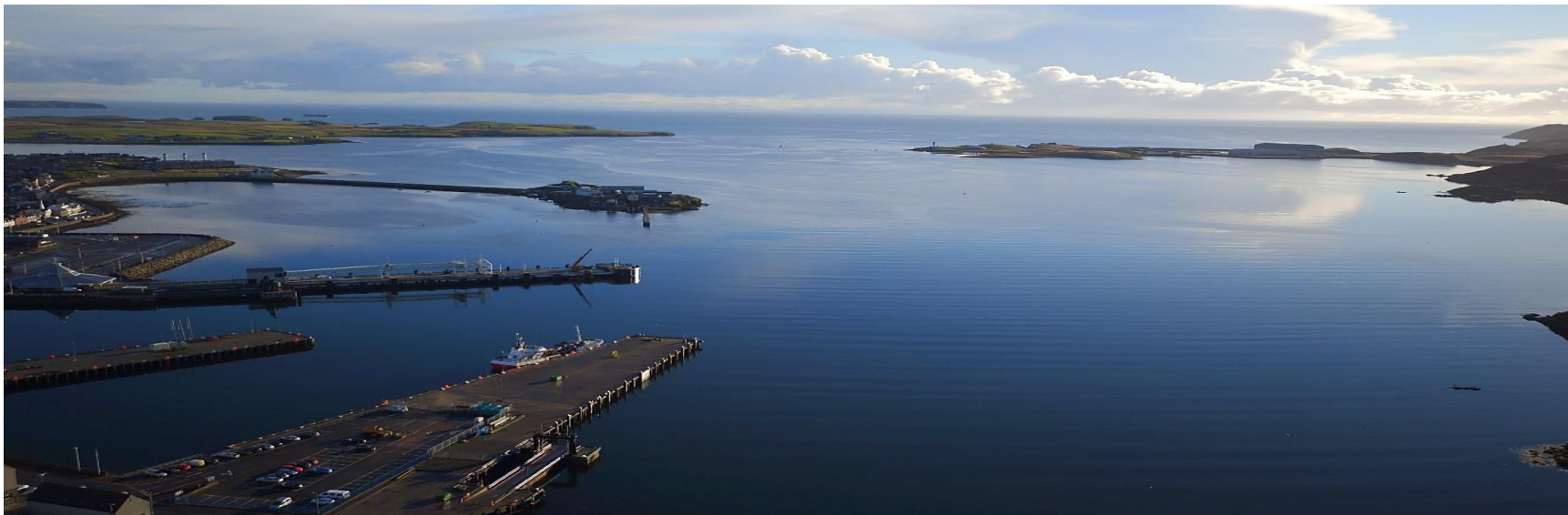


Stornoway Deep Water Port

Volume 2: Figures



October 2018

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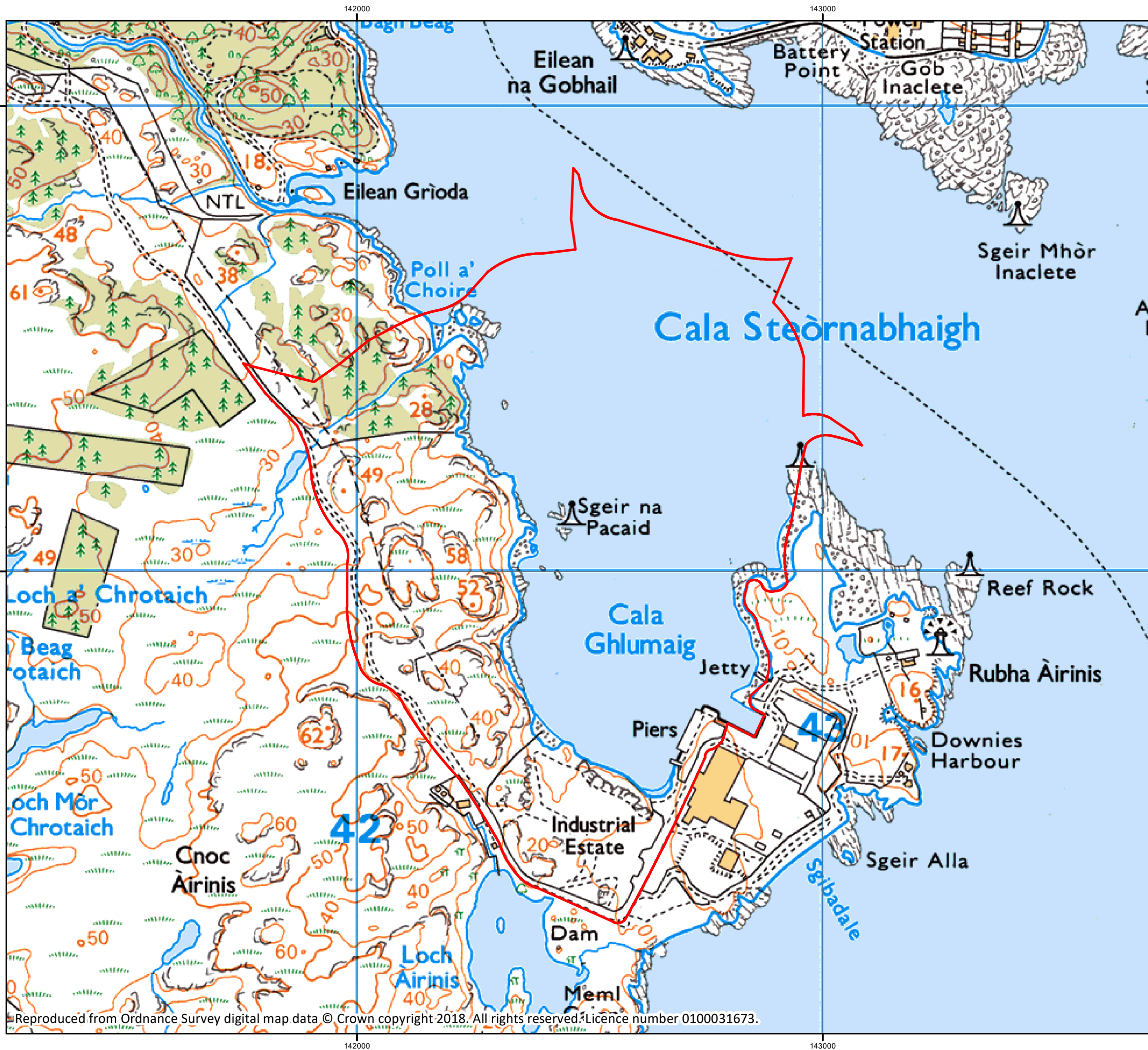
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Legend

-  Deep Water Port Site Boundary 111.79 hectares

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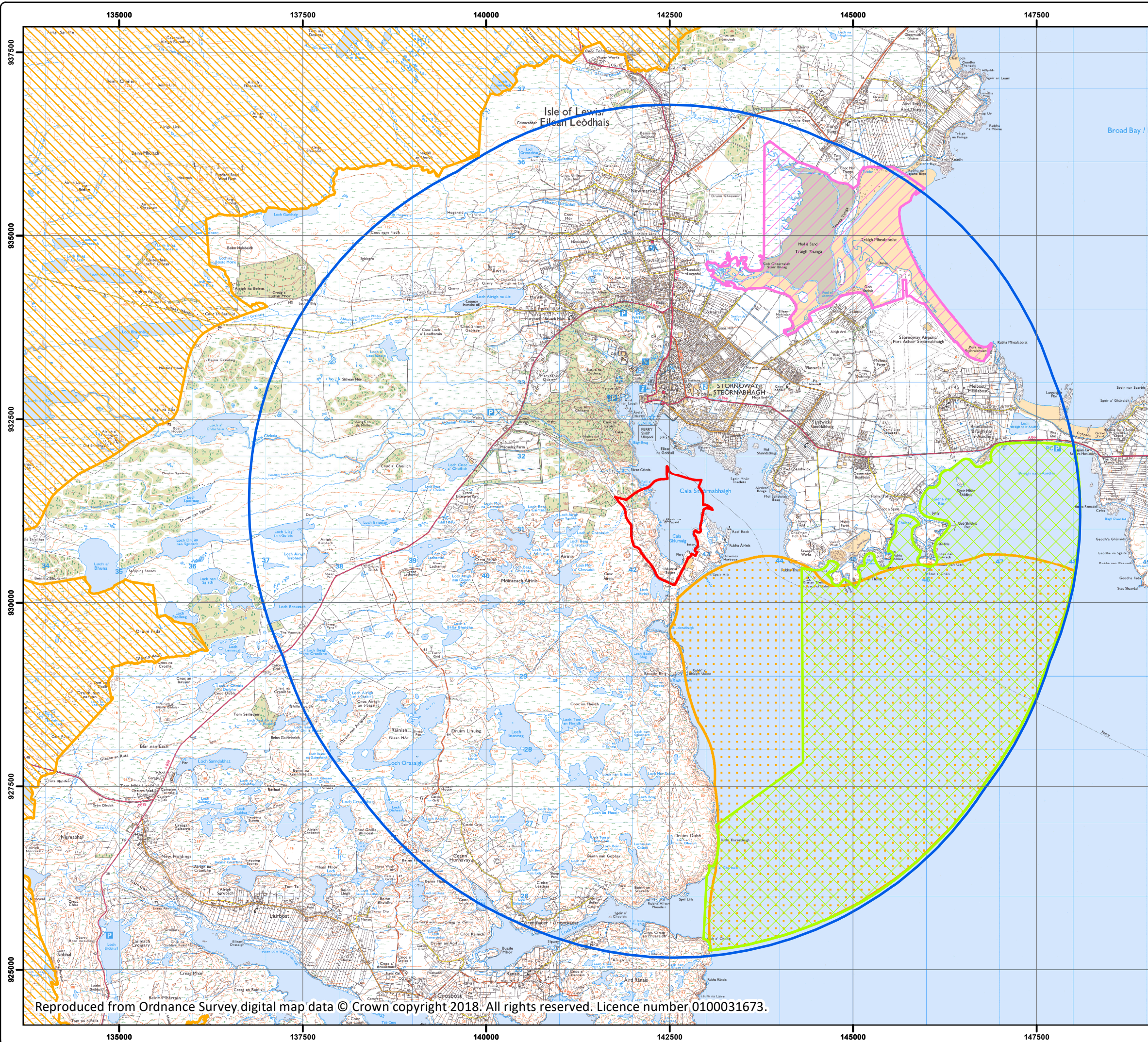
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Legend

- Deep Water Port Site Boundary 111.79 hectares
- Study Area 5km Buffer
- SPA, SAC, Ramsar
 - Lewis Peatlands
- SSSI
 - Tong Saltings
- cSAC
 - Inner Hebrides and the Minches
 - North East Lewis pMPA

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Project

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Title


Figure 1.2: Environmental Designations

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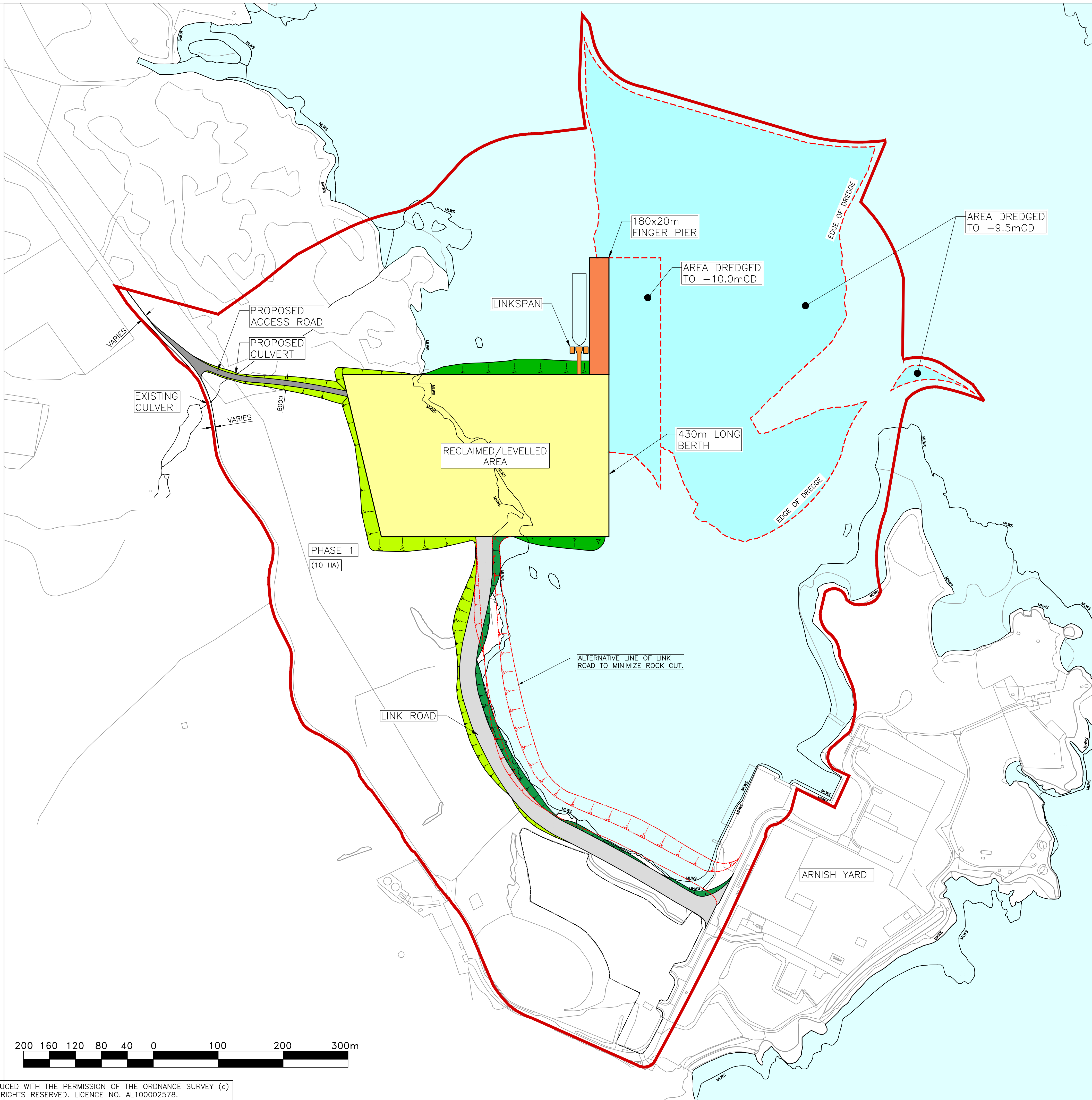
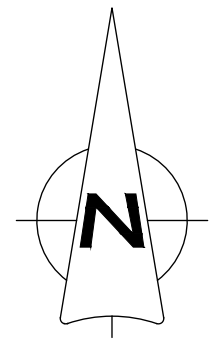
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GENERAL NOTES

— EIA BOUNDARY

REV	DATE	DETAILS	DRAWN	CHK'D	APP'D
B	15.10.18	MINOR REVISIONS	AN	--	--
A	19.06.18	NOTES REMOVED, TITLE AMENDED, ALTERNATIVE LINK ROAD ALIGNMENT ADDED.	AB		

AMENDMENTS

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PROJECT
DEEP WATER PORT

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glasgow@wallacestone.co.uk

DINGWALL
01349 866775
dingwall@wallacestone.co.uk

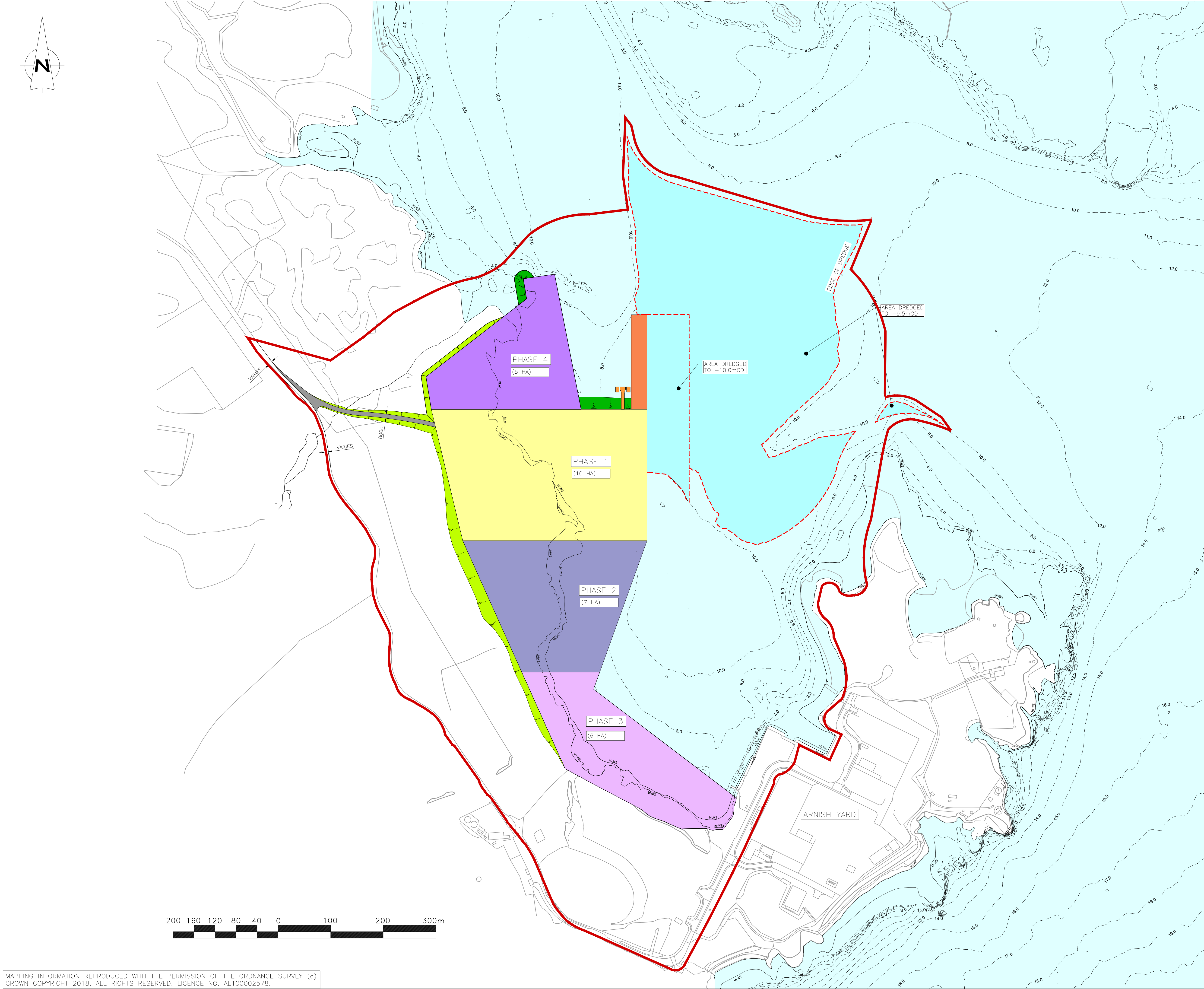
HEBRIDES
01851 612454
hebrides@wallacestone.co.uk

DRAWING TITLE
EIA
FIGURE 2.1:
SITE LAYOUT PLAN

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REVISION A B	

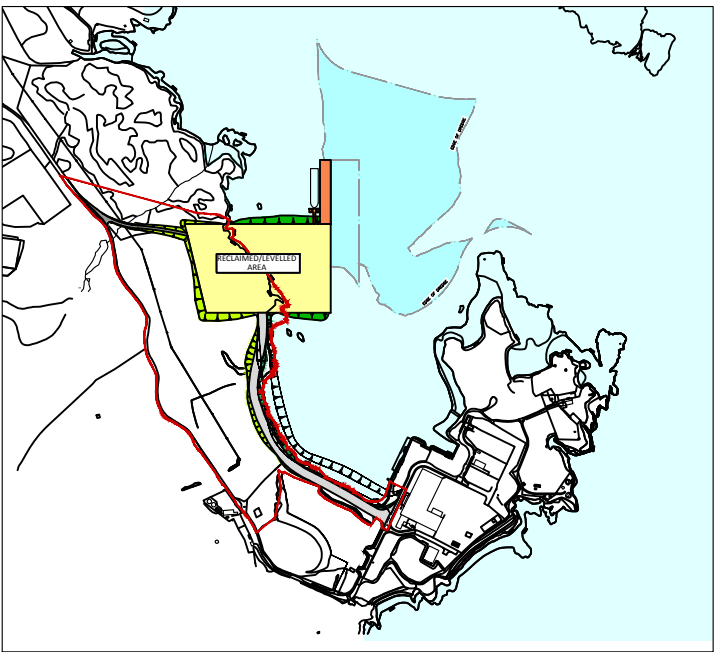
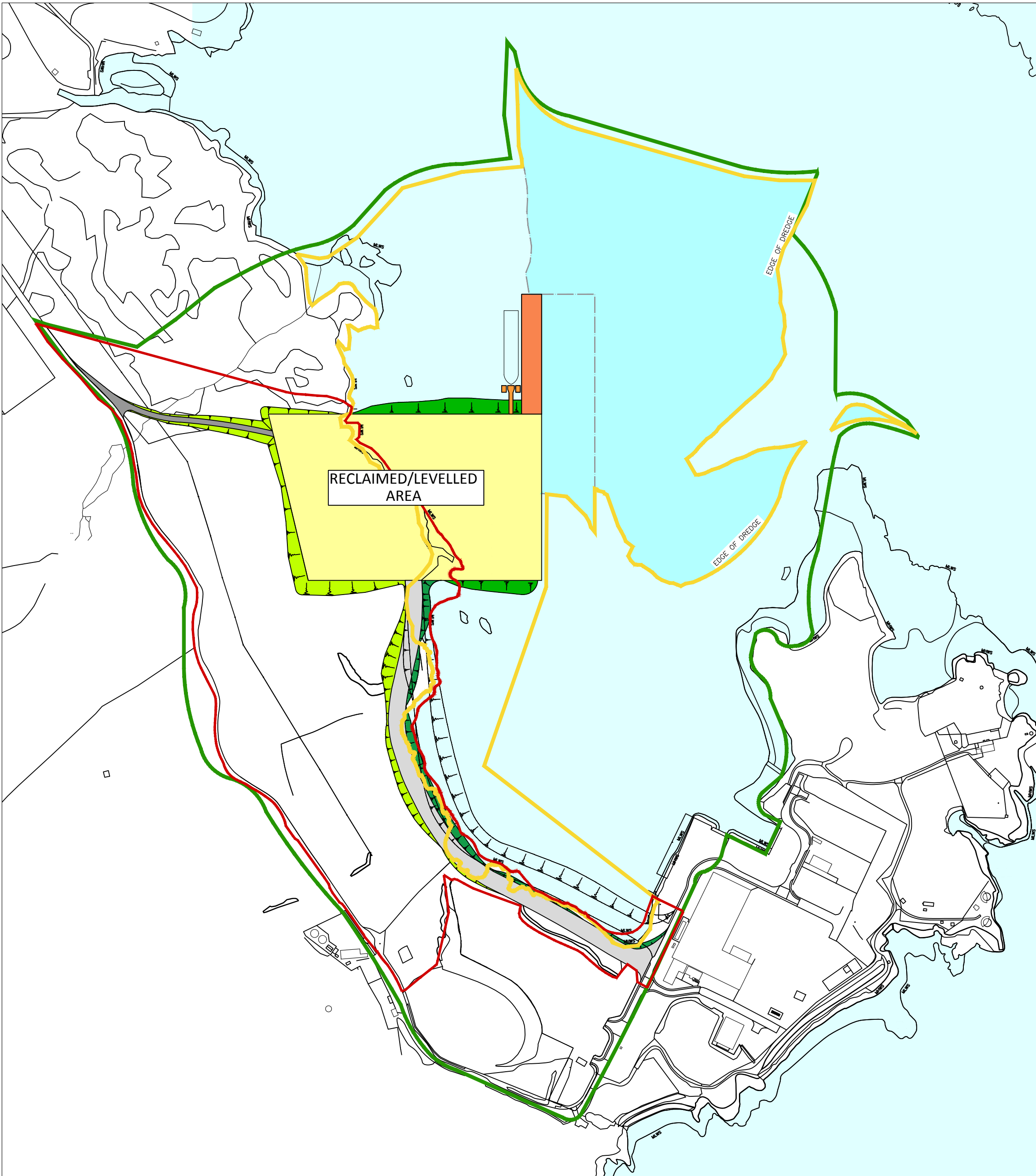
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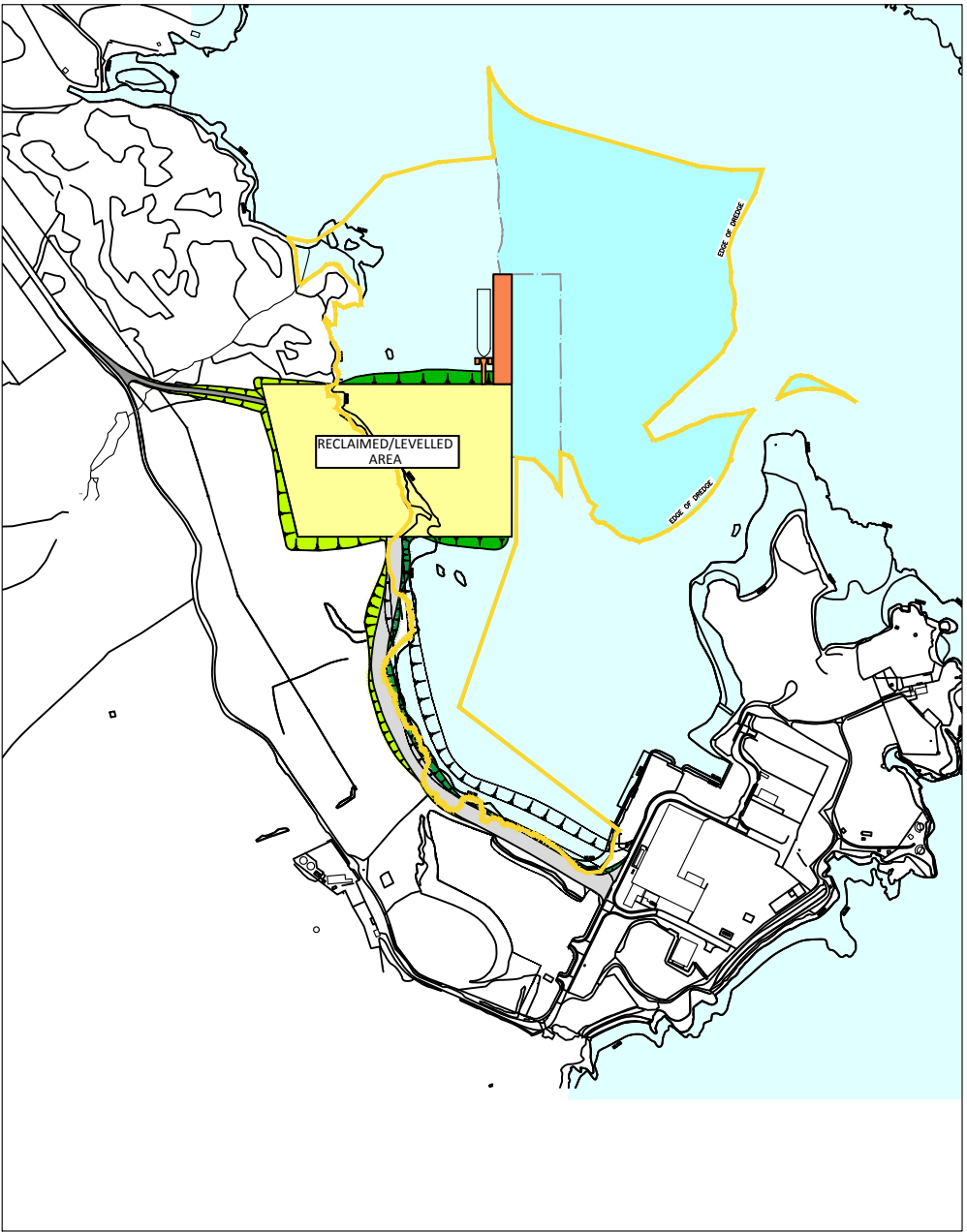
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EIA BOUNDARY

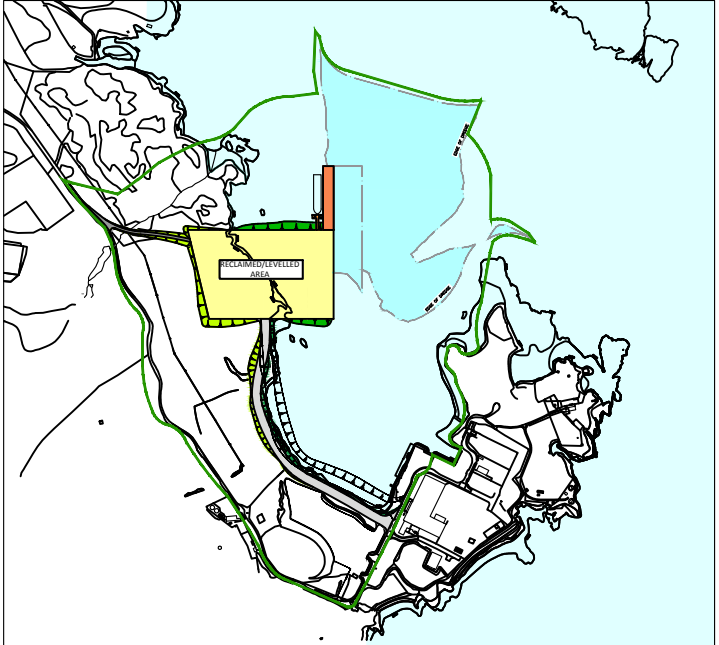
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PROJECT					
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DRAWING TITLE					
EIA FIGURE 2.2: FUTURE PHASING CONTEXT PLAN					
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Planning Permission in Principle Application Boundary



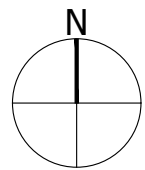
Marine Licences Application Boundary



Environmental Impact Assessment Boundary

The scaling of this drawing cannot be assured

Revision	Date	Drn	Ckd
-	-	-	-



LEGEND

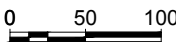
- Planning Permission in Principle Application Boundary
- Marine Licences Application Boundary
- Environmental Impact Assessment Boundary

Note : A Harbour Revision Order will cover selected marine and terrestrial based works. Please refer to accompanying HRO Plan of Works Drawings for extent of respective works.

Project
Stornoway Deep Water Port

Drawing Title
Figure 2.3 Consenting Context Plan

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Project No	Drawing No	Revision	
27670	01	M	



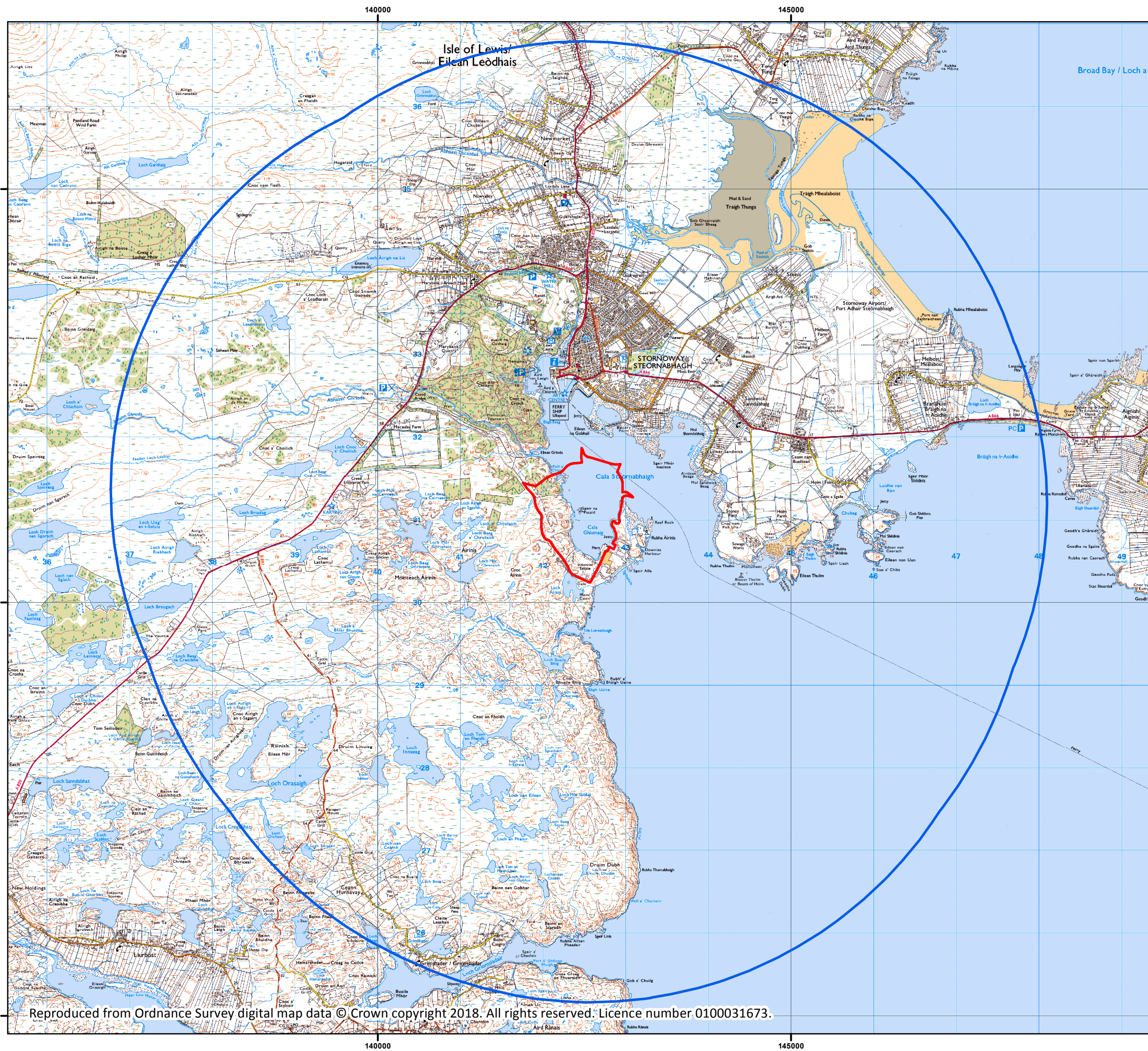
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- Legend
- Deep Water Port Site Boundary
111.79 hectares
 - Study Area 5km Buffer

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Stornoway Port Authority

Project
Stornoway Deep Water Port

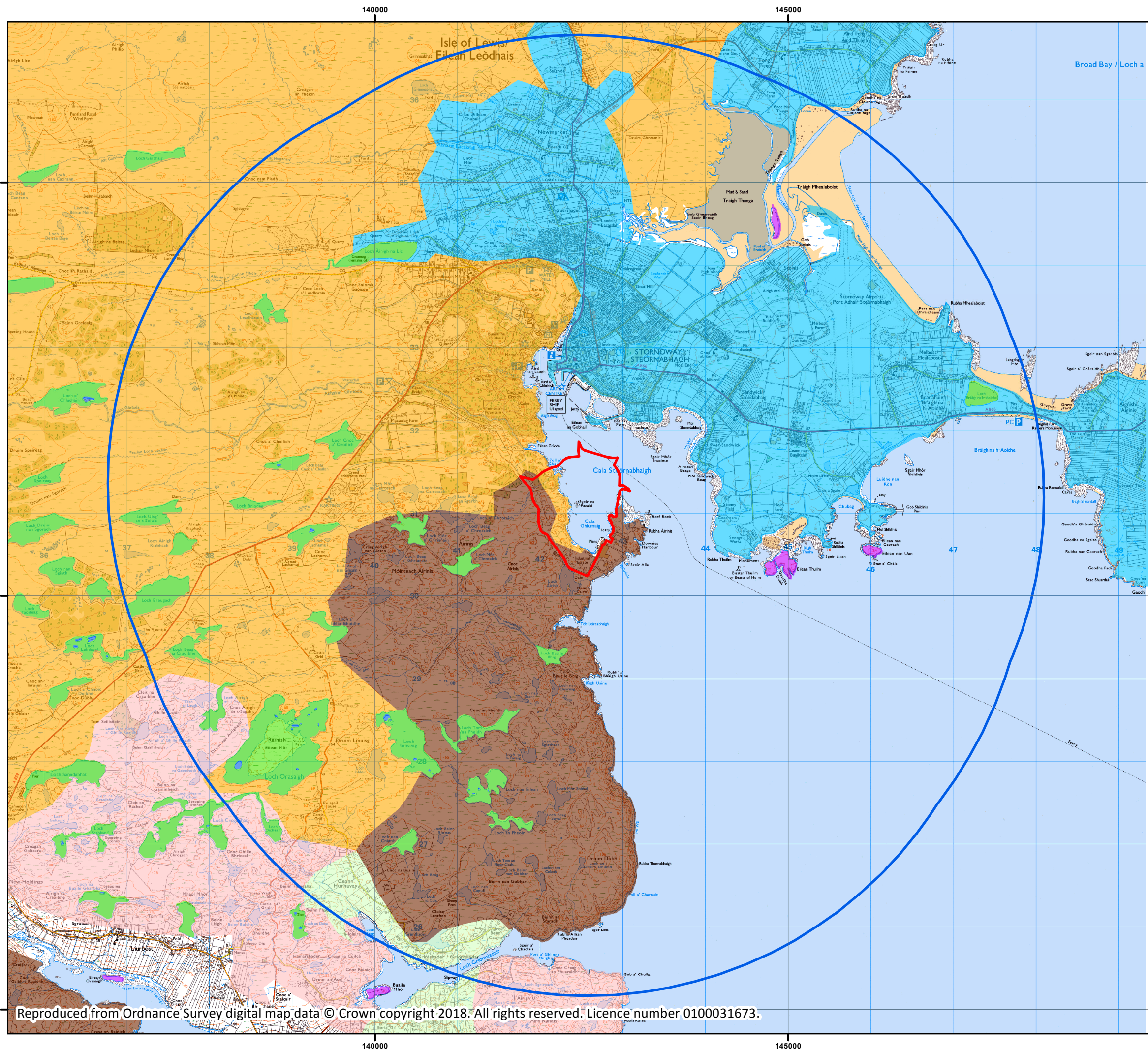
Title
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Status	FINAL
Drawing No. 670525-001	Revision

Scale 1:45,000	A3	Date 7 June 2018
Drawn GV	Checked GV	Approved CP



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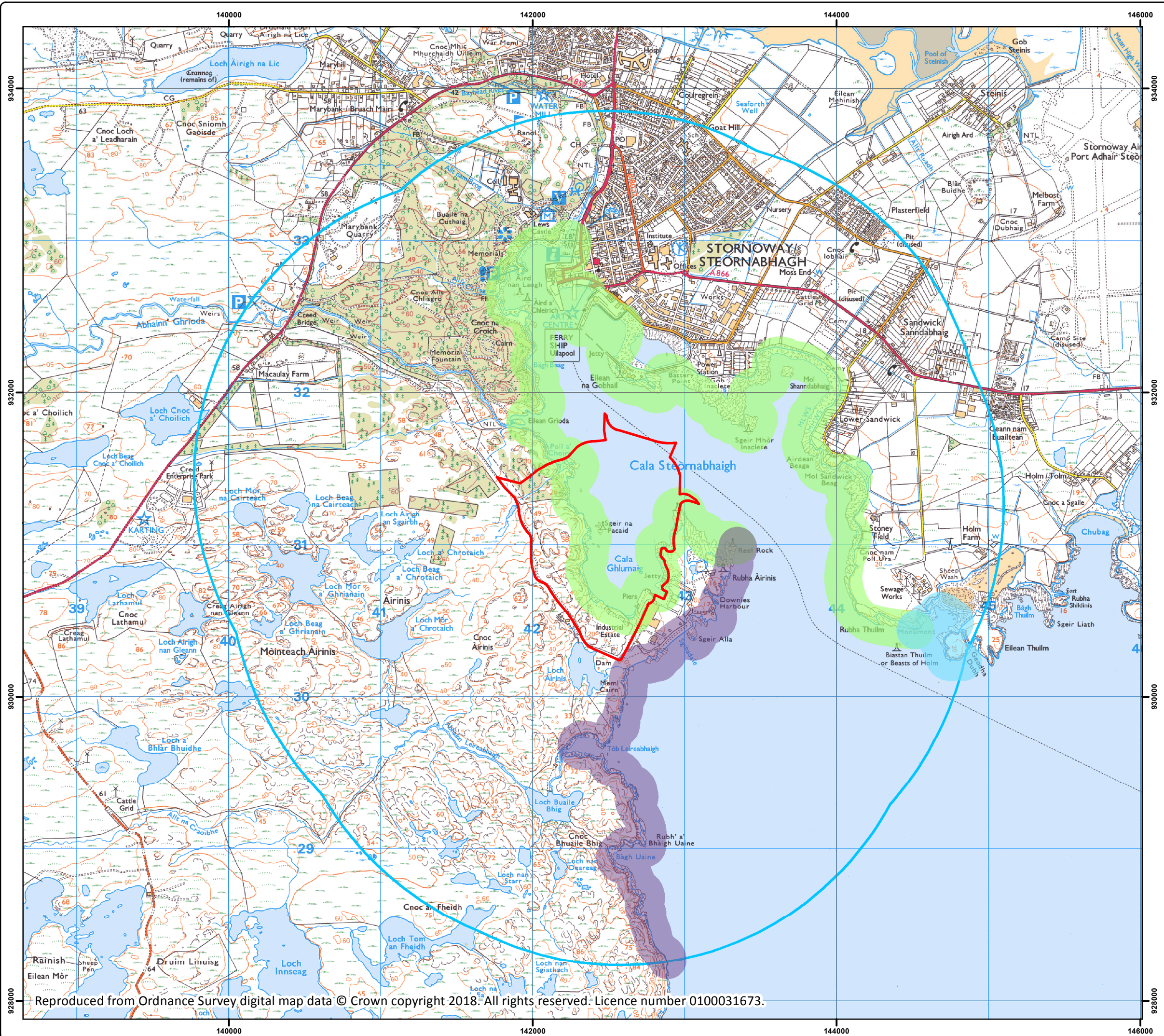
Legend

- Deep Water Port Site Boundary
111.79 hectares
- Study Area 5km Buffer
- Boggy Moorland
- Coastal Island
- Crofting One
- Crofting Three
- Inland Loch
- Knock and Lochan
- Loch Island
- Rocky Moorland

As per the Western Isles landscape character assessment, 1998.

Do not scale this map


Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 4.2: Landscape Character		
Status		
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GV	GV	CP
		
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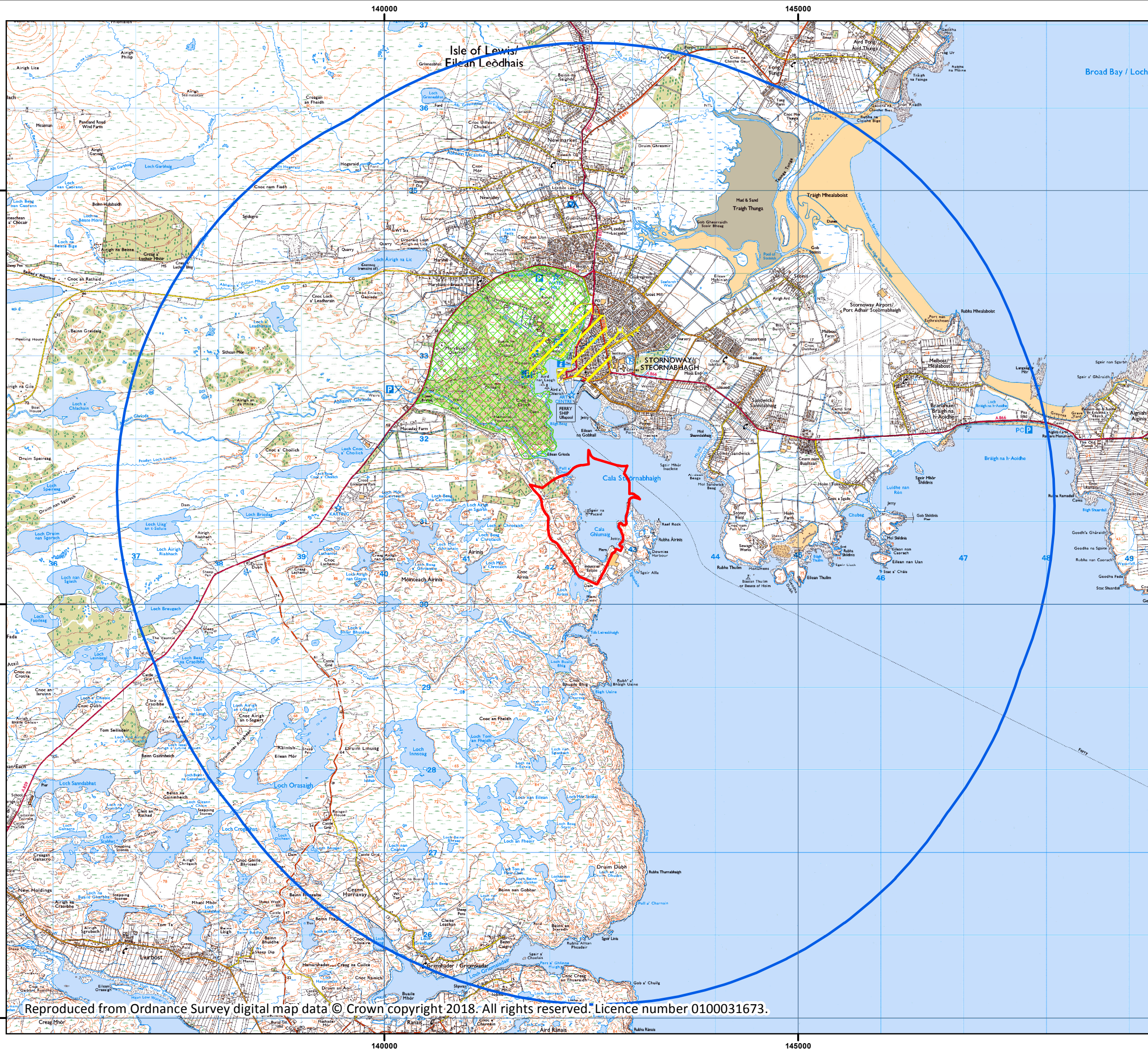
- Legend
- Deep Water Port Site Boundary
111.79 hectares
 - Coastal Character Area
 - Arnish Approaches Coastline
 - Holm/Braighe Coast
 - Stornoway Harbour
 - Study Area 2km Buffer

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Client		
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Project		
Stornoway Deep Water Port		
Title		
Figure 4.3: Coastal Character		
Status		
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Drawing No.	Revision	
670525-003		
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1:24,000		7 June 2018
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Legend

- Deep Water Port Site Boundary
111.79 hectares
- Study Area 5km Buffer
- Lews Castle and Lady Lever Park
Garden and Designed Landscape
- Stornoway Conservation Area

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Client
Stornoway Port Authority

Project
Stornoway Deep Water Port

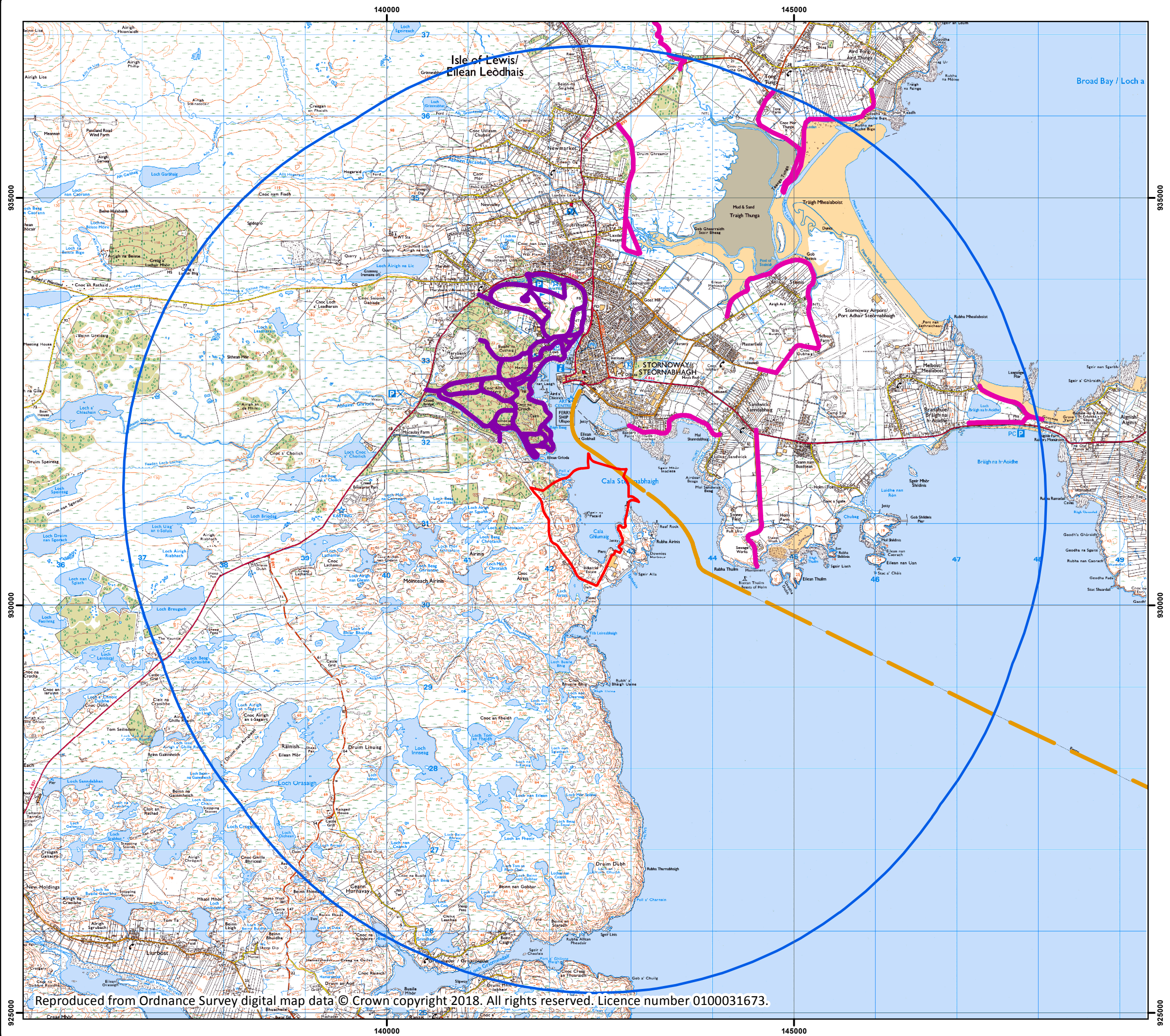
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Status
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Drawing No. 670525-004	Revision
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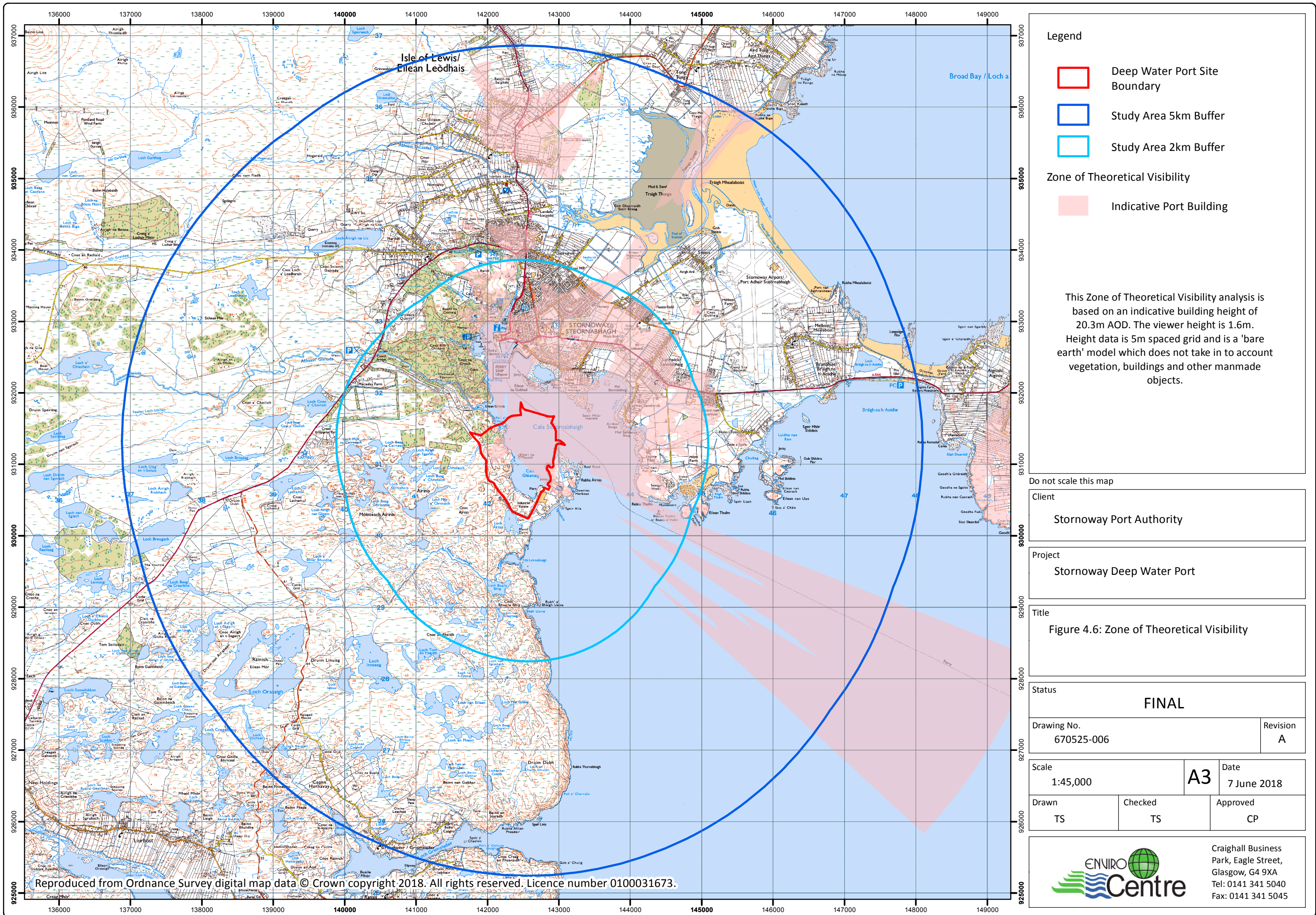


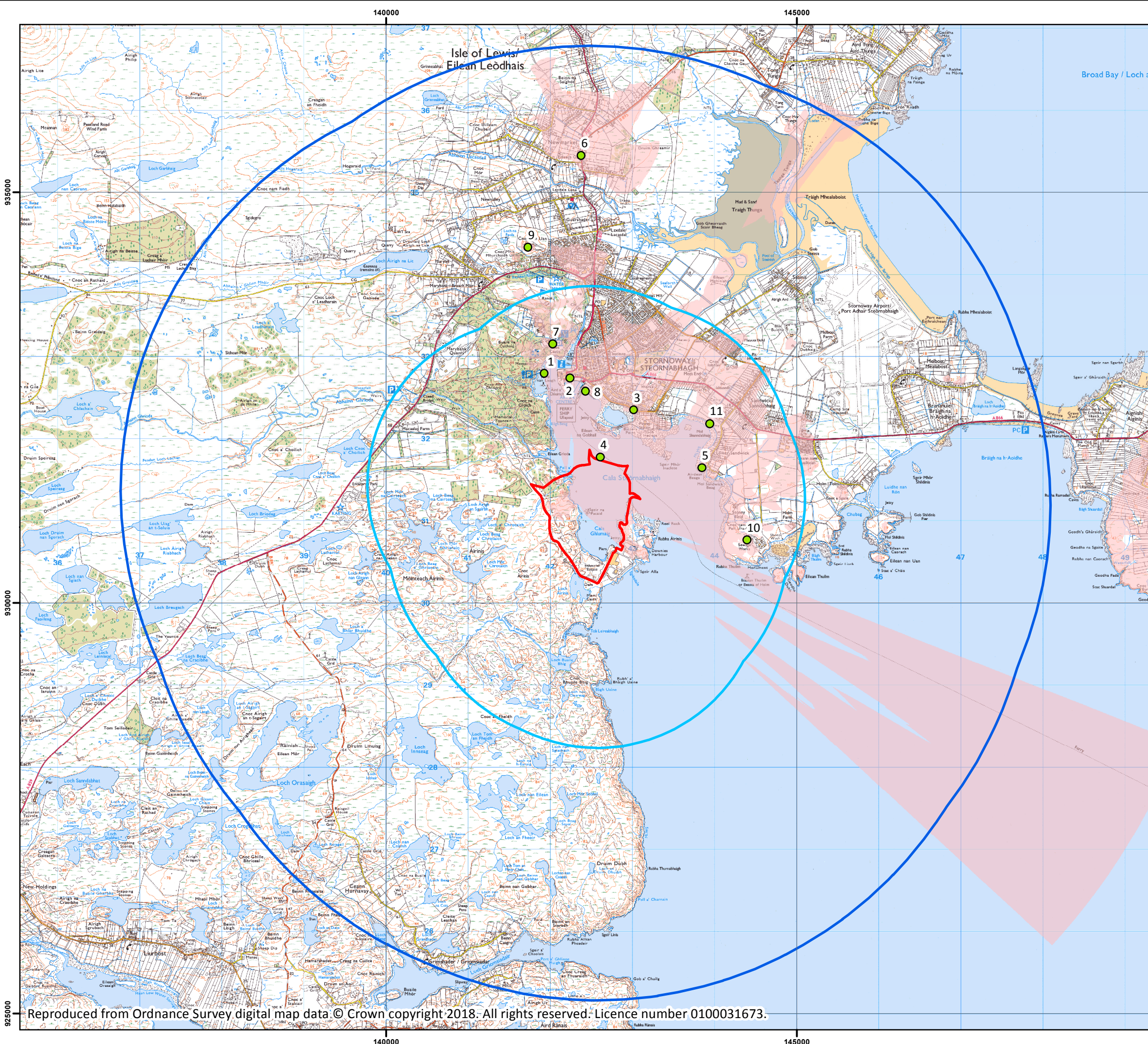
- Legend
- Study Area 5km Buffer
 - Deep Water Port Site Boundary 111.79 hectares
 - Approximate Ferry Route (Ullapool to Stornoway)
- Path Network
- Core Path
 - Wider Path Network

Do not scale this map

Client		
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Project		
Stornoway Deep Water Port		
Title		
Figure 4.5: Recreational Routes		
Status		
FINAL		
Drawing No.	Revision	
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Legend

- Deep Water Port Site Boundary
111.79 hectares
- Study Area 5km Buffer
- Study Area 2km Buffer

Zone of Theoretical Visibility

- Indicative Port Building

- Viewpoint

1. Cuddy Point (NB 41927, 32795)
2. South Beach (NB 42240, 32738)
3. Newton Street (NB 43017, 32348)
4. Harbour (NB 42608, 31772)
5. Lower Sandwick (NB 43849, 31643)
6. Newmarket (NB 42378, 35446)
7. Lews Castle (NB 42030, 33153)
8. Ferry Terminal (NB 42428, 32576)
9. Lewis War Memorial (NB 41727, 34329)
10. Iolaire Monument Carpark (NB 44396, 30768)
11. Sandwick Bay (NB 43943, 32183)

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Client
Stornoway Port Authority

Project
Stornoway Deep Water Port

Title
Figure 4.7: Viewpoint Selection with ZTV

Status
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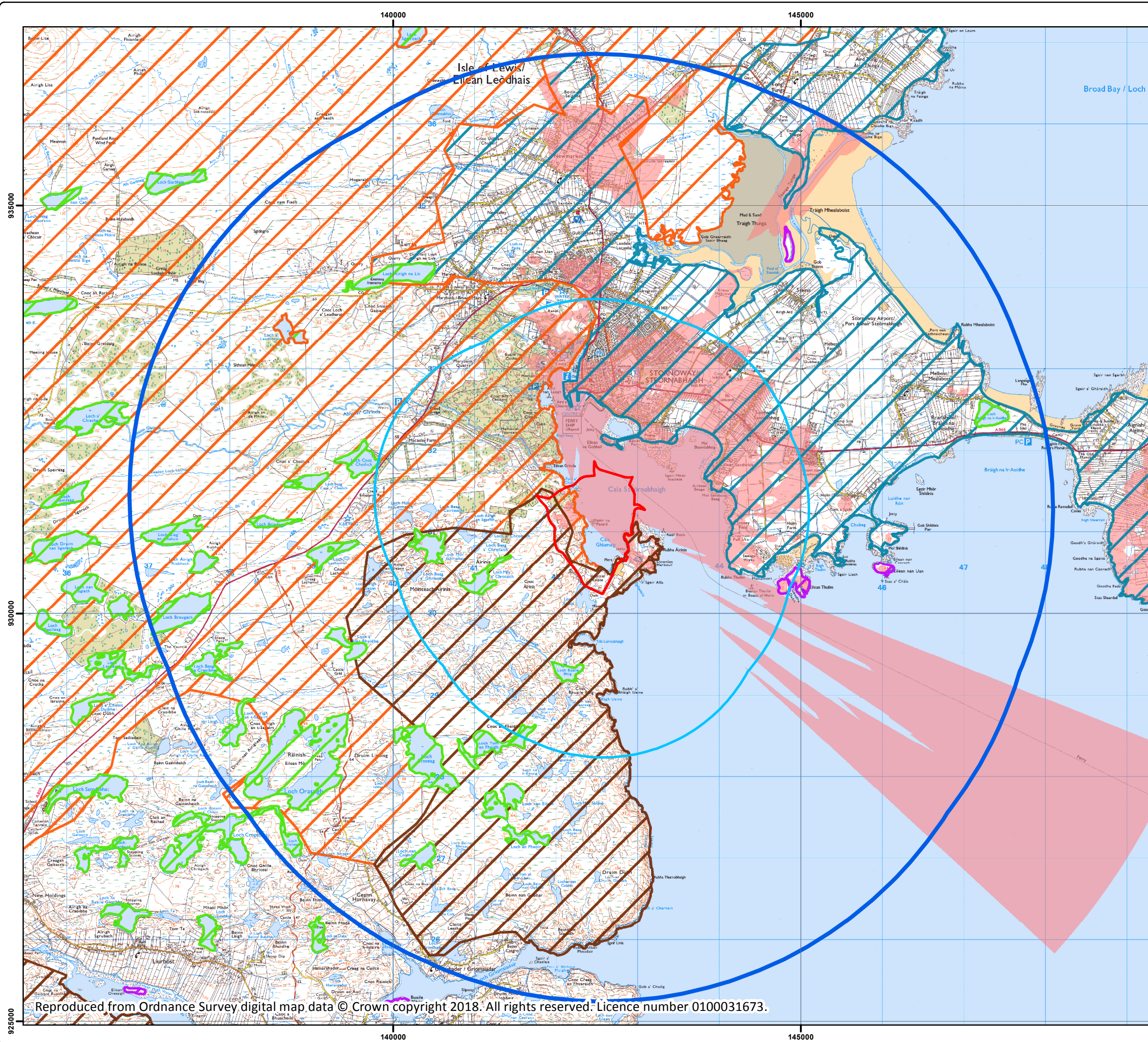
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TS	TS	CP



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Legend

- Deep Water Port Site Boundary
111.79 hectares
- Study Area 2km Buffer
- Study Area 5km Buffer

Landscape Character Types

- Boggy Moorland
- Coastal Island
- Crofting One
- Inland Loch
- Rocky Moorland

Zone of Theoretical Visibility

- Indicative Port Building

Do not scale this map

Client

Stornoway Port Authority

Project

Stornoway Deep Water Port

Title

Figure 4.8: Landscape Character with ZTV

Status

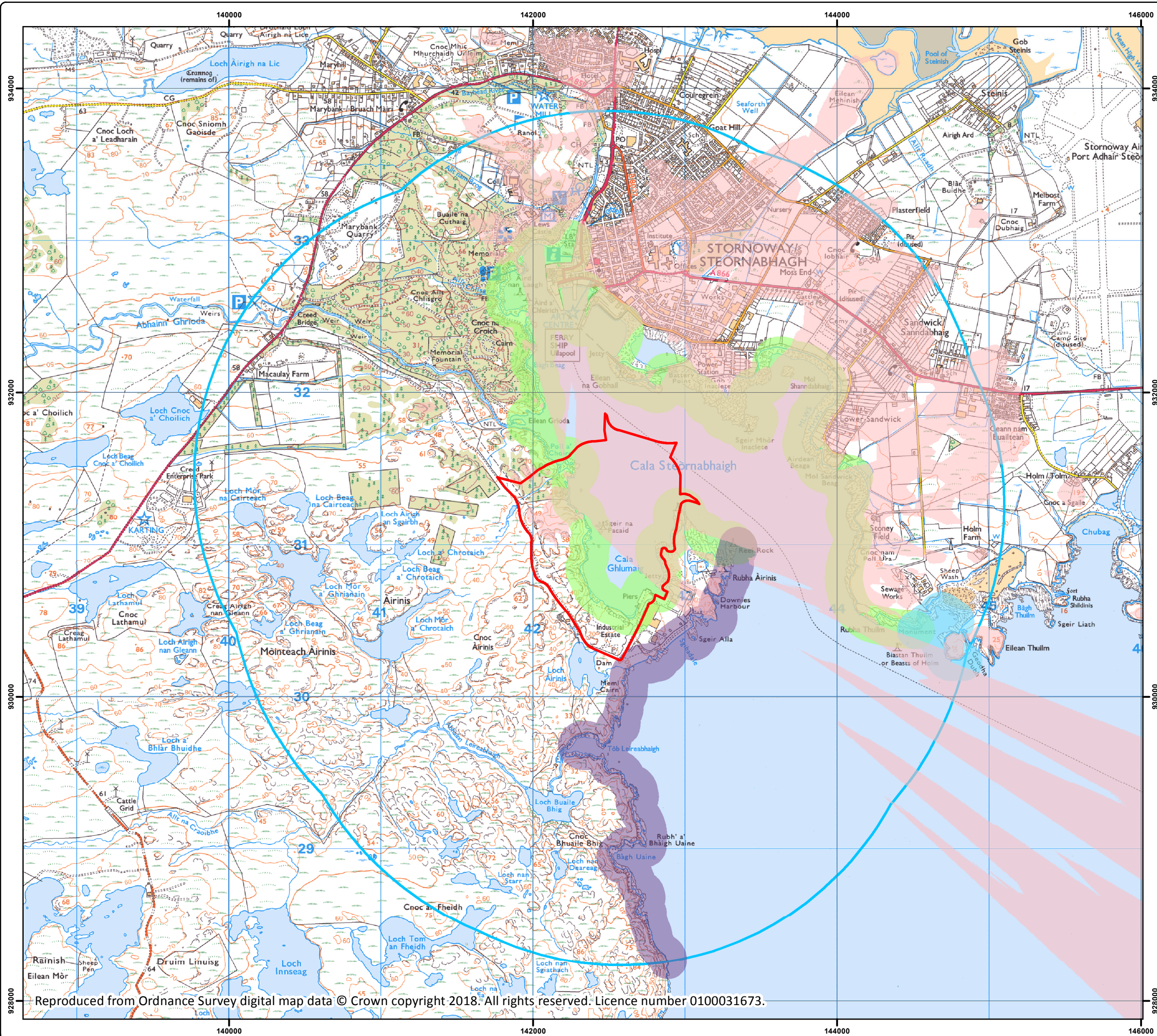
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TS	TS	CP

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- Legend
- Deep Water Port Site Boundary
111.79 hectares
 - Study Area 2km Buffer
 - Zone of Theoretical Visibility
 - Indicative Port Building
 - Coastal Character Area
 - Arnish Approaches Coastline
 - Stornoway Harbour
 - Holm/Braighe Coast

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Client
Stornoway Port Authority

Project
Stornoway Deep Water Port

Title
Figure 4.9: Coastal Character Area with ZTV

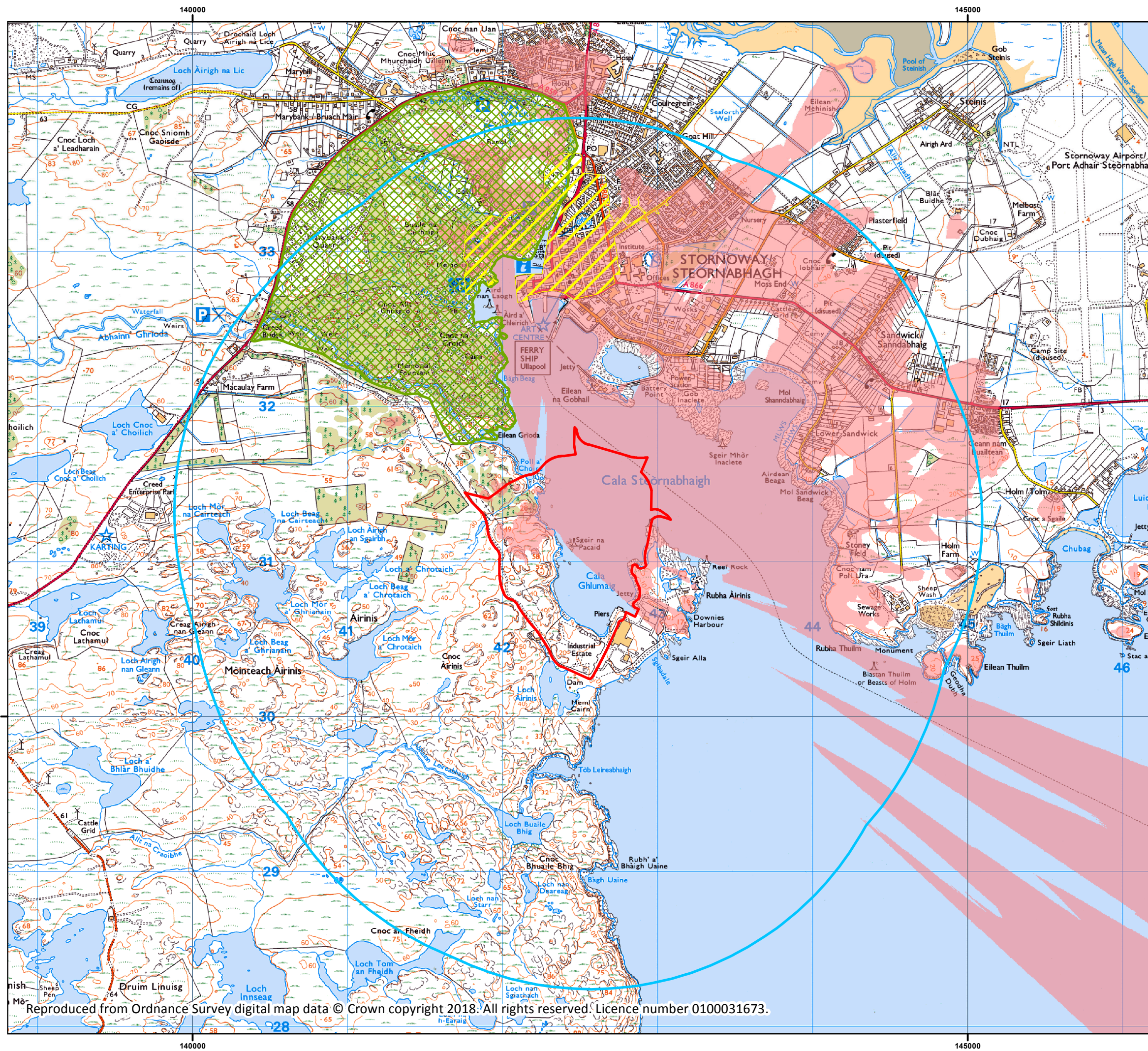
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Legend


- Deep Water Port Site Boundary
111.79 hectares
- Study Area 2km Buffer
- Lews Castle and Lady Lever Park
Garden and Designed Landscape
- Stornoway Conservation Area

Zone of Theoretical Visibility

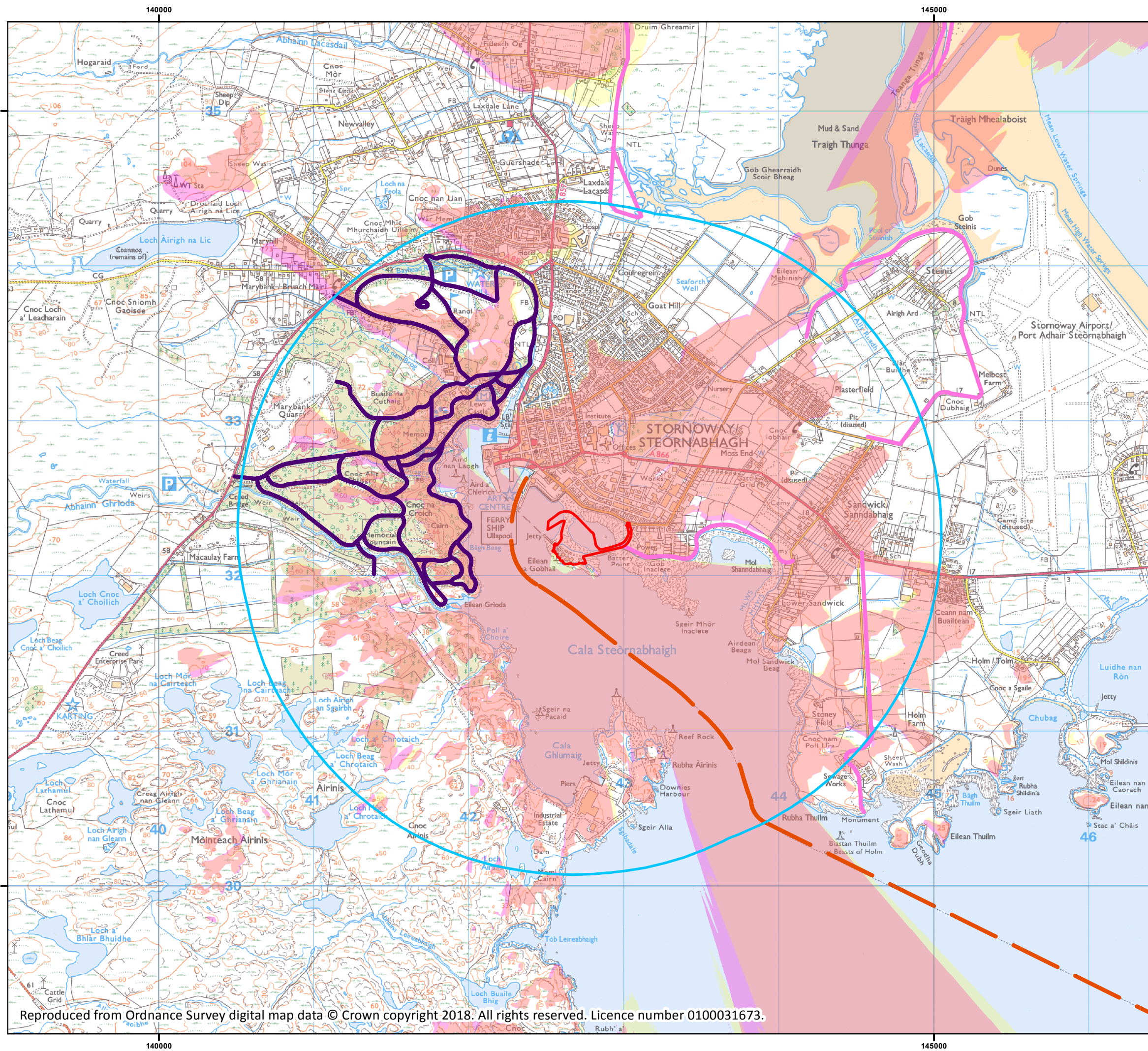
- Indicative Port Building

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Project	Stornoway Deep Water Port	
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Scale	1:24,000	A3
Date	7 June 2018	
Drawn	TS	Checked
TS	TS	Approved
		CP



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Legend

- Newton Marina Site Boundary 7.24 hectares
- Study Area 2km Buffer
- Approximate Ferry Route (Ullapool to Stornoway)

Paths


- Core Path
- Wider Path Network

Zones of Theoretical Visibility

- Boat House Visibility
- Boat House & Mast Visibility
- Boat Mast Visibility

Do not scale this map

Client		
Stornoway Port Authority		
Project		
Newton Marina		
Title		
Figure 4.11: Recreational Routes with ZTV		
Status		
FINAL		
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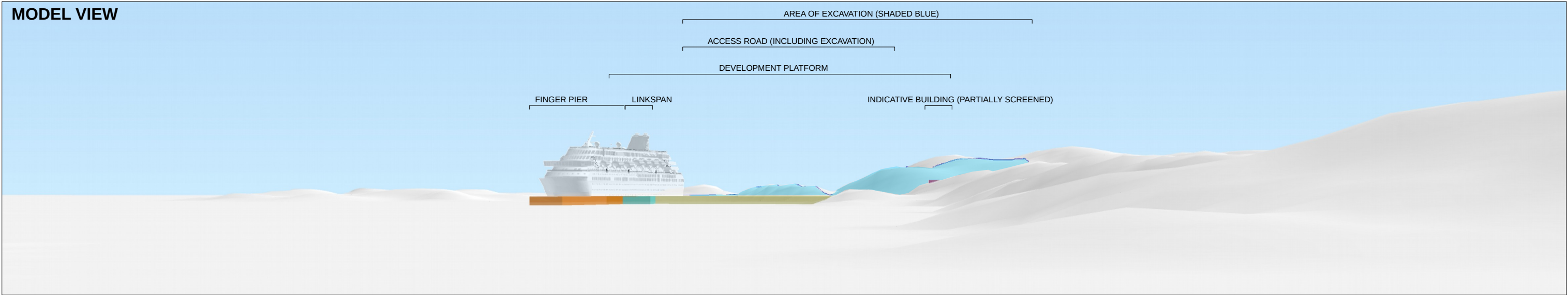


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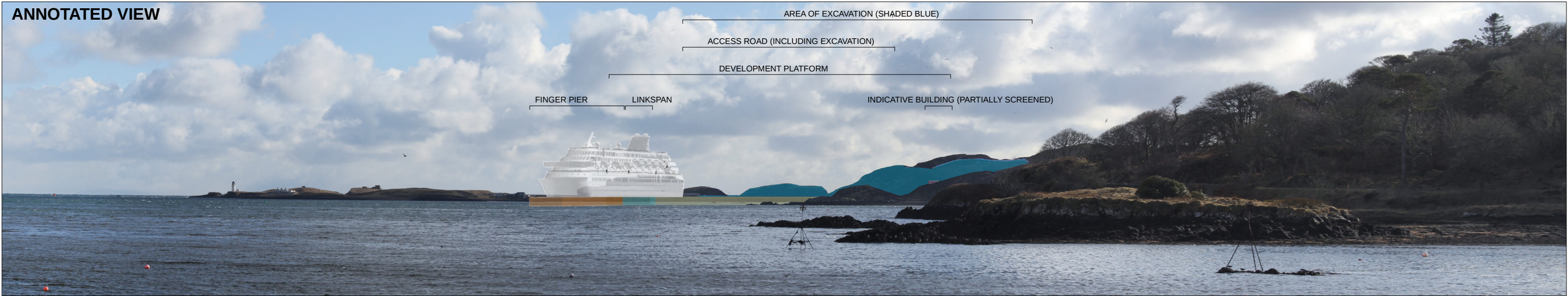
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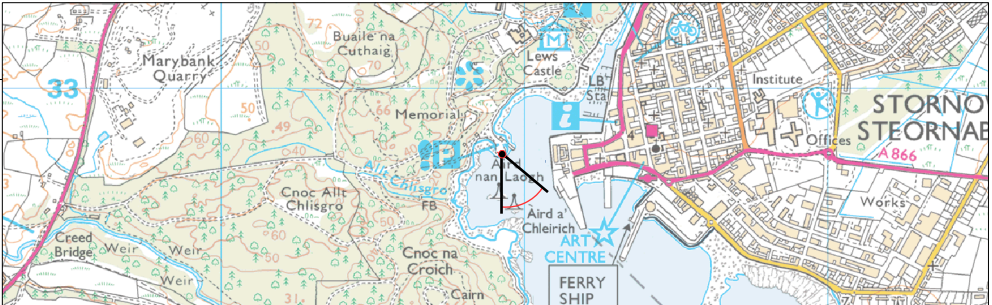
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Douglas Harman CMLI
Landscape Planning

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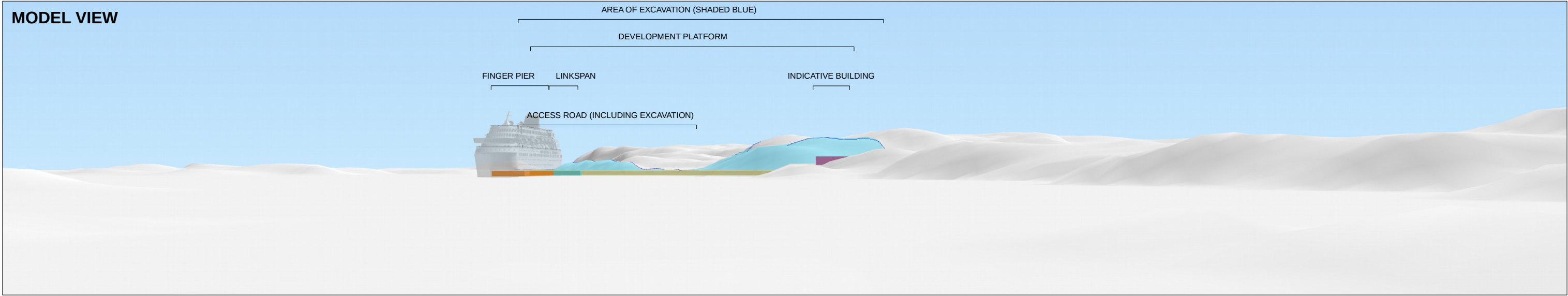
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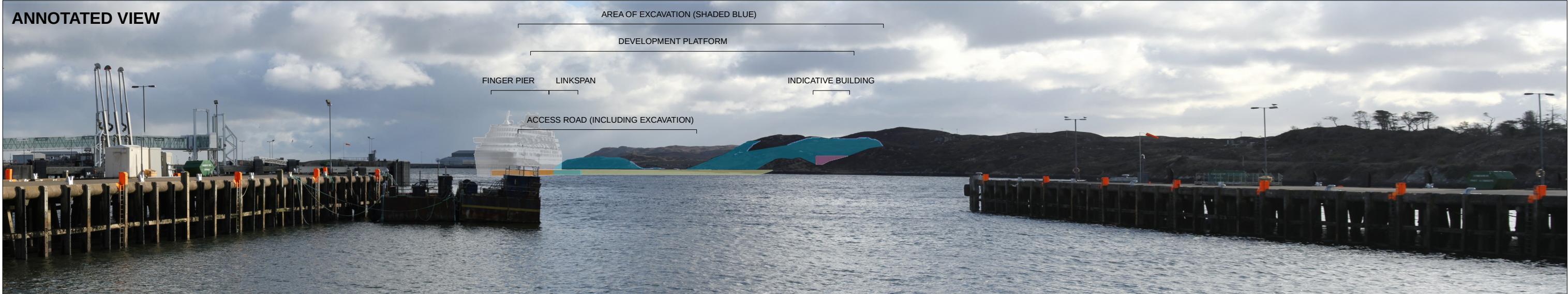
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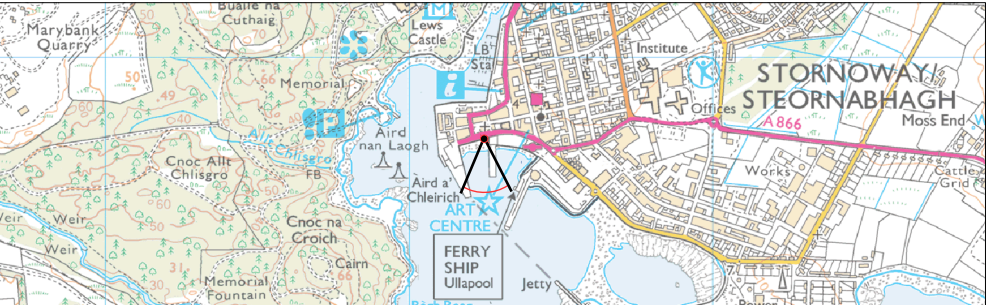
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Douglas Harman CMLI
Landscape Planning

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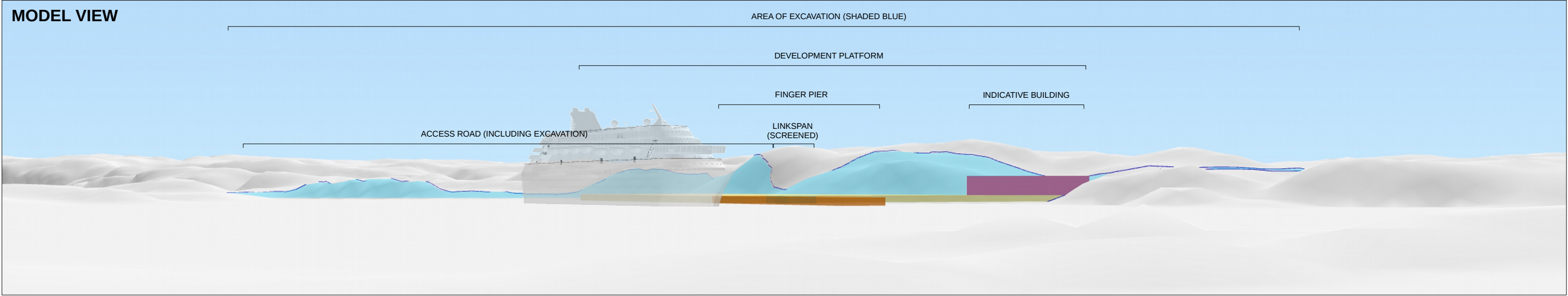
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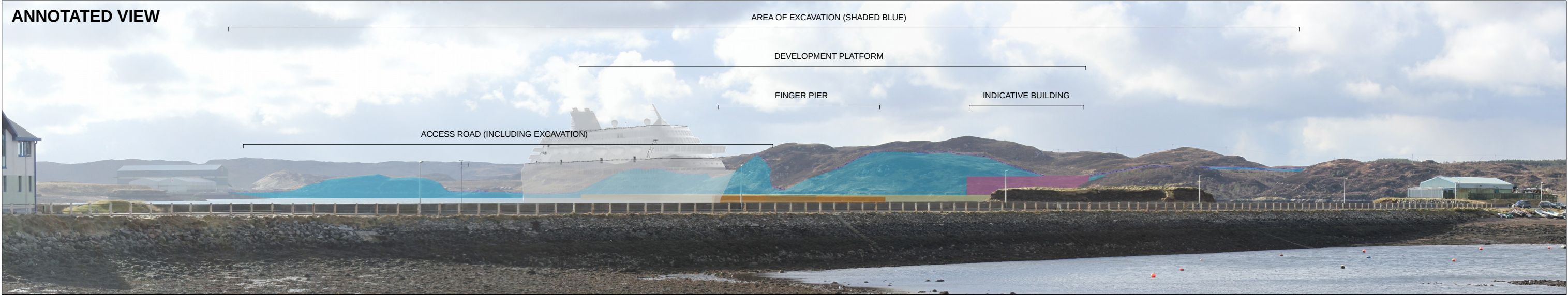
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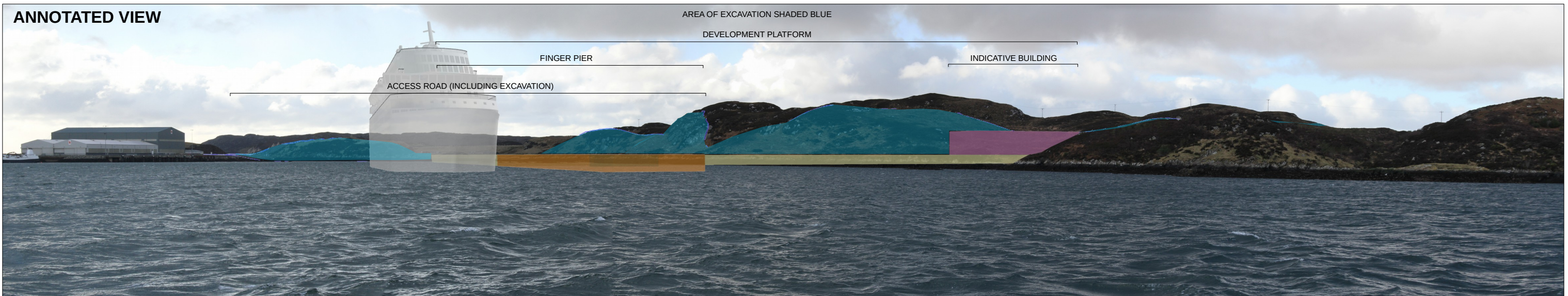
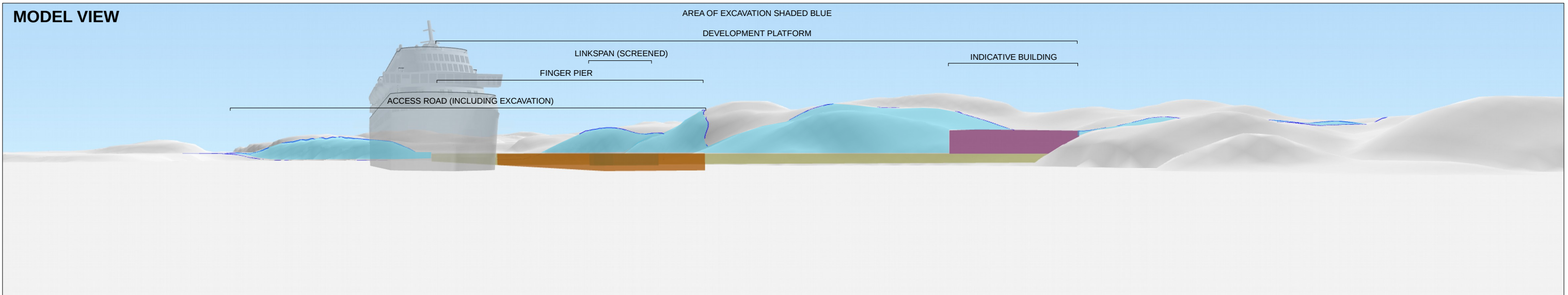


MODEL VIEW



ANNOTATED VIEW

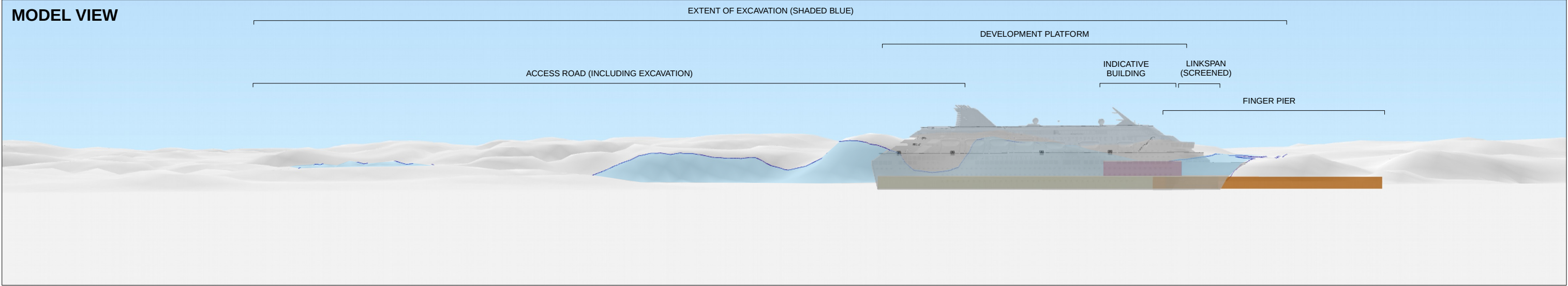




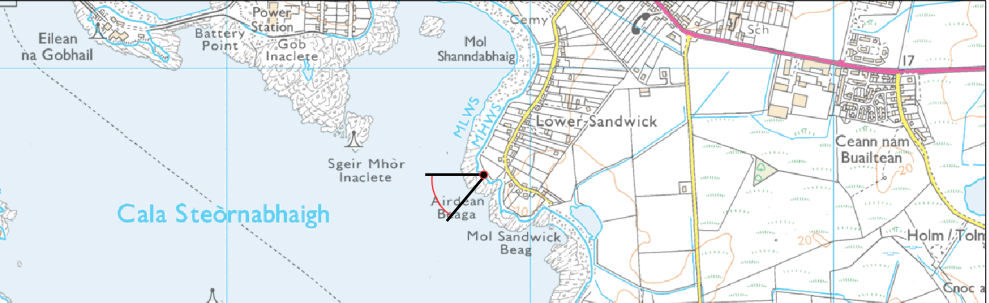
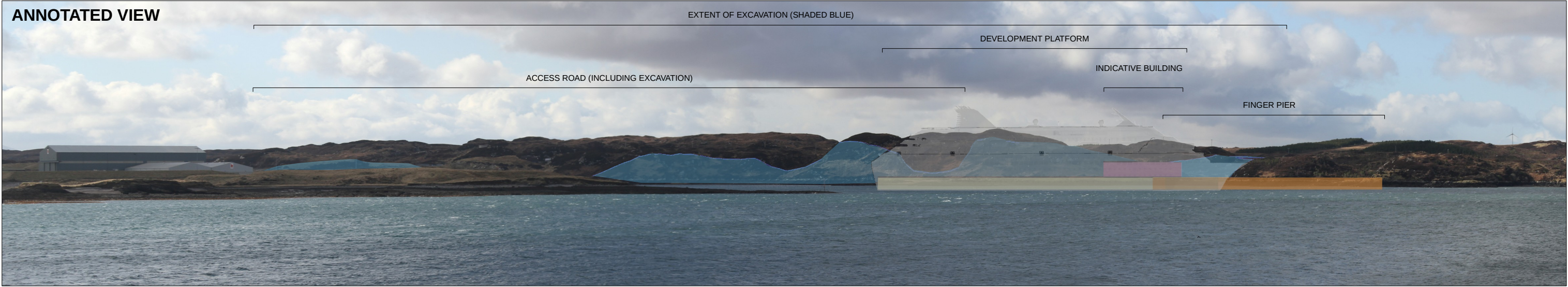
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MODEL VIEW



ANNOTATED VIEW



EXISTING VIEW



MODEL VIEW



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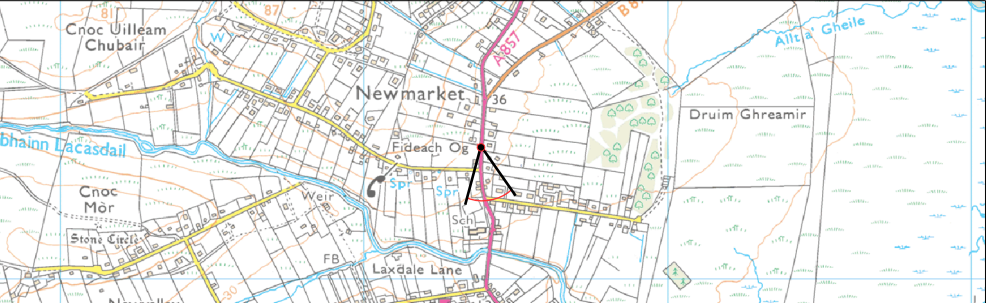
Douglas Harman

CMLI

Landscape Planning

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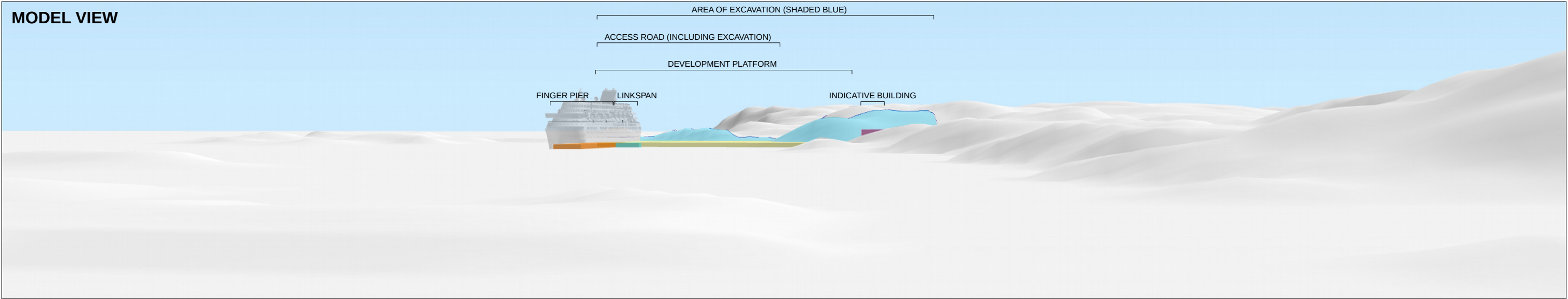
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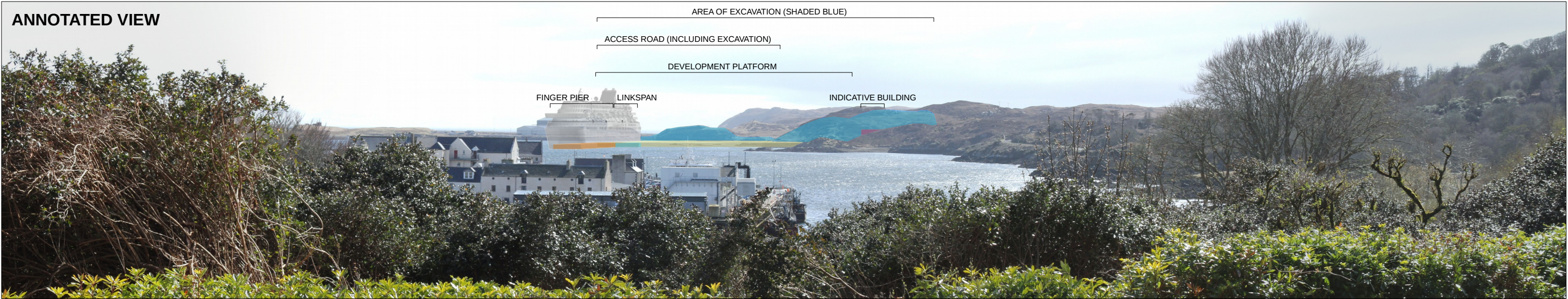
EXISTING VIEW



MODEL VIEW



ANNOTATED VIEW



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Landscape Planning

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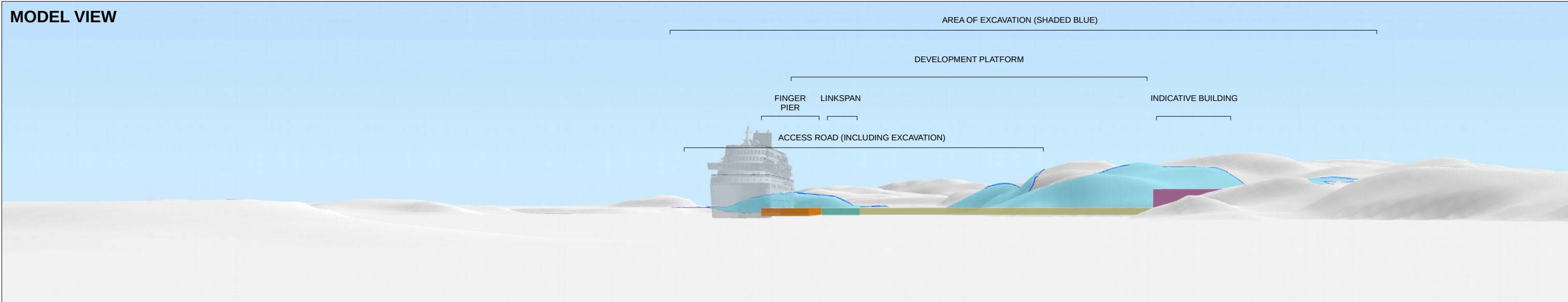
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Photo date/time: 16/04/2018 14:25



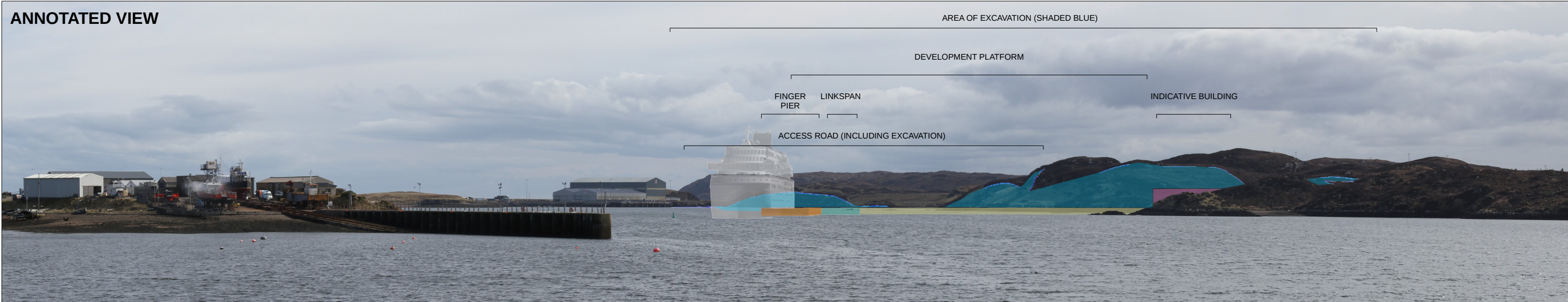
EXISTING VIEW



MODEL VIEW



ANNOTATED VIEW



EXISTING VIEW



MODEL VIEW



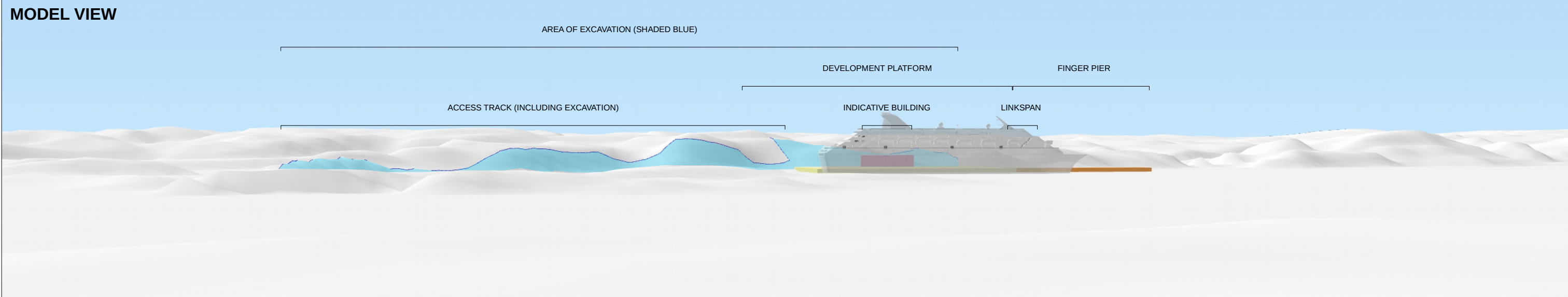
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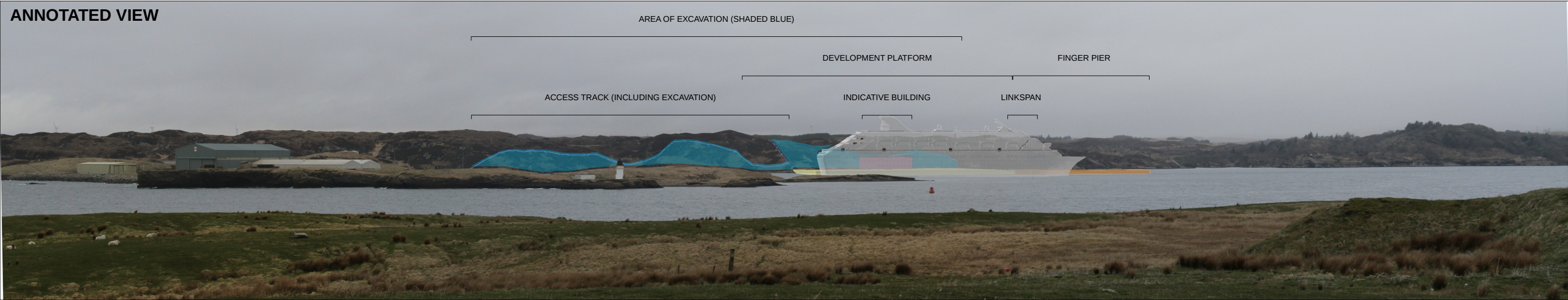
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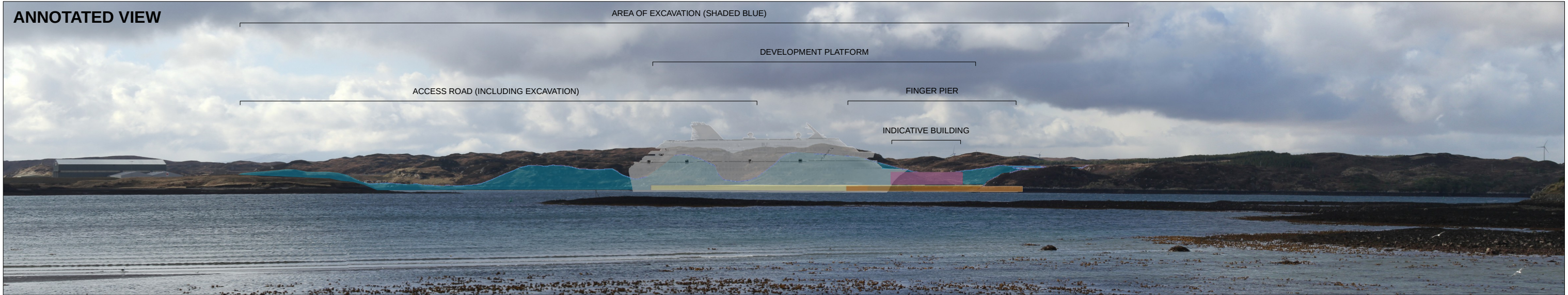
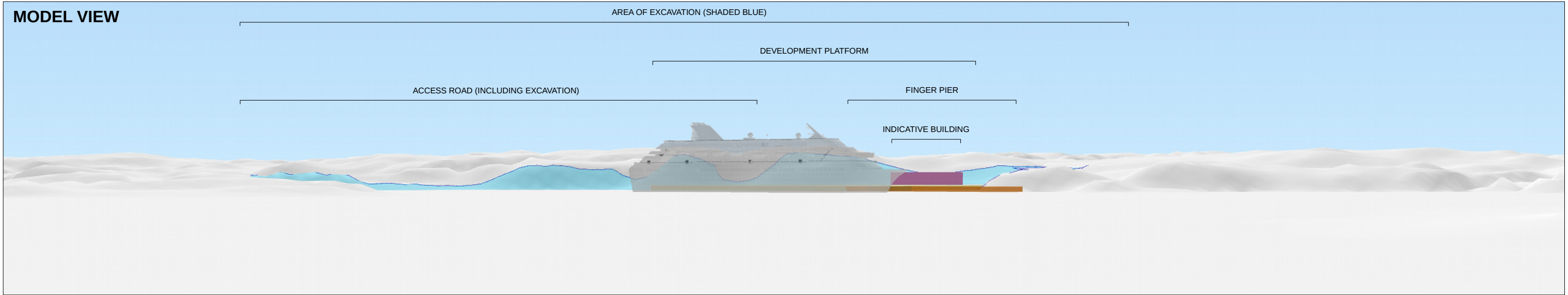




MODEL VIEW

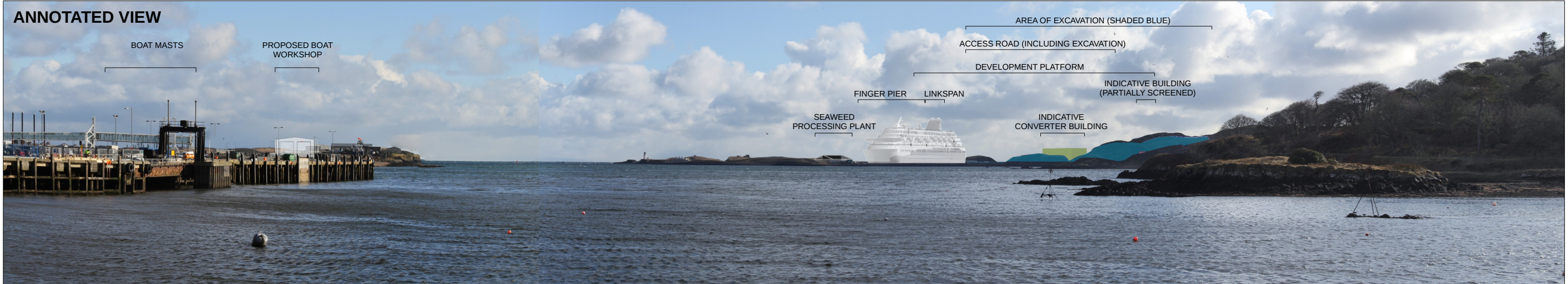
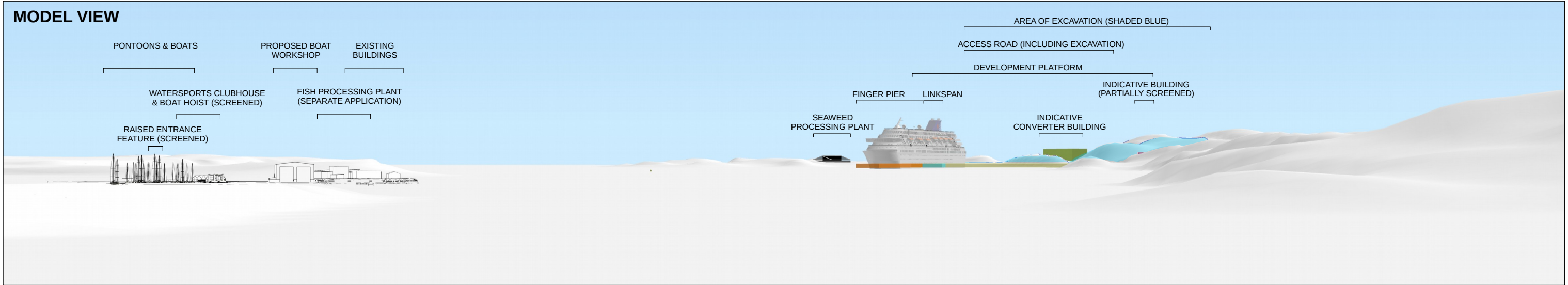


ANNOTATED VIEW





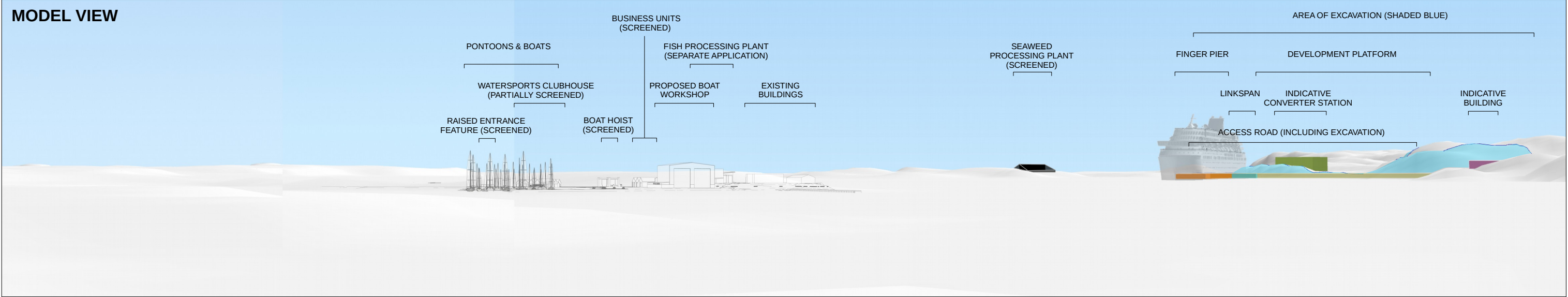
	Viewpoint no: 11 Viewpoint name: Sandwick Bay Grid ref: NB 43943 32183 View direction: 235° Field of view: 50°	Project: Deep Water Port Figure no: 4.22 Drawn by: MW Checked by: DH Camera: Canon EOS 7D Photo date/time: 28/02/2018 13:00	
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EXISTING VIEW



MODEL VIEW

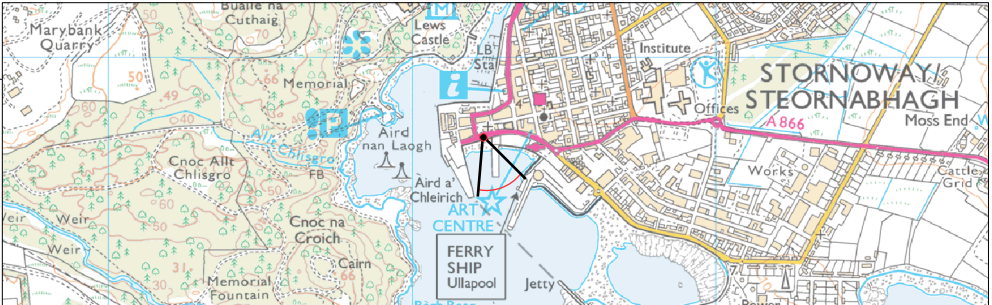


ANNOTATED VIEW



Viewpoint no: 2
Viewpoint name: South Beach
Grid ref: NB 42240 32738
View direction: 160°
Field of view: 50°

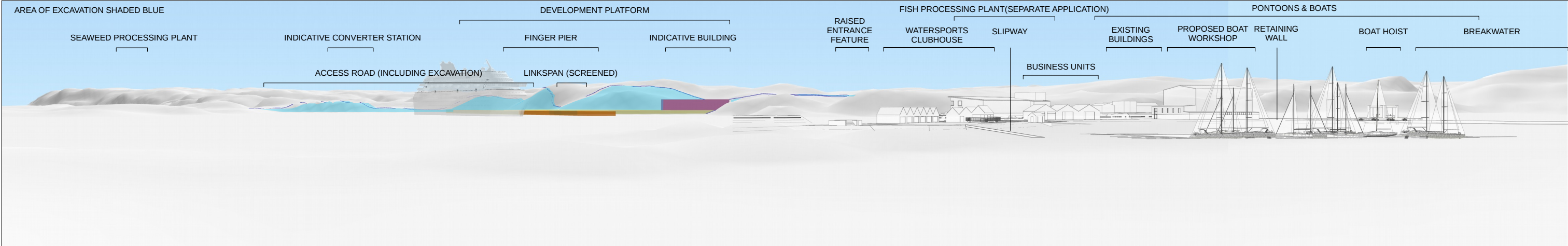
Project: Deep Water Port
Drawing no: 4.24
Drawn by: MW
Checked by: DH
Camera: Canon EOS 7D
Photo date/time: 28/02/2018 16:00



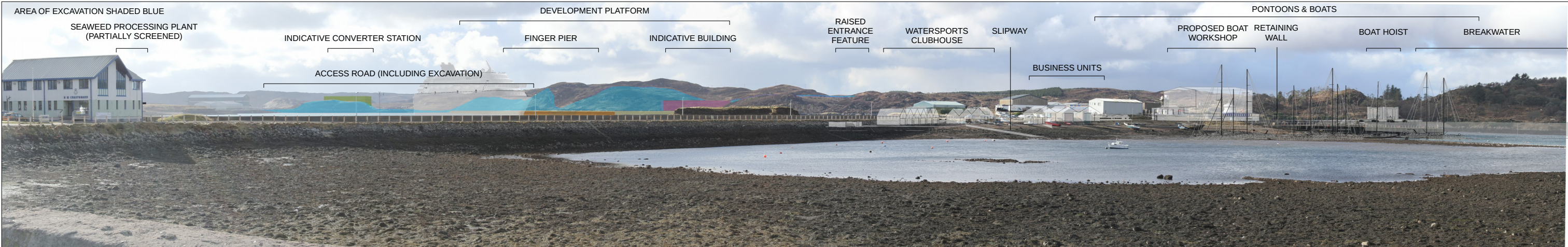
EXISTING VIEW



MODEL VIEW



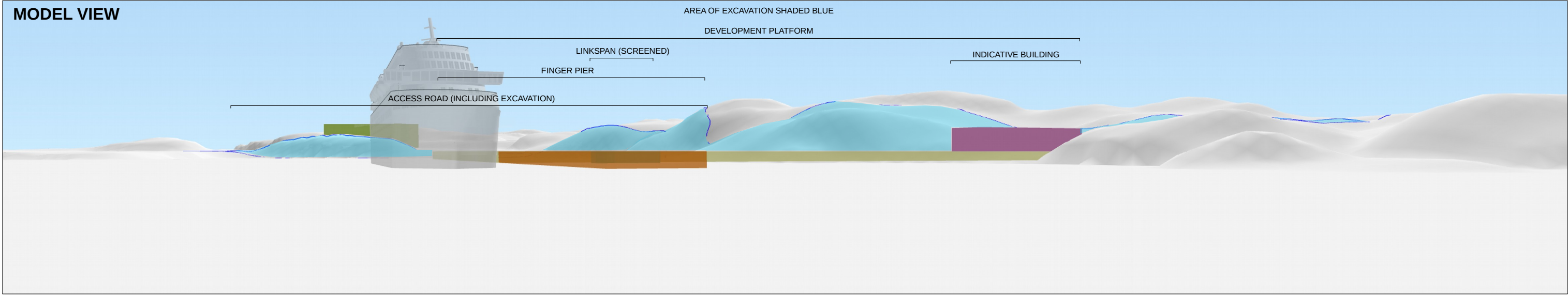
ANNOTATED VIEW



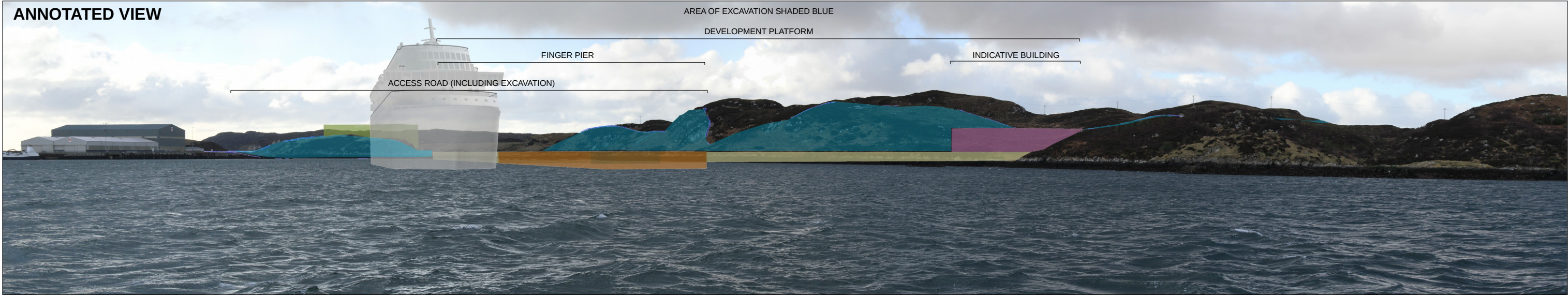
EXISTING VIEW

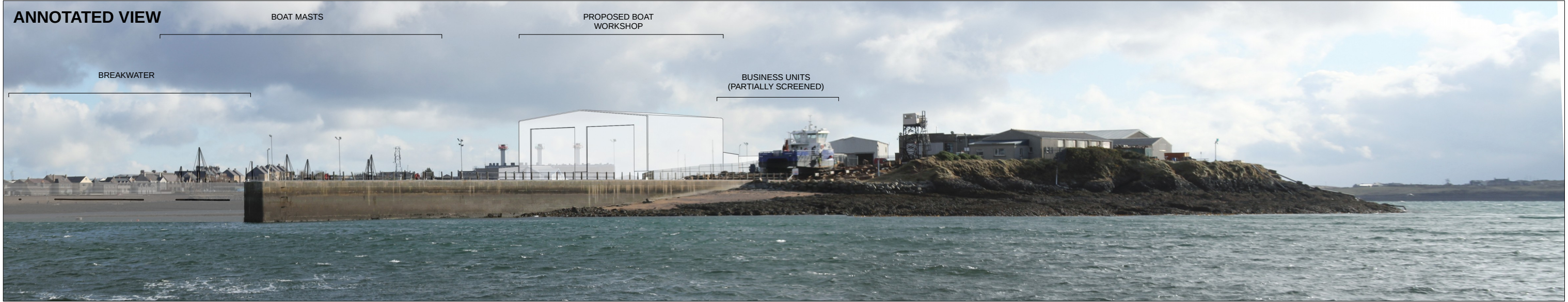
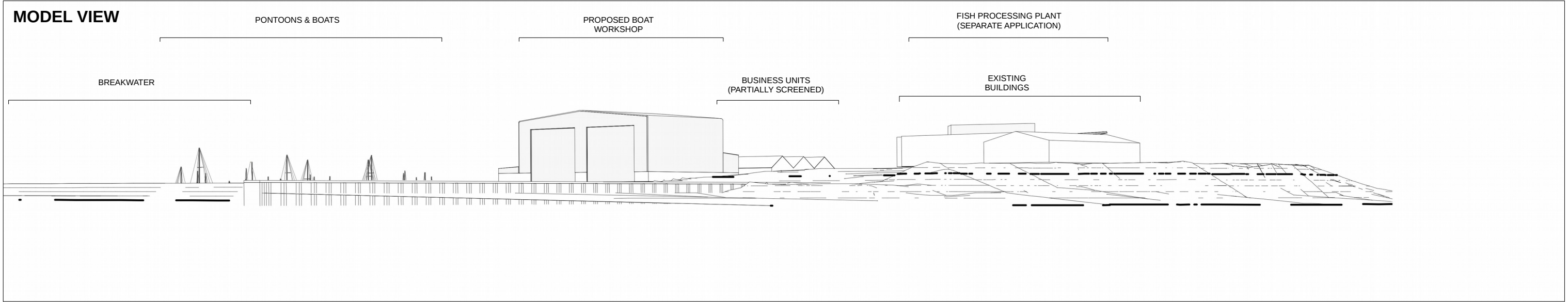


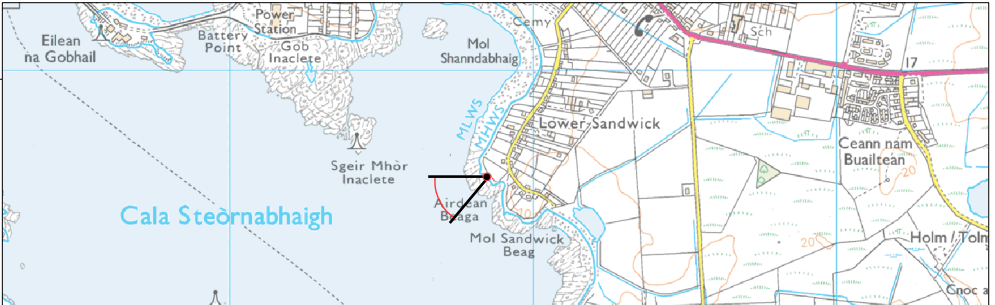
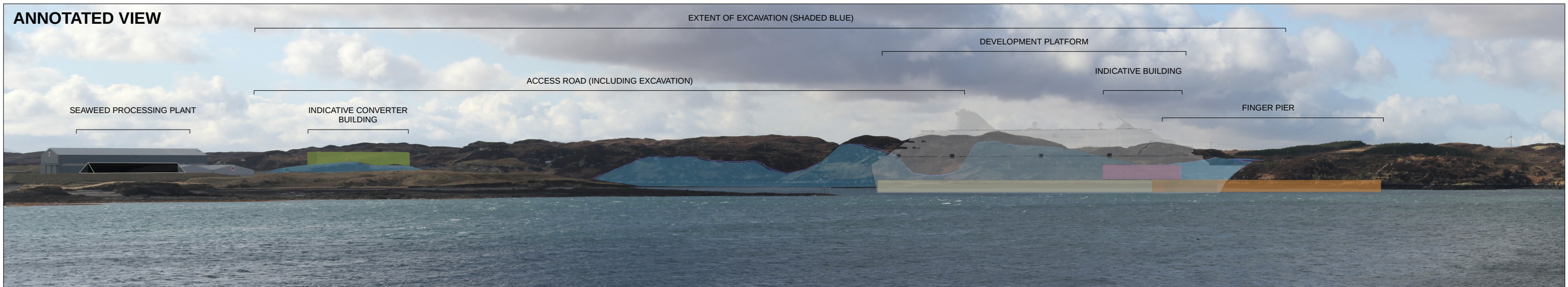
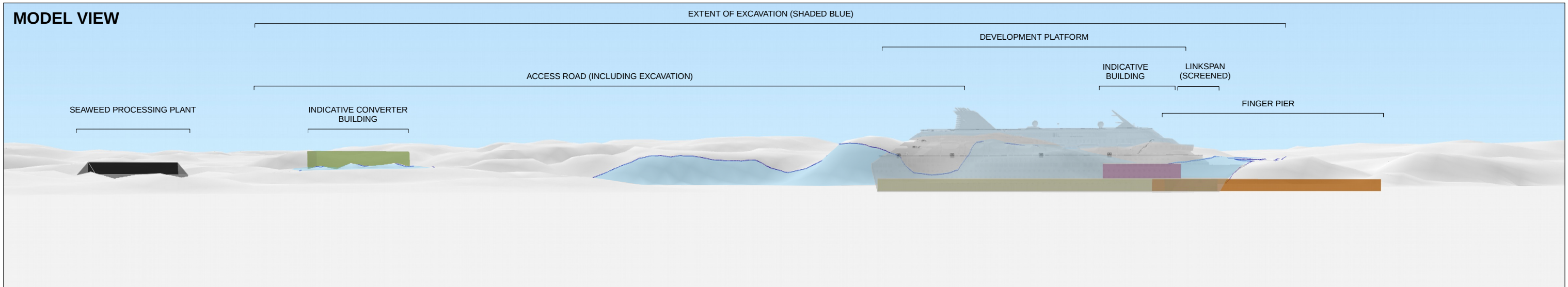
MODEL VIEW



ANNOTATED VIEW



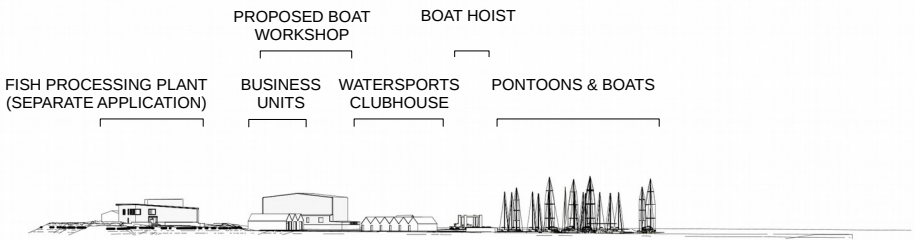




EXISTING VIEW



MODEL VIEW



ANNOTATED VIEW





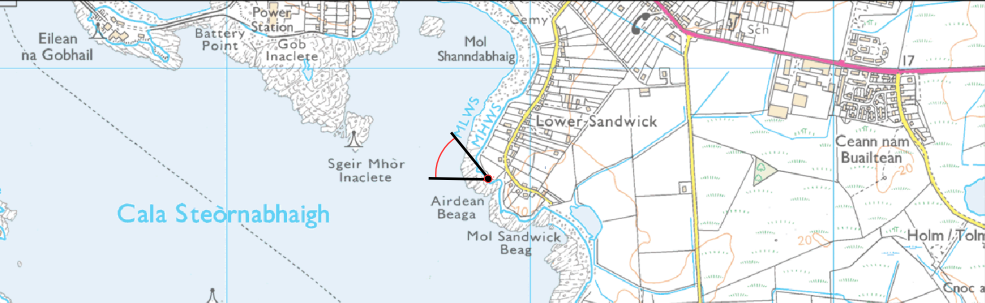
Douglas Harman

CMLI

Landscape Planning

Viewpoint no:	5b
Viewpoint name:	Lower Sandwick
Grid ref:	NB 43849 31643
View direction:	240°
Field of view:	50°

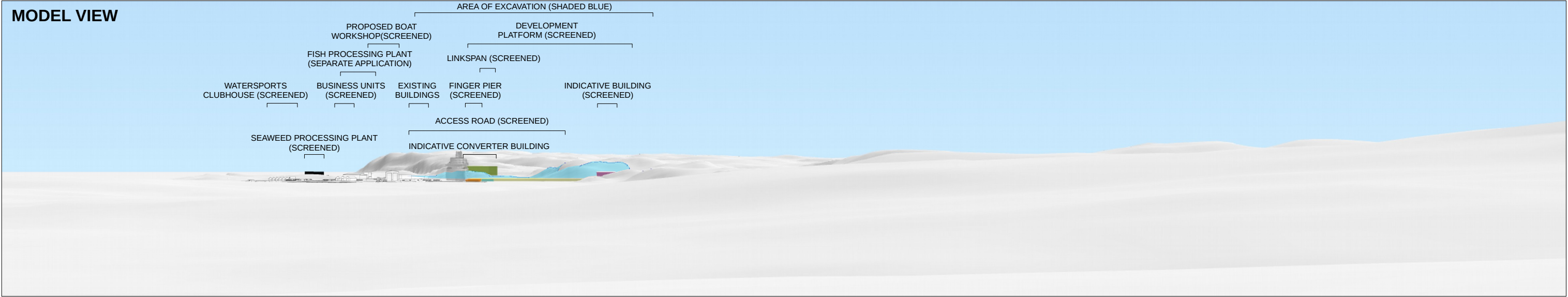
Project:	Stornoway Deep Water Port
Drawing no:	4.27b
Drawn by:	MW
Checked by:	DH
Camera:	Canon EOS 7D
Photo date/time:	28/02/2018 13:20



EXISTING VIEW



MODEL VIEW



ANNOTATED VIEW





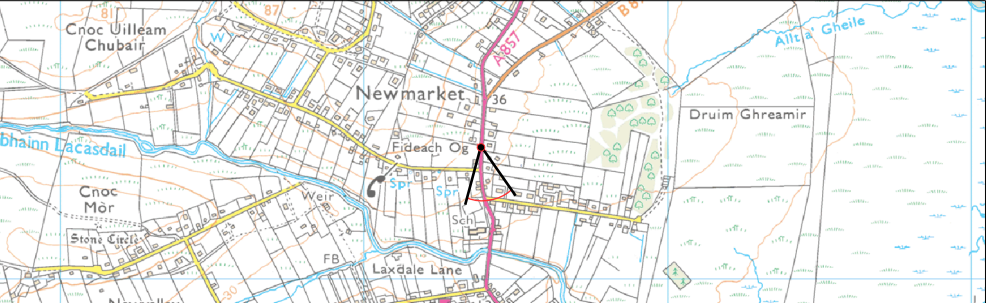
Douglas Harman

Landscape Planning

CMLI

Viewpoint no:	6
Viewpoint name:	Newmarket
Grid ref:	NB 42378 35446
View direction:	175°
Field of view:	50°

Project:	Deep Water Port
Figure no:	4.28
Drawn by:	MW
Checked by:	DH
Camera:	Canon EOS 7D
Photo date/time:	01/03/2018 11:20



EXISTING VIEW



MODEL VIEW



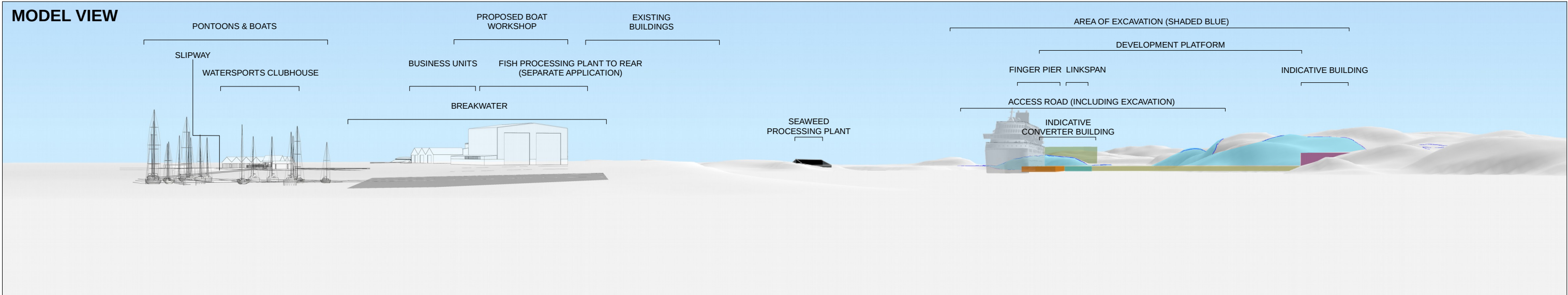
ANNOTATED VIEW



EXISTING VIEW



MODEL VIEW



ANNOTATED VIEW





Douglas Harman

Landscape Planning

CMLI

Viewpoint no: 8
Viewpoint name: Ferry Terminal
Grid ref: NB 42428 32576
View direction: 165°
Field of view: 70°

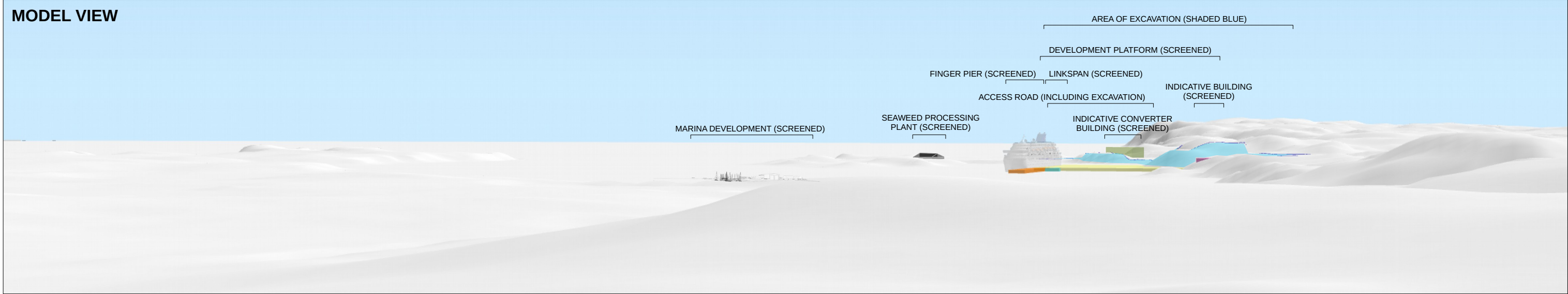
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Checked by: DH
Camera: Canon EOS 7D
Photo date/time: 16/04/2018 16:00



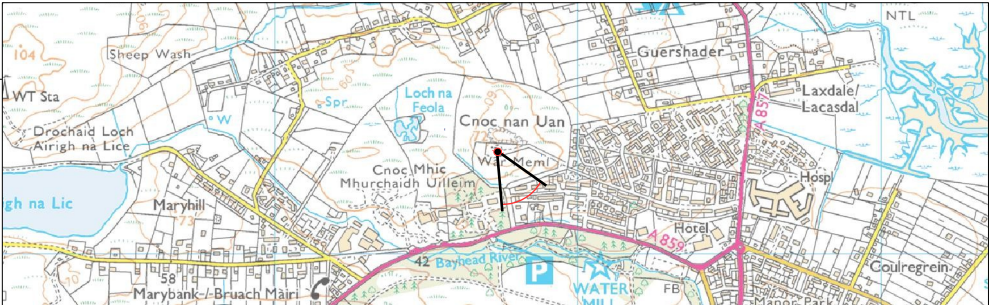
EXISTING VIEW



MODEL VIEW



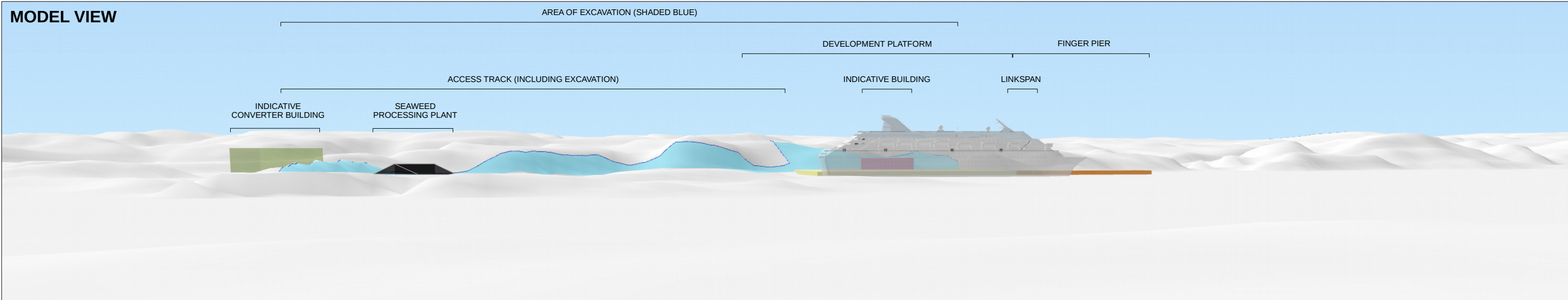
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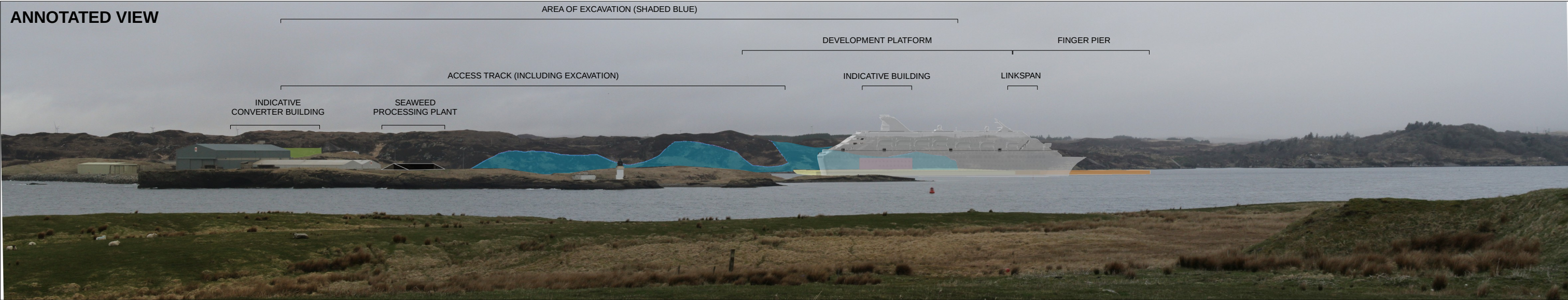
EXISTING VIEW



MODEL VIEW



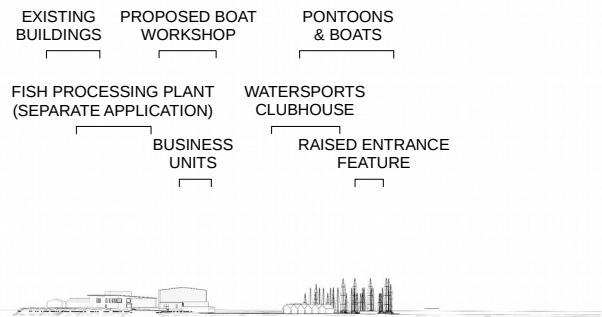
ANNOTATED VIEW



EXISTING VIEW



MODEL VIEW



ANNOTATED VIEW





Douglas Harman

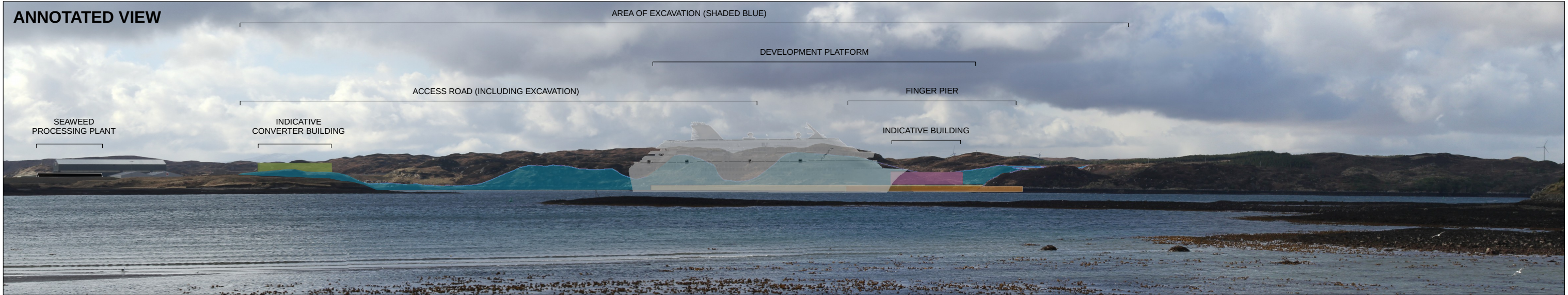
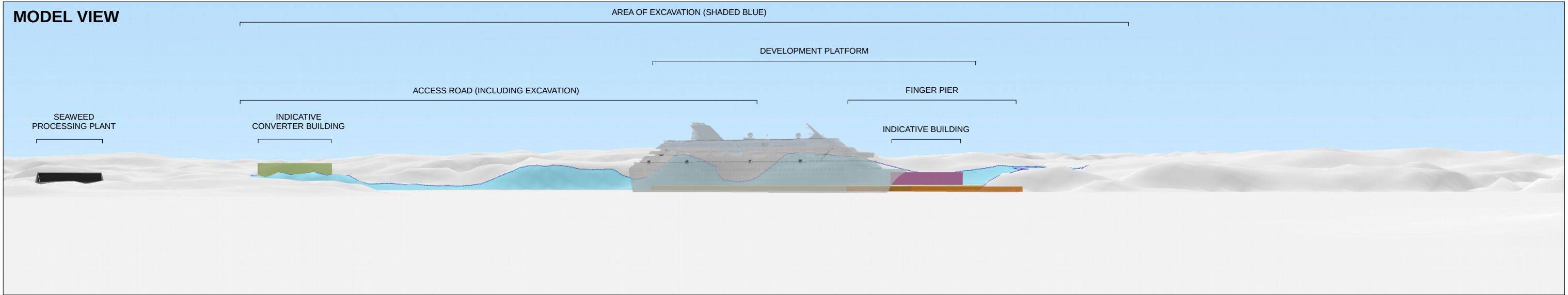
CMLI

Landscape Planning

Viewpoint no:	10b
Viewpoint name:	Iolaire Monument Car Park
Grid ref:	NB 44396 30768
View direction:	310°
Field of view:	50°

Project:	Deep Water Port
Figure no:	4.32b
Drawn by:	MW
Checked by:	DH
Camera:	Canon EOS 7D
Photo date/time:	16/04/2018 09:40





Viewpoint no: 11a
Viewpoint name: Sandwick Bay
Grid ref: NB 43943 32183
View direction: 235°
Field of view: 50°

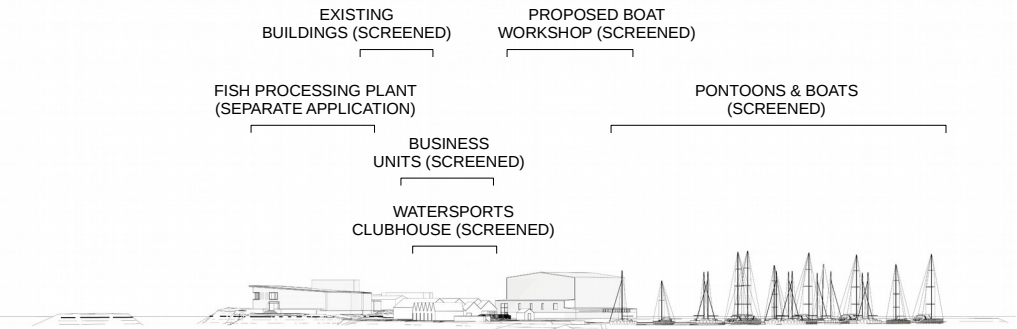
Project: Deep Water Port
Figure no: 4.33a
Drawn by: MW
Checked by: DH
Camera: Canon EOS 7D
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EXISTING VIEW

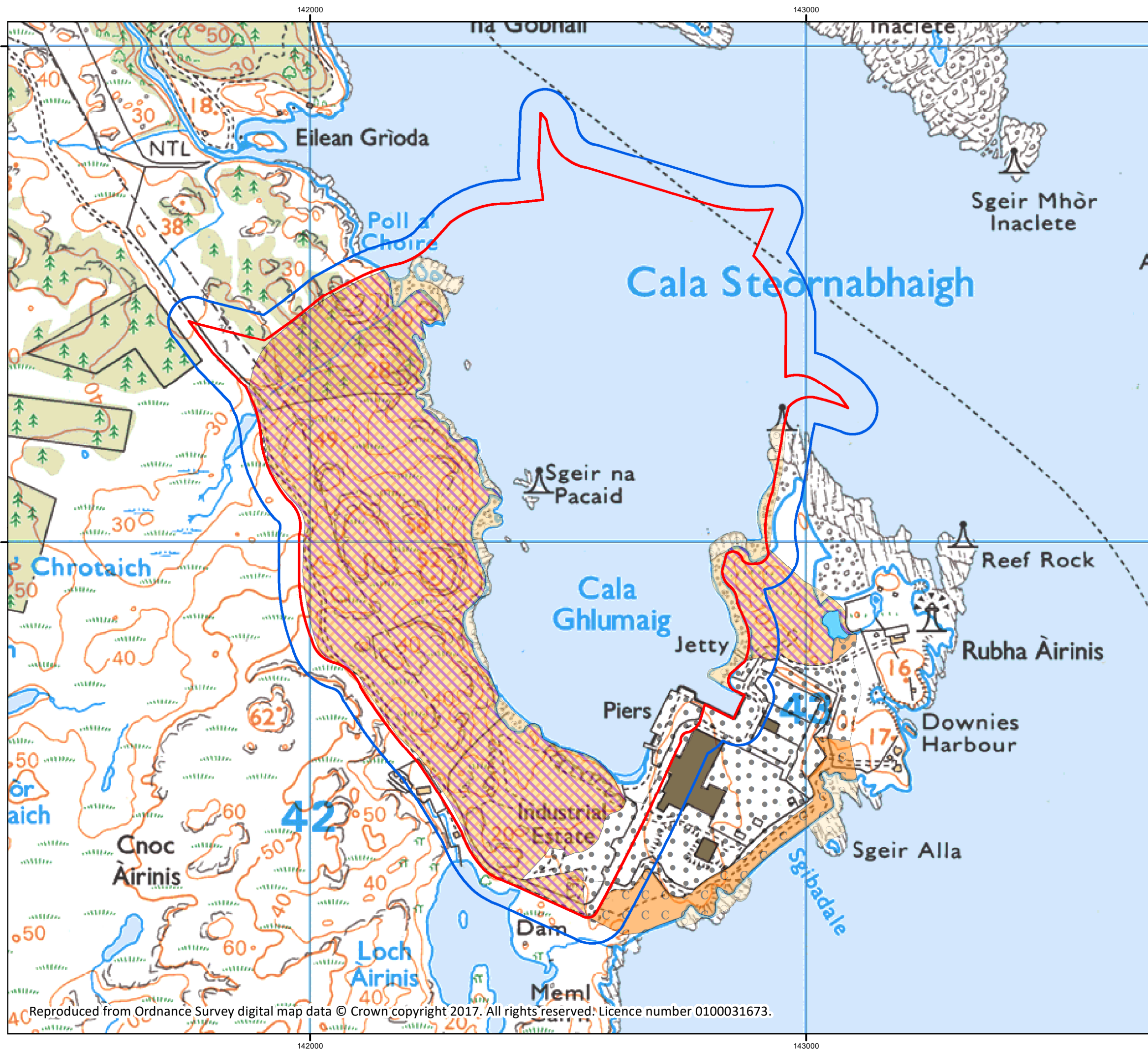


MODEL VIEW



ANNOTATED VIEW





Legend

Deep Water Port Site Boundary 111.79 hectares

Survey Area 50m Buffer

JNCC Code

D6 Wet Heath

G1 Standing Open Water

H1.2 Shingle


H1.3 Rock Outcrop

H8.4 Coastal Ground

J3.6 Buildings

J4 Bare Ground

Do not scale this map

Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 5.1: Phase 1 Habitat Map		
Status		
FINAL		
Drawing No.		Revision
670525-018		
Scale	A3	Date
1:7,500		16 August 2018
Drawn	Checked	Approved
GV	GV	GF
<div></div> <div>Craighall Business Park, Eagle Street, Glasgow, G4 9XA Tel: 0141 341 5040 Fax: 0141 341 5045</div>		



Legend

- Approximate Piling Locations
- 500m Marine Mammal Mitigation Zone
- Suggested Marine Mammal Observer Point

Do not scale this map

Client
Stornoway Port Authority

Project
Stornoway Deep Water Port

Title
Figure 5.2 Marine Mammal Mitigation Zone

Status
FINAL

Drawing No.	Revision
670525-036	

Scale	A3	Date
1:7,000		13 August 2018

Drawn	Checked	Approved
JEP	KE	CP



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KEY

- HER Entry
- ▬ Wreck
- ▭ Inner Study Area
- ▭ Construction Area
- ▭ Area of Dredge

HER information
derived from CneS data
received 25/01/18
© Crown Copyright



1:7,000 @ A3

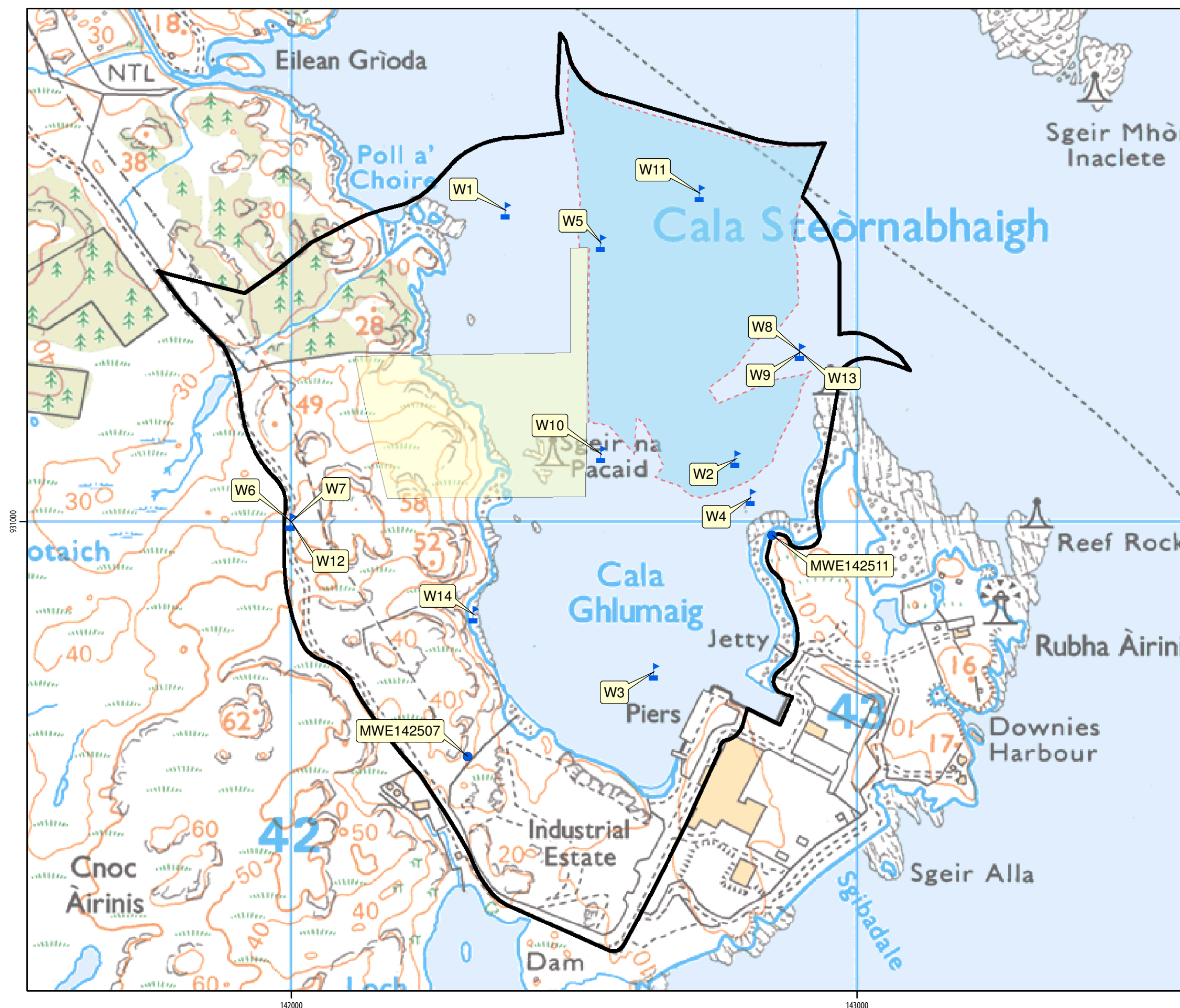
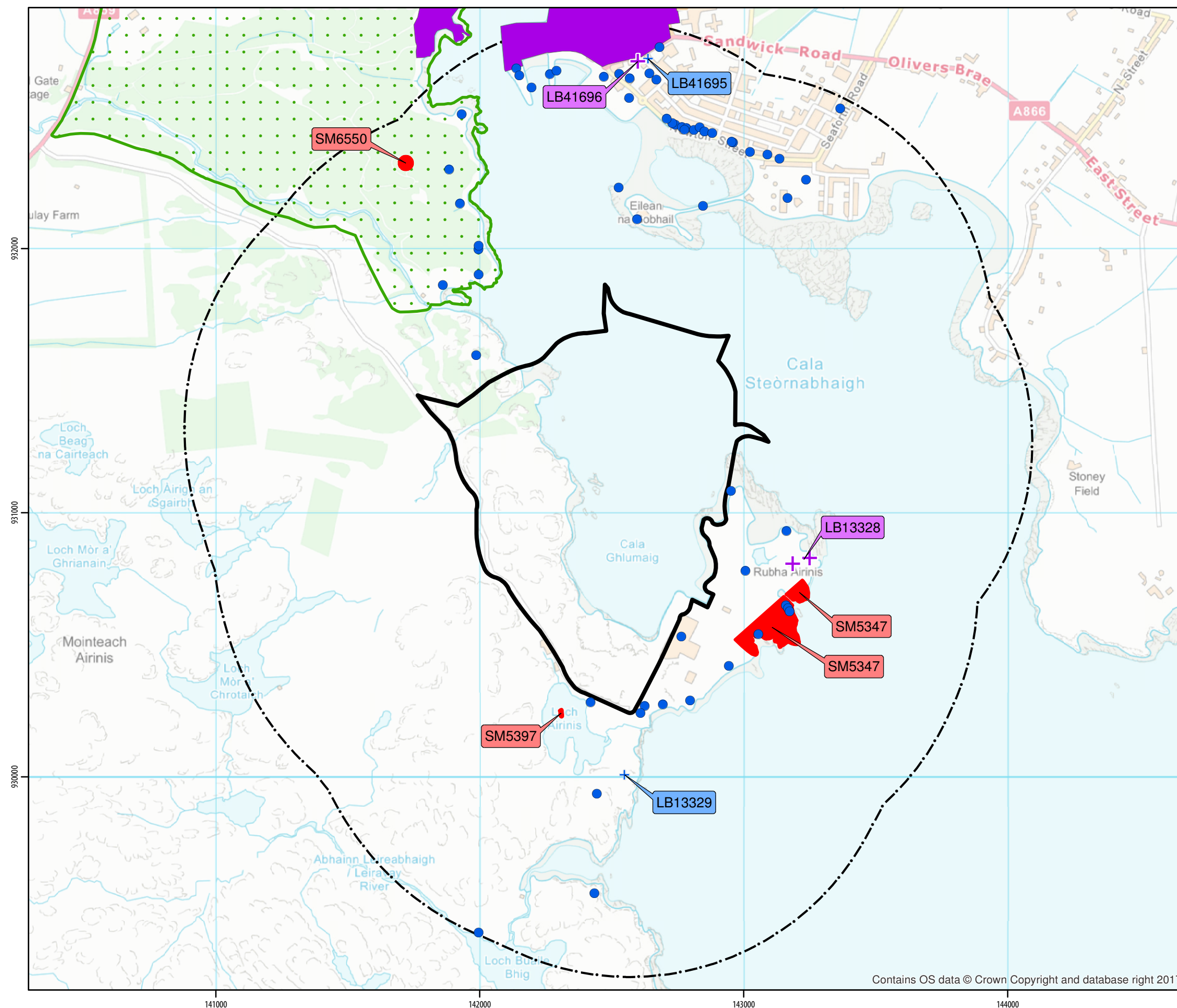


Figure 6.1
Heritage Assets within the Inner Study Area

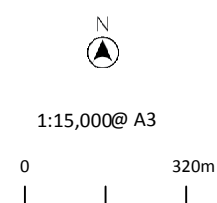


KEY

- Scheduled Monument
- + Category B Listed Building
- + Category C Listed Building
- Inventory Garden and Designed Landscape
- Conservation Area
- HER Entry
- 1km Radius
- ▭ Inner Study Area

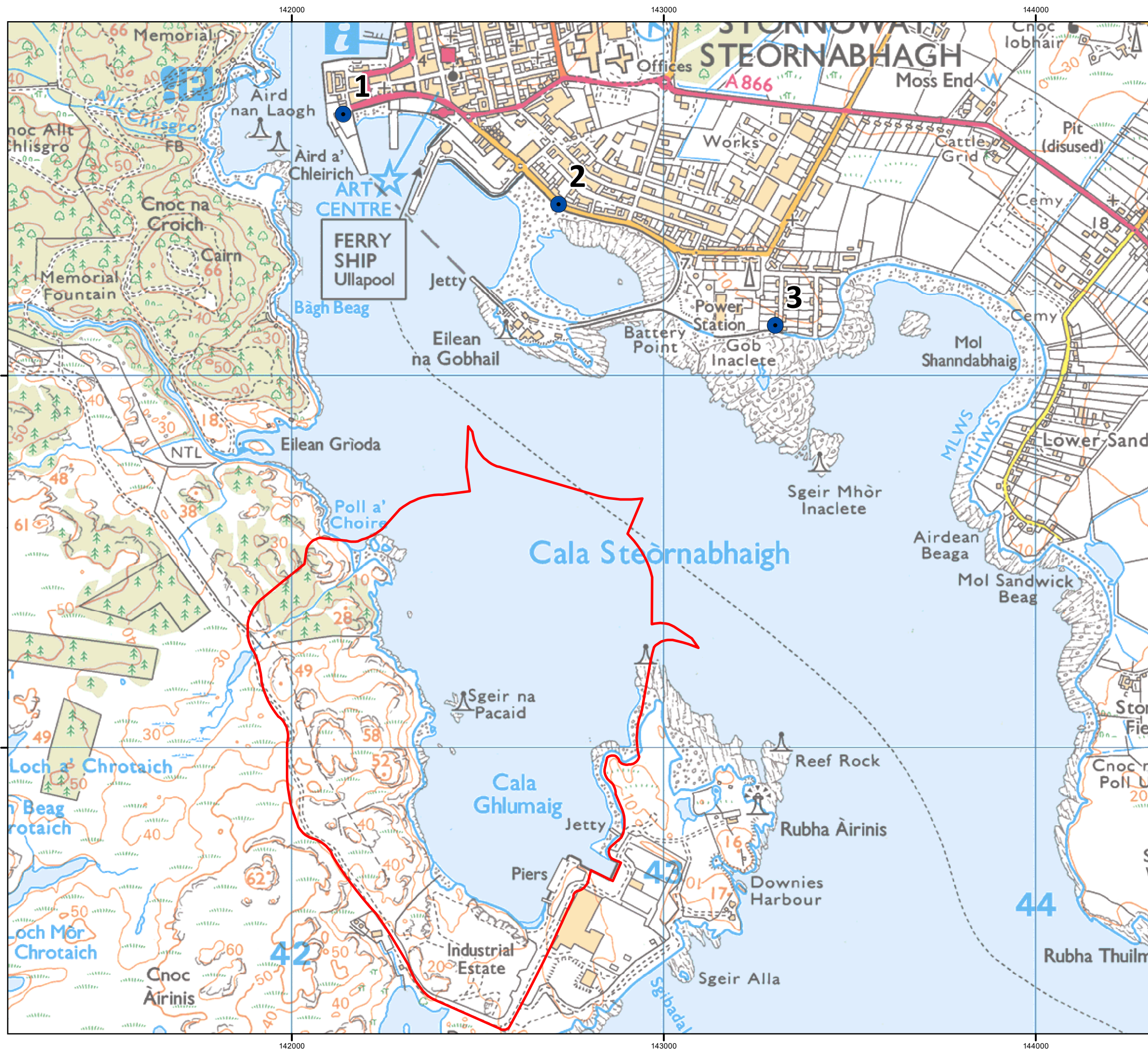
HER information
derived from CneS data
received 25/01/18
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Scheduled Monument, Listed Building,
Conservation Area and IGDL area
information derived from HES data
downloaded 12/03/18
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Figure 6.2
Heritage Assets within the Outer Study Area



- Legend
- Noise Monitoring Locations
 - Deep Water Port Site Boundary 111.79 hectares

Do not scale this map

Client

Stornoway Port Authority

Project

Stornoway Deep Water Port

Title

Figure 7.1: Noise Monitoring Locations

Status

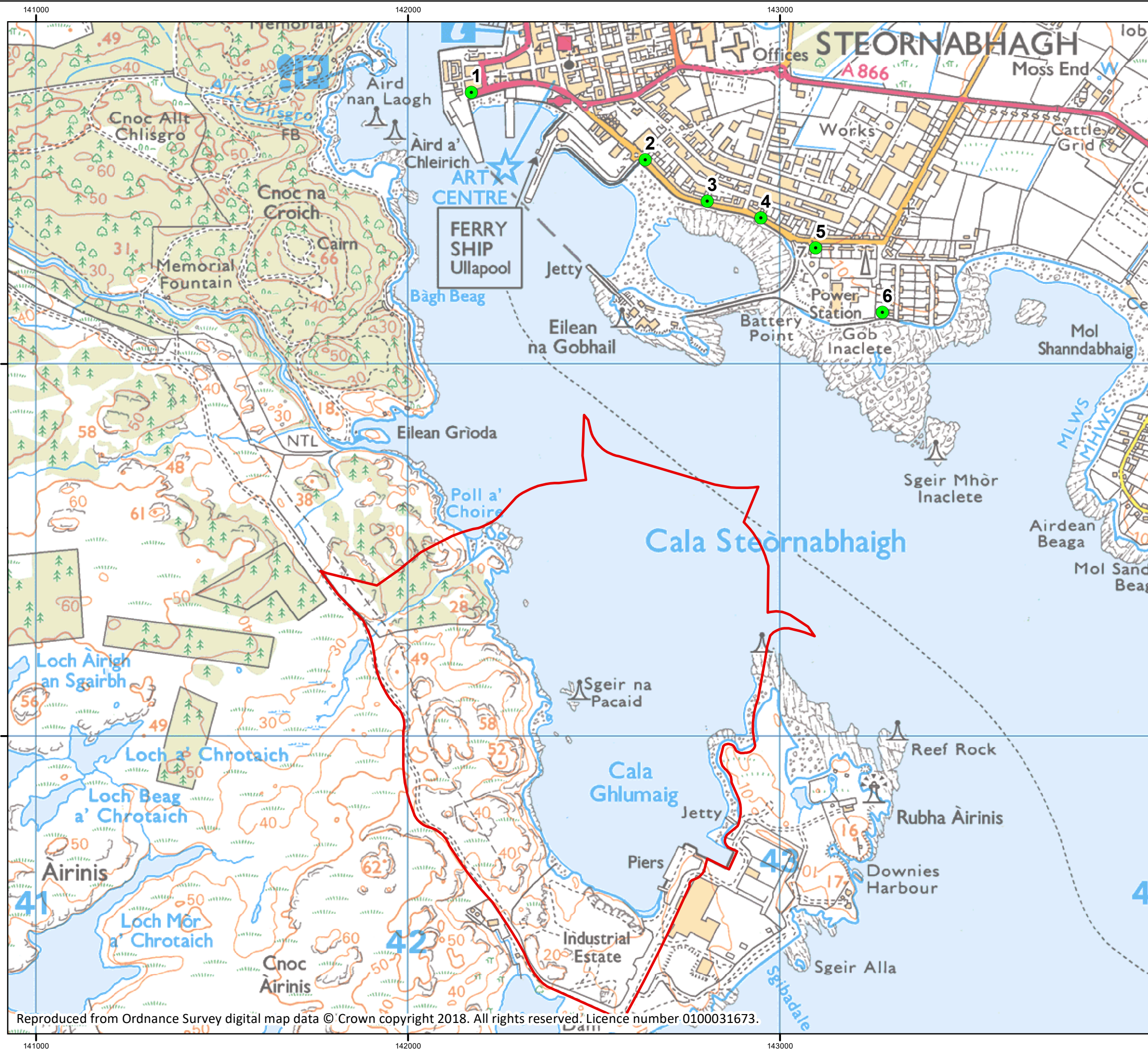
FINAL

Drawing No.	Revision
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Scale	A3	Date
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Drawn	Checked	Approved
FT	CC	CP



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Legend

Deep Water Port Site Boundary 111.79 hectares

Noise Sensitive Receptors

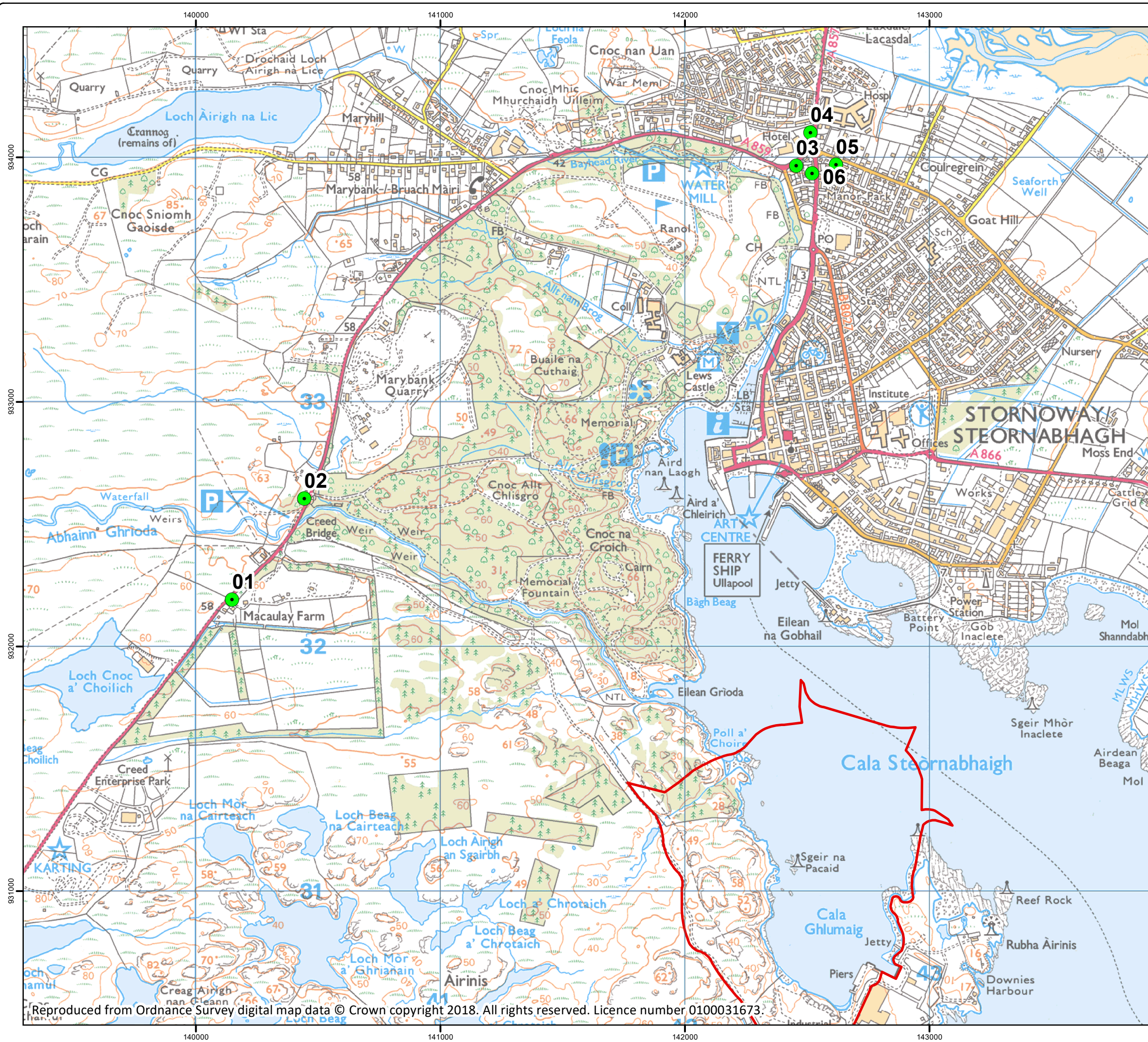
Do not scale this map

Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 7.2: Noise Sensitive Receptor Plan Construction and Operational Industrial Noise		
Status		
FINAL		
Drawing No.	Revision	
670525-028	-	
Scale	A3	Date
1:10,000		11 June 2018
Drawn	Checked	Approved
FT	CC	CP



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Legend

Deep Water Port Site Boundary 111.79 hectares

Noise Sensitive Receptors

Do not scale this map

Client

Stornoway Port Authority

Project

Stornoway Deep Water Port

Title

Figure 7.3: Noise Sensitive Receptor Plan
Operational Road Traffic Noise

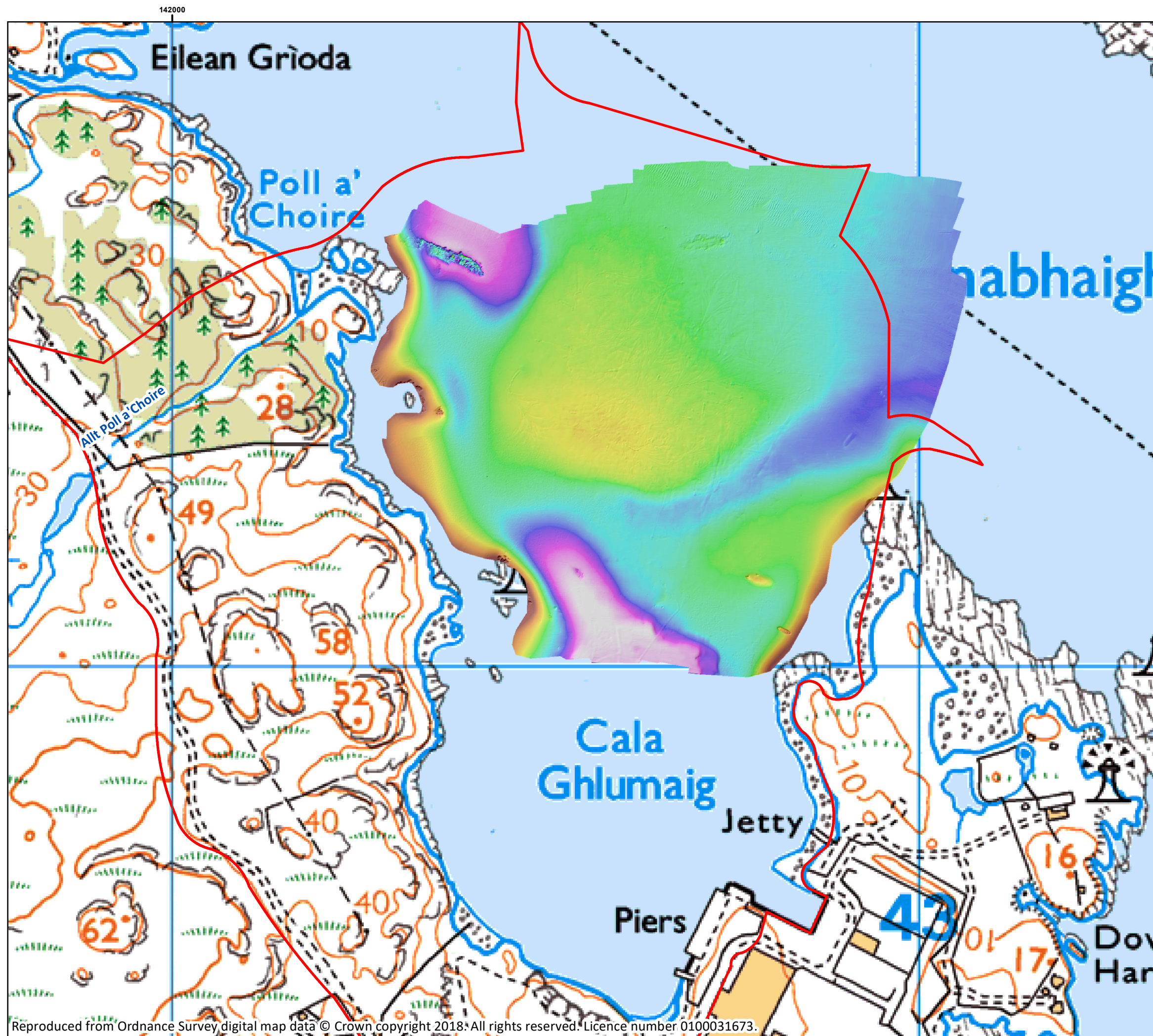
Status

FINAL

Drawing No.	Revision
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1:15,000		
Drawn	Checked	Approved
CC	FT	CP

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Legend

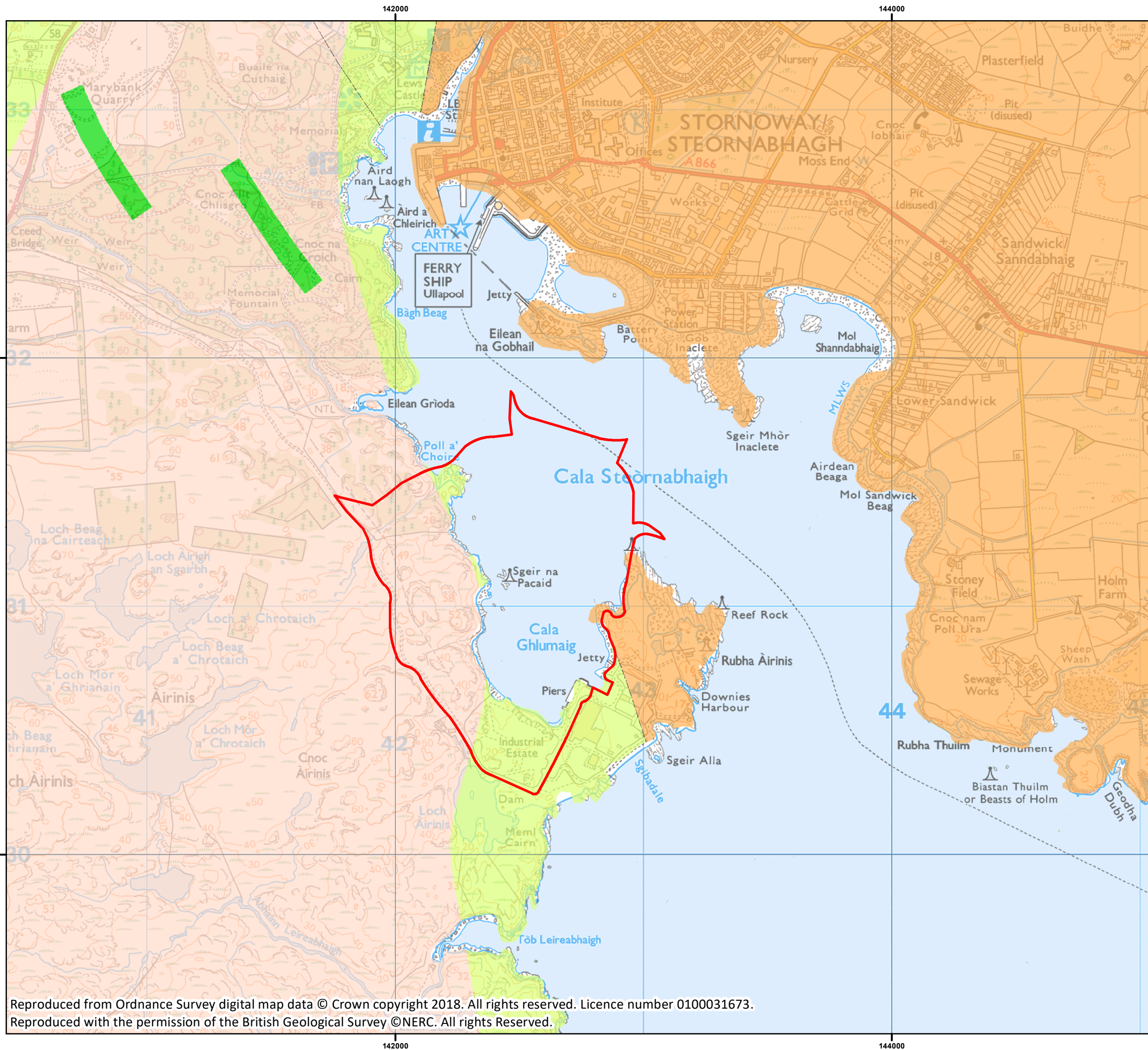
Deep Water Port Site Boundary 111.79 hectares

Depth (mCD)

Deep : 14.52

Shallow : 0.03

Do not scale this map		
Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 8.1: Bathymetry		
Status		
FINAL		
Drawing No.		Revision
670525-017		
Scale	A3	Date
1:5,000		5 April 2018
Drawn	Checked	Approved
MN	CP	MN
		
Craighall Business Park, Eagle Street, Glasgow, G4 9XA Tel: 0141 341 5040 Fax: 0141 341 5045		



Legend

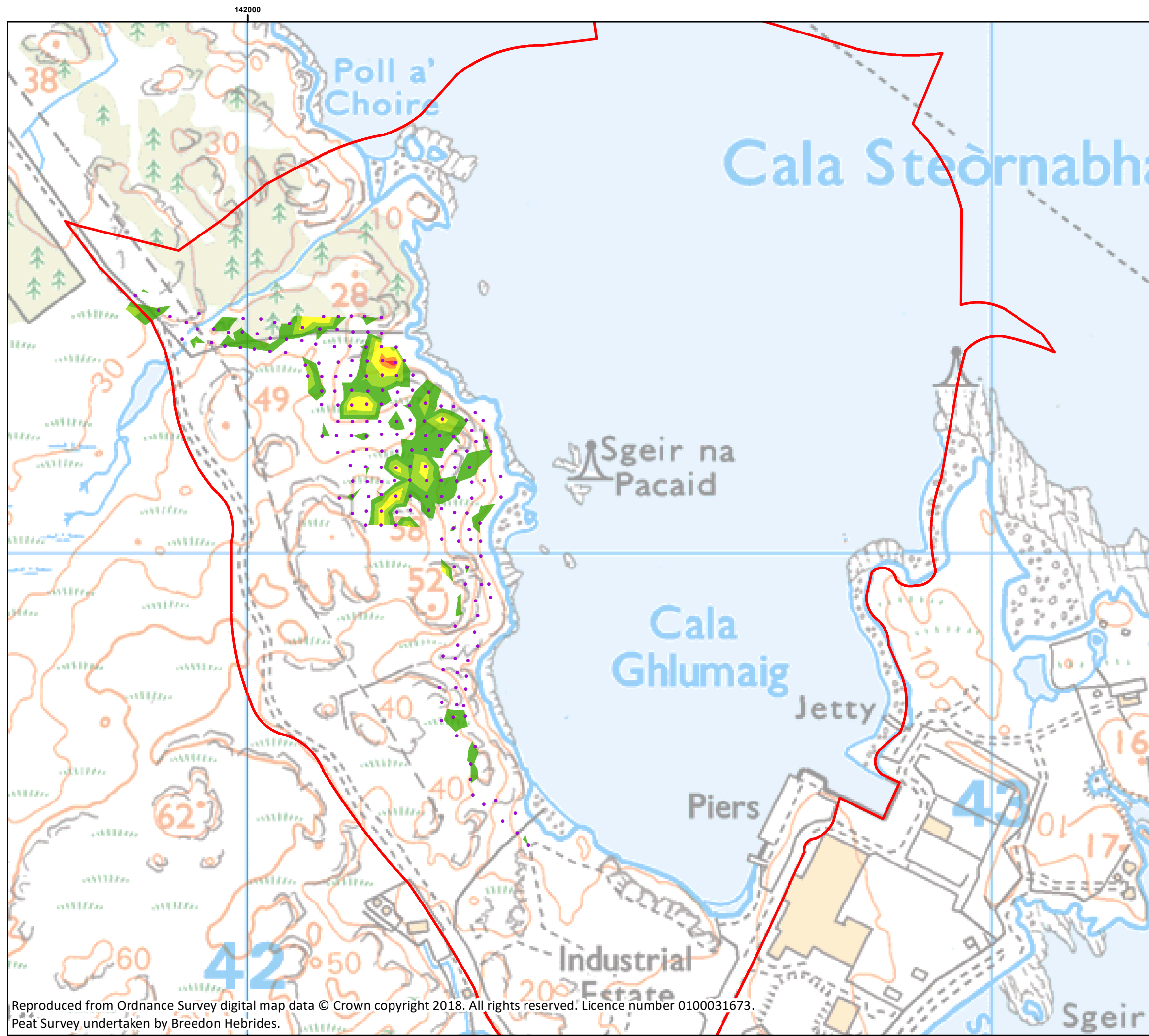
- Deep Water Port Site Boundary 111.79 hectares
- BGS (1:50k) Bedrock Geology
 - Amphibolite
 - Conglomerate
 - Gneiss
 - Protocataclasite
- Fault

Do not scale this map

Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 8.2: Bedrock Geology		
Status		
FINAL		
Drawing No.	Revision	
670525-024		
Scale	A3	Date
1:15,000		23 May 2018
Drawn	Checked	Approved
MN	CP	MN

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Tel: 0141 341 5040
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Legend

Deep Water Port Site Boundary 111.79 hectares

Peat Survey Location

Interpolated Peat Depth (m)

0.5 - 0.75

0.75 - 1.00


1.00 - 1.50

1.50 - 1.75

1.75 - 2.00

Do not scale this map

Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 8.3: Peat Survey		
Status		
FINAL		
Drawing No.		Revision
670525-031		
Scale	A3	Date
1:5,000		13 June 2018
Drawn	Checked	Approved
MN	CP	MN

ENVIROCentre


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Glasgow, G4 9XA
Tel: 0141 341 5040
Fax: 0141 341 5045

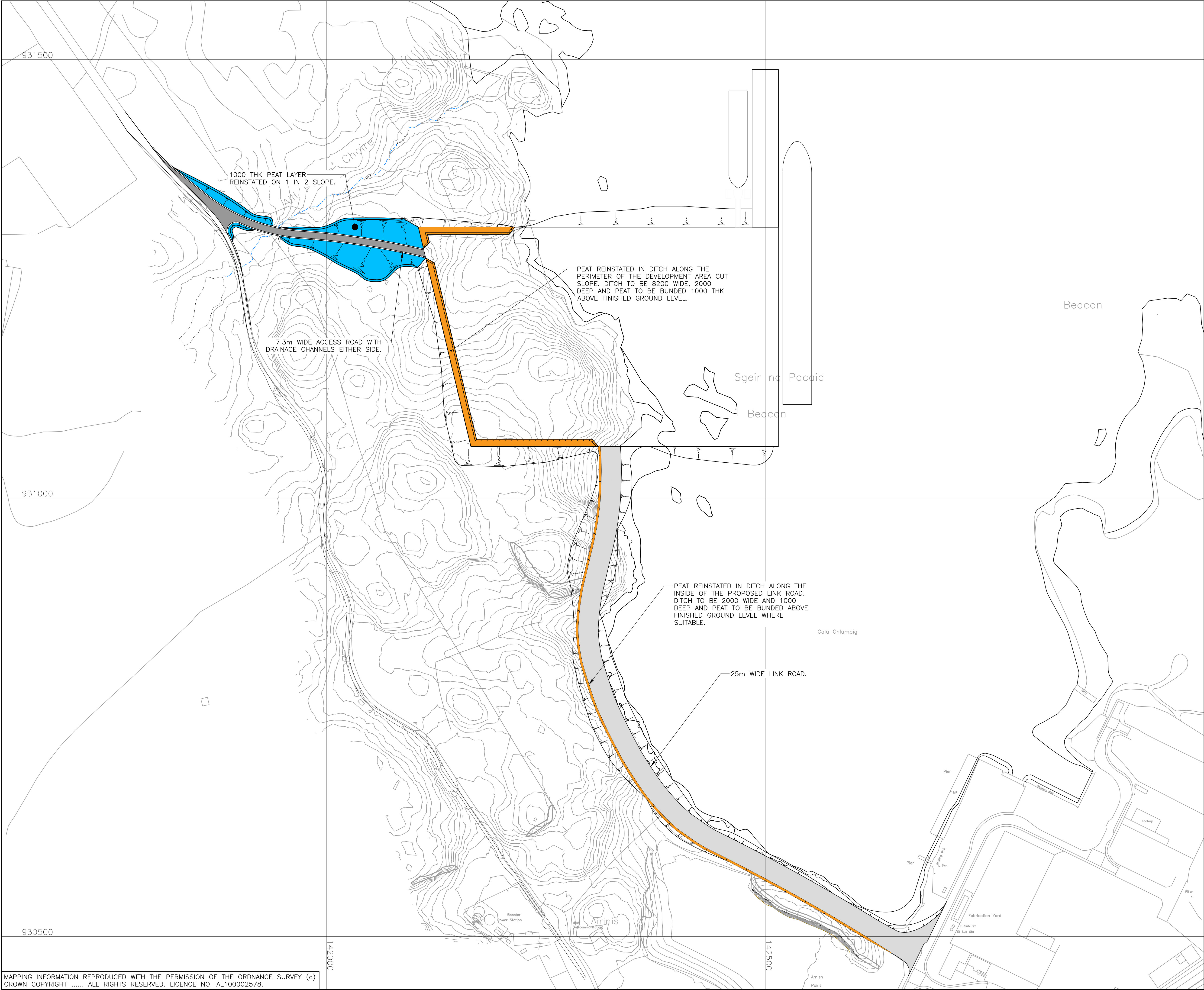
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Peat Survey undertaken by Breedon Hebrides.



Legend

- Deep Water Port Site Boundary 111.79 hectares
- Existing Outfall

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Client		
Stornoway Port Authority		
Project		
Stornoway Deep Water Port		
Title		
Figure 8.4: Hydrological Features		
Status		
FINAL		
Drawing No.		Revision
670525-016		
Scale	A3	Date
1:15,000		12 June 2018
Drawn	Checked	Approved
MN	CP	MN
<div> ENVIROCentre</div> <div>Craighall Business Park, Eagle Street, Glasgow, G4 9XA Tel: 0141 341 5040 Fax: 0141 341 5045</div>		



GENERAL NOTES

1. ALL LEVELS ARE IN METRES AND RELATE TO CHART DATUM, UNLESS NOTED OTHERWISE.

2. CHART DATUM IS 2.71m BELOW ORDNANCE DATUM.

3. TIDE LEVELS:-

HAT=

+5.5mCD

(+2.79mOD)

MHWS=

+4.8mCD

(+2.09mOD)

MLWS=

+0.7mCD

(-2.01mOD)

LAT=

0mCD

(-2.71mOD)

LEGEND:

PEAT REINSTATED IN DITCHES

PEAT REINSTATED ON SLOPES

A	08.10.18	TITLE AMENDED	AN	--	--
REV	DATE	DETAILS	DRAWN	CHK'D	APP'D
AMENDMENTS					
CLIENT					
STORNOWAY PORT AUTHORITY					
PROJECT					
DEEP WATER PORT					
<div><div><div>Wallace Stone</div><div>CONSULTING CIVIL ENGINEERS</div><div><div>GLASGOW</div><div>0141 554 8233</div><div>glasgow@wallacestone.co.uk</div></div><div><div>DINGWALL</div><div>01349 866775</div><div>dingwall@wallacestone.co.uk</div></div></div><div><div>HEBRIDES</div><div>01851 612454</div><div>hebrides@wallacestone.co.uk</div></div></div>					
DRAWING TITLE					
EIA FIGURE 8.5: POTENTIAL PEAT RE-USE AREAS					
DRAWN	JM	CHECKED	RD	APPROVED	
DATE	AUG '18	DATE	AUG '18	DATE	
SCALE (A1)	1:2000		STAGE CONSENTS		
REVISION	A				
PROJECT No.			DRAWING No.		
1980			911		

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