CALEDONIA
Offshore Wind Farm

Code: UKCAL-CWF-CON-EIA-RPT-00007-7C06

Volume 7C Caledonia North Appendices

Appendix 12-2 Seascape, Landscape and Visual Impact Assessment Figures

Caledonia Offshore Wind Farm Ltd

5th Floor Atria One, 144 Morrison Street, Edinburgh, EH3 8EX

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Volume 7C Appendix 12-2 Seascape, Landscape and Visual Impact Assessment Figures

Code	UKCAL-CWF-CON-EIA-RPT-00007-7C06
Revision	Issued
Date	18 October 2024

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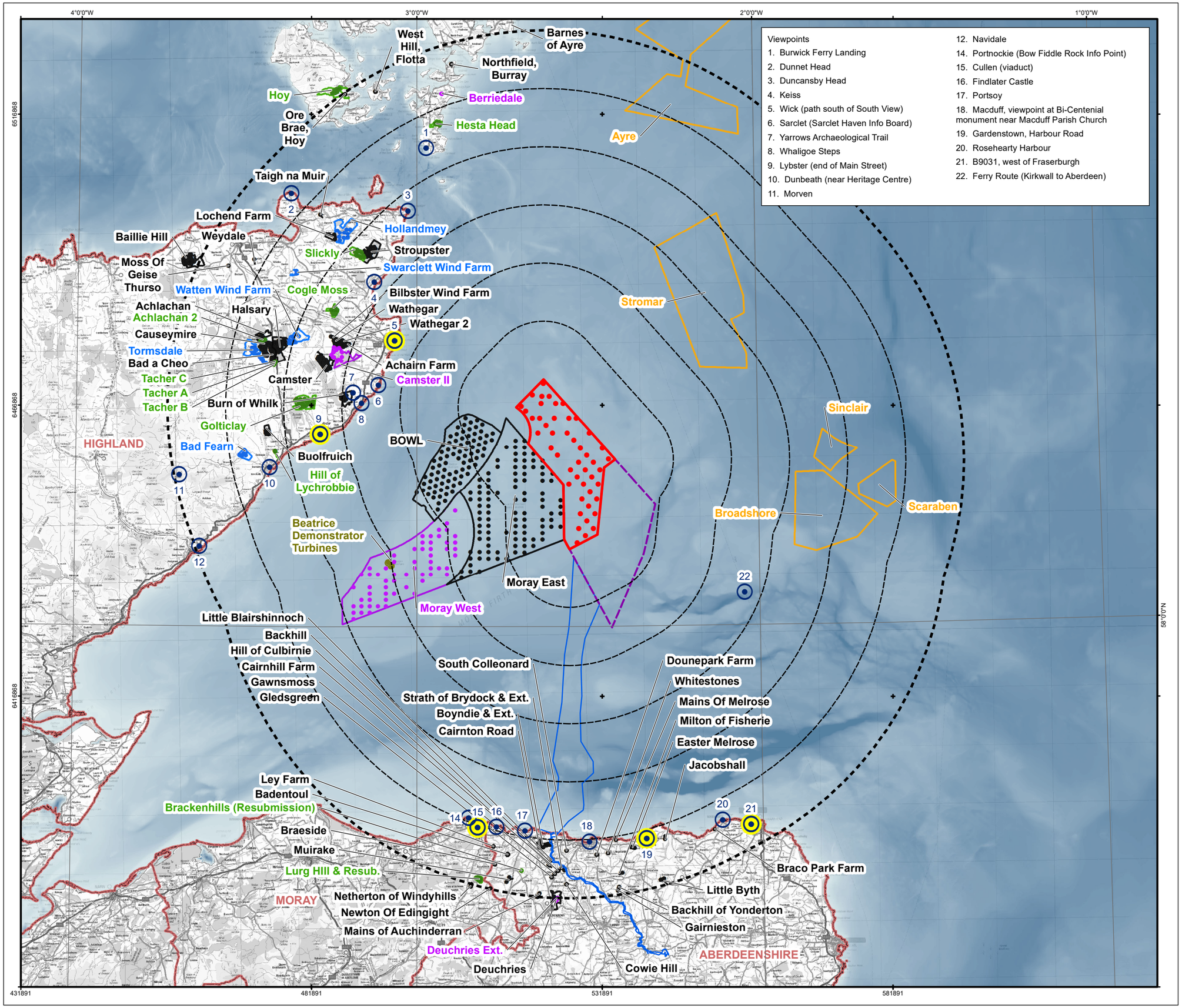
Acronyms and Abbreviations

BOWL	Beatrice Offshore Windfarm Limited
BTZTV	Blade Tip Zone of Theoretical Visibility
HHZTV	Hub Height Zone of Theoretical Visibility
OSP	Offshore Substation Platform
RCCA	Regional Coastal Character Area
SLVIA	Seascape, Landscape and Visual Impact Assessment
ZTV	Zone of Theoretical Visibility



Viewpoints

1. Burwick Ferry Landing
2. Dunnet Head
3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)
11. Morven
12. Navidale
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Local Authority Boundary

Cumulative Windfarms Status:

- Operational
- Under Construction
- Consented
- Appeal / Application
- Inactive / Decomissioned
- Operational
- Under Construction
- Consented
- Appeal / Application
- Scoping
- Inactive / Decomissioned

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GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
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Figure 12-6 Cumulative Wind Farms Caledonia North

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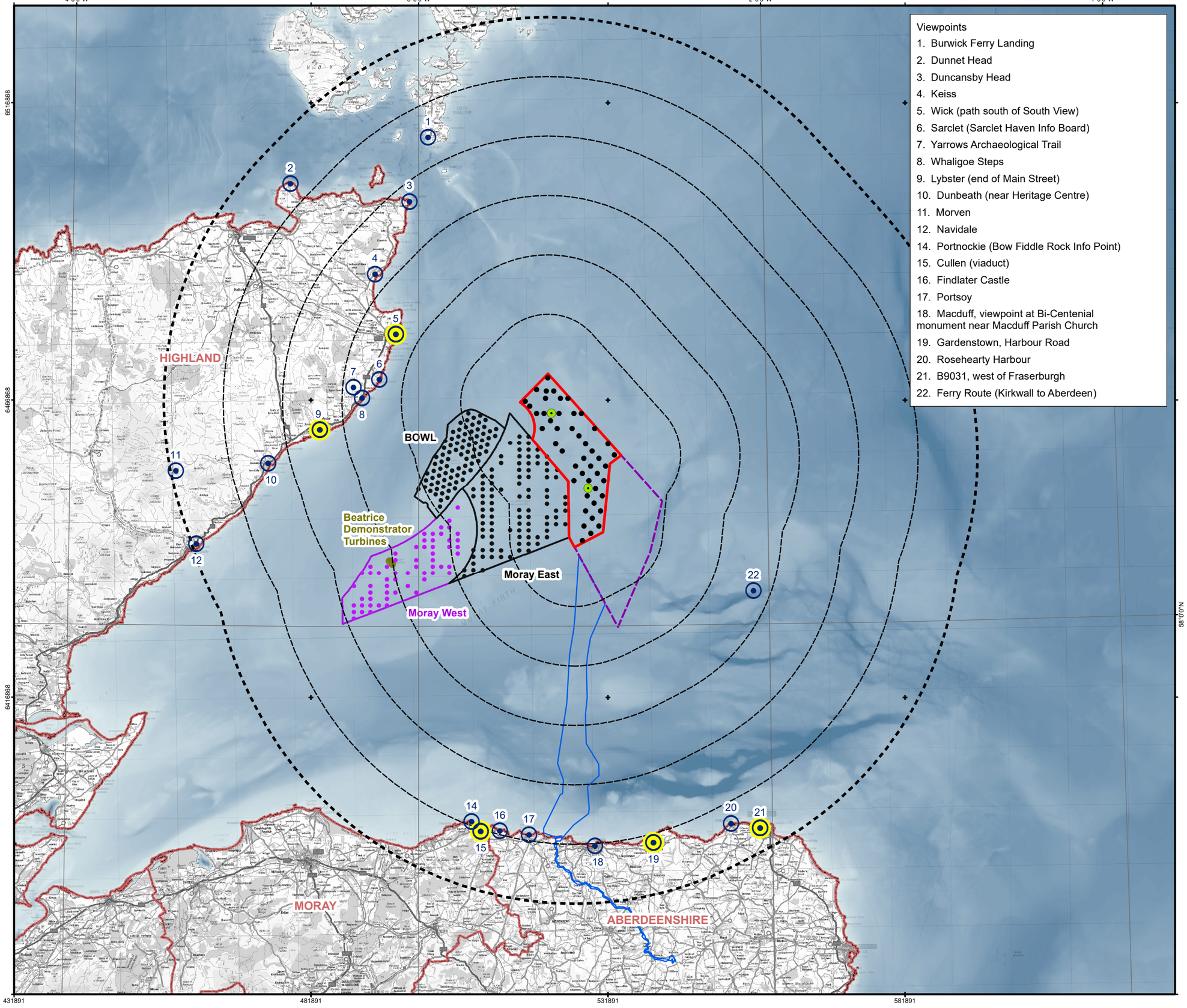

Viewpoints

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Figure 12-7
SLVIA Worst Case Scenario
Caledonia North

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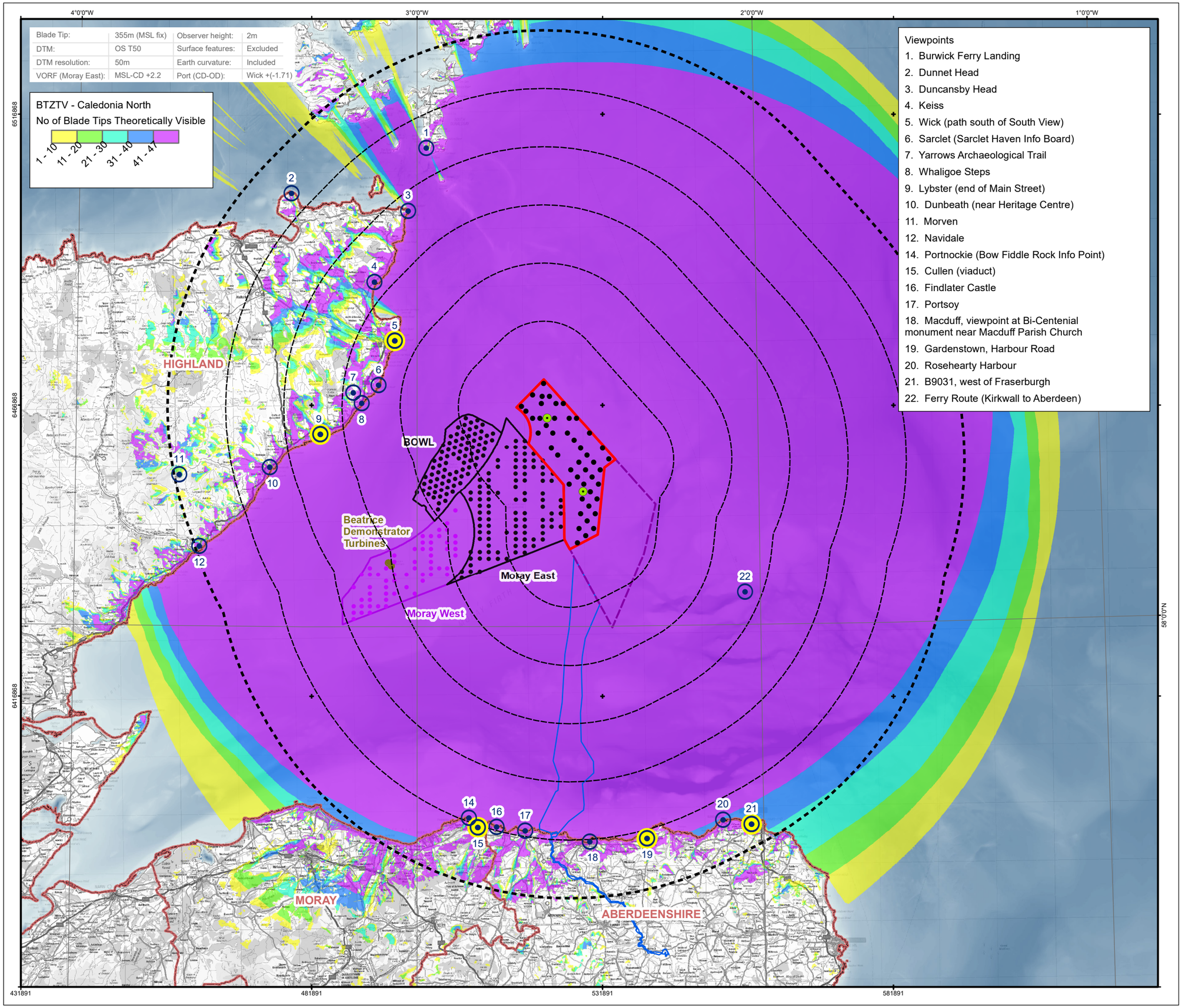
REV: N/A



Caledonia North Fixed

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- OSPs
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Figure 12-8
Blade Tip ZTV with Viewpoint Locations Caledonia North

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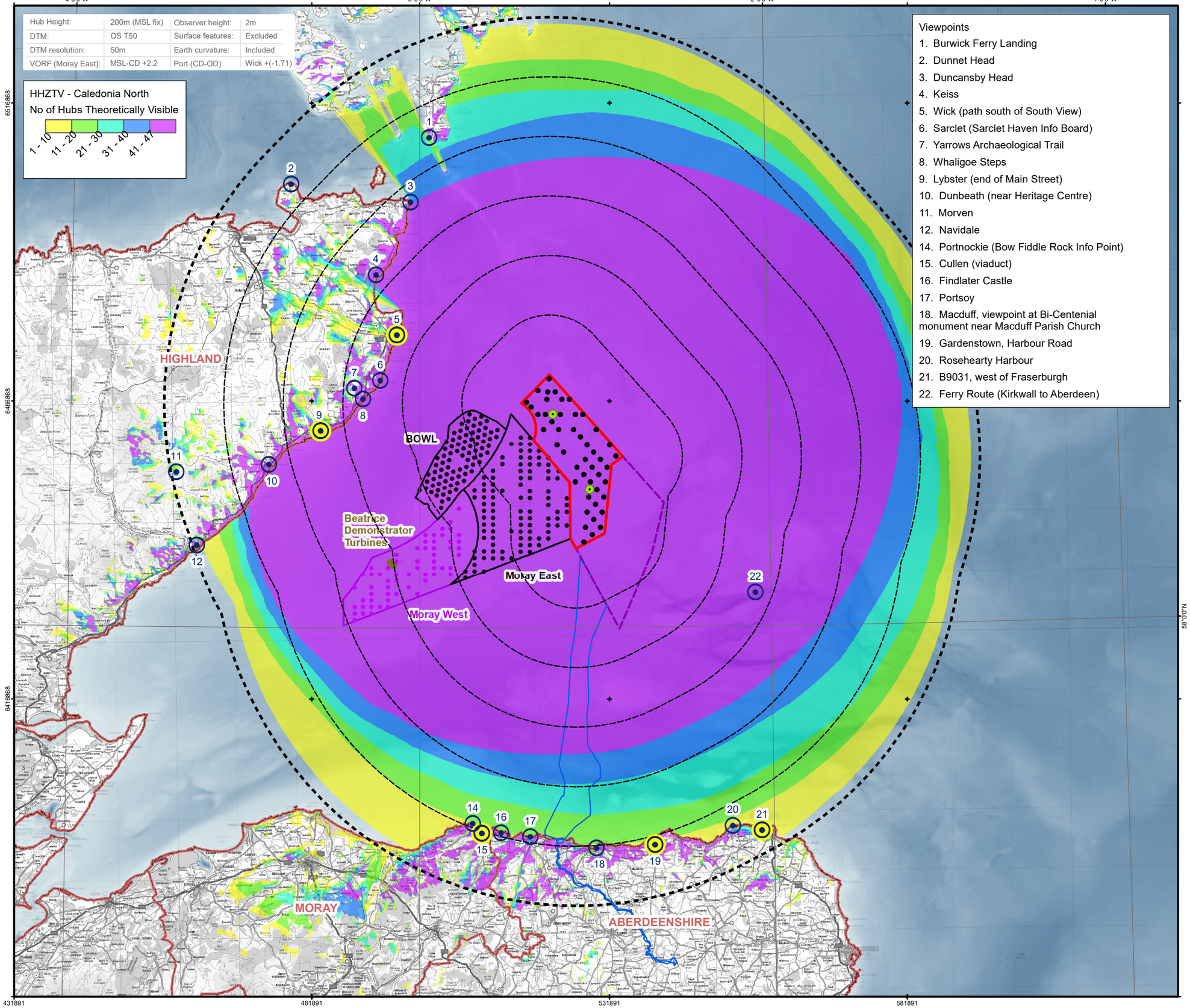

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Figure 12-9 Hub Height ZTV with Viewpoint Locations, Caledonia North

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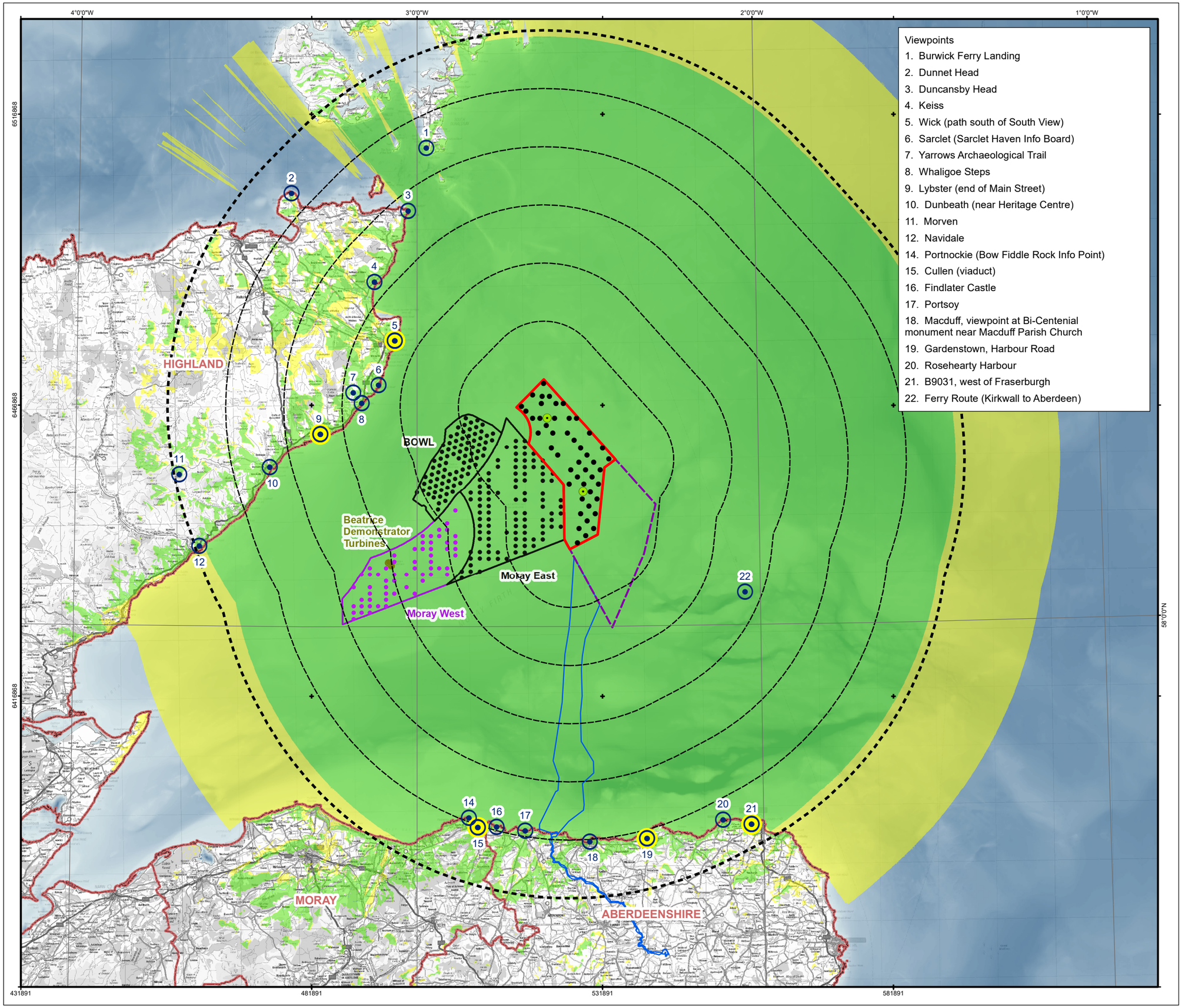

Viewpoints

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Comparative Visibility (Caledonia North)

- Blade Tips Theoretical Visibility
- Hubs Theoretical Visibility
- Combined Theoretical Visibility (Both Blade Tips and Hubs Visible)

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Figure 12-10
Blade Tip and Hub Height ZTV Comparison, Caledonia North

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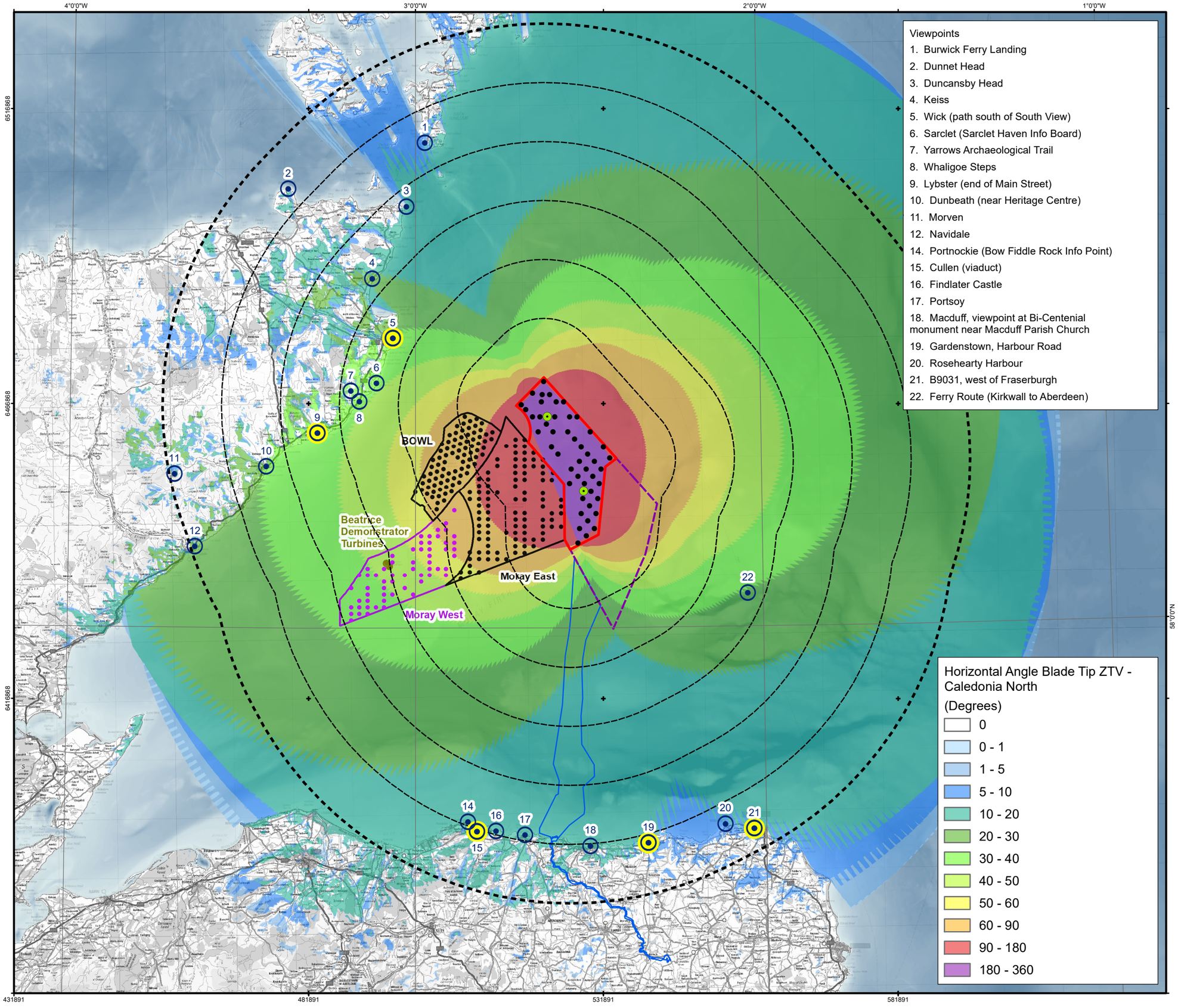

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Figure 12-11 Horizontal Angle ZTV Caledonia North

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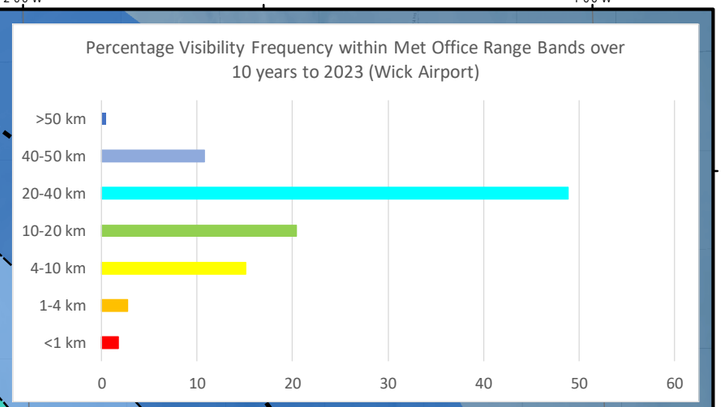
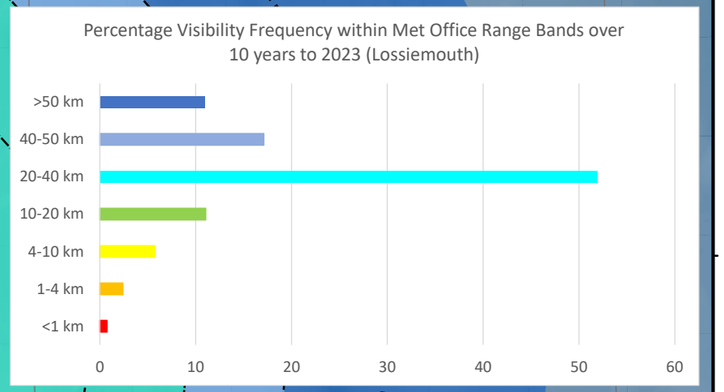
Blade Tip:	355m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

Met Office Visibility Range

- < 1km Very Poor Visibility
- 1 - 4km Poor Visibility
- 4 - 10km Moderate Visibility
- 10 - 20km Good Visibility
- 20 - 40km Very Good Visibility
- 40 - 50km Excellent Visibility
- > 50km Excellent Visibility





HIGHLAND

MORAY

ABERDEENSHIRE

BOWL

Beatrice Demonstrator Turbines

Moray East

Moray West

Viewpoints

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19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

4°0'0"W 3°0'0"W 2°0'0"W 1°0'0"W

6516868 6466868 6416868

58°0'0"N

431891 481891 531891 581891

Caledonia North Fixed

- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location

- Local Authority Boundary

Offshore Windfarms (Baseline) Status:

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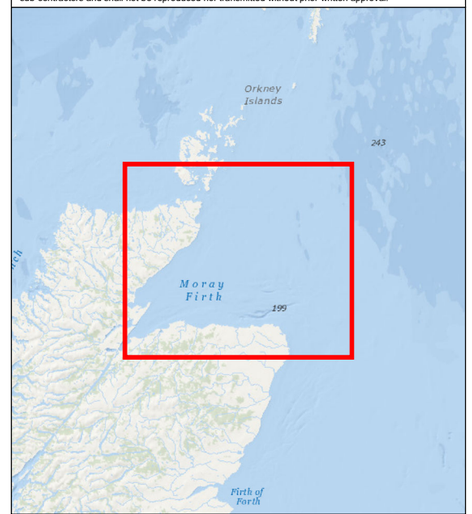

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Figure 12-12 Visibility Range Caledonia North

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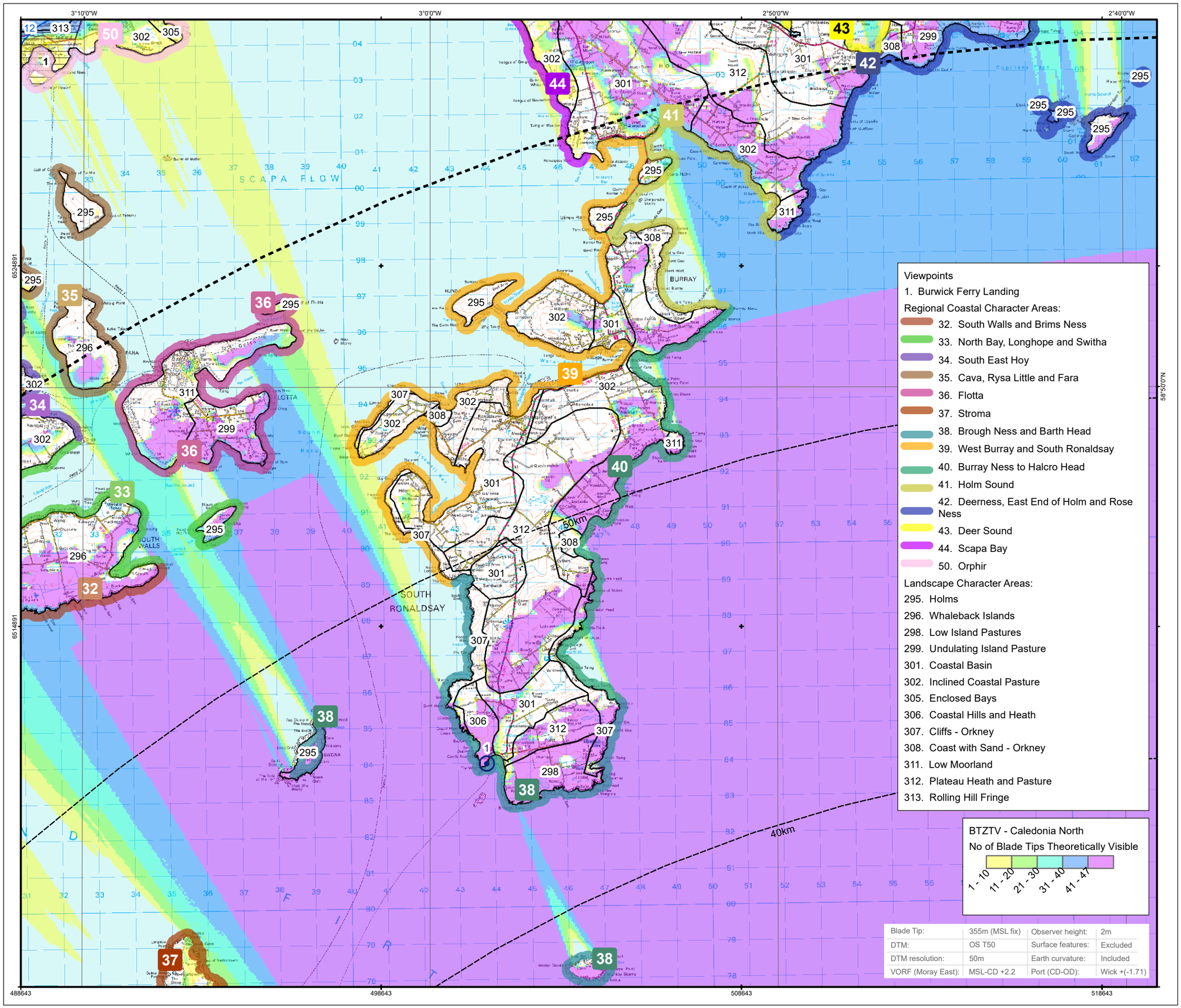

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- Day Viewpoint Location

Scottish Landscape Character Types, NatureScot (2019)

World Heritage Sites

1. Heart of Neolithic Orkney World Heritage Site Sensitive Area

National Scenic Area

12. Hoy and West Mainland

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DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

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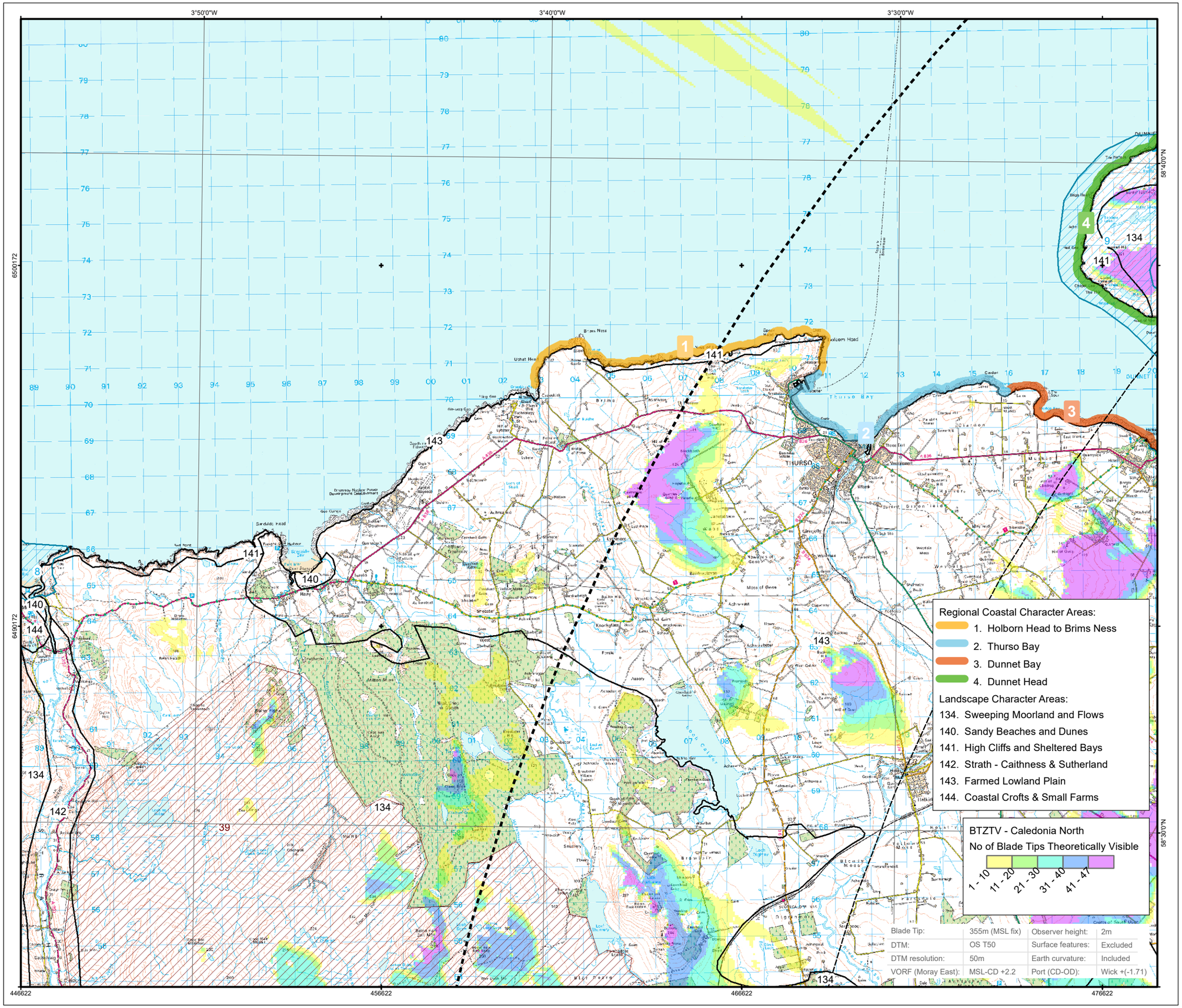

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Scottish Landscape Character Types, NatureScot (2019)

- Special Landscape Area
  - 8. Farr Bay, Strathy and Portskerra
  - 9. Dunnet Head
- Wild Land
  - 39. East Halladale Flows

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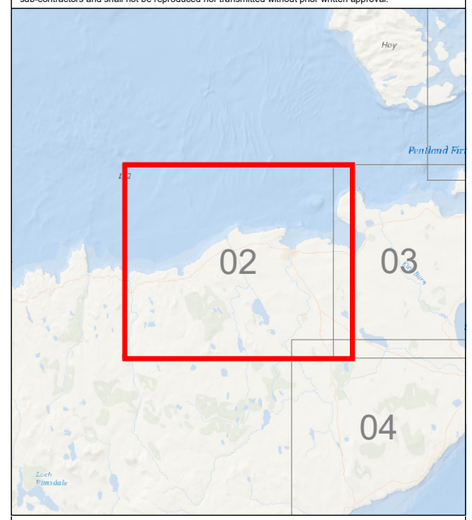

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

CALEDONIA Offshore Wind Farm

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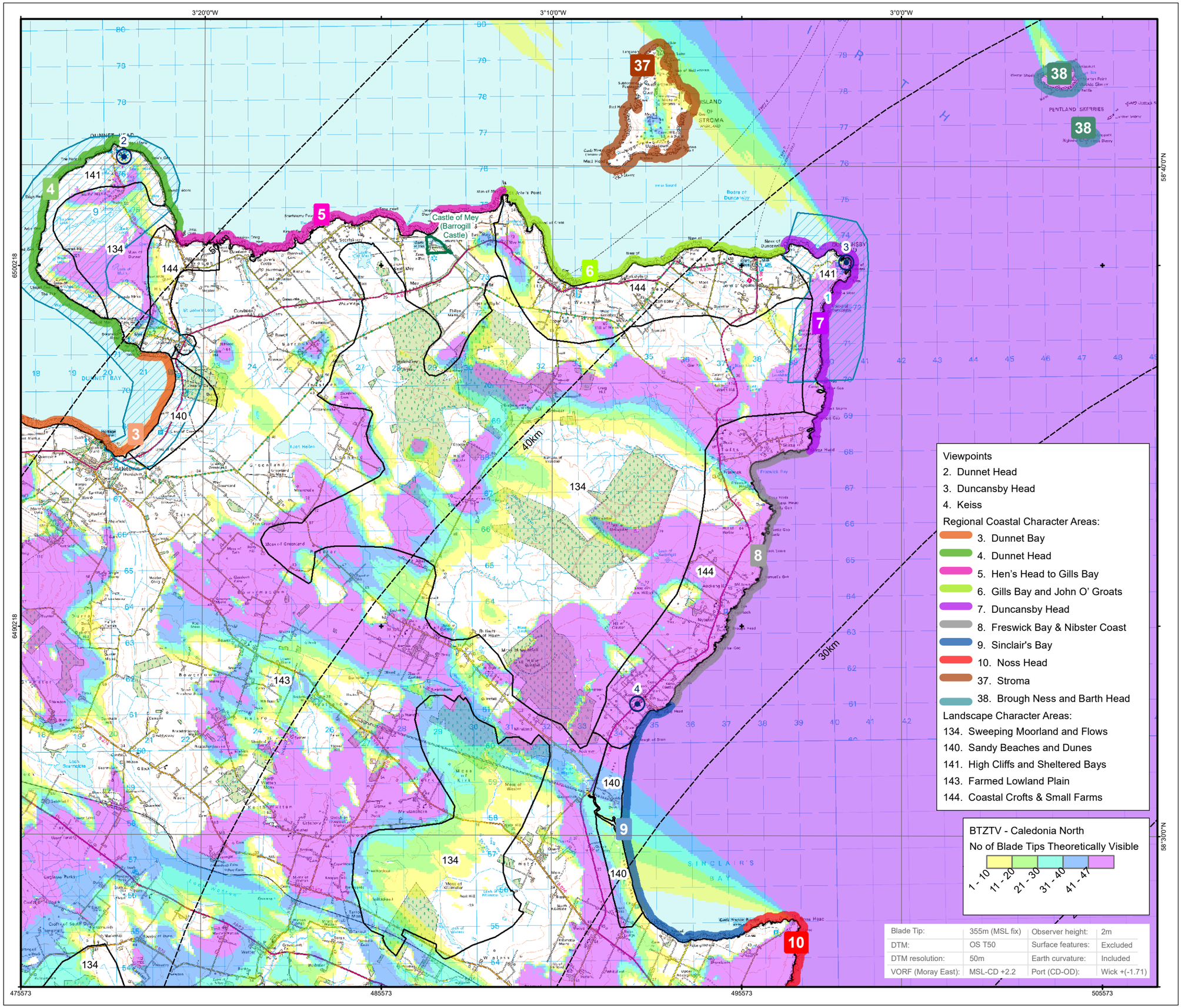
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00039
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 02 of 06
REV: N/A



Blade Tip:	355m (MSL fix)	Observer height:	2m		
DTM:	OS T50	Surface features:	Excluded		
DTM resolution:	50m	Earth curvature:	Included		
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)		

Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location

Scottish Landscape Character Types, NatureScot (2019)

- Special Landscape Area
  1. Duncansby Head
  9. Dunnet Head
- Garden and Designed Landscape

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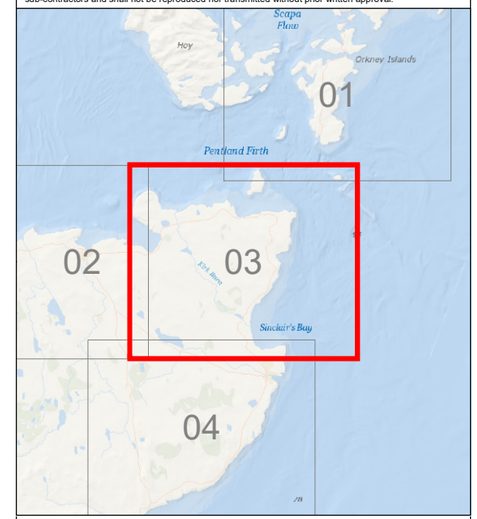

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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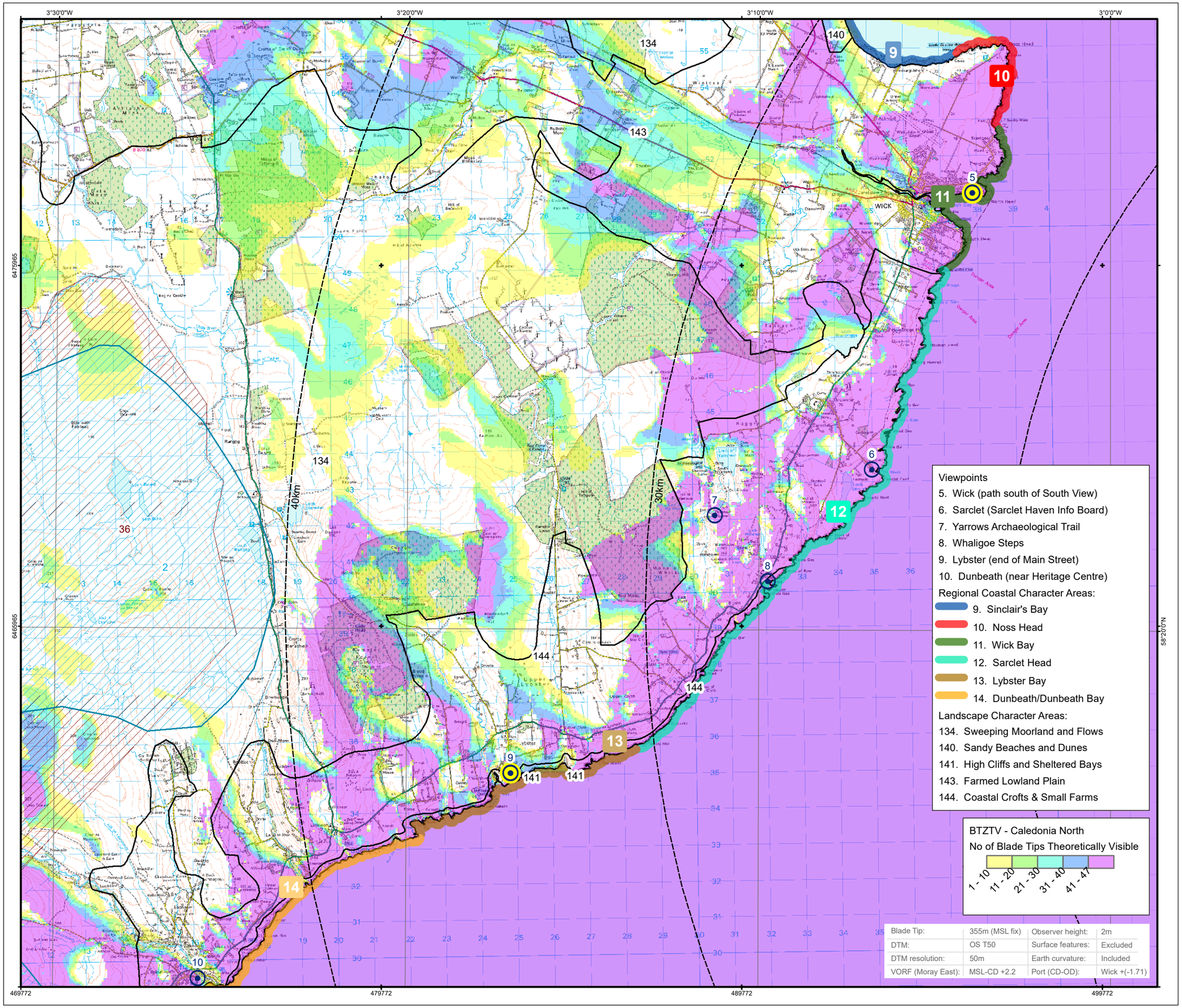
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00040
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 03 of 06
REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 2. Flow Country and Berriedale Coast
- Wild Land
  - 36. Causeymire - Knockfin Flows

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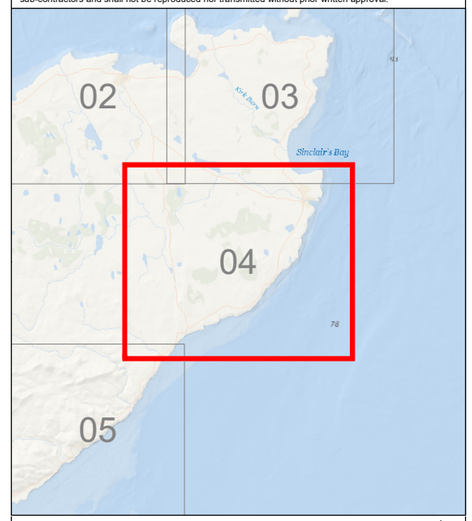


0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

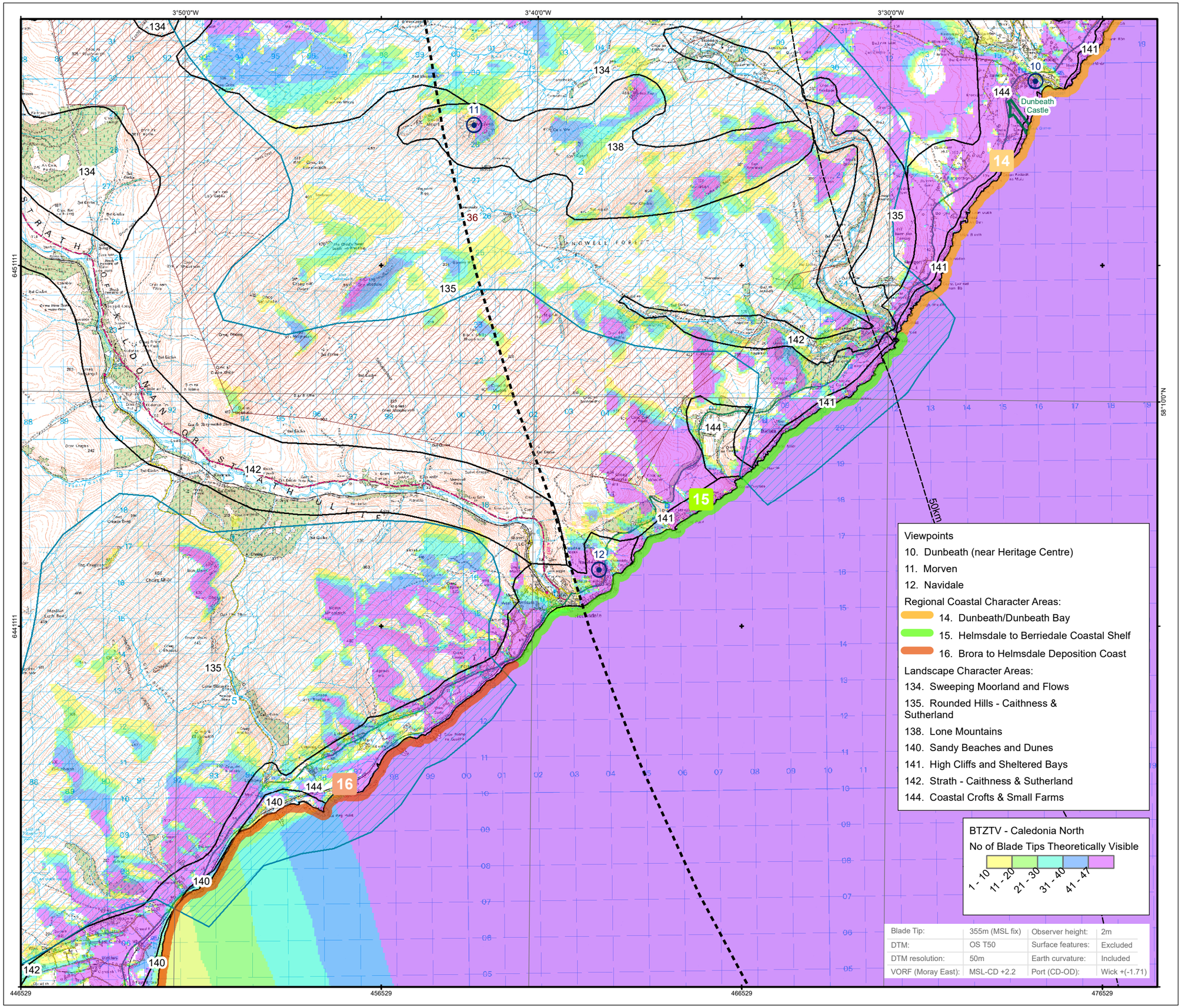
CALEDONIA Offshore Wind Farm

open optimised environments PART OF SLR

CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00041
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 04 of 06
REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 2. Flow Country and Berriedale Coast
  - 5. Loch Fleet, Loch Brora and Glen Loth
- Wild Land
  - 36. Causeymire - Knockfin Flows
- Garden and Designed Landscape

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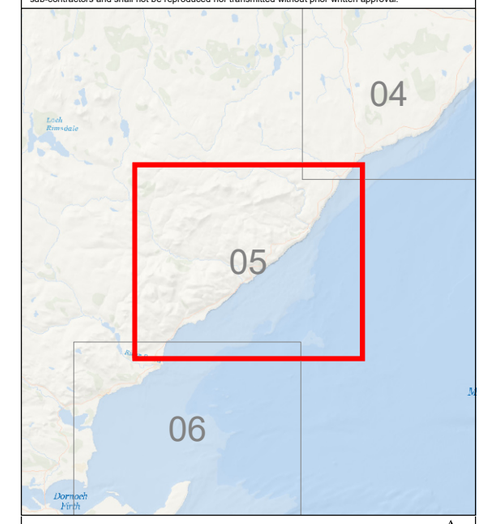

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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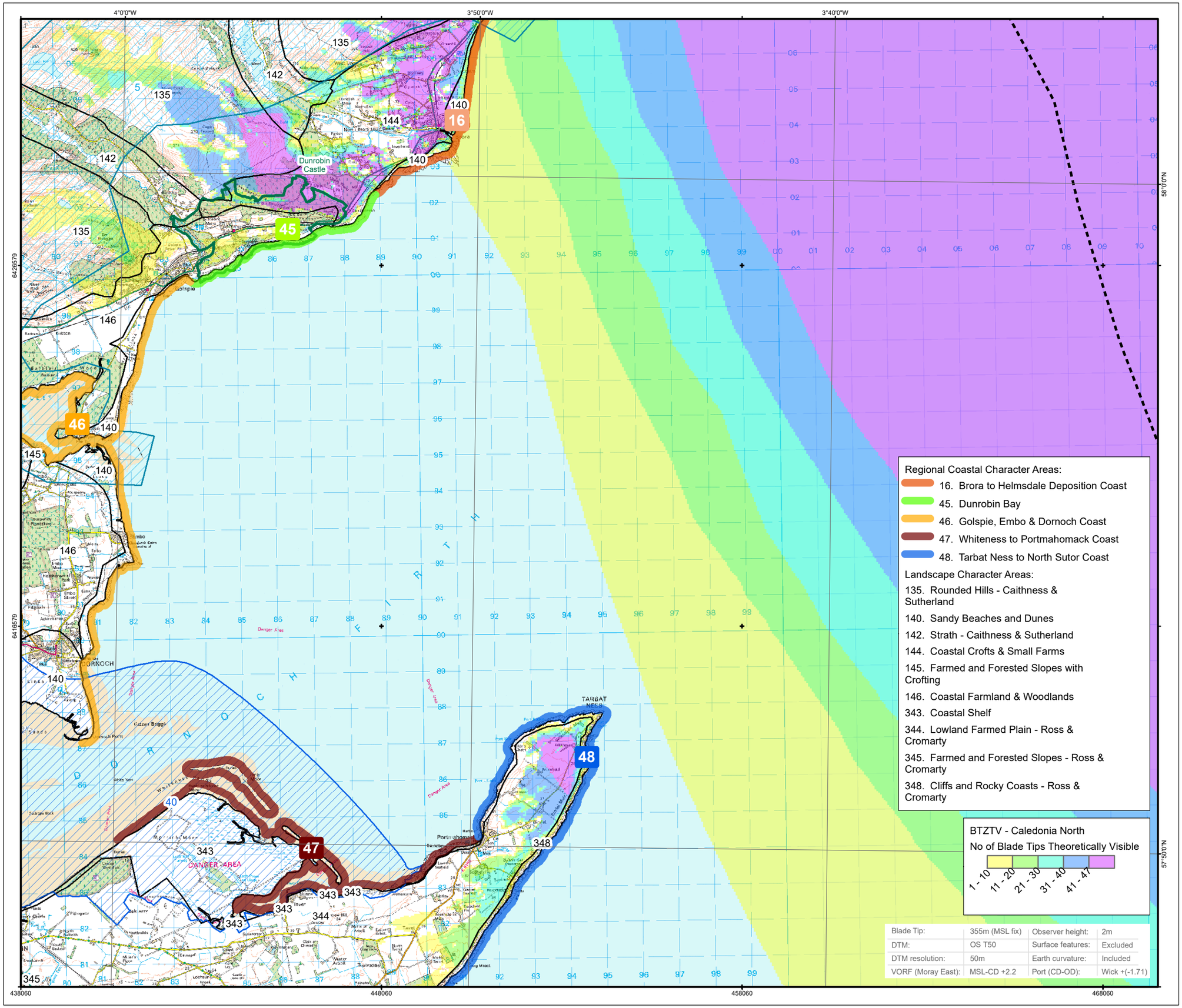
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00042
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 05 of 06
REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area

Scottish Landscape Character Types, NatureScot (2019)

- National Scenic Area
  - 40. Dornoch Firth
- Special Landscape Area
  - 5. Loch Fleet, Loch Brora and Glen Loth
- Garden and Designed Landscape

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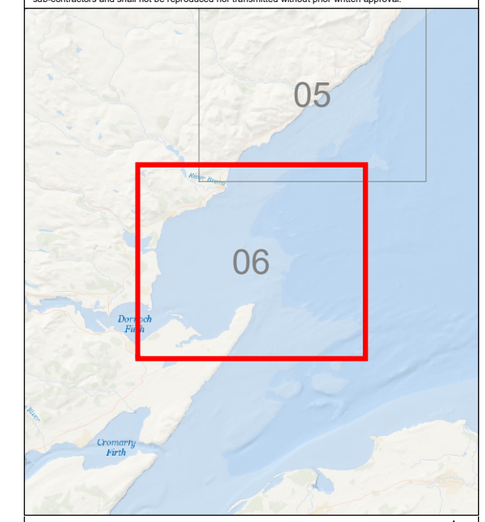

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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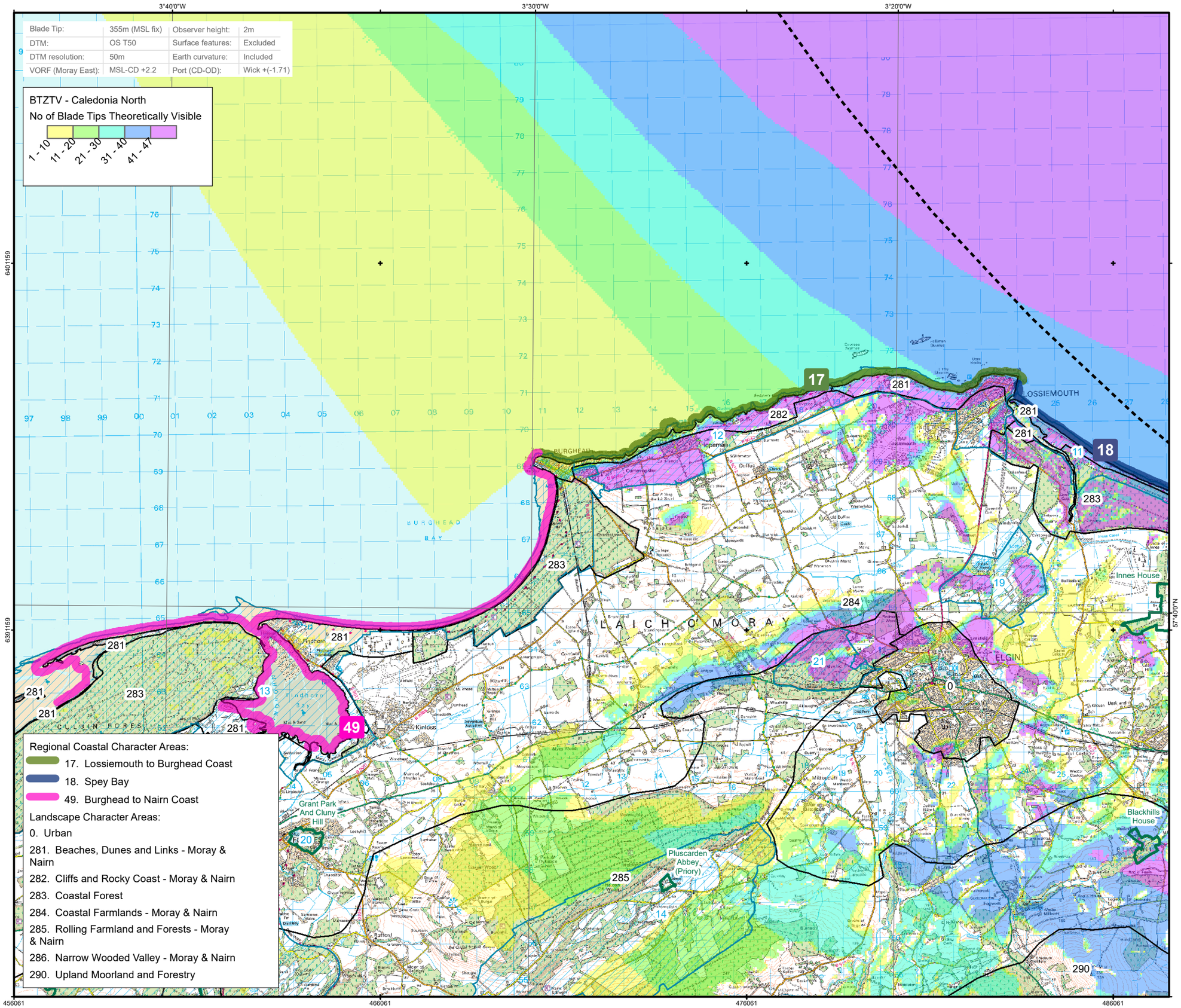
CONTRACTOR DRAWING NO	CONTRACTOR REV
UKCAL1_OPN_WNF_ENV_SLV_MAP_00043	03

GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE

Figure 12-13
Blade Tip ZTV(Western Study Area) with Designations, Character and RCCAs

STATUS	SCALE	
Approved	1:100,000	
DRAWING NUMBER	SHEET NO	REV
N/A	06 of 06	N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 11. Lossiemouth to Portgordon Coast
  - 12. Burghead to Lossiemouth Coast
  - 13. Culbin to Burghead Coast
  - 14. Pluscarden Valley
  - 17. Findhorn Valley and the Wooded Estates
  - 19. Spynie
  - 20. Cluny Hill
  - 21. Quarrelwood
- Garden and Designed Landscape

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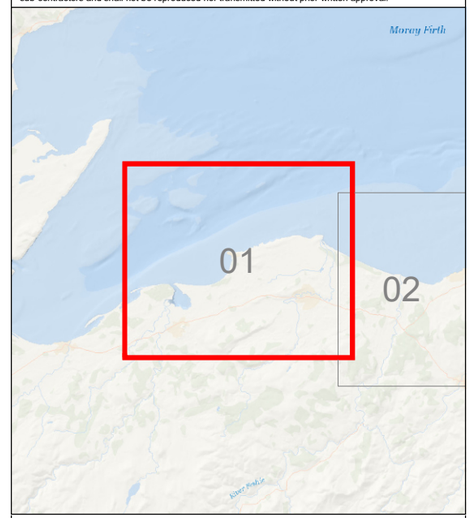

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

CALEDONIA Offshore Wind Farm

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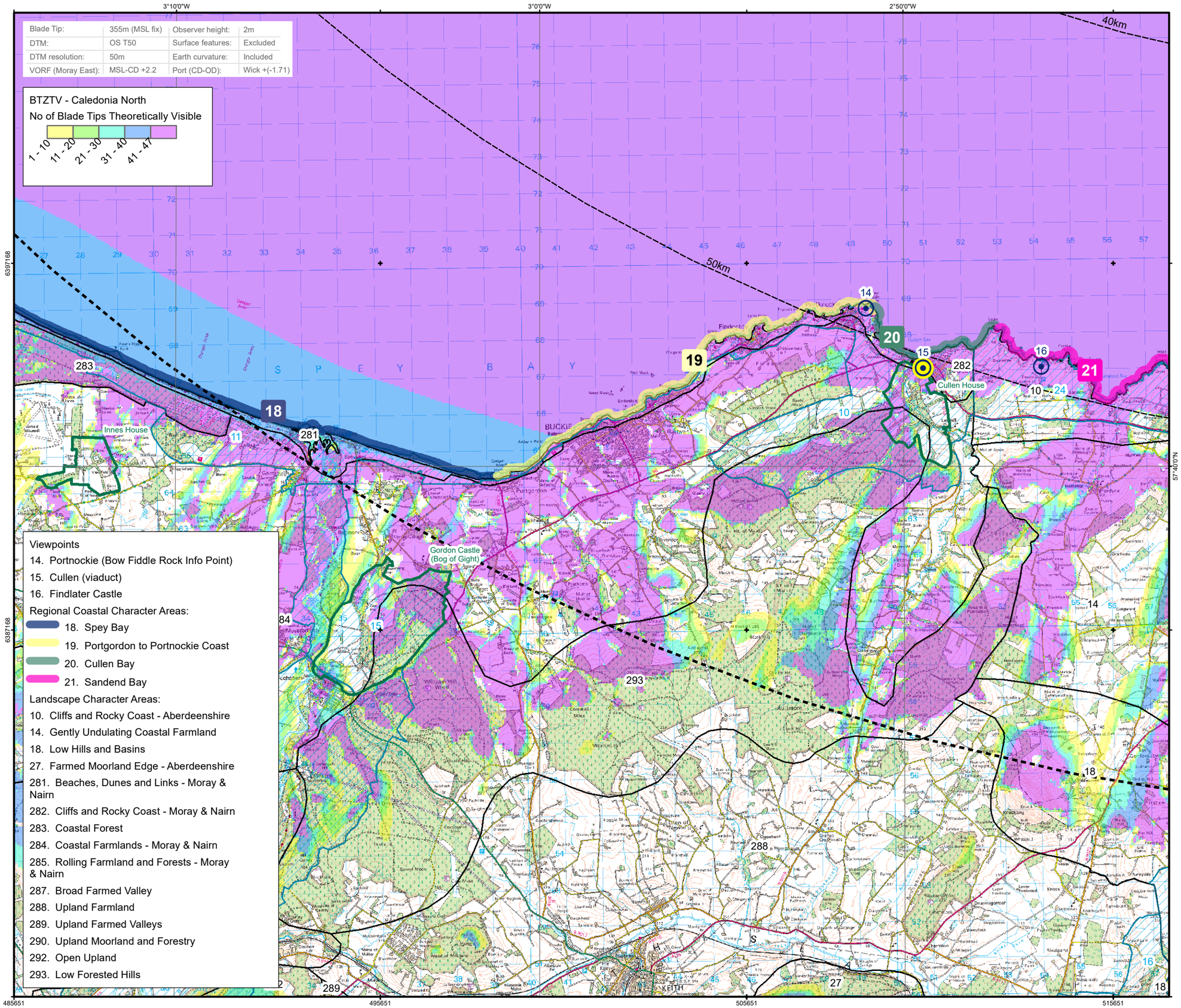
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00044
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 01of 04
REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 10. Portgordon to Cullen Coast
  - 11. Lossiemouth to Portgordon Coast
  - 15. Lower Spey and Gordon Castle Policies
  - 16. Deveron Valley
  - 22. The Spey Valley
  - 24. North Aberdeenshire Coast
  - 25. Deveron Valley
- Garden and Designed Landscape

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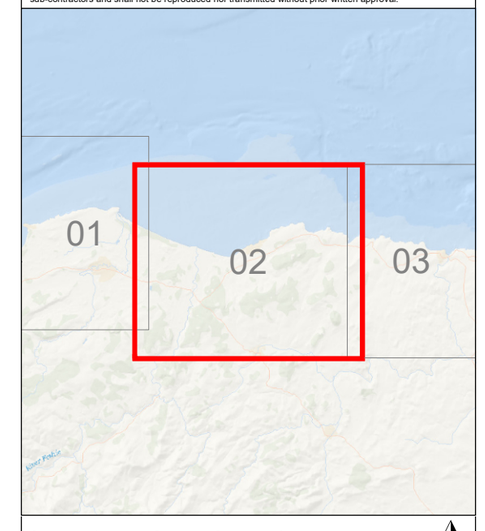

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00045
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS: Approved
SCALE: 1:100,000
DRAWING NUMBER: N/A
SHEET NO: 02of 04
REV: N/A

Blade Tip:	355m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia North

No of Blade Tips Theoretically Visible

1 - 10 | 11 - 20 | 21 - 30 | 31 - 40 | 41 - 47

2°40'0"W 2°30'0"W 2°20'0"W

57°40'0"N

6397260 6387260

515154 525154 535154 545154

40km 50km

Duff House MACDUFF BANFF Forglen TURRIFF

Viewpoints

17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road

Regional Coastal Character Areas:

21. Sandend Bay
22. Boyne Bay
23. Knock Head to Bay of Cullen
24. Bay of Cullen to More Head
25. Gamrie Bay
26. Troup Head to Quarry Head

Landscape Character Areas:

10. Cliffs and Rocky Coast - Aberdeenshire
14. Gently Undulating Coastal Farmland
15. Broad Ridges and Valleys
16. Coastal Farmland with Ridges and Valleys
18. Low Hills and Basins
20. Undulating Agricultural Heartland
32. Farmed and Wooded River Valleys
288. Upland Farmland

Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 16. Deveron Valley
  - 24. North Aberdeenshire Coast
  - 25. Deveron Valley
- Garden and Designed Landscape

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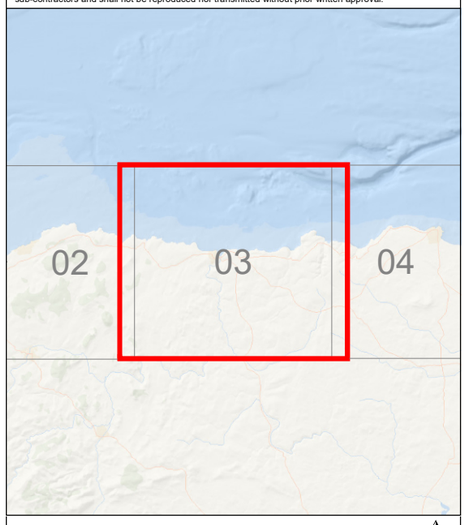


0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

CALEDONIA Offshore Wind Farm

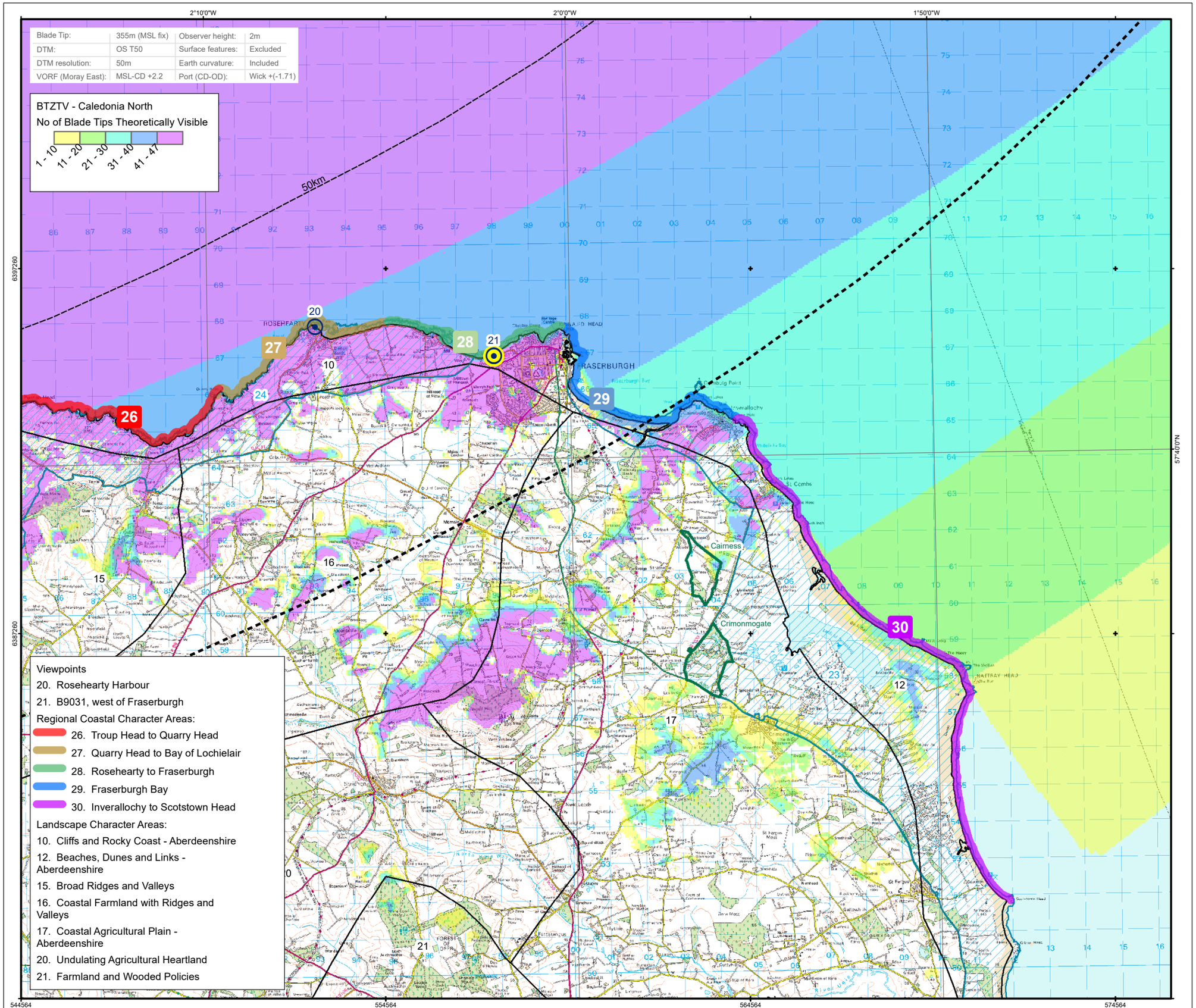
open optimised environments PART OF SLR

CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00046	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	

DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS: Approved	SCALE: 1:100,000	
DRAWING NUMBER: N/A	SHEET NO: 03of 04	REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Scottish Landscape Character Types, NatureScot (2019)
- Special Landscape Area
  - 23. North East Aberdeenshire Coast
  - 24. North Aberdeenshire Coast
- Garden and Designed Landscape

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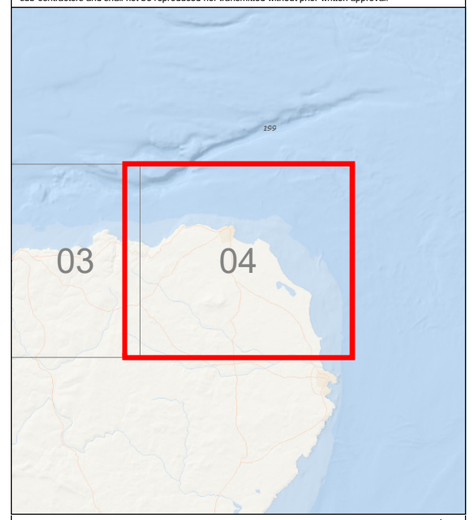

0 1 2 3 4 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
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02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

CALEDONIA Offshore Wind Farm

open optimised environments PART OF SLR

CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00047	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	

DRAWING TITLE

Figure 12-14
Blade Tip ZTV(Southern Study Area) with Designations, Character and RCCAs

STATUS: Approved	SCALE: 1:100,000	
DRAWING NUMBER: N/A	SHEET NO: 04of 04	REV: N/A

Blade Tip:	355m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia North
No of Blade Tips Theoretically Visible
1 - 10 | 11 - 20 | 21 - 30 | 31 - 40 | 41 - 47

Viewpoints
1. Burwick Ferry Landing
2. Dunnet Head
3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)
11. Morven
12. Navidale

3°30'0"W | 3°0'0"W | 2°30'0"W
58°30'0"N
6521061 | 6511061 | 6501061 | 6491061 | 6481061 | 6471061 | 6461061 | 6451061
445425 | 455425 | 465425 | 475425 | 485425 | 495425 | 505425 | 515425 | 525425 | 535425

Caledonia North Fixed
- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Core Paths
- CA10.06. Camster Forest
- CA12.05. Yarrows Archaeological Trail
- CA15.03. Castle of Old Wick coastal
- CA15.17. Keiss/Reiss shore

- Railway
- Ferry Routes
- A Road
- B Road
- National Cycle Network

Scenic Routes
- North Coast 500
- North and West Highlands

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Appeal / Application

Cumulative Windfarms
- Operational
- Under Construction
- Consented
- Appeal / Application
- Scoping

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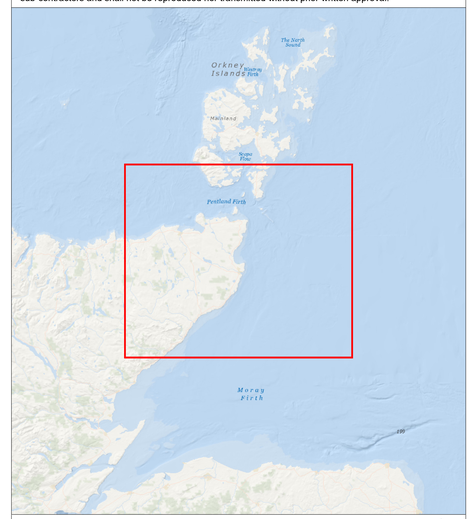

0 3 6 9 12 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00048	CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-15
Blade Tip ZTV (Western Study Area) Visual Receptors and Viewpoint Locations

STATUS: Approved	SCALE: 1:110,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A

Blade Tip:	355m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

BTZTV - Caledonia North
No of Blade Tips Theoretically Visible
1 - 10 | 11 - 20 | 21 - 30 | 31 - 40 | 41 - 47

Viewpoints
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

Caledonia North Fixed
- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Railway
- A Road
- B Road
- Ferry Routes
- National Cycle Network

Long Distance Walks:
2. Formartine and Buchan Way
3. Moray Coast Trail
4. Speyside Way
- Core Paths

Scenic Routes
- North East 250

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned

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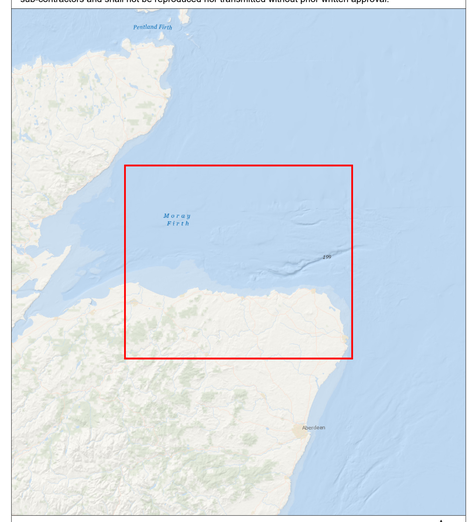

0 3 6 9 12 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00049	CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-16
Blade Tip ZTV (Southern Study Area) Visual Receptors and Viewpoint Locations

STATUS: Approved	SCALE: 1:110,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A

Hub Height:	200m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

HHZTV - Caledonia North
No of Hubs Theoretically Visible

1 - 10 | 11 - 20 | 21 - 30 | 31 - 40 | 41 - 47

Viewpoints
1. Burwick Ferry Landing
2. Dunnet Head
3. Duncansby Head
4. Keiss
5. Wick (path south of South View)
6. Sarclet (Sarclet Haven Info Board)
7. Yarrows Archaeological Trail
8. Whaligoe Steps
9. Lybster (end of Main Street)
10. Dunbeath (near Heritage Centre)
11. Morven
12. Navidale

3°30'0"W 3°0'0"W 2°30'0"W
58°30'0"N
6521061 6511061 6501061 6491061 6481061 6471061 6461061 6451061
445425 455425 465425 475425 485425 495425 505425 515425 525425 535425

Caledonia North Fixed
- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Core Paths
- CA10.06. Camster Forest
- CA12.05. Yarrows Archaeological Trail
- CA15.03. Castle of Old Wick coastal
- CA15.17. Keiss/Reiss shore

- Railway
- Ferry Routes
- A Road
- B Road
- National Cycle Network

Scenic Routes
- North Coast 500
- North and West Highlands

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Appeal / Application

Operational
- Under Construction
- Consented
- Appeal / Application
- Scoping

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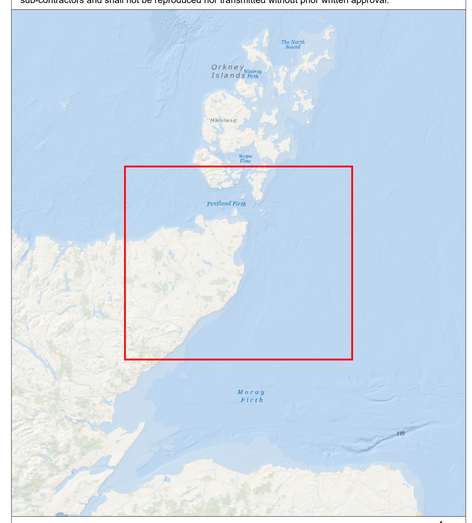

0 3 6 9 12 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00050	CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-17
Hub Height ZTV (Western Study Area) Visual Receptors and Viewpoint Locations

STATUS: Approved	SCALE: 1:110,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A

Hub Height:	200m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

HHZTV - Caledonia North
No of Hubs Theoretically Visible
1 - 10
11 - 20
21 - 30
31 - 40
41 - 47

Viewpoints
14. Portnockie (Bow Fiddle Rock Info Point)
15. Cullen (viaduct)
16. Findlater Castle
17. Portsoy
18. Macduff, viewpoint at Bi-Centenial monument near Macduff Parish Church
19. Gardenstown, Harbour Road
20. Rosehearty Harbour
21. B9031, west of Fraserburgh
22. Ferry Route (Kirkwall to Aberdeen)

Caledonia North Fixed
- Fixed (47 x 25MW)
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Day Viewpoint Location
- Night Viewpoint Location
- Railway Station
- Ferry Ports
- Railway
- A Road
- B Road
- Ferry Routes
- National Cycle Network

Long Distance Walks:
2. Formartine and Buchan Way
3. Moray Coast Trail
4. Speyside Way
- Core Paths

Scenic Routes
- North East 250

Cumulative Windfarms Status:
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned
- Operational
- Under Construction
- Consented
- Inactive / Decomissioned

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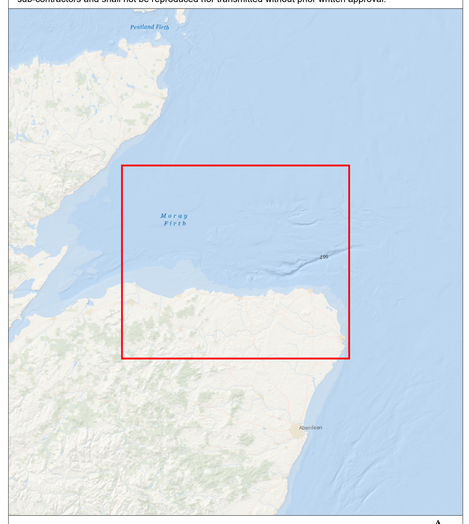

0 3 6 9 12 km

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02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

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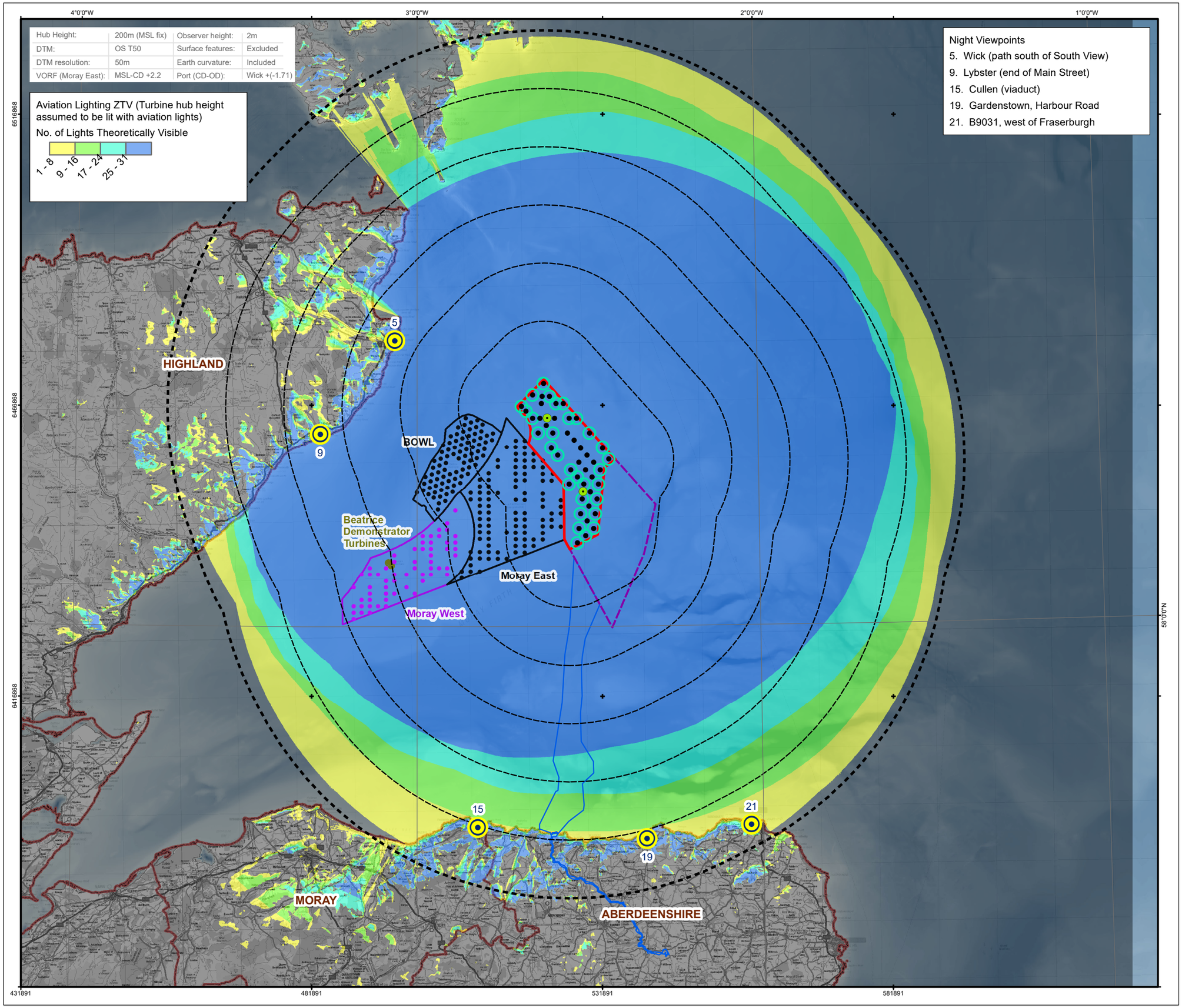
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00051	CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)	

DRAWING TITLE

Figure 12-18
Hub Height ZTV (Southern Study Area) Visual Receptors and Viewpoint Locations

STATUS: Approved	SCALE: 1:110,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- OSPs
- Hub Aviation Hazard Warning Light
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Night Viewpoint Location

- Local Authority Boundary

Offshore Windfarms (Baseline) Status:

- Operational
- Under Construction
- Inactive / Decomissioned
- Operational
- Under Construction
- Inactive / Decomissioned

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0 5 10 15 20 km

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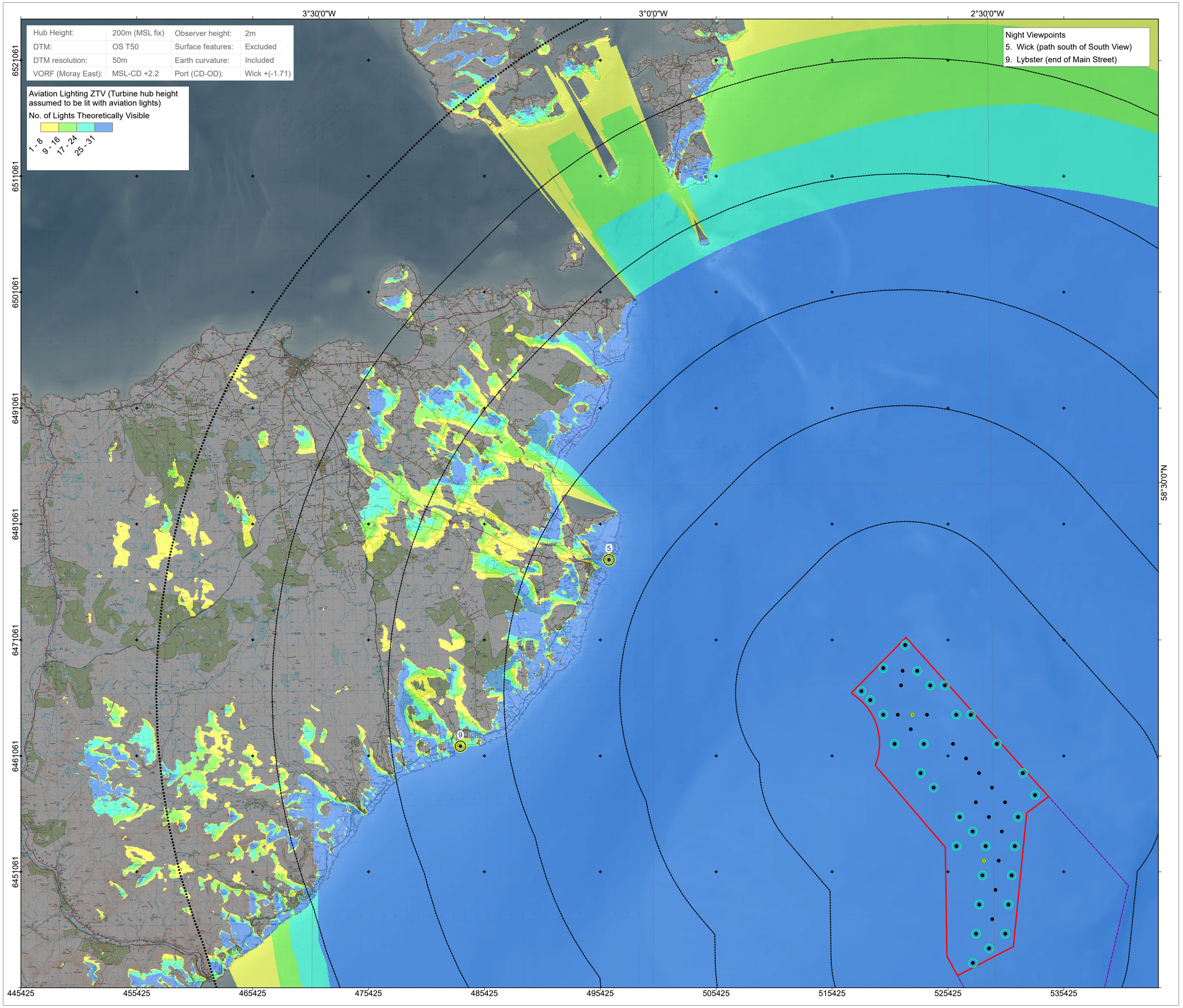
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00052
CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE:

Figure 12-19 Hub Aviation Lighting ZTV Caledonia North

STATUS: Approved
SCALE: 1:620,000
DRAWING NUMBER: N/A
SHEET NO: 01 of 01
REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- Hub Aviation Hazard Warning Light
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Night Viewpoint Location

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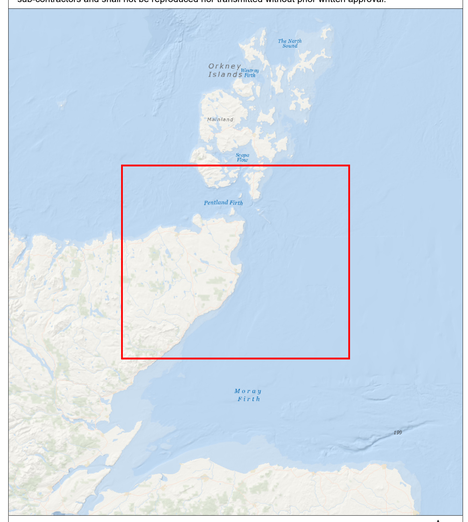

0 3 6 9 12 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
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CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00053
CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)
DRAWING TITLE:

Figure 12-20
Hub Aviation Lighting ZTV (Western Study Area), Caledonia North

STATUS: Approved
SCALE: 1:110,000
DRAWING NUMBER: N/A
SHEET NO: 01 of 01
REV: N/A

Hub Height:	200m (MSL fix)	Observer height:	2m
DTM:	OS T50	Surface features:	Excluded
DTM resolution:	50m	Earth curvature:	Included
VORF (Moray East):	MSL-CD +2.2	Port (CD-OD):	Wick +(-1.71)

Aviation Lighting ZTV (Turbine hub height assumed to be lit with aviation lights)

No. of Lights Theoretically Visible

1 - 8
9 - 16
17 - 24
25 - 31

Night Viewpoints
15. Cullen (viaduct)
19. Gardenstown, Harbour Road
21. B9031, west of Fraserburgh

3°0'0"W
2°30'0"W
2°0'0"W
58°0'0"N
57°30'0"N
6445284
6435284
6425284
6415284
6405284
6395284
6385284
6375284
477300
487300
497300
507300
517300
527300
537300
547300
557300
567300

Caledonia North Fixed

- Fixed (47 x 25MW)
- Hub Aviation Hazard Warning Light
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Night Viewpoint Location

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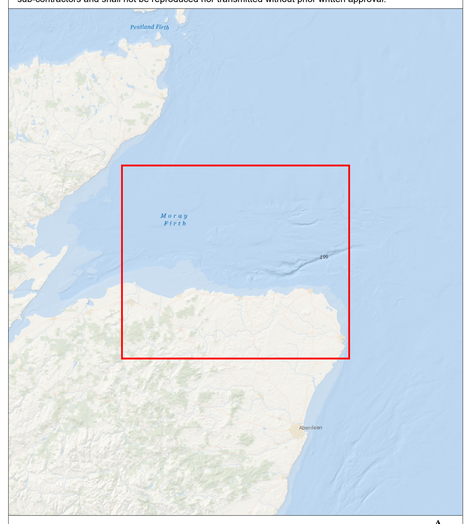

0 3 6 9 12 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Final	RH	LT	XX
02	11/07/2024	For Review	RH	LT	XX
01	10/05/2024	For Review	RH	LT	XX

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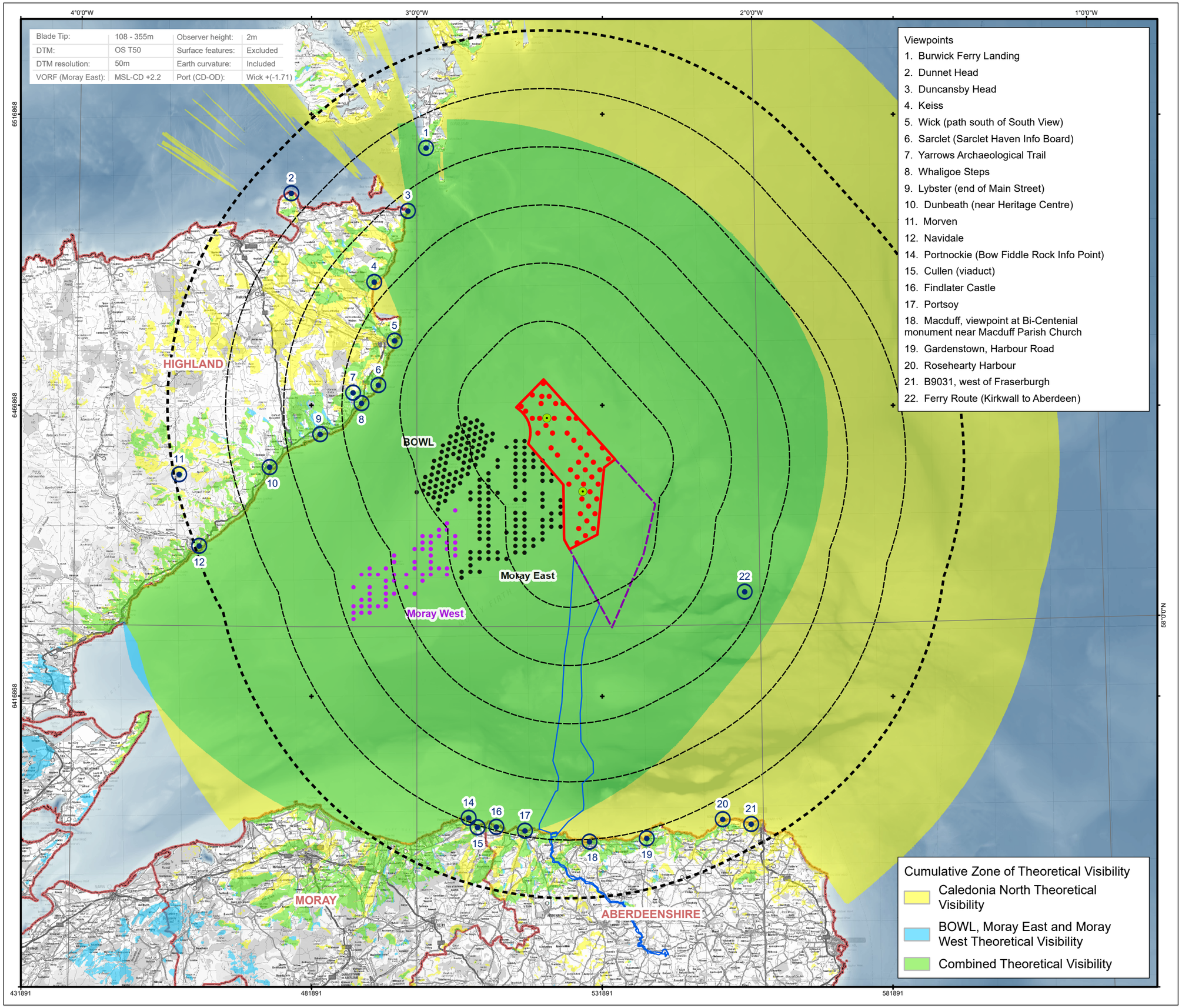
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00054
CONTRACTOR REV: 03
GEODETIC PARAMETERS: OSGB36 / British National Grid (EPSG:27700)
DRAWING TITLE:

Figure 12-21
Hub Aviation Lighting ZTV (Southern Study Area), Caledonia North

STATUS: N/A
SCALE: 1:110,000
DRAWING NUMBER: N/A
SHEET NO: 01 of 01
REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Viewpoint Location
- Local Authority Boundary

Cumulative Windfarm Status:

- Operational
- Under Construction

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0 5 10 15 20 km

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CALEDONIA Offshore Wind Farm

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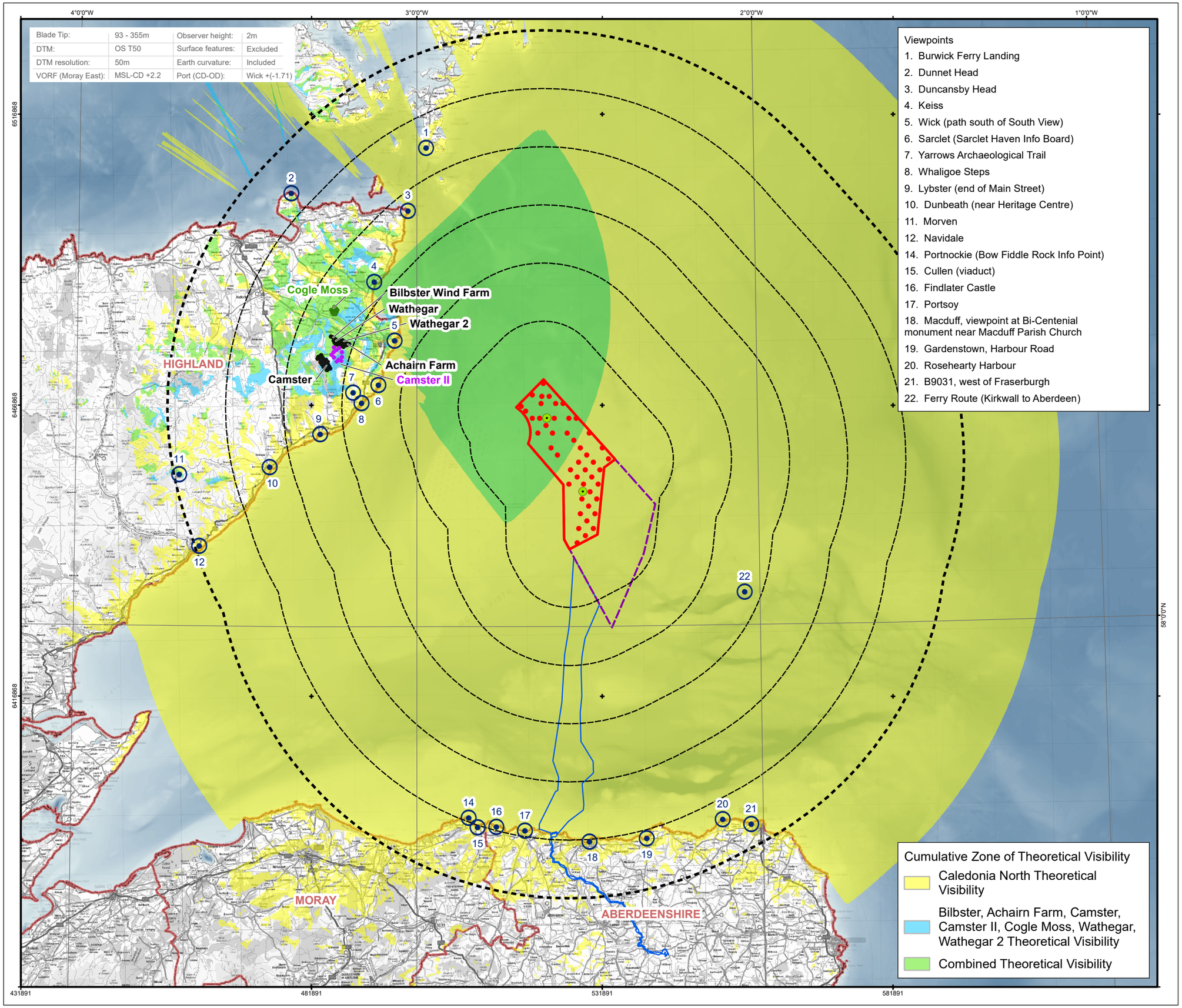
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00055	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	

DRAWING TITLE

Figure 12-22
Cumulative ZTV with BOWL, Moray East and Moray West, Caledonia North

STATUS: Approved	SCALE: 1:620,000	
DRAWING NUMBER: N/A	SHEET NO: 01 of 01	REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Viewpoint Location
- Local Authority Boundary

Cumulative Windfarms Status:

- Operational
- Under Construction
- Consented

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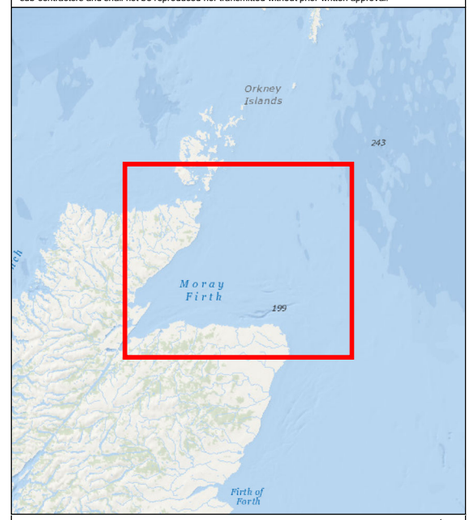

0 5 10 15 20 km

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
02	10/07/2024	For Review	RH	LT	LT
01	10/05/2024	For Review	RH	LT	LT

CALEDONIA Offshore Wind Farm

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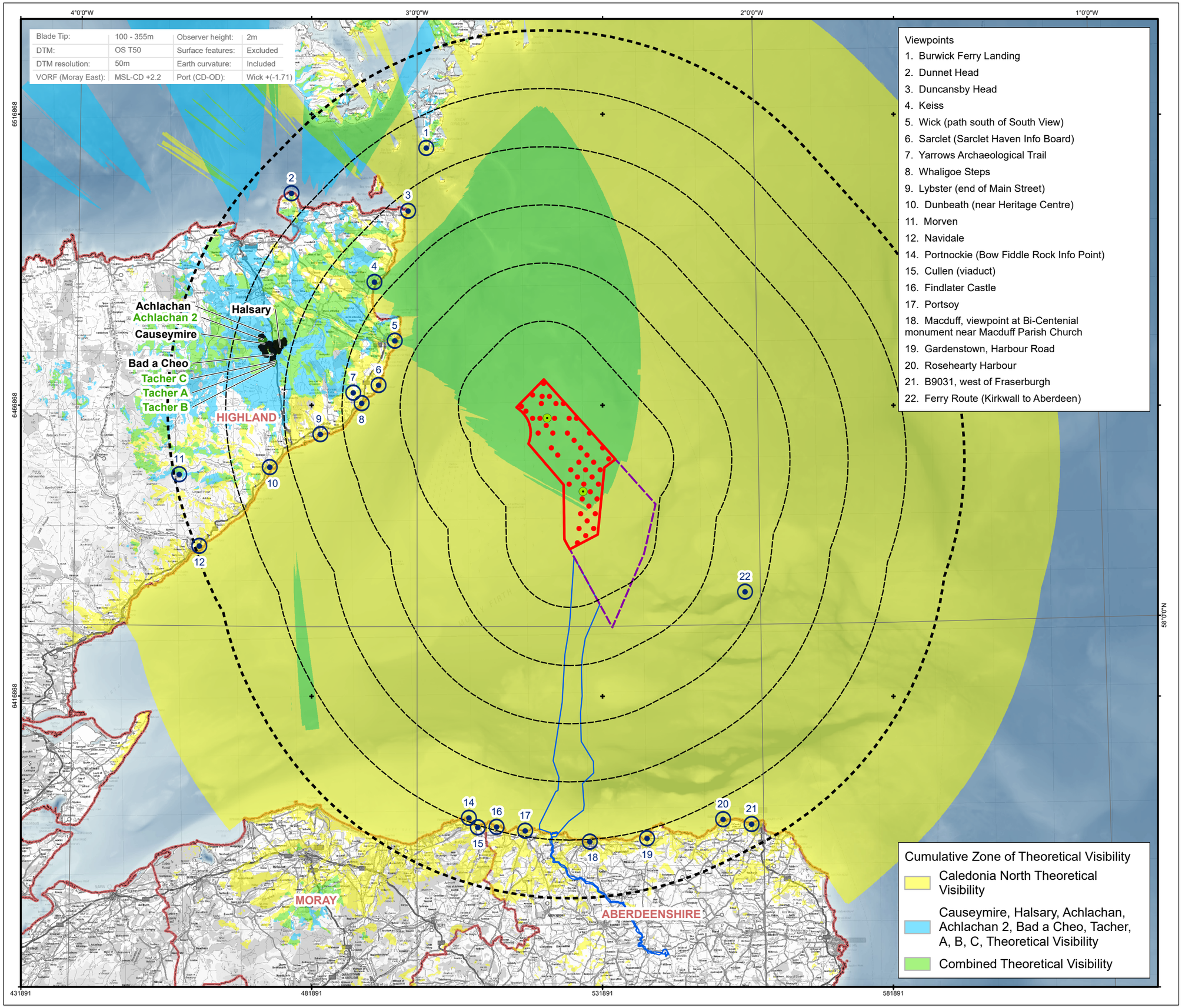
CONTRACTOR DRAWING NO	CONTRACTOR REV
UKCAL1_OPN_WNF_ENV_SLV_MAP_00084	03

GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)

DRAWING TITLE

Figure 12-23
Cumulative ZTV with Bilbster, Achairn Farm, Camster, Camster II, Cogle Moss, Wathegar, Wathegar 2, Caledonia North

STATUS	SCALE	
Approved	1:620,000	
DRAWING NUMBER	SHEET NO	REV
N/A	01 of 01	N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Viewpoint Location
- Local Authority Boundary

Cumulative Windfarms Status:

- Operational
- Consented

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REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
03	26/09/2024	Approved	RH	LT	LT
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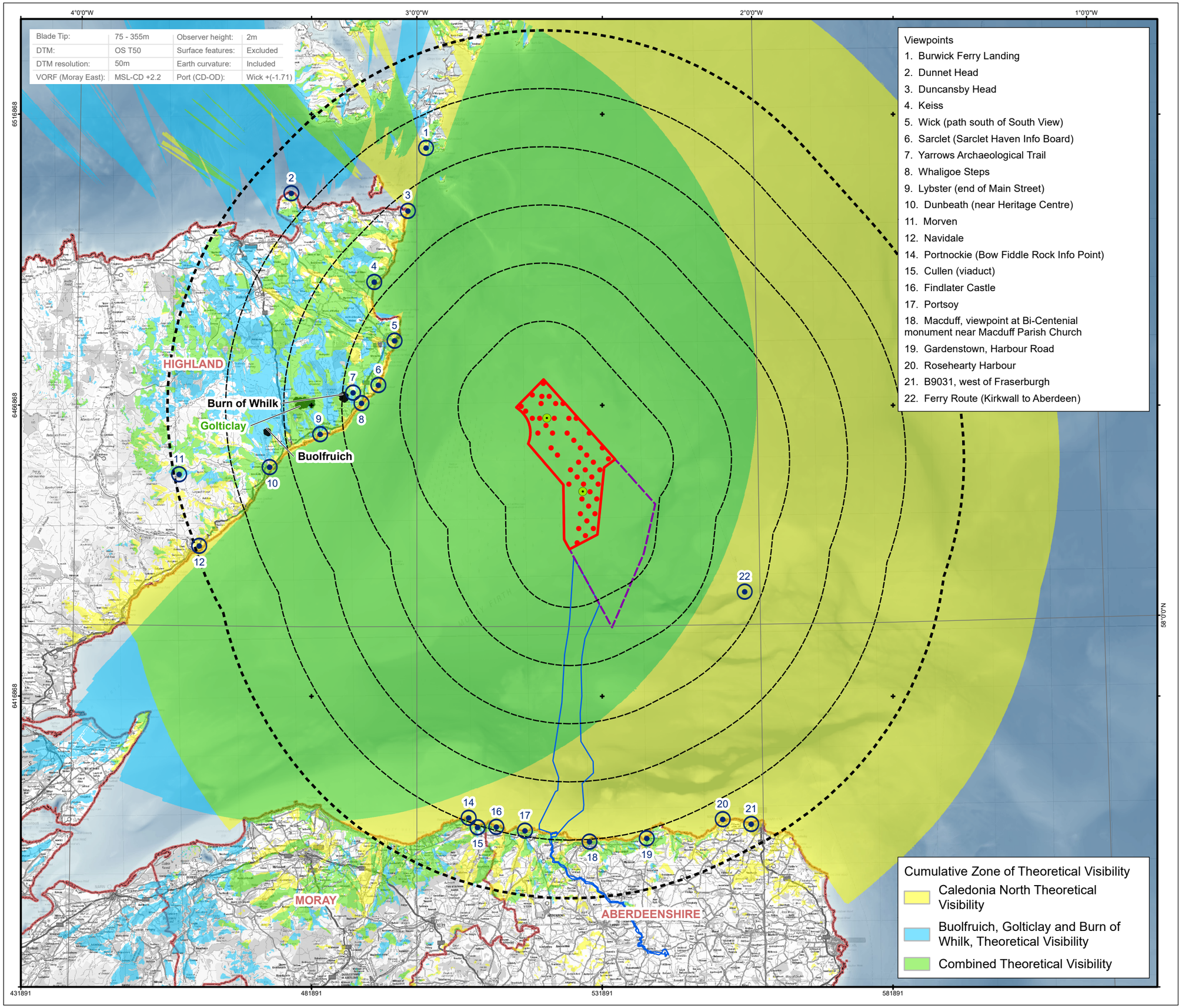
CONTRACTOR DRAWING NO: UKCAL1_OPN_WNF_ENV_SLV_MAP_00085	CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)	
DRAWING TITLE: Figure 12-24 Cumulative ZTV with Causeymire, Halsary, Achlachan, Achlachan 2, Bad a Cheo, Tacher, A B C, Caledonia North	
STATUS: Approved	SCALE: 1:620,000
DRAWING NUMBER: N/A	SHEET NO: 01 of 01 / REV: N/A



Caledonia North Fixed

- Fixed (47 x 25MW)
- OSPs
- Caledonia North
- Caledonia South
- Offshore and Onshore Export Cable Corridor
- 10km Radii
- 60km Study Area
- Viewpoint Location
- Local Authority Boundary

Cumulative Windfarms Status:

- Operational
- Consented

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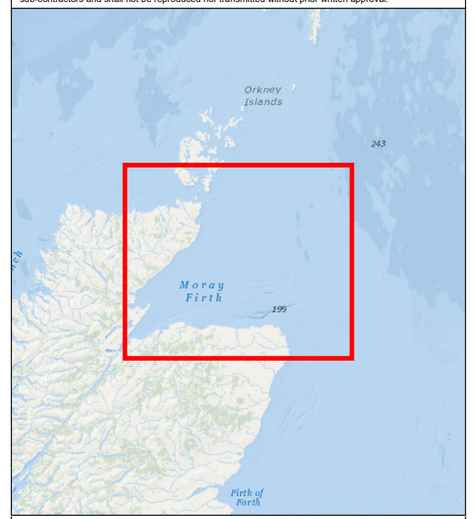

0 5 10 15 20 km

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03	26/09/2024	Approved	RH	LT	LT
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CONTRACTOR REV: 03
GEODETIC PARAMETERS: WGS 1984 UTM Zone 30N (EPSG:32630)
DRAWING TITLE

Figure 12-25 Cumulative ZTV with Buolfruich, Golticlay and Burn of Whilk, Caledonia North

STATUS: Approved
SCALE: 1:620,000
DRAWING NUMBER: N/A
SHEET NO: 01 of 01
REV: N/A

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