



Scapa Deep Water Quay Environmental Impact Assessment Report: All Drawings



Note: The above image is indicative and provided for information purposes only

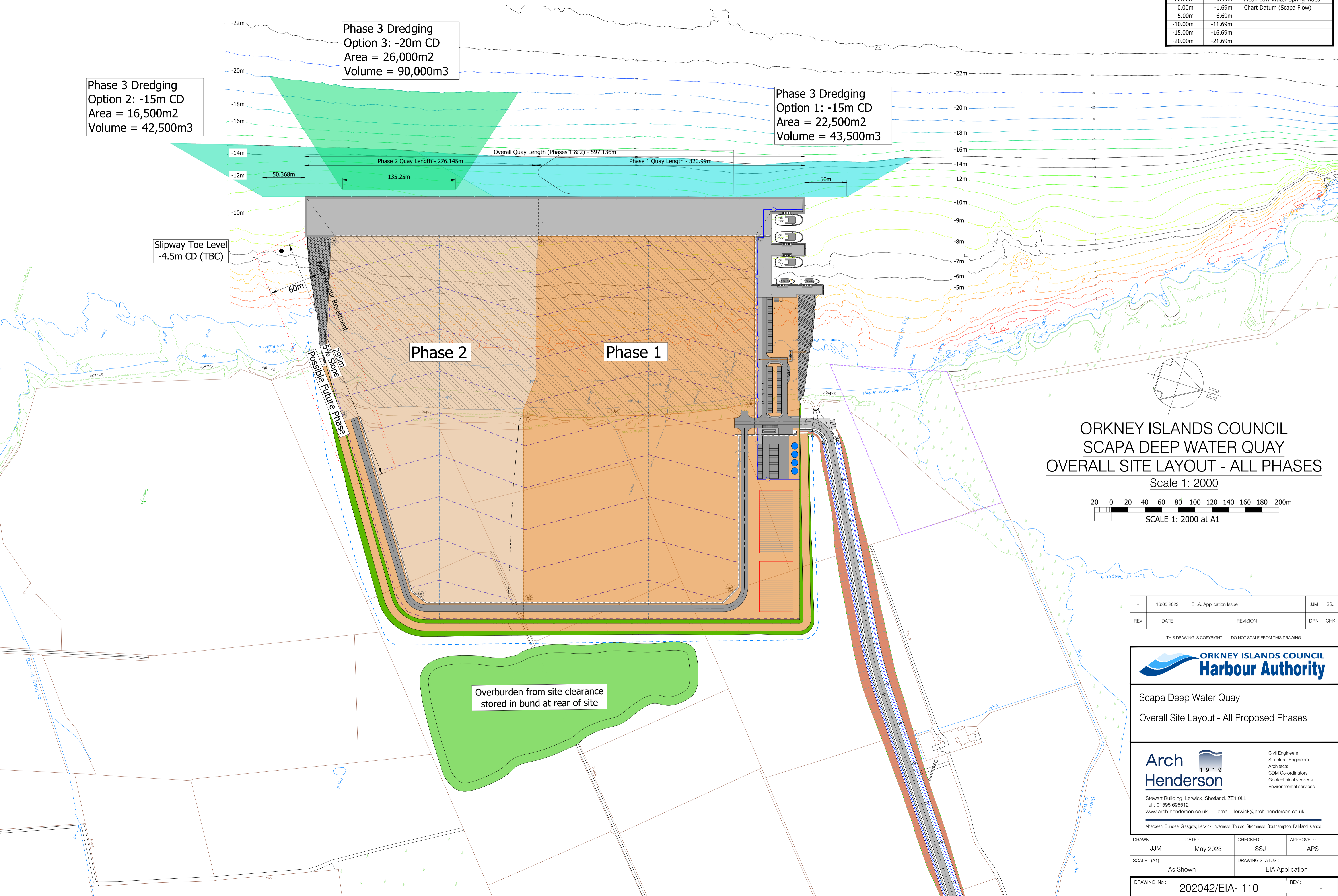
JULY 2023

SCAPA DEEP WATER QUAY EIAR

Volume 2: Contents of Figures

Drawing No. 202042/EIA- 110	Overall Site Layout – All Proposed Phases
Drawing No. 202042/EIA- 300	Site Access Road Layout
Drawing No. 20242/EIA- 400	Phase 1 Overall Layout
Drawing No. 202042/EIA- 401	Phase 1 Detailed Site Entrance Layout
Drawing No. 202042/IA- 500	Phase 2 Overall Layout
Drawing No. 202042/EIA- 600	Dredging – All Options
Figure 1	Landscape Context
Figure 2	Planning Policy Context
Figure 3	Landscape and Coastal Character
Figure 4	Topographical Context
Figure 4.1 Drawing No. 674795-GIS146	Hydrological Overview
Figure 5	ZTV and Representative Viewpoint Locations
Figure 7	Detailed ZTV and Residential Locations
Figure Showing Section Lines 1 2 & 3	

Chart Datum (Scapa Flow)	Ordnance Datum (Newlyn)	Quay Heights and Tide Data Scapa Deep Water Quay
+7.00m	+5.31m	Quay Edge Level
+3.60m	+1.91m	Mean High Water Spring Tides
+1.69m	0.00m	Ordnance Datum (Newlyn)
+0.70m	-0.99m	Mean Low Water Spring Tides
0.00m	-1.69m	Chart Datum (Scapa Flow)
-5.00m	-6.69m	
-10.00m	-11.69m	
-15.00m	-16.69m	
-20.00m	-21.69m	



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SCAPA DEEP WATER QUAY
OVERALL SITE LAYOUT - ALL PHASES

Scale 1: 2000
20 0 20 40 60 80 100 120 140 160 180 200m
SCALE 1: 2000 at A1

REV	DATE	REVISION	DRN	CHK
-	16.05.2023	E.I.A. Application Issue	JJM	SSJ

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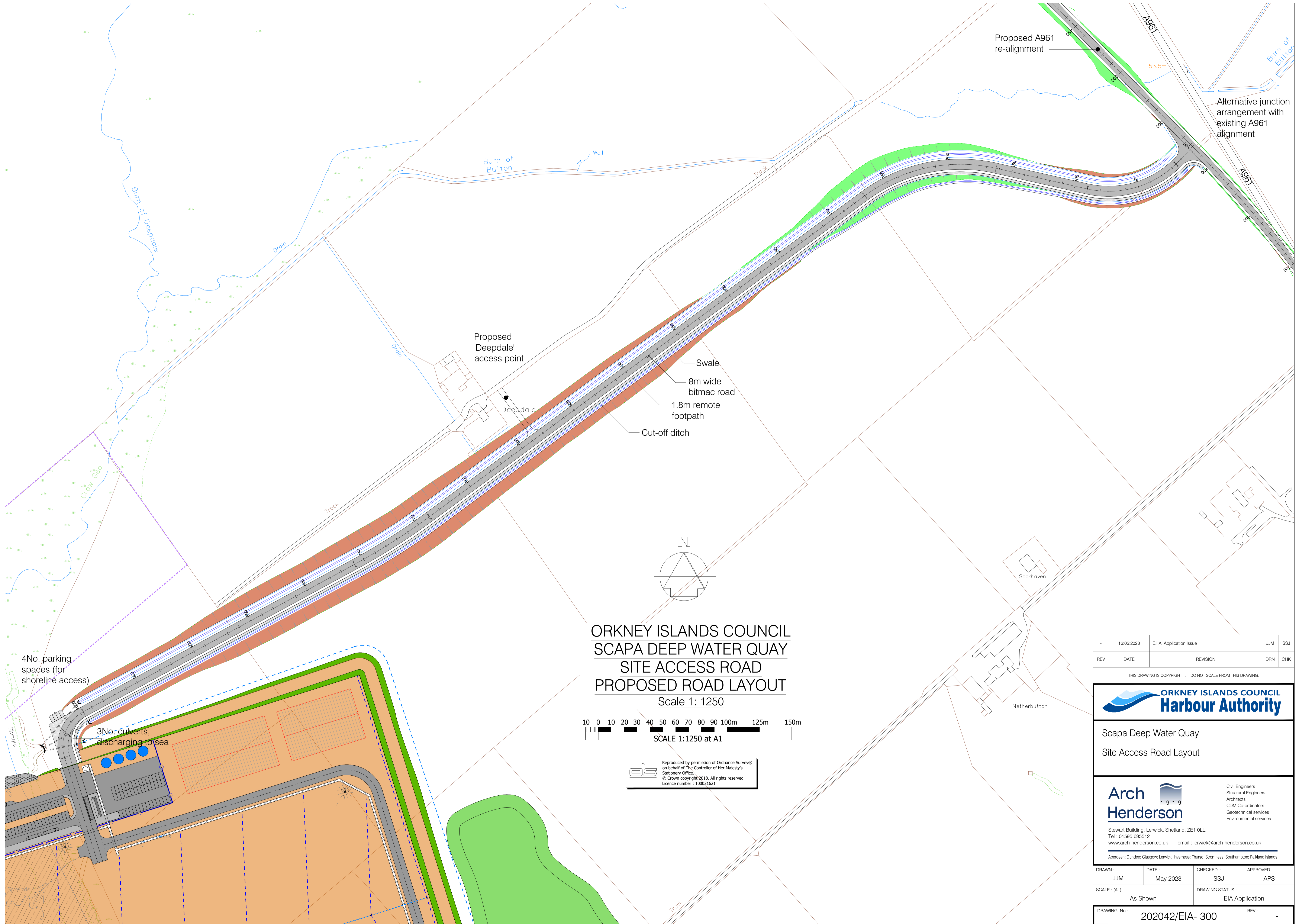
Scapa Deep Water Quay
Overall Site Layout - All Proposed Phases

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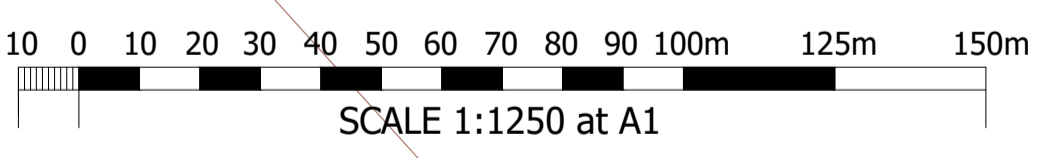
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DRAWING STATUS: EIA Application

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 SCAPA DEEP WATER QUAY
 SITE ACCESS ROAD
 PROPOSED ROAD LAYOUT
 Scale 1: 1250



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 Site Access Road Layout

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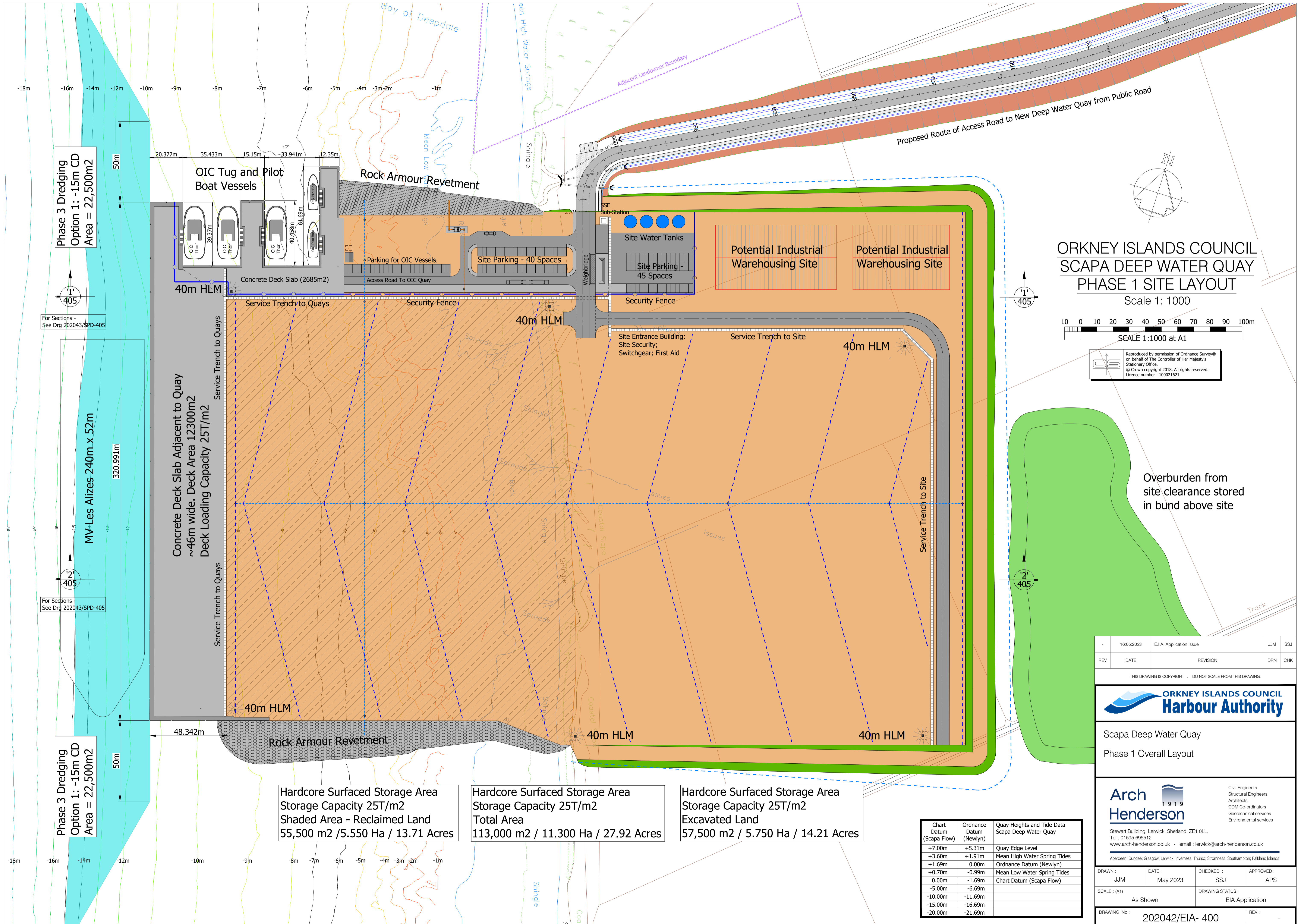
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SCALE : (A1)	DRAWING STATUS :
As Shown	EIA Application

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Phase 3 Dredging
Option 1: -15m CD
Area = 22,500m²

MV Les Alizes 240m x 52m
320,991m²

Phase 3 Dredging
Option 1: -15m CD
Area = 22,500m²

OIC Tug and Pilot
Boat Vessels

Rock Armour Revetment

Site Water Tanks

Potential Industrial
Warehousing Site

Potential Industrial
Warehousing Site

Concrete Deck Slab Adjacent to Quay
~46m wide, Deck Area 12300m²
Deck Loading Capacity 25T/m²

Site Parking - 40 Spaces

Site Entrance Building:
Site Security;
Switchgear; First Aid

Overburden from
site clearance stored
in bund above site

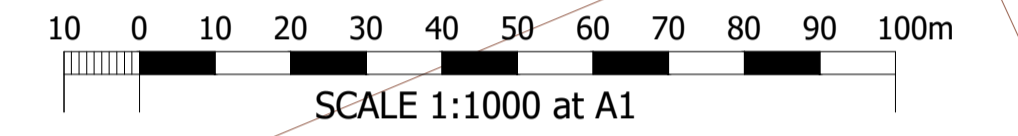
Hardcore Surfaced Storage Area
Storage Capacity 25T/m²
Shaded Area - Reclaimed Land
55,500 m² / 5.550 Ha / 13.71 Acres

Hardcore Surfaced Storage Area
Storage Capacity 25T/m²
Total Area
113,000 m² / 11.300 Ha / 27.92 Acres

Hardcore Surfaced Storage Area
Storage Capacity 25T/m²
Excavated Land
57,500 m² / 5.750 Ha / 14.21 Acres

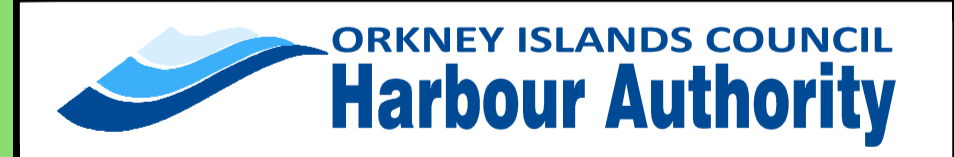
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SCAPA DEEP WATER QUAY
PHASE 1 SITE LAYOUT

Scale 1: 1000



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Scapa Deep Water Quay
Phase 1 Overall Layout



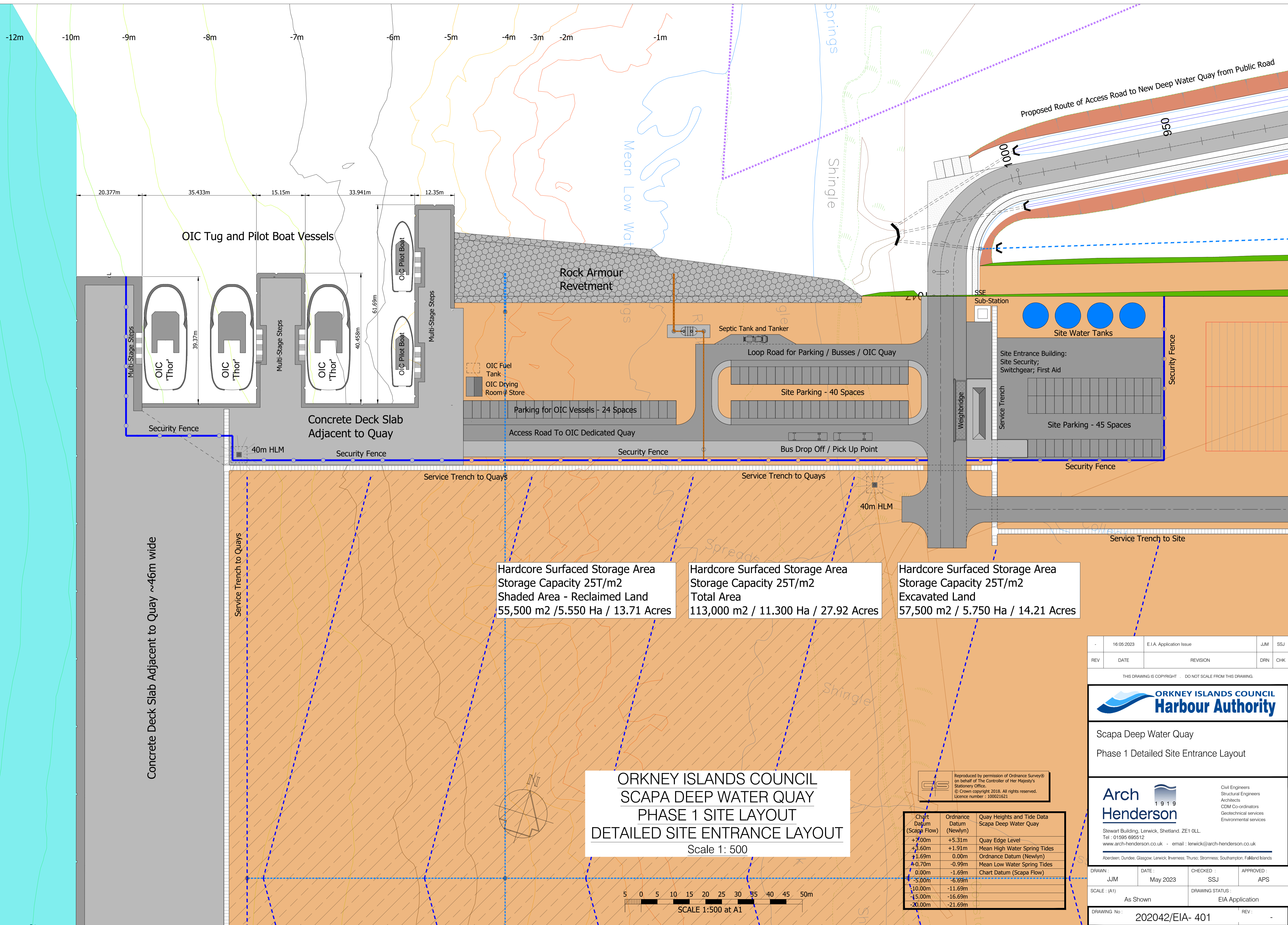
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Chart Datum (Scapa Flow)	Ordnance Datum (Newlyn)	Quay Heights and Tide Data Scapa Deep Water Quay
+7.00m	+5.31m	Quay Edge Level
+3.60m	+1.91m	Mean High Water Spring Tides
+1.69m	0.00m	Ordnance Datum (Newlyn)
+0.70m	-0.99m	Mean Low Water Spring Tides
0.00m	-1.69m	Chart Datum (Scapa Flow)
-5.00m	-6.69m	
-10.00m	-11.69m	
-15.00m	-16.69m	
-20.00m	-21.69m	



OIC Tug and Pilot Boat Vessels

Rock Armour Revetment

Septic Tank and Tanker

Loop Road for Parking / Busses / OIC Quay

Site Parking - 40 Spaces

Site Water Tanks

Site Entrance Building:
Site Security;
Switchgear; First Aid

Site Parking - 45 Spaces

Concrete Deck Slab Adjacent to Quay ~46m wide

Hardcore Surfaced Storage Area
Storage Capacity 25T/m2
Shaded Area - Reclaimed Land
55,500 m2 / 5.550 Ha / 13.71 Acres

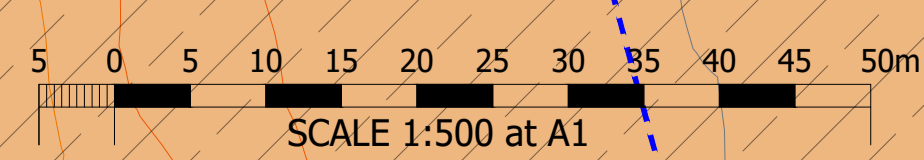
Hardcore Surfaced Storage Area
Storage Capacity 25T/m2
Total Area
113,000 m2 / 11.300 Ha / 27.92 Acres

Hardcore Surfaced Storage Area
Storage Capacity 25T/m2
Excavated Land
57,500 m2 / 5.750 Ha / 14.21 Acres

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SCAPA DEEP WATER QUAY
PHASE 1 SITE LAYOUT
DETAILED SITE ENTRANCE LAYOUT
Scale 1: 500

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Chart Datum (Scapa Flow)	Ordnance Datum (Newlyn)	Quay Heights and Tide Data Scapa Deep Water Quay
+7.00m	+5.31m	Quay Edge Level
+3.60m	+1.91m	Mean High Water Spring Tides
+1.69m	0.00m	Ordnance Datum (Newlyn)
-0.70m	-0.99m	Mean Low Water Spring Tides
0.00m	-1.69m	Chart Datum (Scapa Flow)
-5.00m	-6.69m	
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Scapa Deep Water Quay
Phase 1 Detailed Site Entrance Layout

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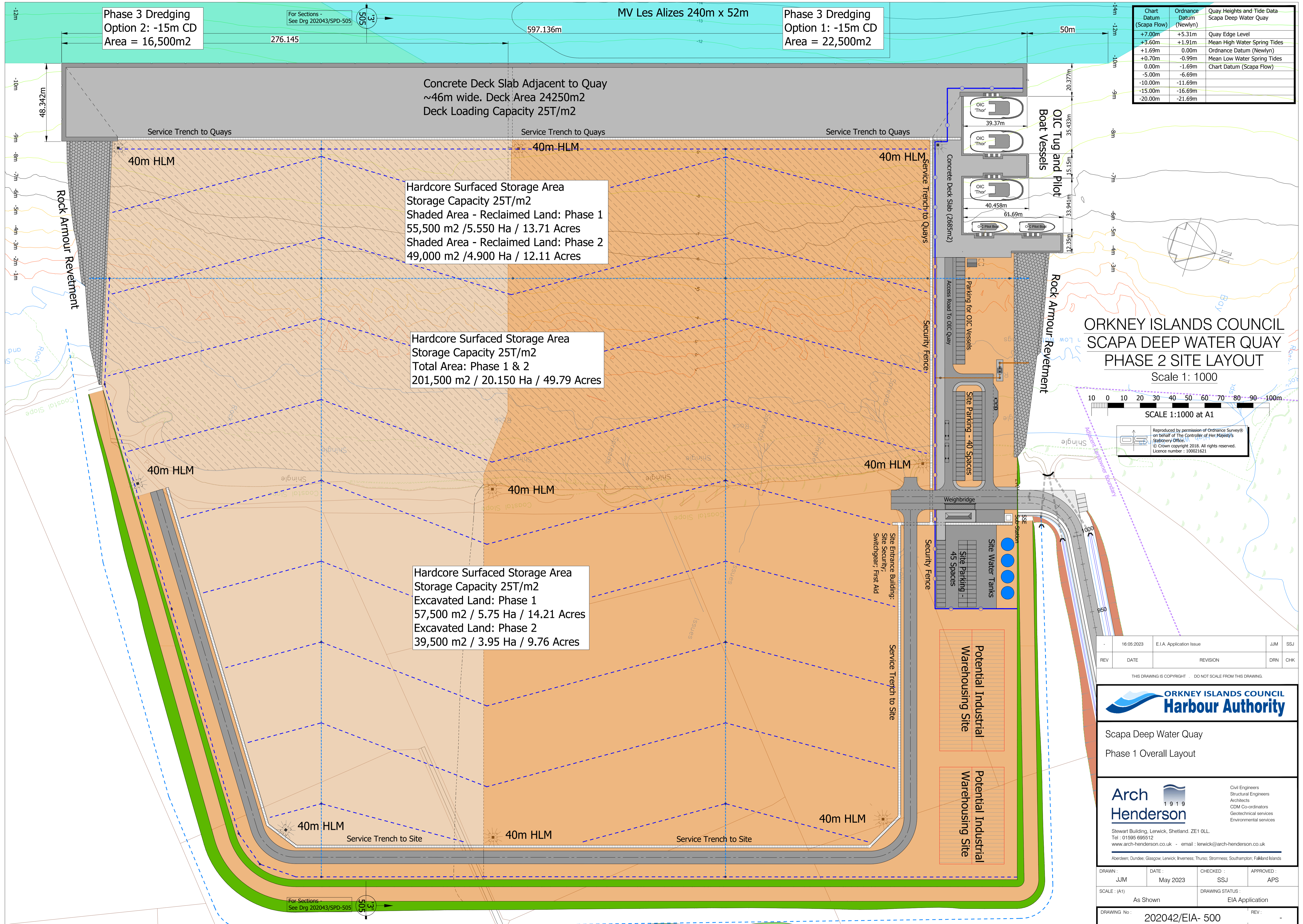
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SCALE: (A1)
As Shown

DRAWING STATUS:
EIA Application

DRAWING No: 202042/EIA- 401



Phase 3 Dredging
Option 2: -15m CD
Area = 16,500m²

For Sections -
See Drg 202043/SPD-505

MV Les Alizes 240m x 52m

Phase 3 Dredging
Option 1: -15m CD
Area = 22,500m²

Chart Datum (Scapa Flow)	Ordnance Datum (Newlyn)	Quay Heights and Tide Data - Scapa Deep Water Quay
+7.00m	+5.31m	Quay Edge Level
+3.60m	+1.91m	Mean High Water Spring Tides
+1.69m	0.00m	Ordnance Datum (Newlyn)
+0.70m	-0.99m	Mean Low Water Spring Tides
0.00m	-1.69m	Chart Datum (Scapa Flow)
-5.00m	-6.69m	
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-20.00m	-21.69m	

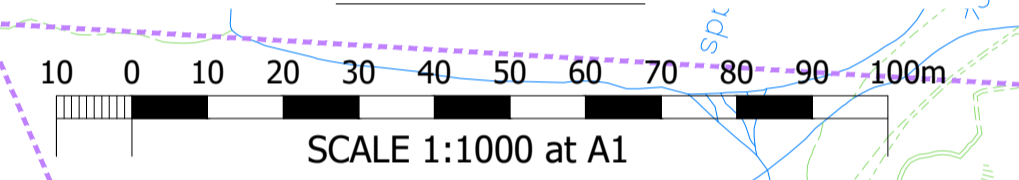
Concrete Deck Slab Adjacent to Quay
~46m wide. Deck Area 24250m²
Deck Loading Capacity 25T/m²

Hardcore Surfaced Storage Area
Storage Capacity 25T/m²
Shaded Area - Reclaimed Land: Phase 1
55,500 m² / 5.550 Ha / 13.71 Acres
Shaded Area - Reclaimed Land: Phase 2
49,000 m² / 4.900 Ha / 12.11 Acres

Hardcore Surfaced Storage Area
Storage Capacity 25T/m²
Total Area: Phase 1 & 2
201,500 m² / 20.150 Ha / 49.79 Acres

Hardcore Surfaced Storage Area
Storage Capacity 25T/m²
Excavated Land: Phase 1
57,500 m² / 5.75 Ha / 14.21 Acres
Excavated Land: Phase 2
39,500 m² / 3.95 Ha / 9.76 Acres

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PHASE 2 SITE LAYOUT
Scale 1: 1000



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Scapa Deep Water Quay
Phase 1 Overall Layout

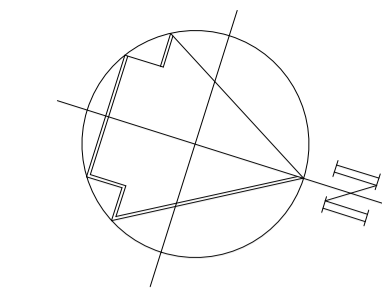
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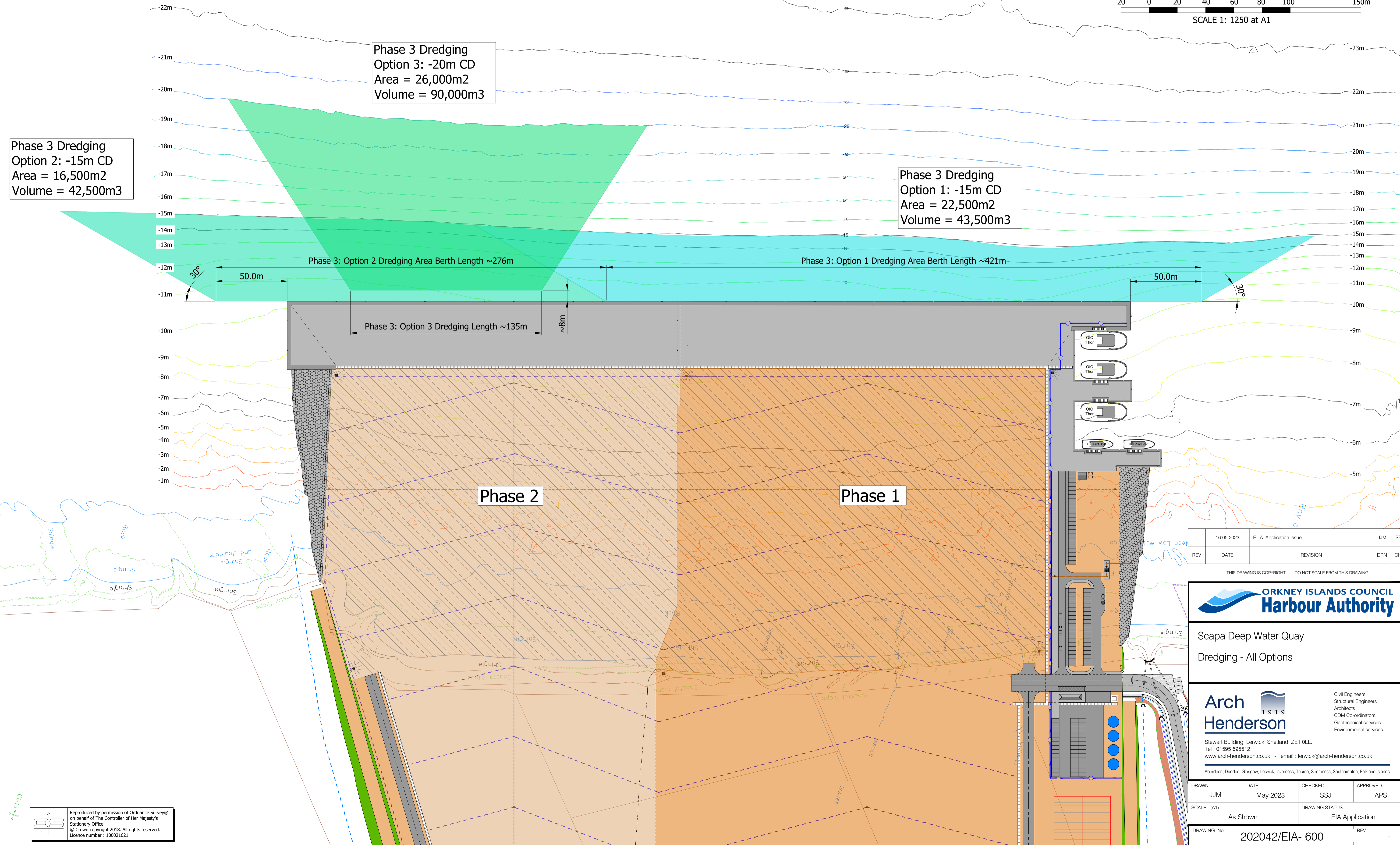
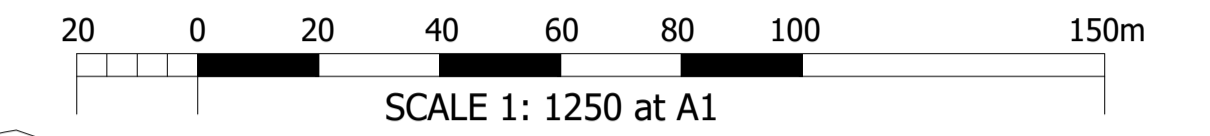
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Chart Datum (Scapa Flow)	Ordnance Datum (Newlyn)	Quay Heights and Tide Data Scapa Deep Water Quay
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+3.60m	+1.91m	Mean High Water Spring Tides
+1.69m	0.00m	Ordnance Datum (Newlyn)
+0.70m	-0.99m	Mean Low Water Spring Tides
0.00m	-1.69m	Chart Datum (Scapa Flow)
-5.00m	-6.69m	
-10.00m	-11.69m	
-15.00m	-16.69m	
-20.00m	-21.69m	



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SCAPA DEEP WATER QUAY
DREDGING LAYOUT - ALL OPTIONS

Scale 1: 1250



Phase 3 Dredging
Option 3: -20m CD
Area = 26,000m²
Volume = 90,000m³

Phase 3 Dredging
Option 2: -15m CD
Area = 16,500m²
Volume = 42,500m³

Phase 3 Dredging
Option 1: -15m CD
Area = 22,500m²
Volume = 43,500m³

Phase 3: Option 2 Dredging Area Berth Length ~276m

Phase 3: Option 1 Dredging Area Berth Length ~421m

Phase 3: Option 3 Dredging Length ~135m

Phase 2

Phase 1

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Scapa Deep Water Quay
Dredging - All Options

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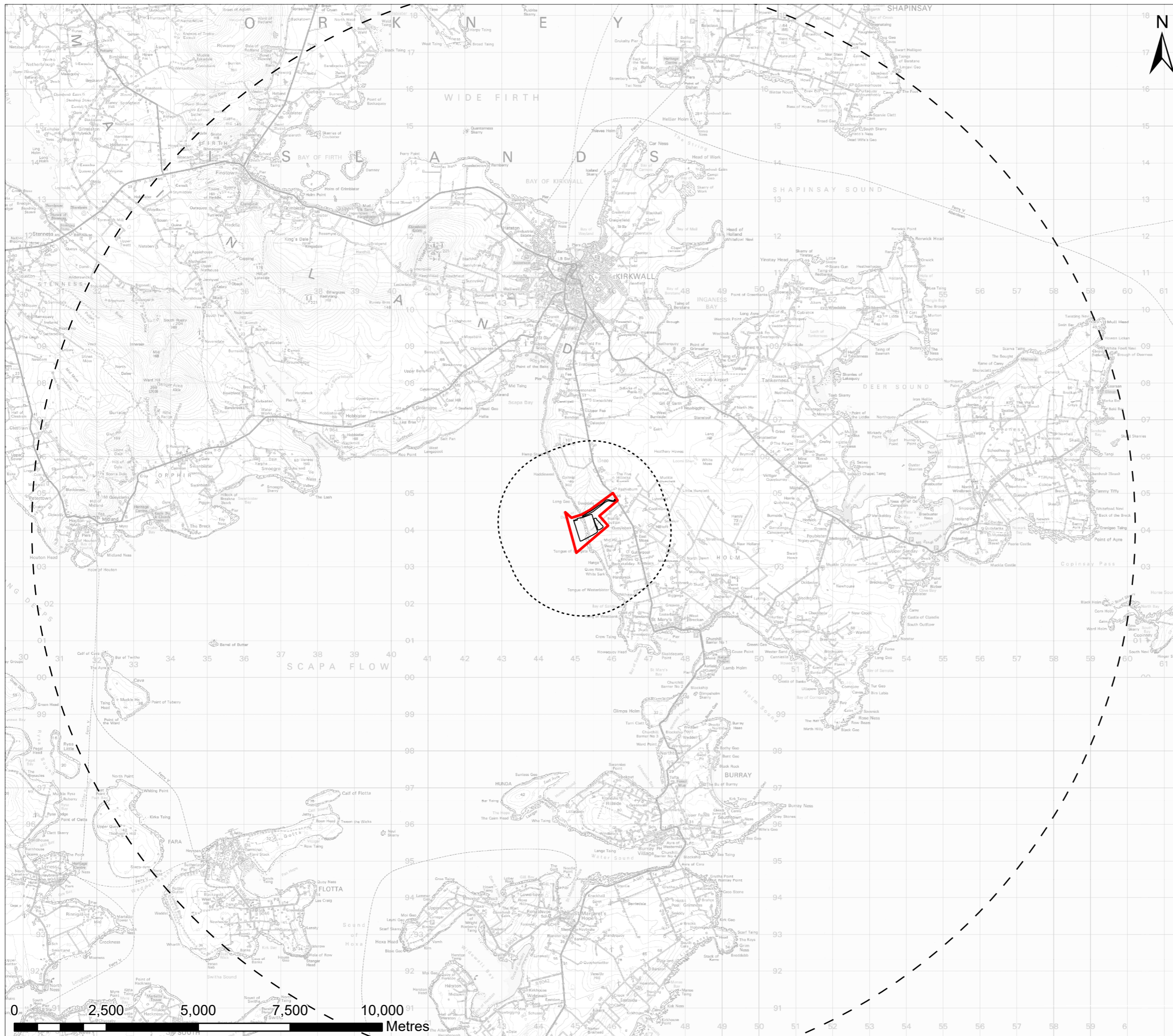
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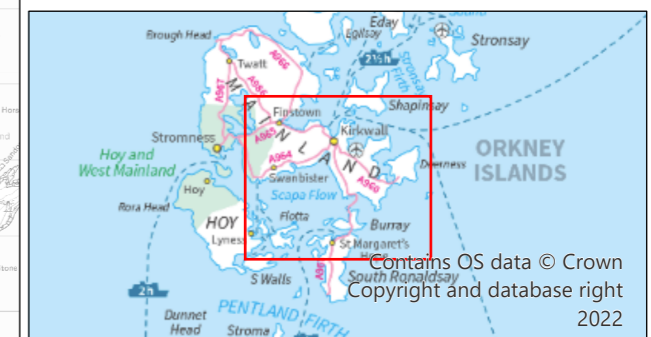
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Legend

- Site boundary
- Extent of proposed quay and access road
- 2km radius residential study area
- 15km radius study area



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Rev	Date	Amendment Details	Dr'n	Chk'	App'

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Client
ORKNEY ISLANDS COUNCIL HARBOUR AUTHORITY

Project Title
SCAPA DEEP WATER QUAY

Drawing Title
FIGURE 1 - LANDSCAPE CONTEXT

Sheet Size	A3	Scale	1:100,000	Sweco Ref	65208075	Revision	P01
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