 - 1 to 1
 - 1 to 3
 - 3 to 5
 - > 5

Rev	Description	Date	By	App
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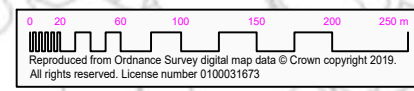
 
Gateley / HAMER

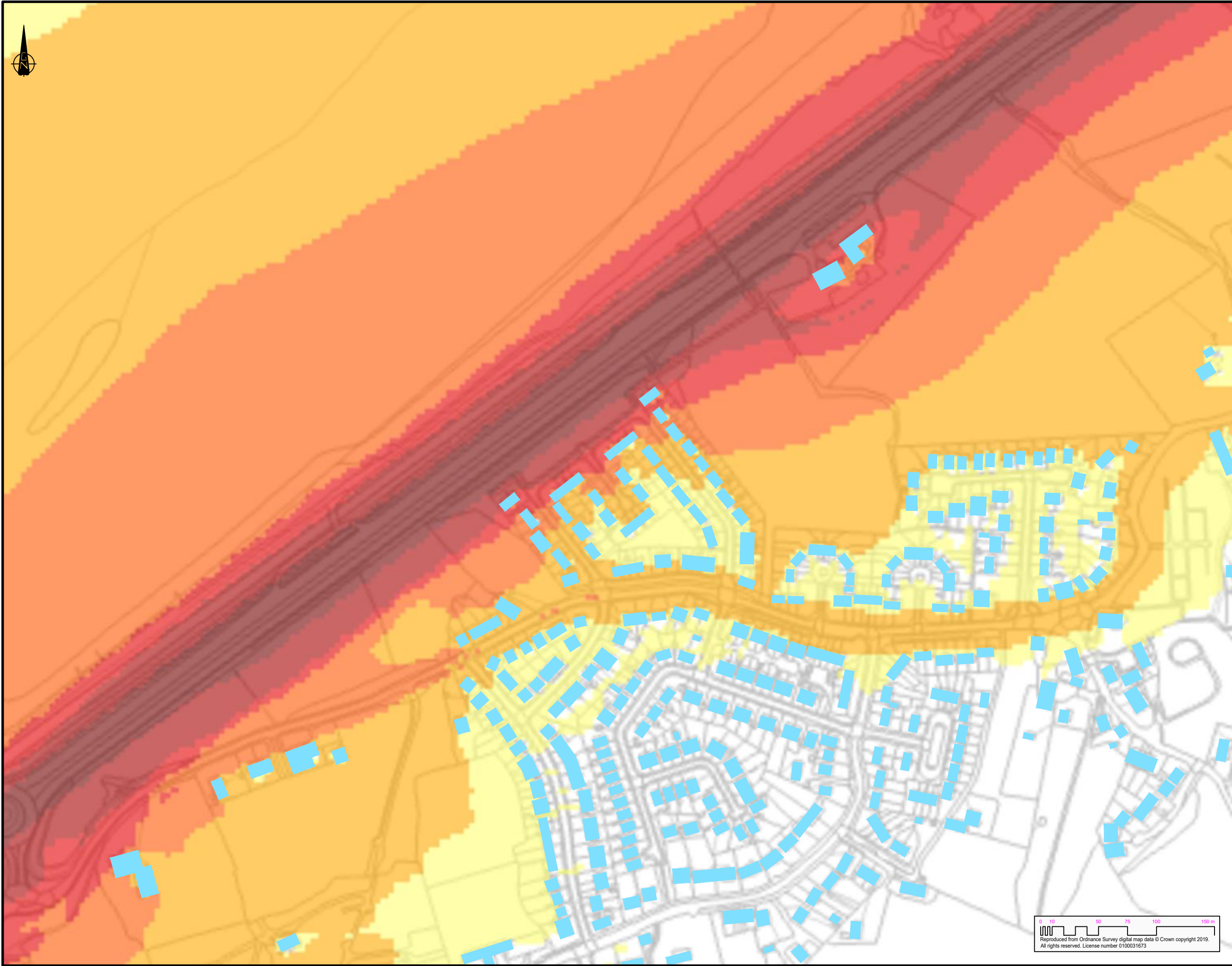


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Noise level difference at 4m height
without mitigation

Project No: 1620004796	Scale (@A3): 1:6000	Drawn: NJ	Date: 12/2020
Drawing No: 162_4796_Fig13.3_Difference	Rev: 1		





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Notes

- Assessed Buildings
- Noise Level (dB L_{A10}, 18h)
 - ≤ 50
 - 50 - 54
 - 55 - 59
 - 60 - 64
 - 65 - 69
 - 70 - 74
 - > 75

Rev	Description	Date	By	App
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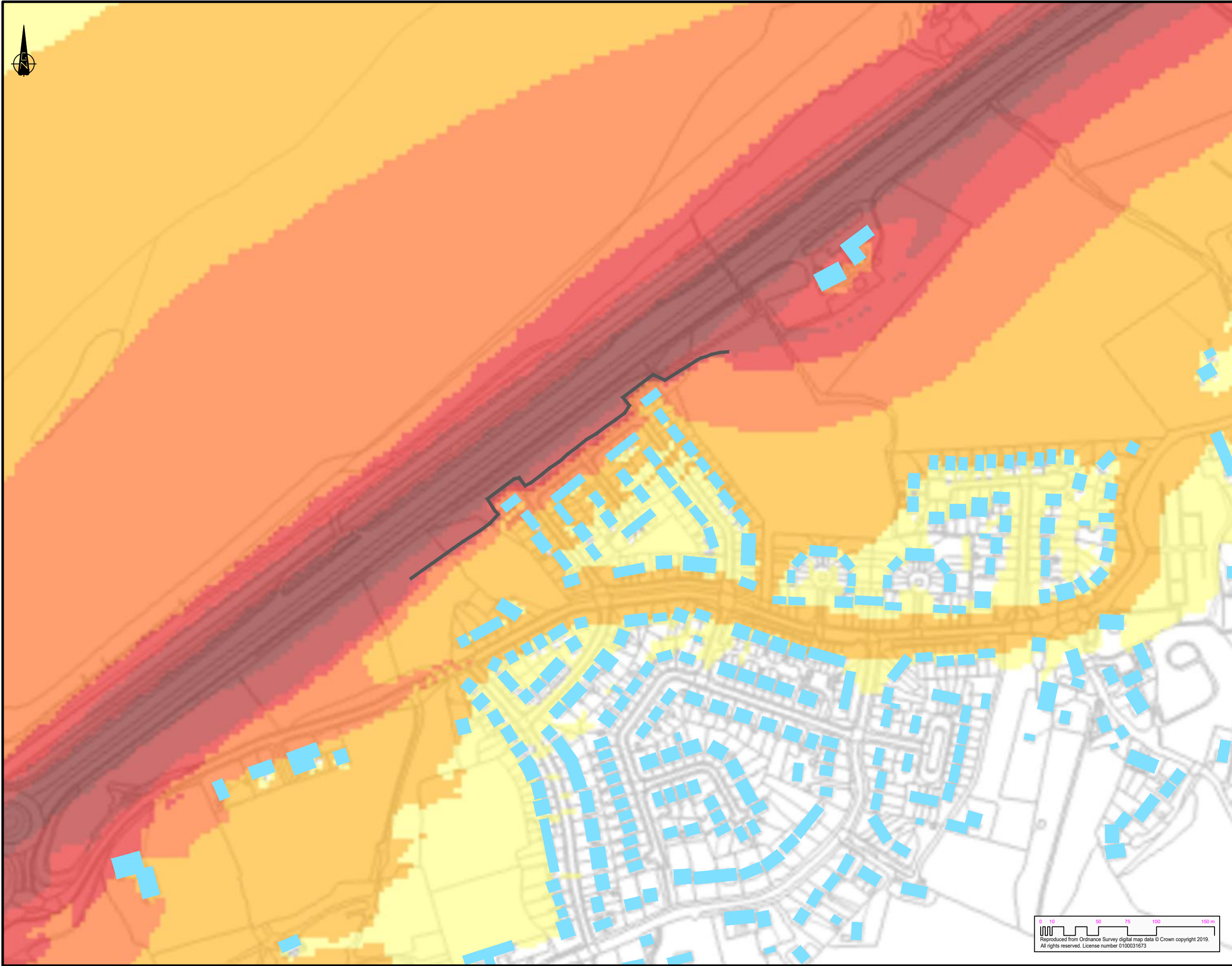
 
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Noise level map at 4m height
without mitigation

Project No: 1620004796	Scale (@A3): 1:3000	Drawn: NJ	Date: 12/2020
Drawing No: 162_4796_Fig13.4_NoMitigation		Rev: 1	



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Notes

- Proposed Barrier
- Assessed Buildings
- Noise Level (dB $L_{A10, 18h}$)
- ≤ 50
- 50 - 54
- 55 - 59
- 60 - 64
- 65 - 69
- 70 - 74
- > 75

Rev	Description	Date	By	App
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A55 JUNCTION 15 & 16 IMPROVEMENTS

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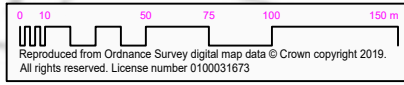
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Gateley / HAMER

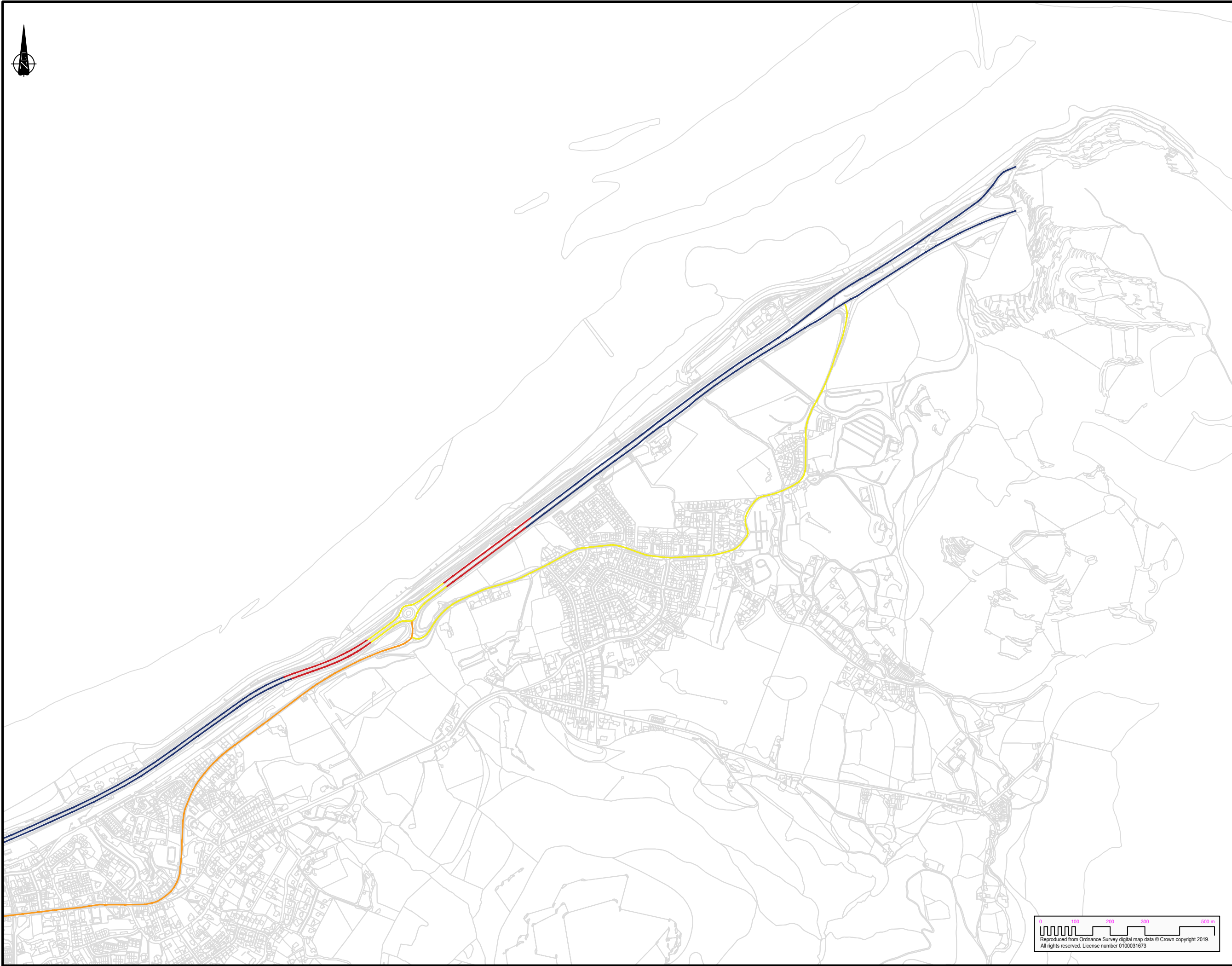
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Noise level map at 4m height with mitigation

Project No: 1620004796	Scale (@A3): 1:3000	Drawn: NJ	Date: 12/2020
Drawing No: 162_4796_Fig13.5_Mitigation	Rev: 1		





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Notes

- Speed [km/h]
- < 50
 - 50 - 60
 - 60 - 70
 - 70 - 80
 - 80 - 90
 - > 90

Rev	Description	Date	By	App
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A55 JUNCTION 15 & 16 IMPROVEMENTS


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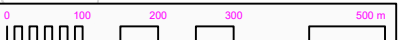
 
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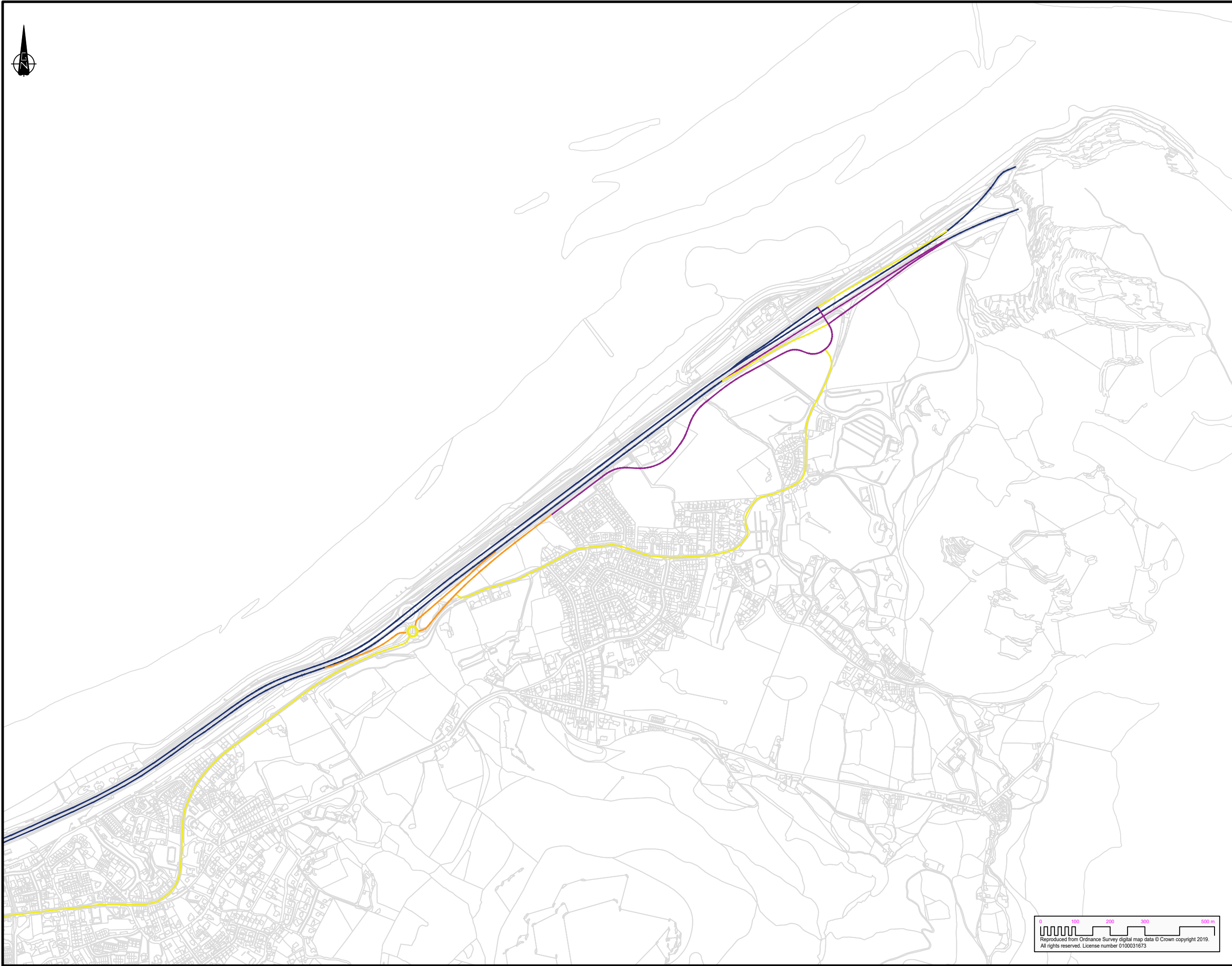


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Baseline Traffic

Project No: 1620004796	Scale (@A3): 1:10000	Drawn: NJ	Date: 12/2020
Drawing No: 162_4796_Fig13.6_BaselineTraffic		Rev: 1	


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Notes

Speed [km/h]	
—	< 50
—	50 - 60
—	60 - 70
—	70 - 80
—	80 - 90
—	> 90

Rev	Description	Date	By	App
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A55 JUNCTION 15 & 16 IMPROVEMENTS



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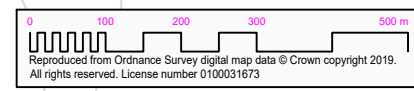


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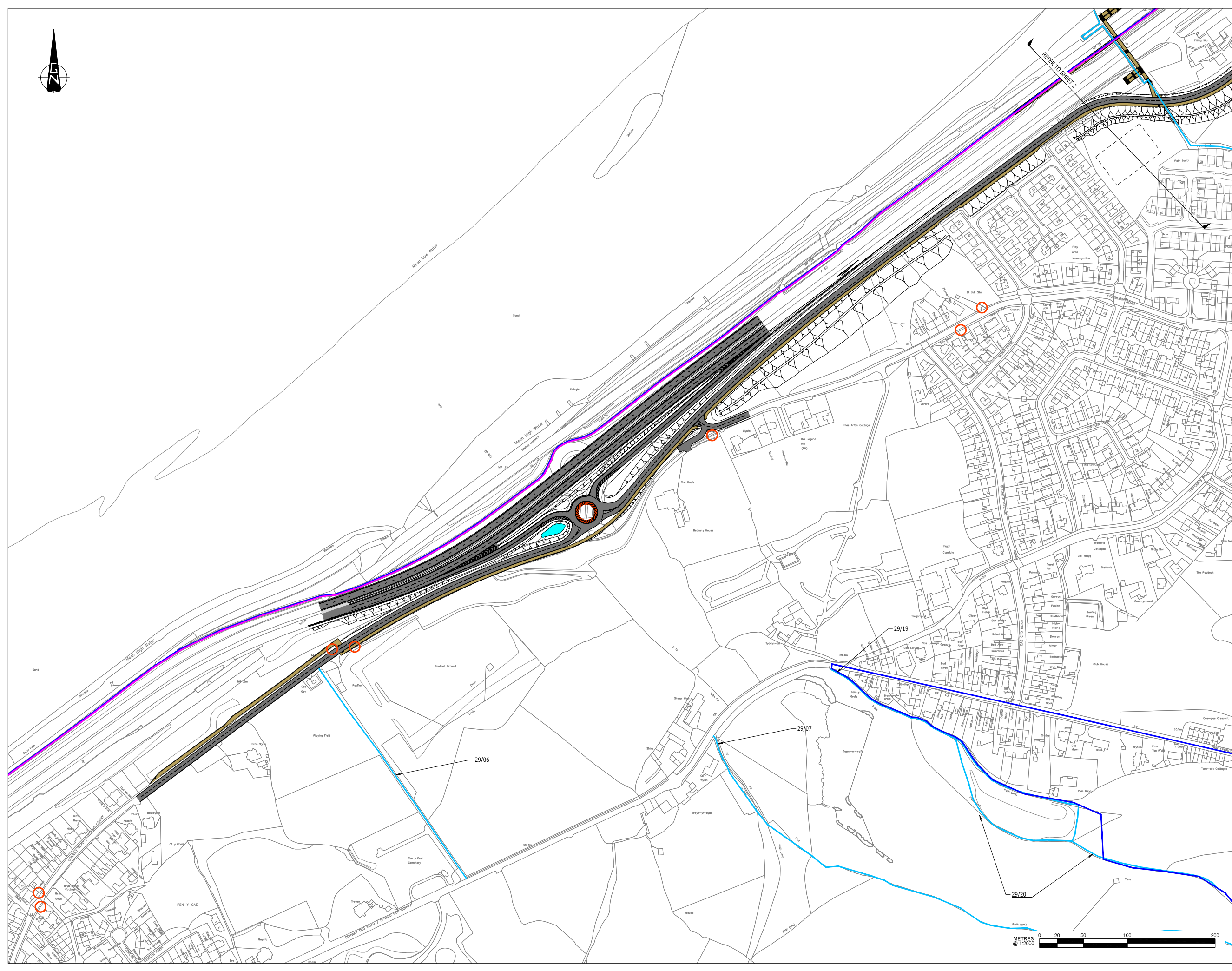


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Proposed Traffic			
Project No:	Scale (@A3):	Drawn:	Date:
1620004796	1:10000	NJ	12/2020
Drawing No:	Rev:		
162_4796_Fig13.7_ProposedTraffic	1		



ES Chapter 14 Figures	
14.1	Proposed Layout Showing Existing NMU 1 & 2 Routes (West)
14.2	Proposed Layout Showing Existing NMU 1 & 2 Routes (East)
14.3	Pedestrian and Cyclist Survey Locations
14.4	Trip Generators
14.5	Active Travel Routes
14.6	NMU Mini Schemes



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 4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

- KEY
- EXISTING PUBLIC RIGHT OF WAY
 - EXISTING NATIONAL CYCLE NETWORK
 - EXISTING WELSH COASTAL PATH
 - PROPOSED NEW SHARED CYCLEWAY / FOOTPATH
 - EXISTING BUS STOP
 - EXISTING BUS STOP TO BE RELOCATED
 - EXISTING CONTROLLED PEDESTRIAN CROSSING POINTS

P05	PRELIMINARY	06/01/2021	DB	RG
P04	PRELIMINARY	29/01/2020	IB	RG
P03	PRELIMINARY	23/11/2019	DB	RG
P02	PRELIMINARY	08/10/2019	DB	RG
P01	PRELIMINARY	07/06/2019	TM	SC
Rev	Description	Date	By	App
			CHK	

A55 JUNCTION 15 & 16 IMPROVEMENTS



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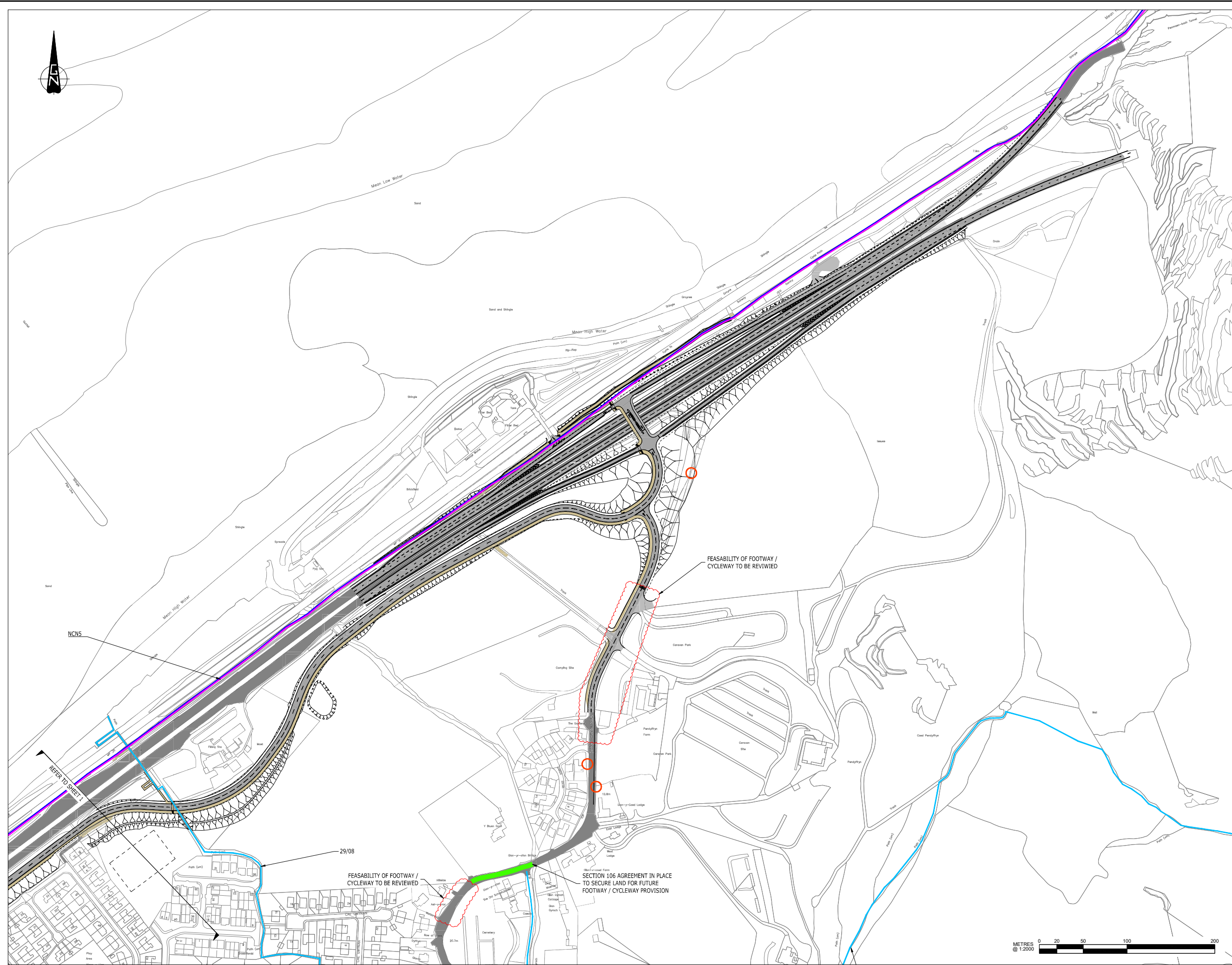
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JUNCTION 16 PROPOSED LAYOUT SHOWING EXISTING NMU 1 & 2 ROUTES SHEET 1 OF 2

Project No:	Scale (BA1):	Drawn:	Date:
1620000620	1:2000	TM	JUN 19
Drawing No:		Rev:	
A55J15J16-RAM-XX-16-DR-J-1003		P05	



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- KEY
- EXISTING PUBLIC RIGHT OF WAY
 - EXISTING NATIONAL CYCLE NETWORK
 - EXISTING WELSH COASTAL PATH
 - PROPOSED NEW SHARED CYCLEWAY / FOOTPATH
 - EXISTING BUS STOP
 - EXISTING BUS STOP TO BE RELOCATED
 - EXISTING CONTROLLED PEDESTRIAN CROSSING POINTS

P02	PRELIMINARY	08/10/2019	DB	RG
P01	PRELIMINARY	07/06/2019	TM	SC
Rev	Description	Date	By	App
			CHK	

A55 JUNCTION 15 & 16 IMPROVEMENTS

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PERSONA ASSOCIATES

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JUNCTION 16 PROPOSED LAYOUT SHOWING EXISTING NMU 1 & 2 ROUTES SHEET 2 OF 2

Project No:	Scale (BA1):	Drawn:	Date:
1620000620	1:2000	TM	JUN 19
Drawing No:	Rev:		
A55J15J16-RAM-XX-16-DR-J-1004	P02		



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KEY

PEDESTRIANS/CYCLISTS

P02	MINOR AMENDMENTS	10/10 2019	JW	NE
P01	FOR INFORMATION	09/10 2018	JW	NE
Rev	Description	Date	By	App
			CHK	

FOR INFORMATION

A55 JUNCTION 15 & 16 IMPROVEMENTS



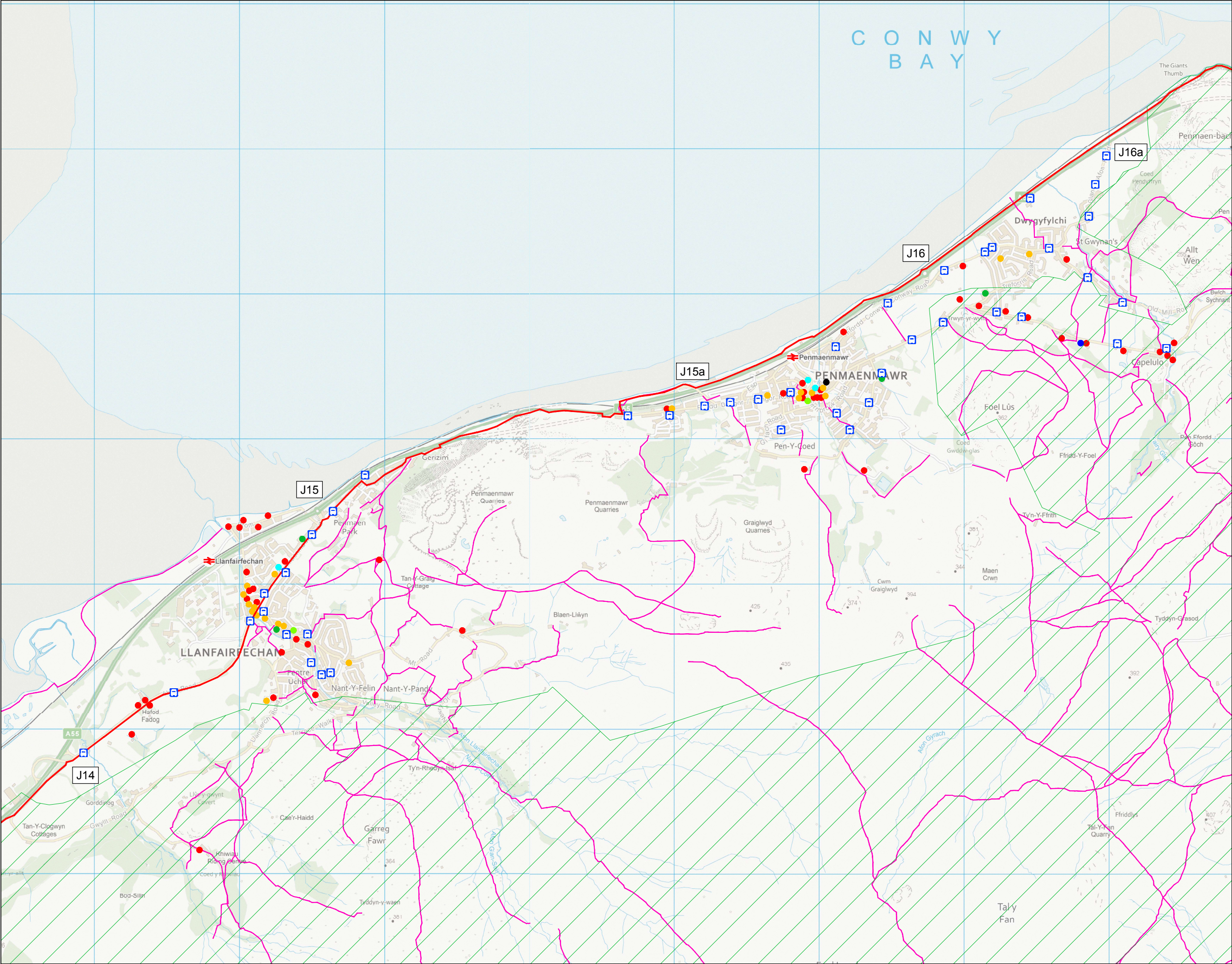
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PEDESTRIANS & CYCLISTS SURVEY LOCATIONS 6-10

Project No:	Scale (@A1):	Drawn:	Date:
1620000620	1:5000	JW	DEC 18
Drawing No:		Rev	
RAM-ZZ-ZZ-SK-J-3004		P02	



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KEY

- GLYN UCHAF STABLES
- PUBLIC RIGHTS OF WAY
- RESTAURANTS, PUBS AND HOTELS
- RETAIL UNITS
- SCHOOLS
- SNOWDONIA NATIONAL PARK
- NCN ROUTE 5
- TRAIN STATIONS
- HEALTH FACILITIES
- BUS STOPS
- LIBRARY
- COUNCIL OFFICE

P01	FOR INFORMATION	19/07 2019	JW	NE
Rev	Description	Date	By	App
			CHK	

FOR INFORMATION

A55 JUNCTION 15 & 16 IMPROVEMENTS

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RICHARDS
MOXLEY
CONSULTANTS

YGC

PERSONA
ASSOCIATES

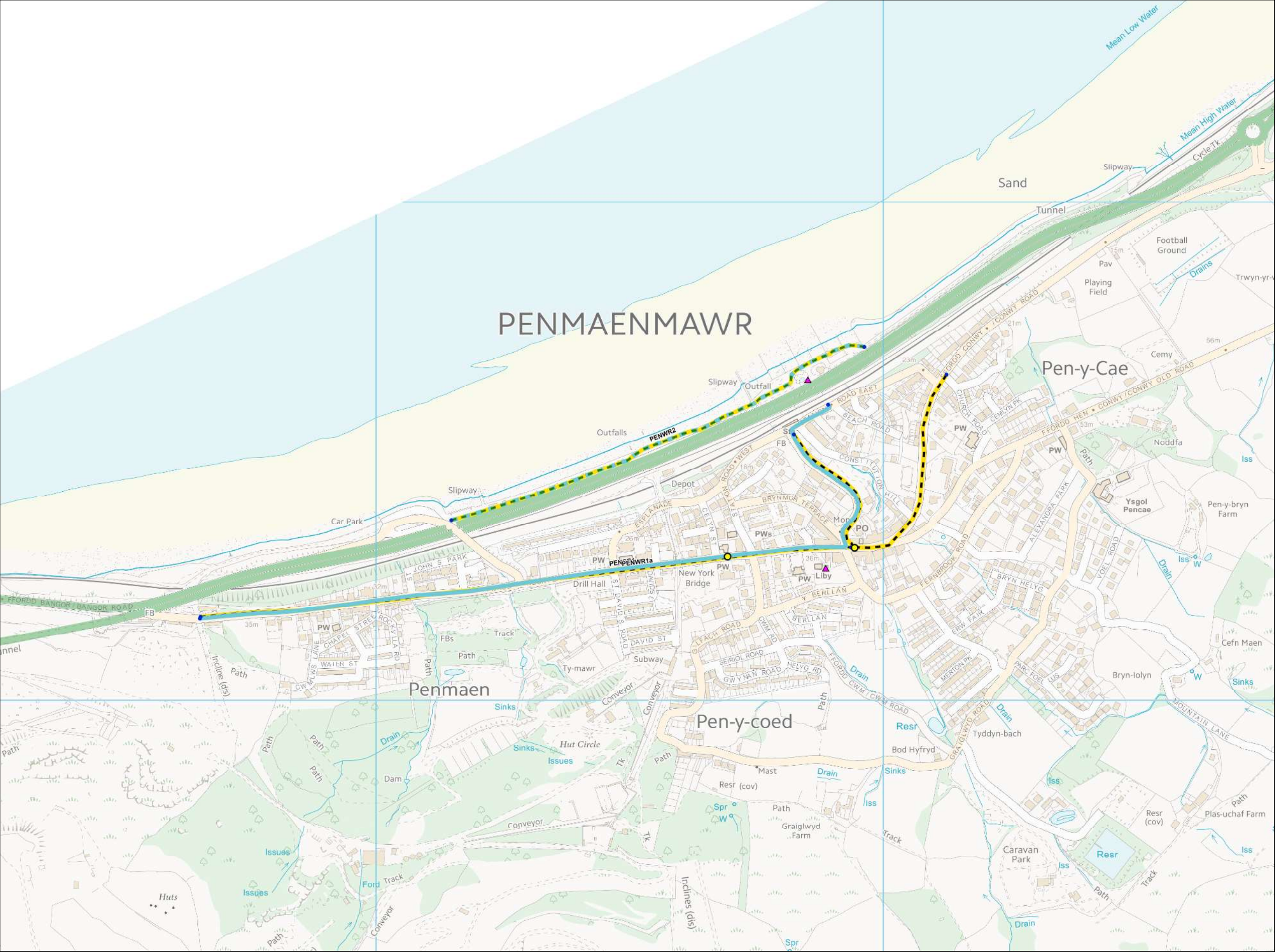
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TRIP GENERATORS

Project No:	1620000620	Scale (@A1):	1:12000	Drawn:	JW	Date:	DEC 18
Drawing No:	RAM-ZZ-ZK-SJ-3001					Rev:	P01

19/07/2019 12:12:22



Legend / Eglurhad

Active Travel Route / Llwybr Teithio Llesol

Undefined path design / Dyluniad llwybr heb ei ddiffinio

Footpath (away from road) / Llwybr troed (i ffwrdd o'r ffordd)

Footway (alongside road) / Troedffordd (ochr yn ochr â ffordd)

Cycle track (away from road) / Trac beicio (i ffwrdd o'r ffordd)

Cycle track (alongside road) / Trac beicio (ochr yn ochr â ffordd)

Shared use foot/cycle path (away from road) / Llwybr cerdded/beicio a rennir (i ffwrdd o'r ffordd)

Shared use foot/cycle path (alongside road) / Llwybr cerdded/beicio a rennir (ochr yn ochr â ffordd)

Segregated foot/cycle path (away from road) / Llwybr cerdded/beicio wedi'i wahanu (i ffwrdd o'r ffordd)

Segregated foot/cycle path (alongside road) / Llwybr cerdded/beicio wedi'i wahanu (ochr yn ochr â ffordd)

Cycle route (on road, not segregated) / Lôn feicio (ar y ffordd, heb ei gwahanu)

Cycle lane (on road, segregated) / Lôn feicio (ar y ffordd, wedi'i gwahanu)

Pedestrian zone / Airdal cerdded

Pedestrian and cycle zone / Airdal cerdded a beicio

Road without footway / Ffordd heb droedffordd

Line end points / Pwyntiau ddiwedd llinell

Advanced Stop Lines / Llinellau Stopio Blaen

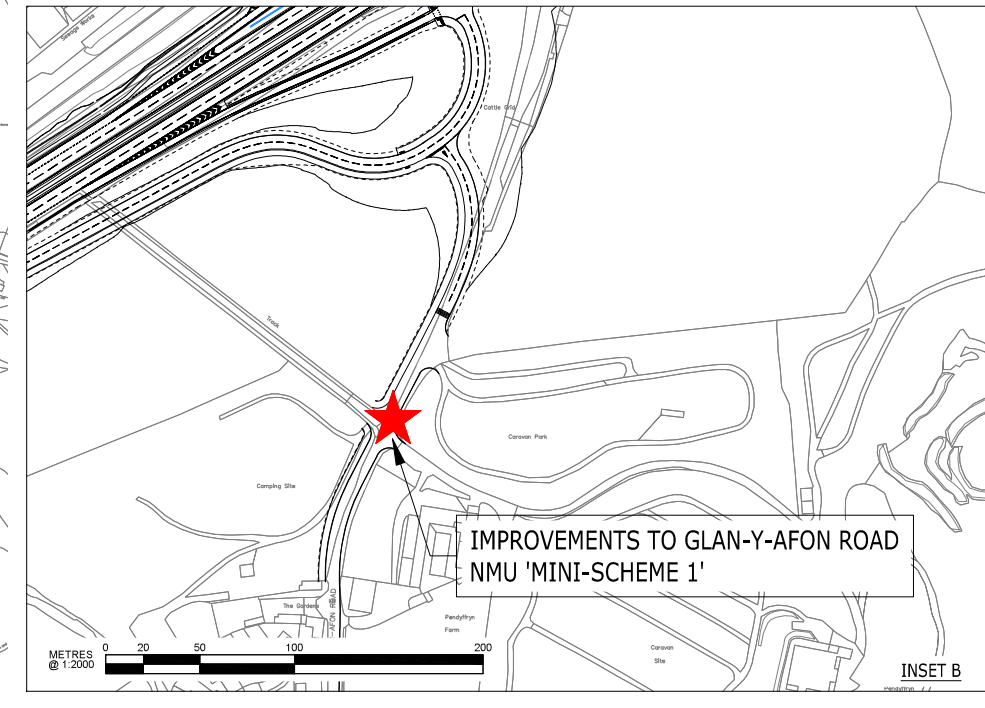
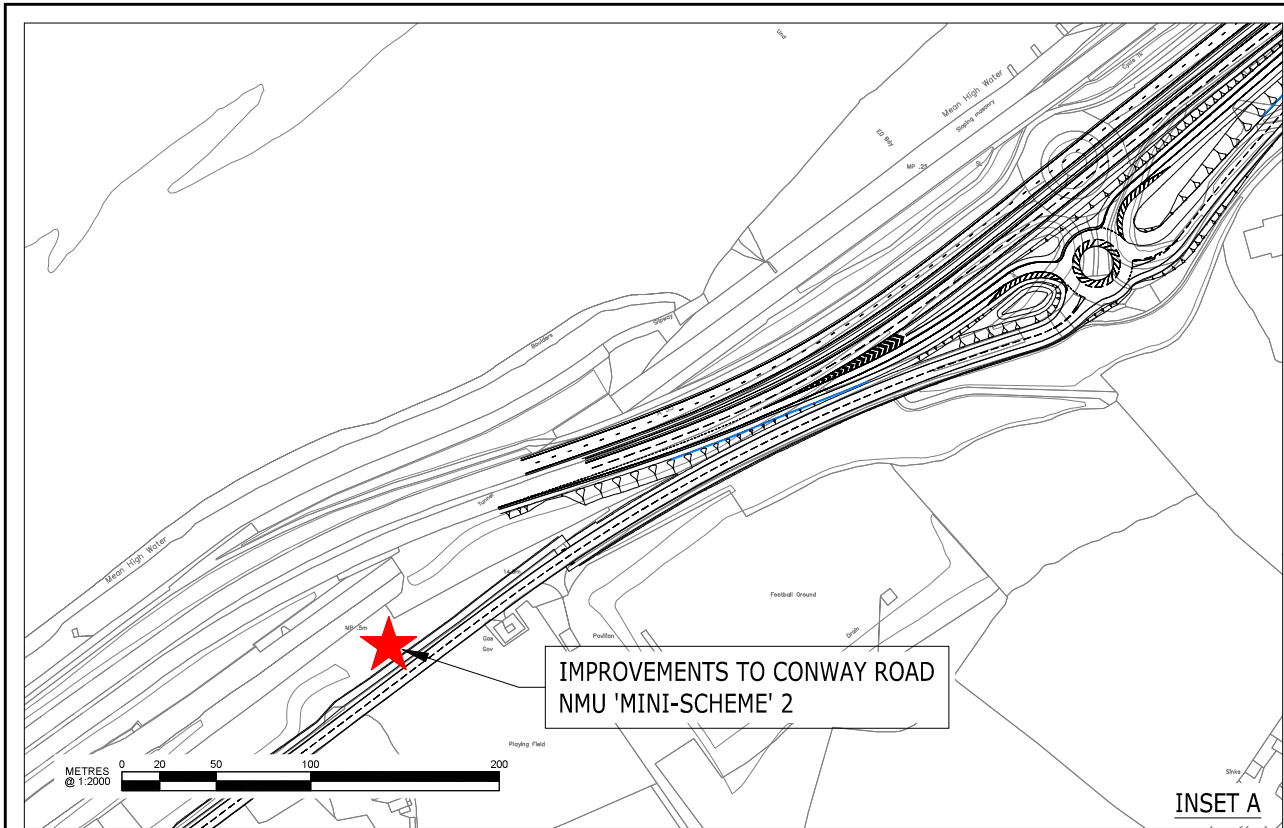
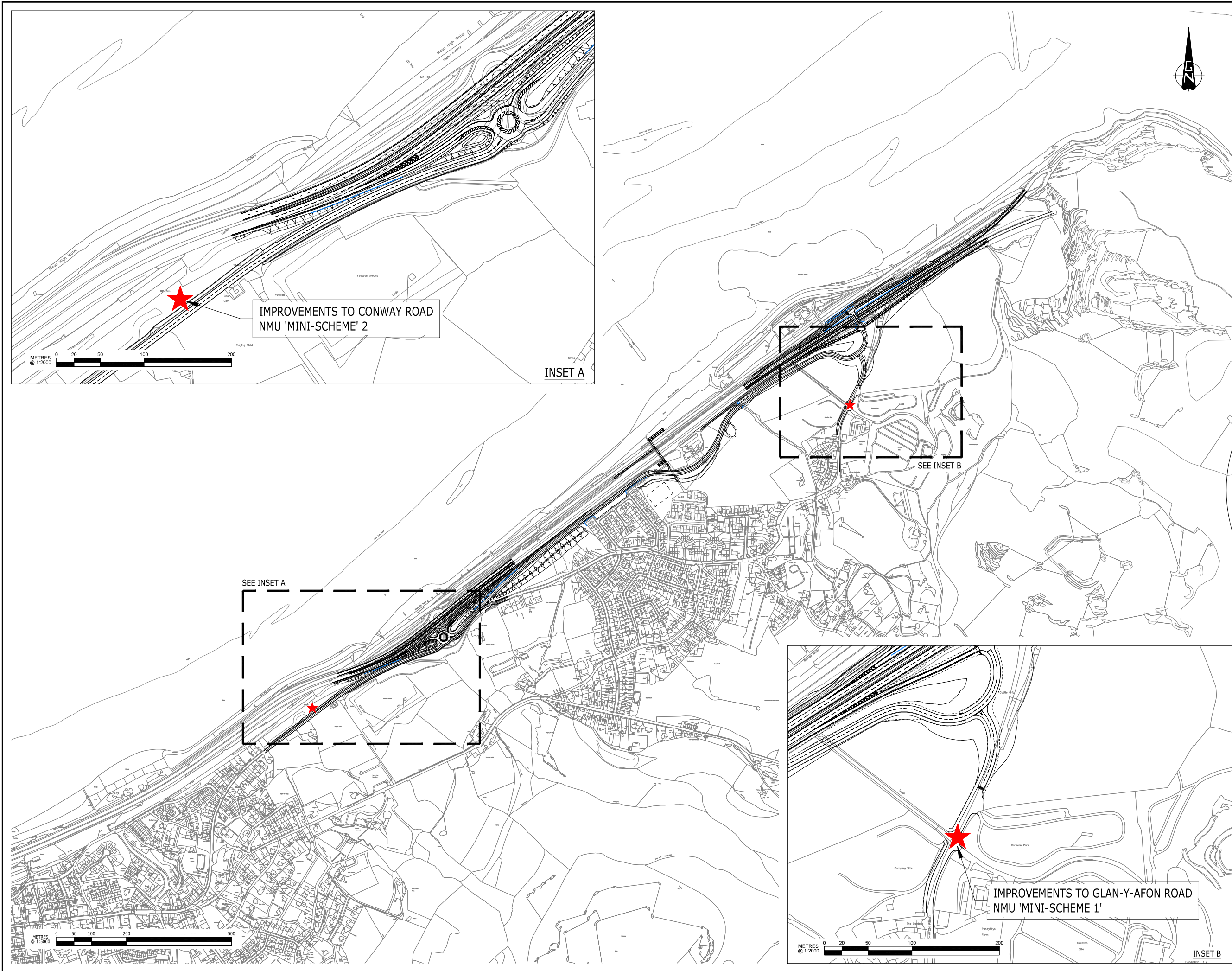
Crossings / Croesfannau

Related Facilities / Cyfleusterau Cysylltiedig

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Llywodraeth Cymru
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13 May 2016 09:46 AM



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Notes

- DO NOT SCALE FROM THIS DRAWING.
- ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
- ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM U.N.O.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

102	LAYOUT UPDATED	15.12.2020	DB	NE
101	FOR INFORMATION	29.10.2019	DB	NE
Rev	Description	Date	By	App
			CHG	

INFORMATION

A55 JUNCTION 15 & 16 IMPROVEMENTS

Llywodraeth Cymru
Welsh Government

RML IYGC
Gateley / HAMER

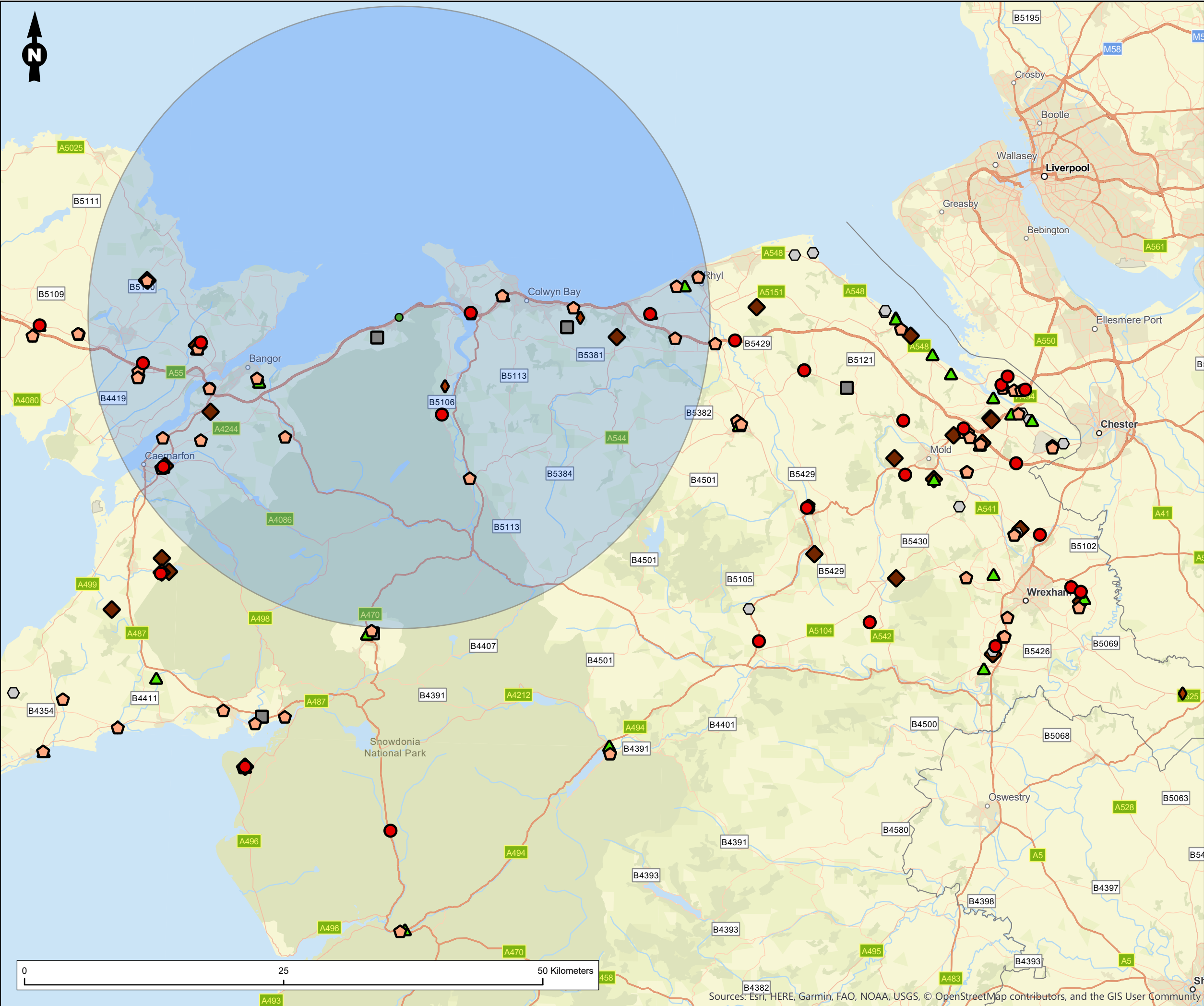
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JUNCTION 16 NMU MINI SCHEMES

Project No:	Scale (BA1):	Drawn:	Date:
1620000620	AS SHOWN	DB	OCT 19
Drawing No:		Rev:	
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ES Chapter 15 Figures	
15.3	Waste Management Facilities in North Wales for J16
15.4	Safeguarded Hard Rock Areas (J16)
15.5	Quarry Buffer Zone (J16)
15.6	Safeguarded Sand and Gravel Areas (J16)



- Legend**
- LL34 GPS Buffer Point
 - J16 Treatment Facilities 30km
 - ⬠ J16 Transfer Stations 30km
 - ▲ J16 Recycling Centres 30km
 - ◆ J16 Open Windrows In vessel Compost 30km
 - J16 Mining Extractive Facilities 30km
 - ⬡ J16 Metal Recycling Facilities 30km
 - ◆ J16 Landfills
 - ⛶ J16 Hazard Waste Trans Stations
 - ⬢ LL34 GPS 30km Buffer





Figure Title
Waste Management Facilities in North Wales for J16

Project Name
A55 Junction 15 and 16

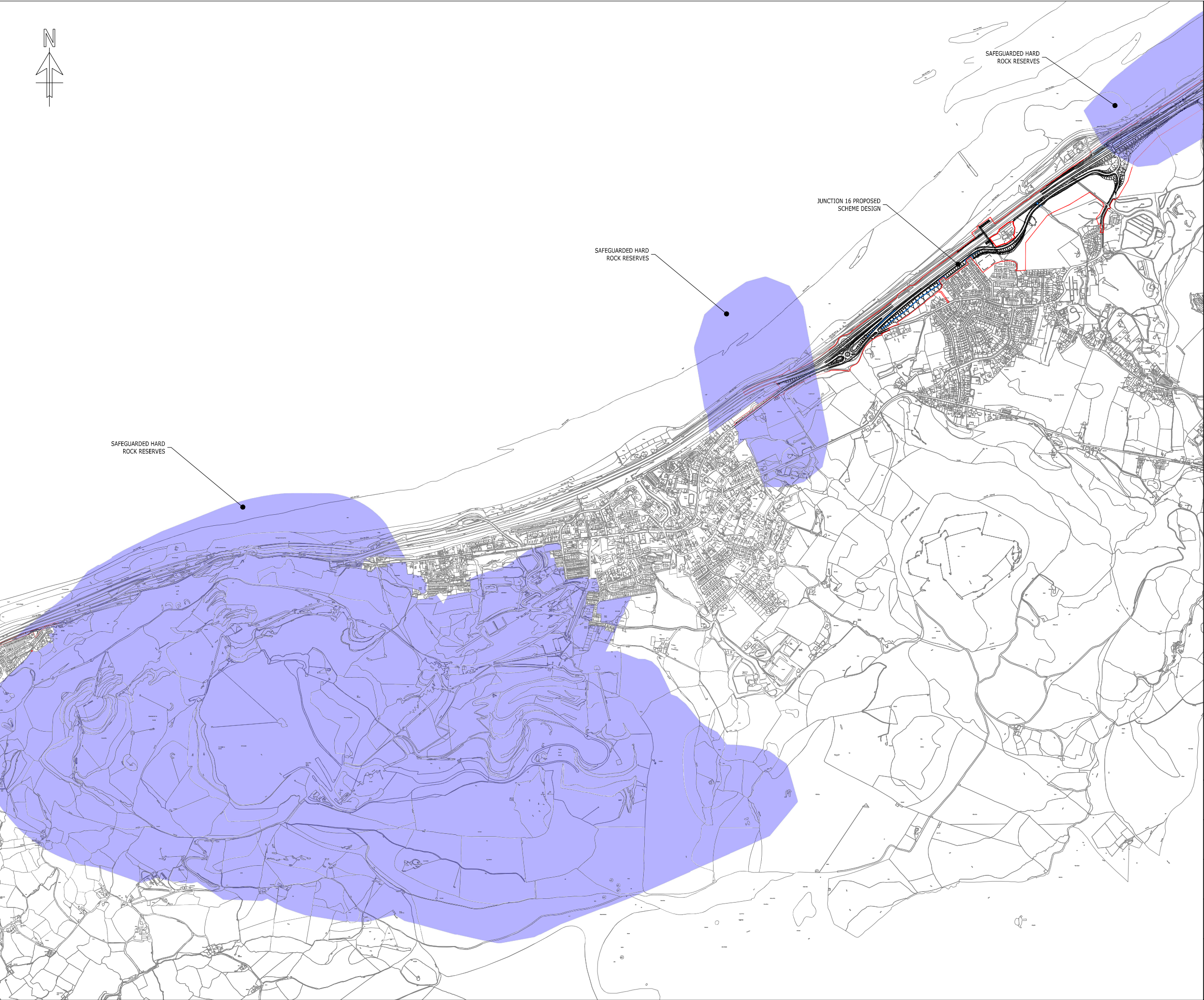
Project Number A55J15J16-RML-30-ZZ (162000620)	Figure No. 15.3
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Date November 2019	Prepared By RR/LB
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Scale 1:350,000 @A3	Issue 1
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1. BUFFER ZONES AND SAFEGUARDED AREAS HAVE BEEN DIGITISED FROM THE CONWY LOCAL DEVELOPMENT PLAN.

KEY	
—	RED LINE BOUNDARY
	SAFEGUARDED HARD ROCK RESERVES

Figure Title
Figure 15.4
Safeguarded Hard Rock Areas (J16)

Project Name
A55 Junction 15 and 16

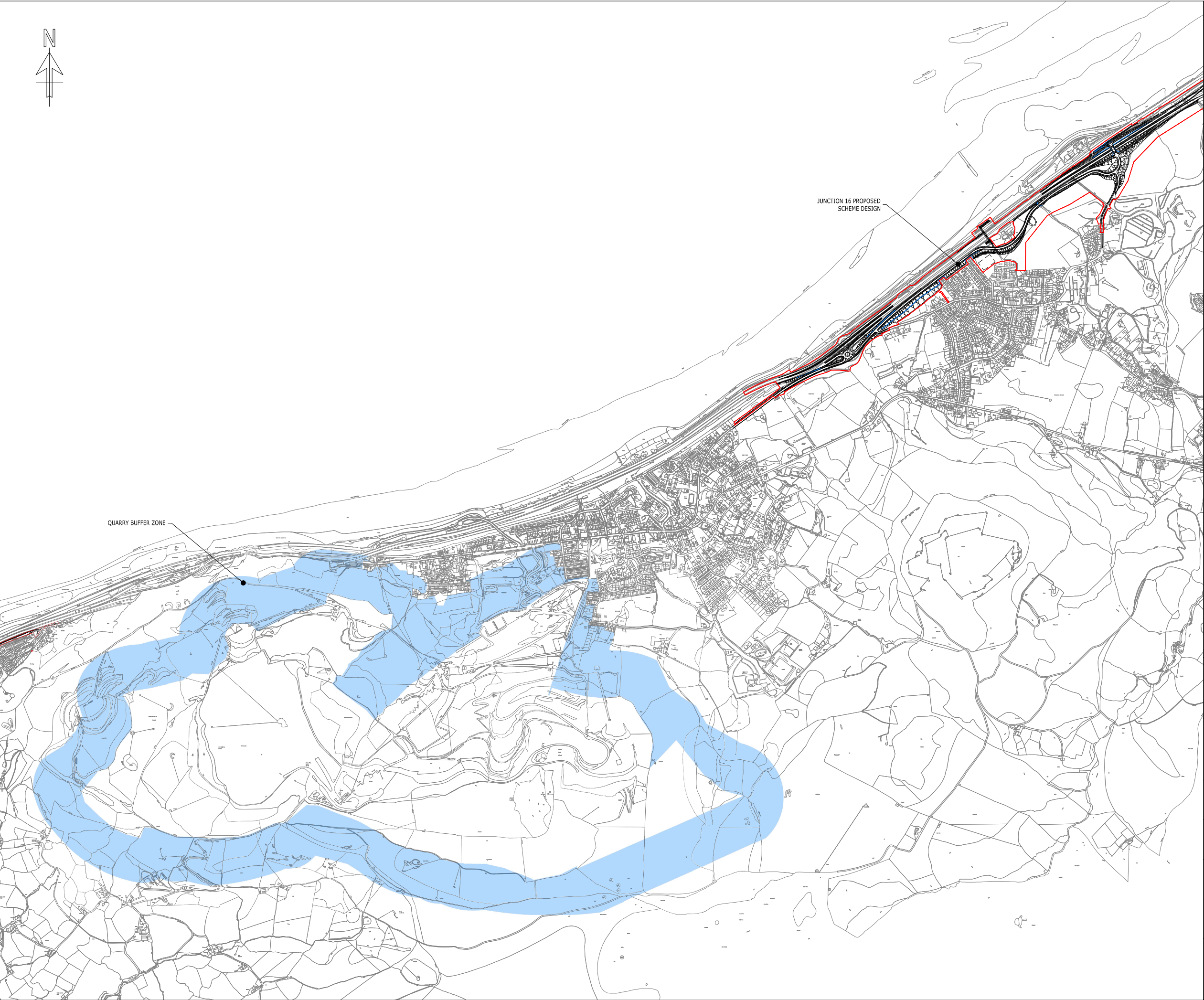
Project Number 162000620	Figure No. 15.4
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January 2021	Prepared By DB
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Not to Scale	Issue 2
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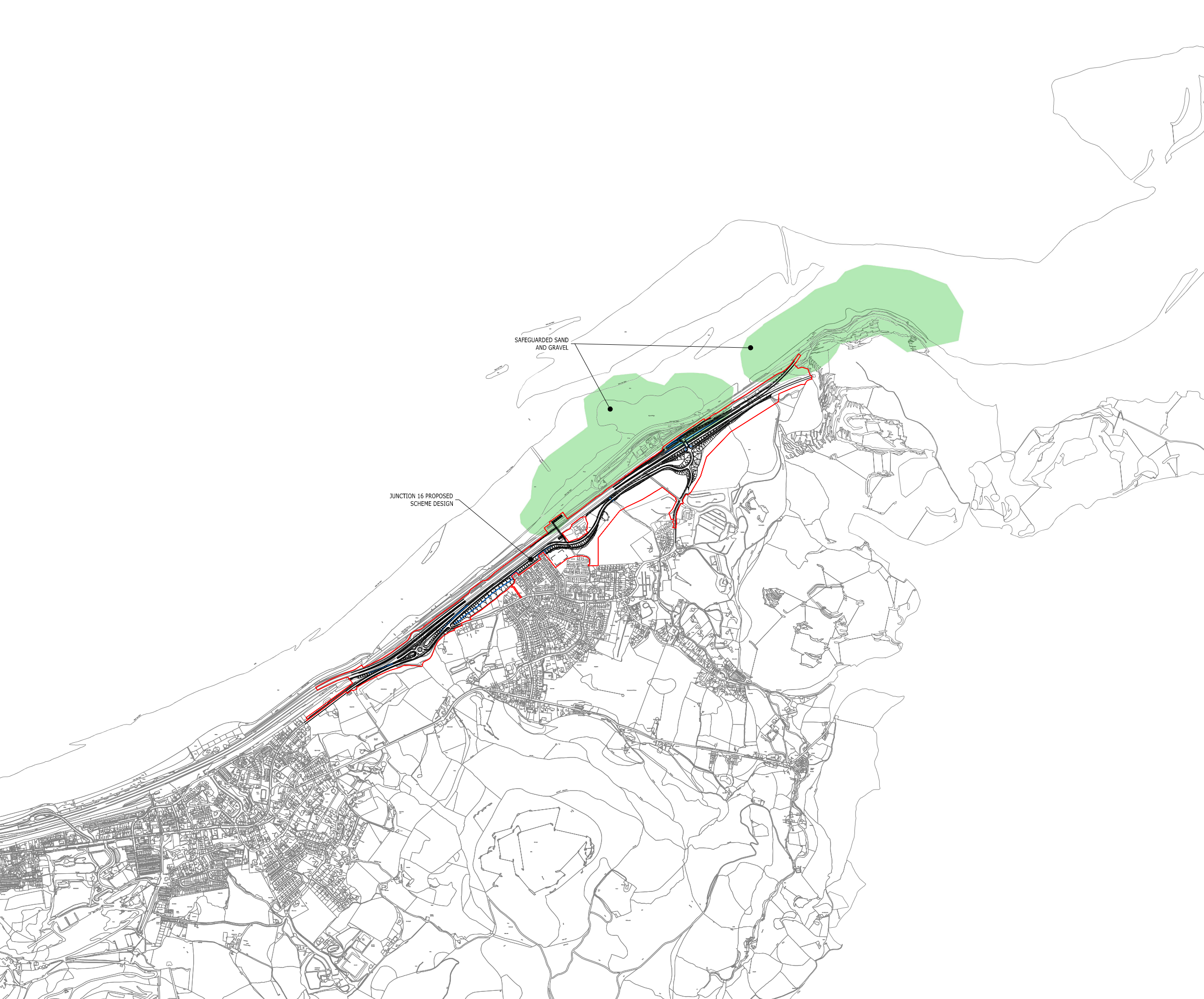


1. BUFFER ZONES AND SAFEGUARDED AREAS HAVE BEEN DIGITISED FROM THE CONWY LOCAL DEVELOPMENT PLAN.

KEY

- RED LINE BOUNDARY
- QUARRY BUFFER ZONE

Figure Title	
Figure 15.5	
Quarry Buffer Zone (J16)	
Project Name	
A55 Junction 15 and 16	
Project Number	Figure No.
162000620	15.5
January 2021	Prepared By
	DB
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1. BUFFER ZONES AND SAFEGUARDED AREAS HAVE BEEN DIGITISED FROM THE CONWY LOCAL DEVELOPMENT PLAN.

KEY

RED LINE BOUNDARY

SAFEGUARDED SAND & GRAVEL

Figure Title
Figure 15.6
Safeguarded Sand & Gravel Areas (J16)

Project Name
A55 Junction 15 and 16

Project Number 162000620	Figure No. 15.6
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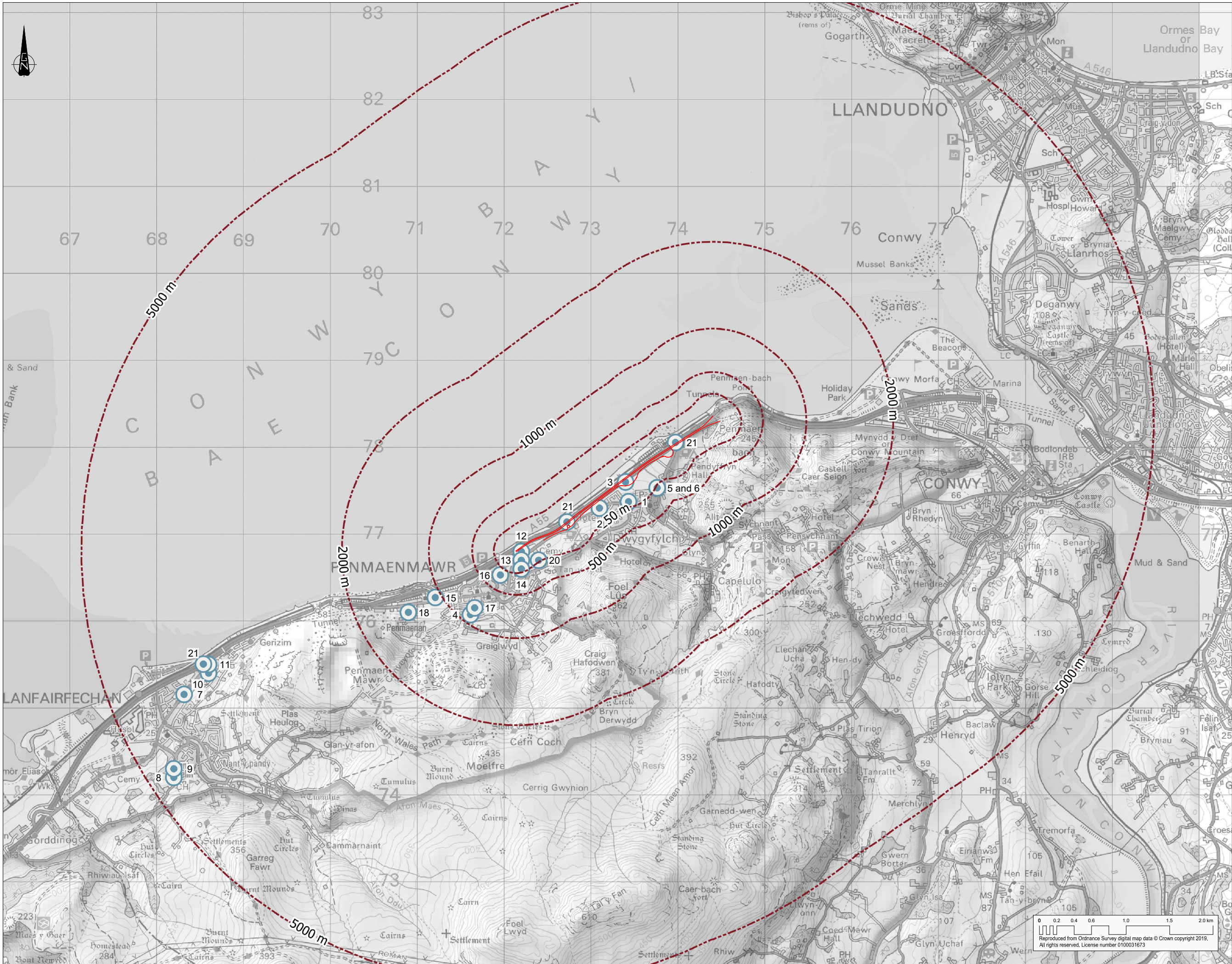
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ES Chapter 19 Figures	
19.1	Planning Applications and Allocated Sites
19.2	Short-Listed Development Sites



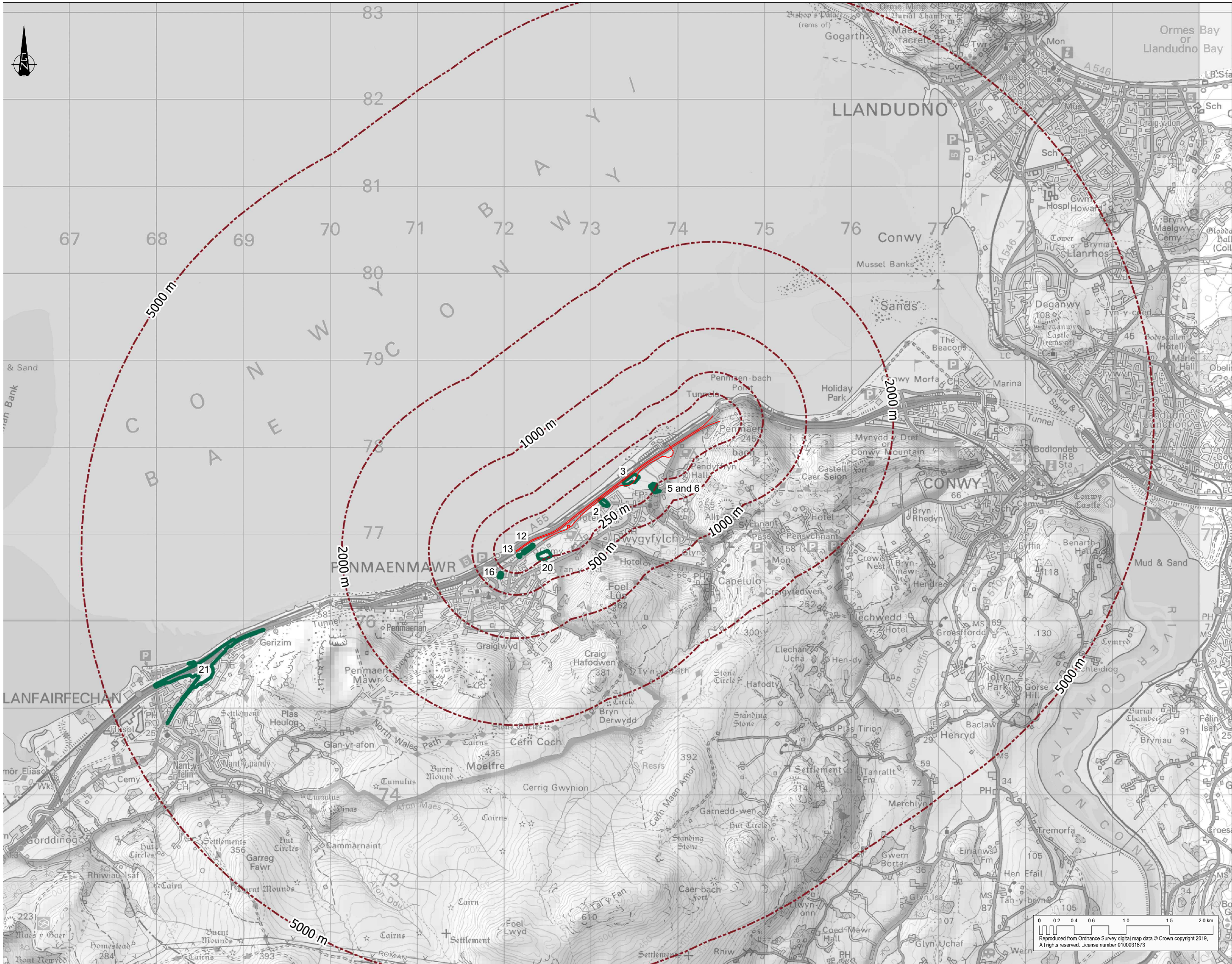
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- Notes
- Legend
- Carriageway Alignment
 - Fixed Distance Buffer
 - Matrix 1 Site
- Land north of Groesffordd
 - LDP land allocation 53
 - LDP land allocation MS9
 - Penmaen Quarry
 - Phase 1 Housing
 - Phase 2 Housing
 - LDP land allocation 31
 - LDP land allocation K429
 - LDP land allocation 521
 - LDP housing contingency
 - Land adjacent to Fernbank
 - LDP housing contingency
 - Land at Cambrian Court/Dyffryn
 - Land at Cemlyn Park
 - Red Gables and St John's Park
 - Pennant Hall Bach
 - Land off Bangor Road
 - Salem Chapel
 - Aber Distillery
 - LDP allocation for burial ground
 - A55 Junction 15 Improvement

A55 JUNCTION 15 & 16 IMPROVEMENTS



JUNCTION 16 FIGURE 19.1 PLANNING APPLICATIONS AND ALLOCATED SITES			
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Notes

Legend

- Carriageway Alignment
- Fixed Distance Buffer
- Matrix 2 Site

- 2. LDP land allocation 53
- 3. LDP land allocation MS9
- 5. Phase 1 Housing
- 6. Phase 2 Housing
- 12. LDP housing contingency
- 13. Land at Cambrian Court/Dyffryn
- 16. Pennant Hall Bach
- 20. LDP allocation for burial ground
- 21. A55 Junction 15 Improvement

A55 JUNCTION 15 & 16 IMPROVEMENTS



tel 01244 311855 chester@ramboll.co.uk
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JUNCTION 16
FIGURE 19.2
SHORT-LISTED
DEVELOPMENT SITES

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Drawing No:		Rev:	
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