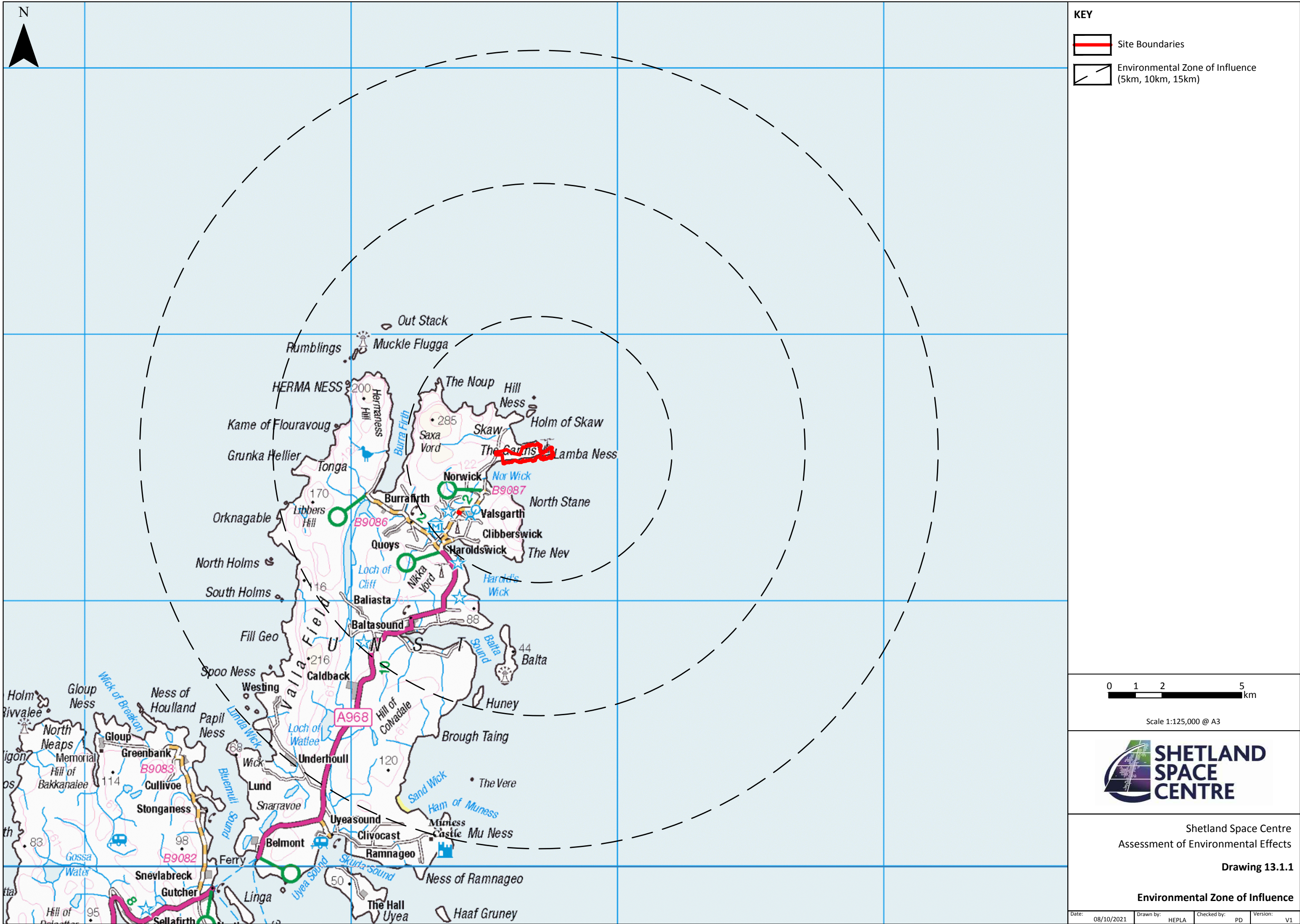


## Chapter 13 Drawing 13.1.1 LVIA Study Area

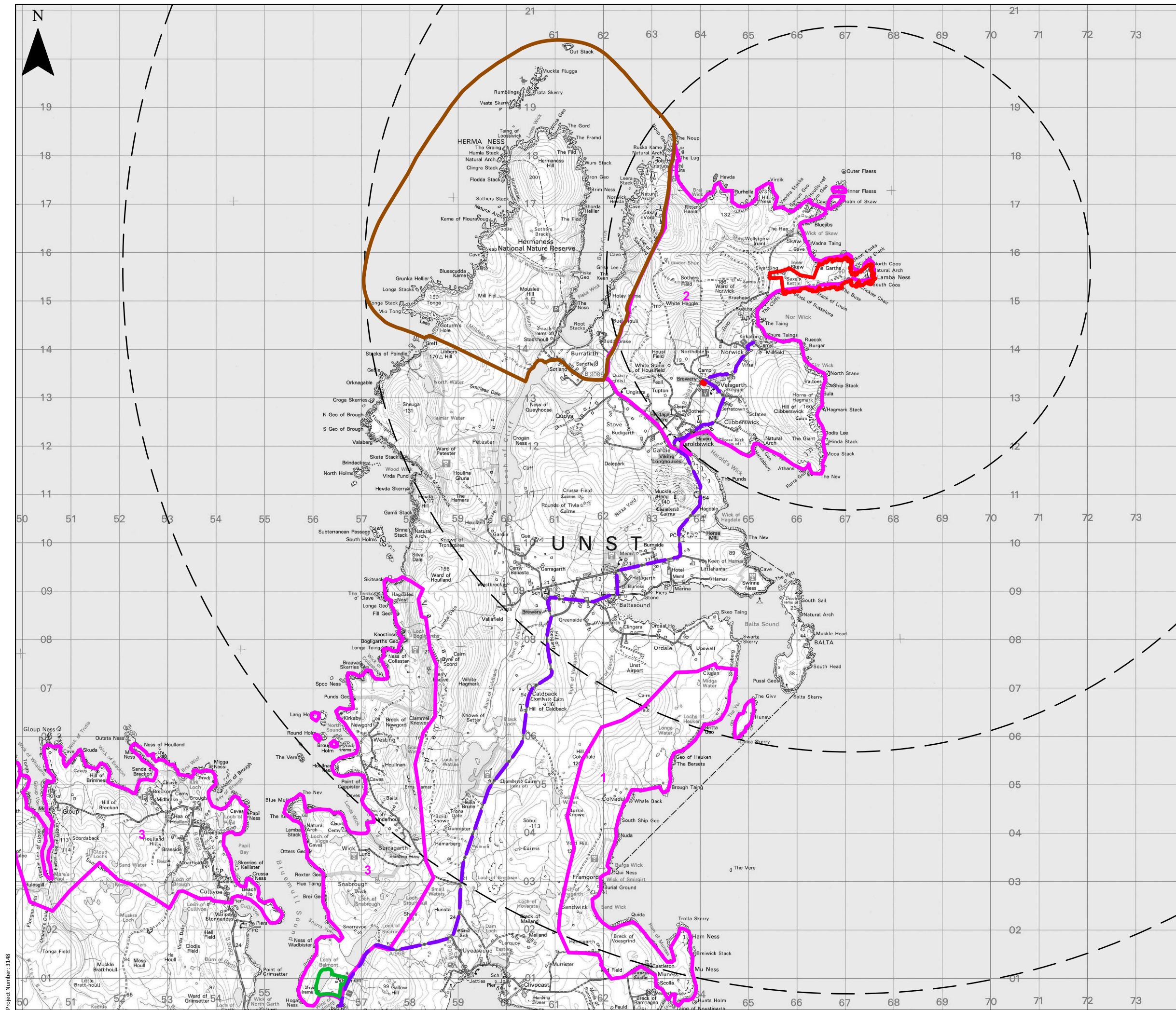






## Chapter 13 Drawing 13.1.2 Landscape Designations

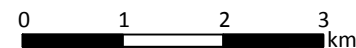




# KEY

- Site Boundaries
- Environmental Zone of Influence (5km, 10km, 15km)
- Gardens and Designed Landscapes (Belmont House)
- National Scenic Areas (Herma Ness)
- National Cycle Route 1
- Local Landscape Areas

- Colvadale and Muness, Unst
- Haroldswick and Skaw
- Gloup Voe and Bluemull Sound



Scale 1:75,000 @ A3



Shetland Space Centre  
Assessment of Environmental Effects

**Drawing 13.1.2**  
**Landscape Designations Plan**  
**(and National Cycle Network Routes)**

Date: 08/10/2021 Drawn by: HEPLA Checked by: PD Version: V1



## Chapter 13 Drawing 13.1.3 Landscape / Coastal / Seascape Character Areas





Viewpoint 1.3 - Existing View (90°)



Viewpoint 1.3 - Predicted Photomontage View (90°)

**Viewpoint 1.3 Information:**  
**The Garths, Lamba Ness**  
Grid Reference: 465405, 1215187  
Bearing to Site: 80°  
Distance to Site: 320m  
Camera Make: Canon EOS 5D Mk II  
Camera Lens: 50mm  
Date: 27/07/2020  
Time: 11:45

**Viewing Instructions:**  
View flat at a comfortable arms length



Shetland Space Centre  
Assessment of Environmental Effects

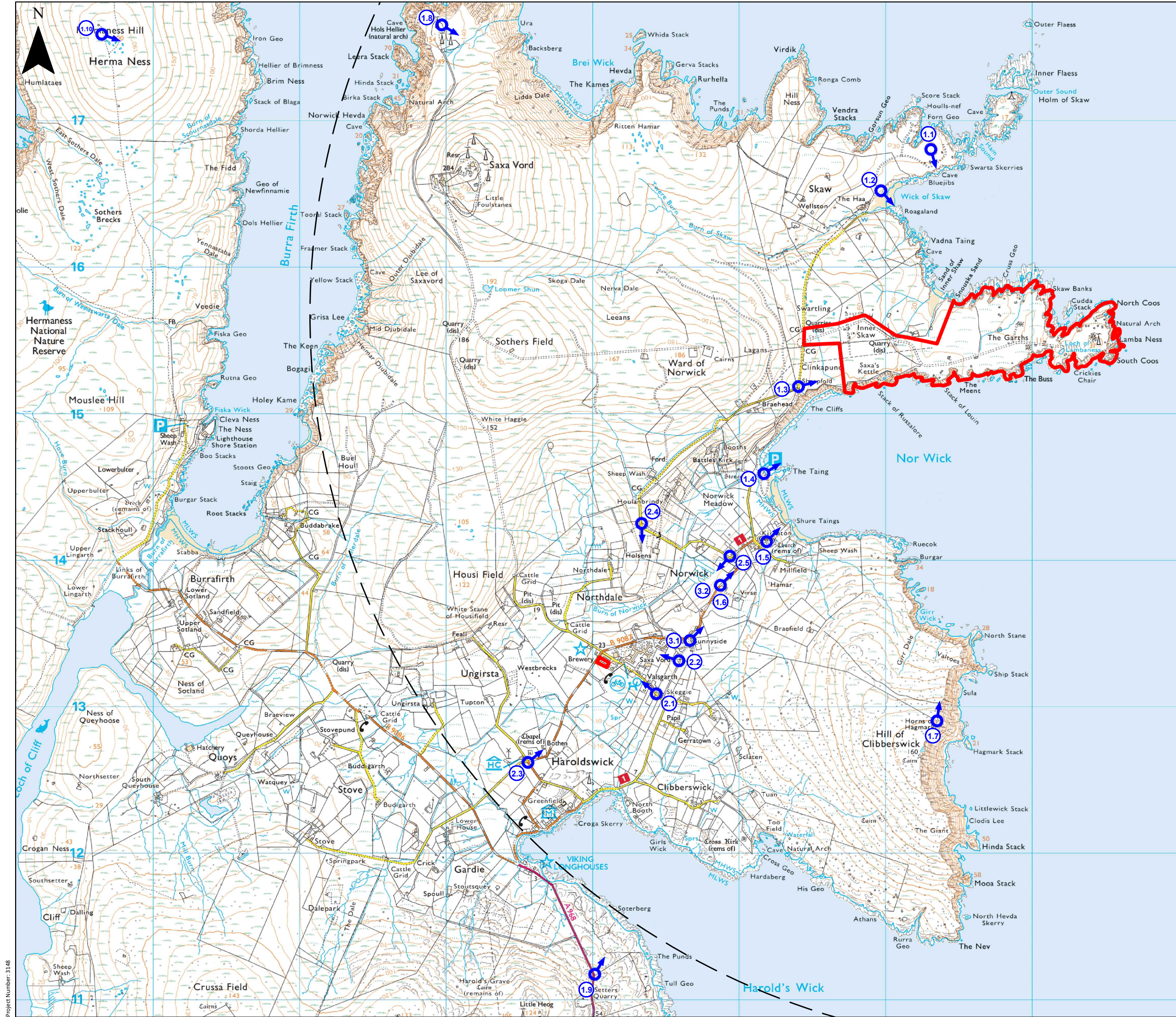
**Drawing 13.3.1.3**  
**Viewpoint 1.3**  
**The Garths, Lamba Ness**

Date: 08/10/2021	Drawn by: HEPLA	Checked by: PD	Version: V1
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## Chapter 13 Drawing 13.1.4 Viewpoint Location Plan





**KEY**

Site Boundaries

Viewpoint Locations

**Launch facility at Lamba Ness**

1.1

Bluejibs above the Wick of Skaw

1.2

The Haa, Wick of Skaw

1.3

The Garths, Lamba Ness

1.4

Car park at The Taing, Norwick

1.5

The cemetery, Norwick

1.6

B9087, Norwick

1.7

Hill of Clibberswick

1.8

Headland to the North of Saxa Vord Radar Station

1.9

Lay by on A968 above Harold's Wick

1.10

Hermaness Hill

**Two-storey command and control building at Saxa Vord resort including replacement accommodation buildings**

2.1

Minor road at Valsgarth

2.2

Methodist Church, Valsgard / Saxa Vord

2.3

B9087 adjacent to Unst Heritage Centre, Haroldswick

2.4

Minor road at Houlanbrindy

2.5

Minor road, Norwick

**Night time lighting**

3.1

Skulhus

3.2

Virse

0

0.5

1

km

Scale 1:25,000 @ A3

**SHETLAND  
SPACE  
CENTRE**

Shetland Space Centre

Assessment of Environmental Effects

**Drawing 13.1.4**

**Viewpoint Location Plan**

Date:

08/10/2021

Drawn by:

HEPLA

Checked by:

PD

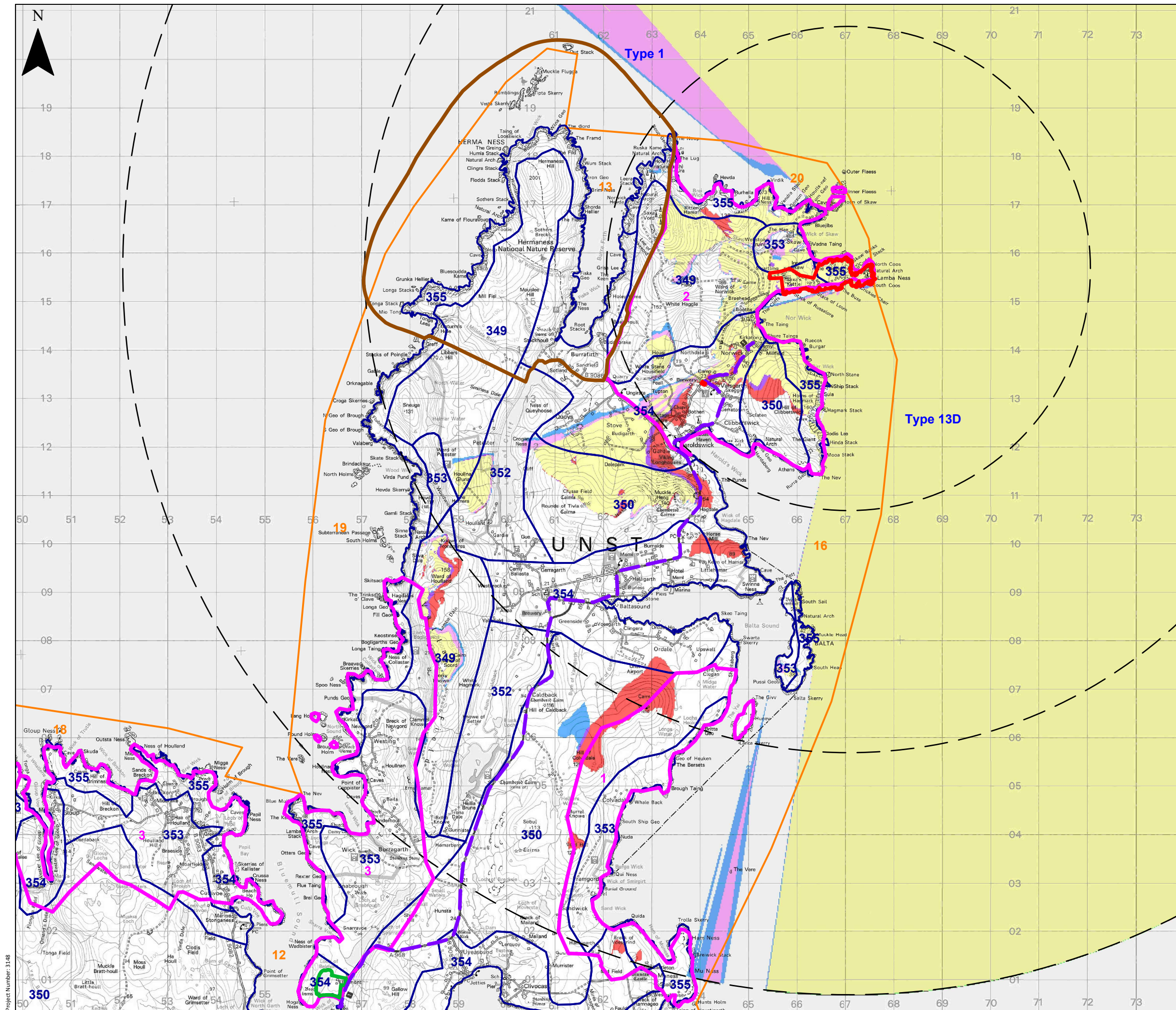
Version:

V1



## Chapter 13 Drawing 13.2.1a ZTV: Launch Site Infrastructure - Erected





# KEY

- Site Boundaries
- Environmental Zone of Influence (5km, 10km, 15km)
- Landscape Character Areas

- 349. Major Uplands
- 350. Peatland and Moorland
- 352. Inland Valleys
- 353. Farmed and Settled Lowlands and Coast
- 354. Farmed and Settled Voes and Sounds
- 355. Coastal Edge

- Coastal Character Areas

- 12. Bluemull Sound
- 13. Burrafirth
- 16. East Unst
- 18. Gloop-Breckon
- 19. Hermaness
- 20. Skaw

- Type Seascapes Character Areas

- 1. Remote High Cliffs
- 13D. Islands, Sounds and Voes

## Landscape Designations

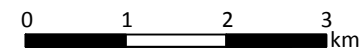
- Gardens and Designed Landscapes (Belmont House)
- National Scenic Areas (Hermaness)
- National Cycle Route 1
- Local Landscape Areas

- 1. Colvadale and Muness, Unst
- 2. Haroldswick and Skaw
- 3. Gloop Voe and Bluemull Sound

## Visibility of Site

- Visibility of baseline built form only
- Visibility of lightning masts only
- Combined visibility of baseline built form and lightning masts
- Combined visibility of lightning masts and rocket launch sites
- Combined visibility of baseline built form, lightning masts and rocket launch sites

NOTES: Calculated using Earth's curvature (radius 6360km) and atmospheric refraction coefficient of 0.075.  
Terrain data is derived from OS Terrain 5 gridded height data.  
ZTV calculation does not take into account any surface features such as trees and buildings.  
Lightning mast height - 46m / Rocket height - 36m  
ZTV view height - 2m  
ZTV calculation resolution - 20m



Scale 1:75,000 @ A3



Shetland Space Centre  
Assessment of Environmental Effects

Drawing 13.2.1a

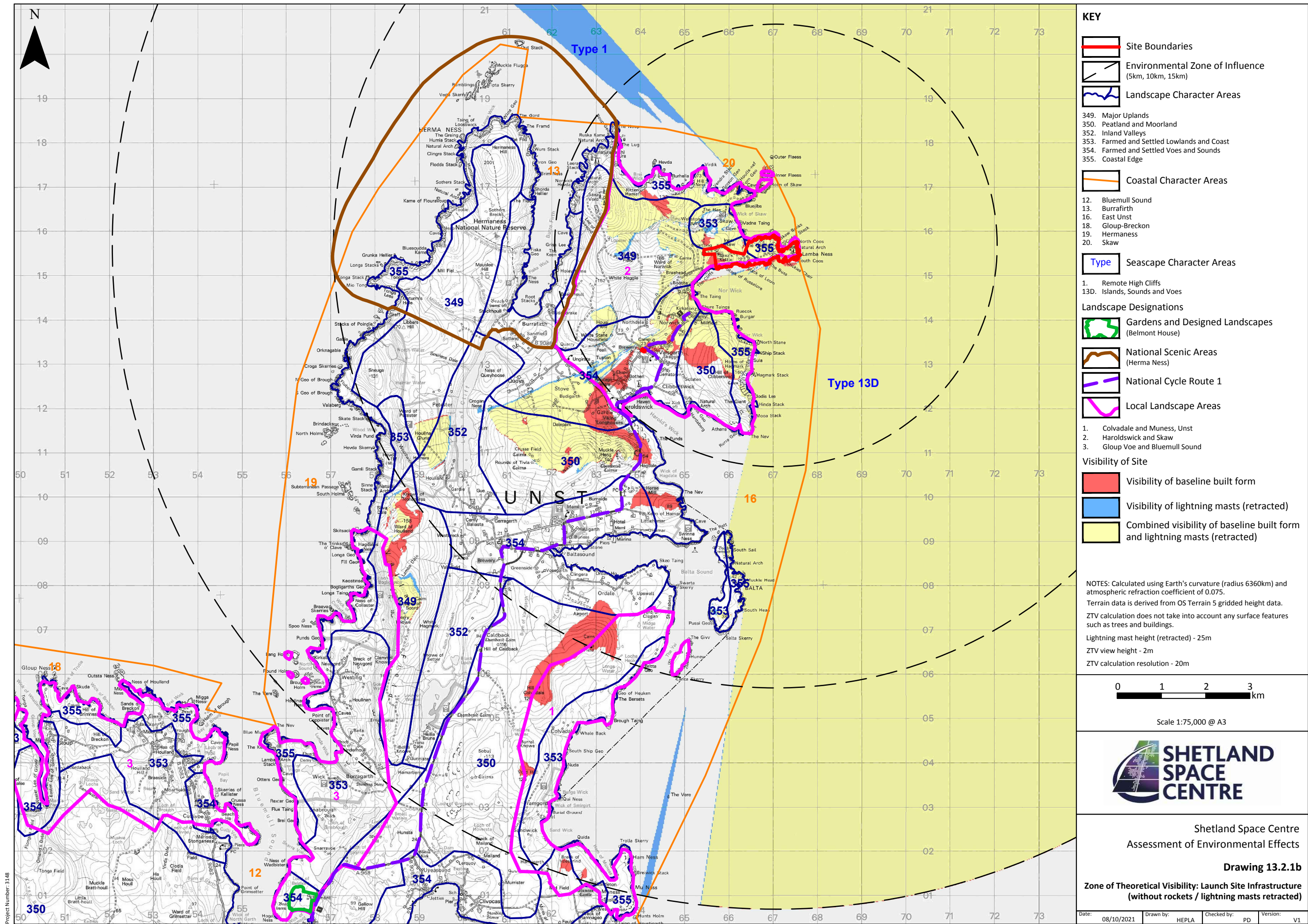
Zone of Theoretical Visibility: Launch Site Infrastructure including rockets and erected lightning masts

Date: 08/10/2021 Drawn by: HEPLA Checked by: PD Version: V1



## Chapter 13 Drawing 13.2.1b ZTV: Launch Site Infrastructure - Retracted







## Chapter 13 Drawing 13.3.1.1 Viewpoint 1.1 – Bluejibs above the Wick of Skaw





Viewpoint 1.1 - Existing View (90°)



Viewpoint 1.1 - Predicted Photomontage View (90°)

**Viewpoint 1.1 Information:**  
**Bluejibs above the Wick of Skaw**  
Grid Reference: 466309, 1216806  
Bearing to Site: 140°  
Distance to Site: 1.1km  
Camera Make: Canon EOS 5D Mk II  
Camera Lens: 50mm  
Date: 27/07/2020  
Time: 13:14

**Viewing Instructions:**  
View flat at a comfortable arms length



Shetland Space Centre  
Assessment of Environmental Effects

**Drawing 13.3.1.1**  
**Viewpoint 1.1**  
**Bluejibs above the Wick of Skaw**

Date: 08/10/2021	Drawn by: HEPLA	Checked by: PD	Version: V1
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## Chapter 13 Drawing 13.3.1.2 Viewpoint 1.2 – The Haa, Wick of Skaw





Viewpoint 1.2 - Existing View (90°)



Viewpoint 1.2 - Predicted Photomontage View (90°)

**Viewpoint 1.2 Information:**  
**The Haa, Wick of Skaw**  
Grid Reference: 465968, 1216524  
Bearing to Site: 125°  
Distance to Site: 860m  
Camera Make: Canon EOS 5D Mk II  
Camera Lens: 50mm  
Date: 27/07/2020  
Time: 12:53

**Viewing Instructions:**  
View flat at a comfortable arms length



Shetland Space Centre  
Assessment of Environmental Effects

**Drawing 13.3.1.2**  
**Viewpoint 1.2**  
**The Haa, Wick of Skaw**

Date: 08/10/2021	Drawn by: HEPLA	Checked by: PD	Version: V1
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## Chapter 13 Drawing 13.3.1.3 Viewpoint 1.3 – The Garths, Lamba Ness





Viewpoint 1.3 - Existing View (90°)



Viewpoint 1.3 - Predicted Photomontage View (90°)

**Viewpoint 1.3 Information:**  
**The Garths, Lamba Ness**  
Grid Reference: 465405, 1215187  
Bearing to Site: 80°  
Distance to Site: 320m  
Camera Make: Canon EOS 5D Mk II  
Camera Lens: 50mm  
Date: 27/07/2020  
Time: 11:45

**Viewing Instructions:**  
View flat at a comfortable arms length



Shetland Space Centre  
Assessment of Environmental Effects

**Drawing 13.3.1.3**  
**Viewpoint 1.3**  
**The Garths, Lamba Ness**

Date: 08/10/2021	Drawn by: HEPLA	Checked by: PD	Version: V1
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## Chapter 13 Drawing 13.3.1.4 Viewpoint 1.4 – Car Park at the Taing, Norwick





Viewpoint 1.4 - Existing View (90°)



Viewpoint 1.4 - Predicted Photomontage View (90°)

**Viewpoint 1.4 Information:**  
**Car Park at the Taing, Norwick**  
Grid Reference: 465172, 121459  
Bearing to Site: 60°  
Distance to Site: 800m  
Camera Make: Canon EOS 5D Mk II  
Camera Lens: 50mm  
Date: 27/07/2020  
Time: 11:15

**Viewing Instructions:**  
View flat at a comfortable arms length



Shetland Space Centre  
Assessment of Environmental Effects

**Drawing 13.3.1.4**  
**Viewpoint 1.4**  
**Car Park at the Taing, Norwick**

Date: 08/10/2021	Drawn by: HEPLA	Checked by: PD	Version: V1
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