



Appendix B

Site Plans

On behalf of



**Shetland
Islands
Council**

Project Ref:332511168| Rev: A | Date: March 2023

Front Cover Photograph provided by Brian Gray

Registered Office: Buckingham Court Kingsmead Business Park, London Road, High Wycombe, Buckinghamshire, HP11 1JU
Office Address: 3rd Floor, Capital Square, 58 Morrison Street, Edinburgh EH3 8BP
T: +44 (0)141 352 2360 E: info.Glasgow@stantec.com



Notes

1. This drawing is indicative only and is subject to design development

Key to symbols

- New Pier and Linkspan Structures
- Red Line Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	27.10.21	RK	For Information	MC	MR

Greenhead
Lerwick
Shetland
ZE1 0PY
United Kingdom
T +44 (0)1595 695049
F
W www.mottmac.com

Client
Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

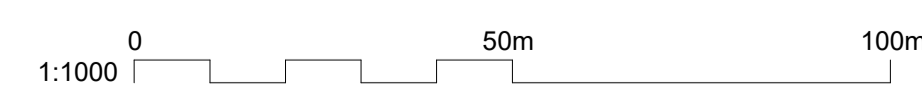
Title
**Shetland Inter Island
 Transport BC Support
 Grutness Ferry Terminal
 Layout - General Arrangement**

Designed	M Kirkpatrick	MK	Eng check	M Kirkpatrick	MK
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	M Kirkpatrick	MK	Approved	M Ross	MR

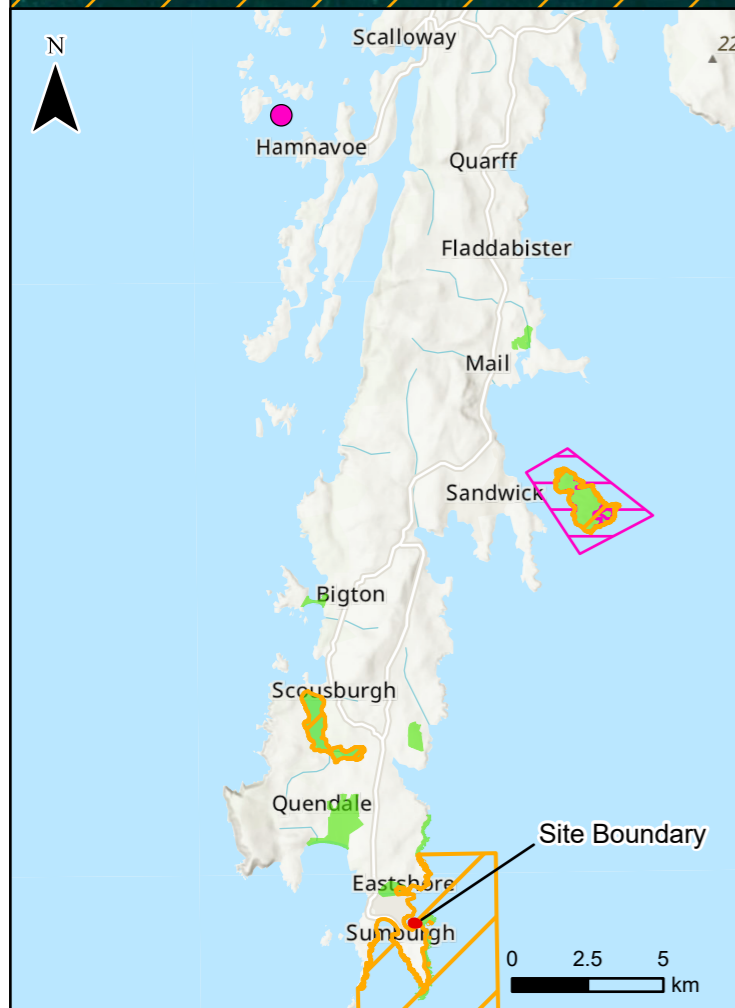
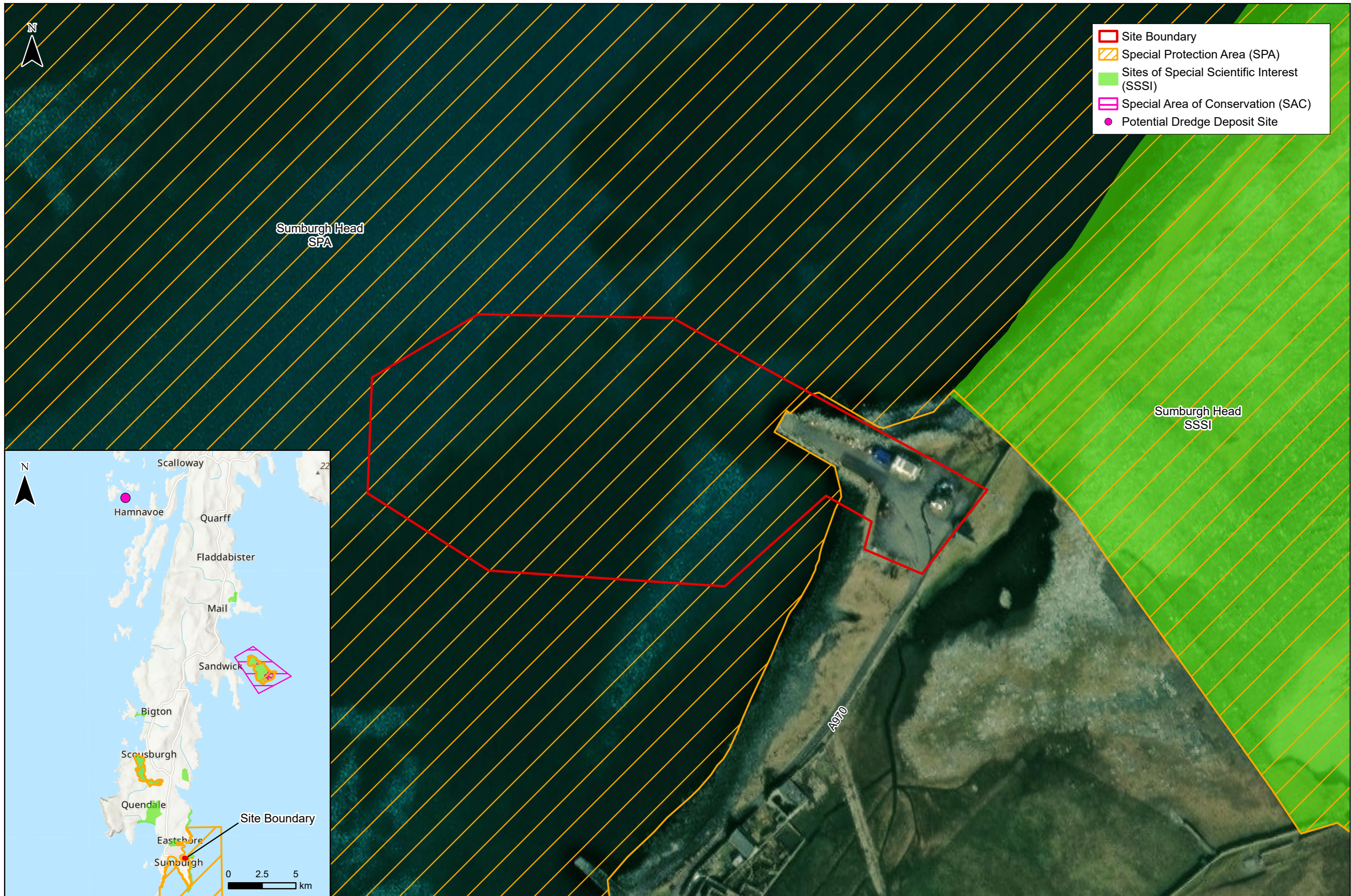
Scale at A1	Status	Rev	Security
As Shown	PRE	P01	STD

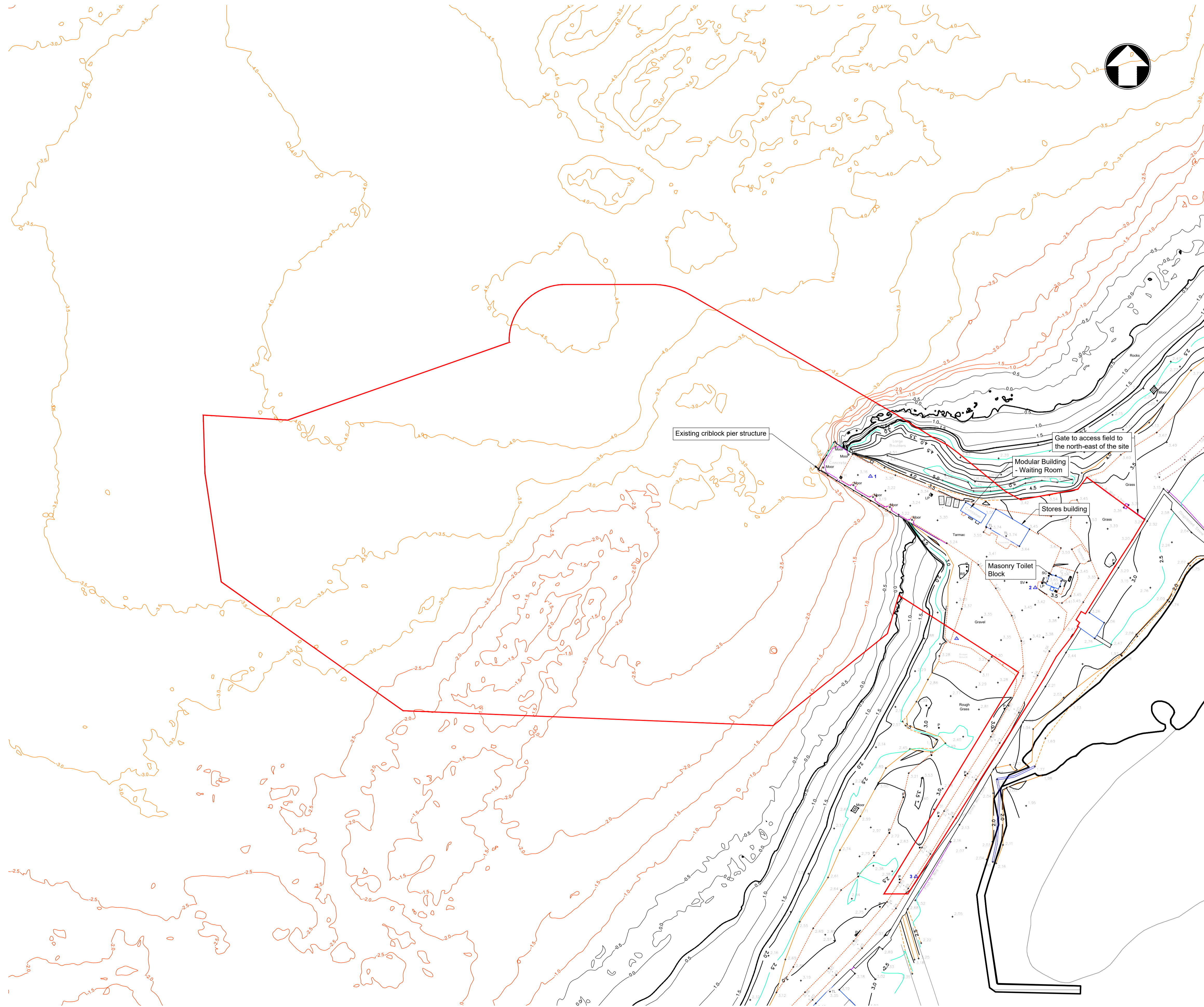
Drawing Number
Figure 2.1

© 2021 Microsoft Corporation © 2021 Maxar ©CNES (2021) Distribution Airbus DS



© Mott MacDonald
 This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald was commissioned. Mott MacDonald accepts no responsibility for this document to any other party other than the person by whom it was commissioned.





Notes

1. All levels are in metres about Chart Datum (mACD).
2. All dimensions are in metres unless otherwise noted.
3. Chart Datum is 0.92m below Ordnance Datum.

Key to symbols

— Red Line Boundary

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	02.03.23	RK	For Information	RC	MR

M M
MOTT MACDONALD

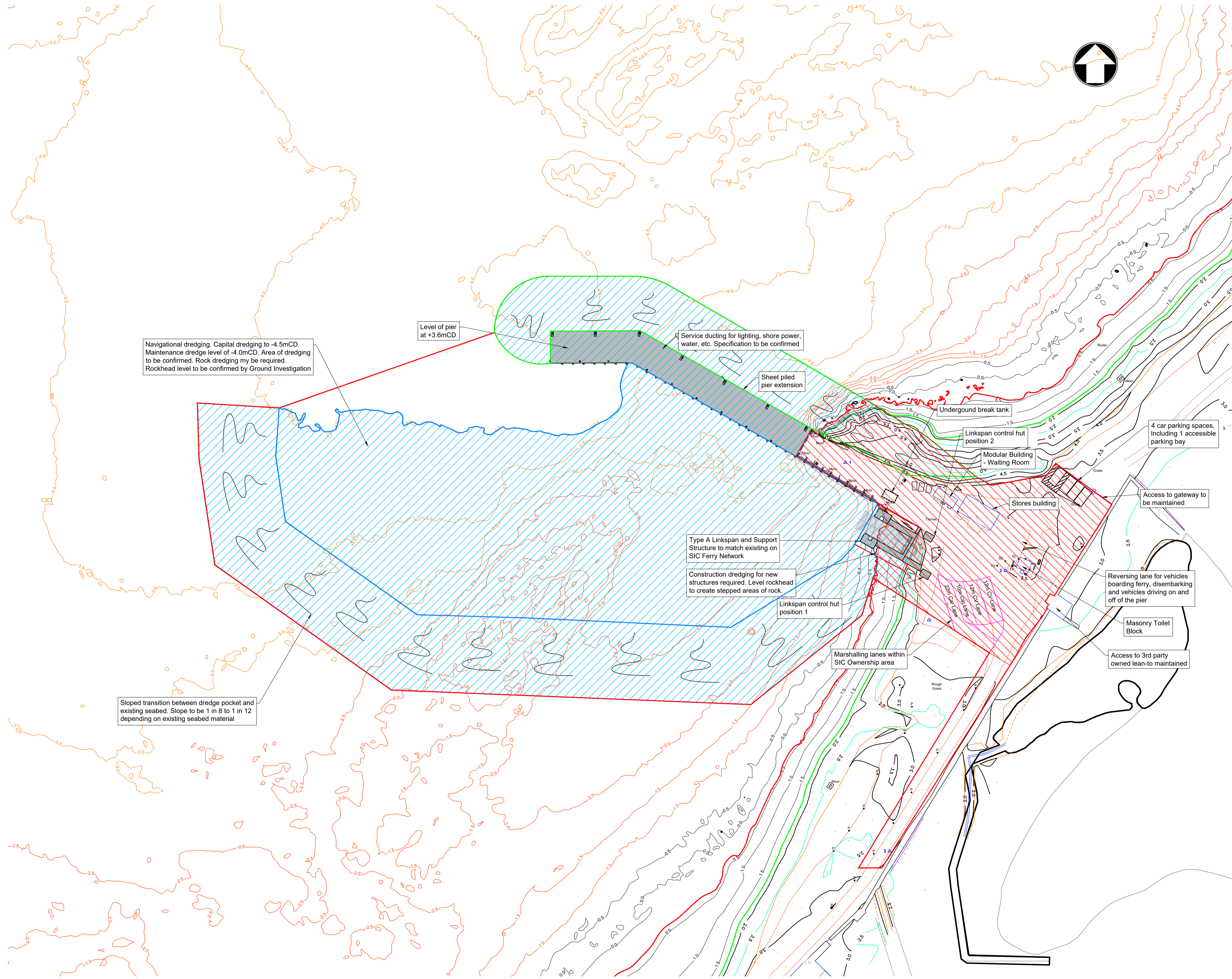
Greenhead
 Lerwick
 Shetland
 ZE1 0PY
 United Kingdom
 T +44 (0)1595 695049
 F www.mottmac.com

Client
 Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

Title
 Shetland Inter Island
 Transport BC Support
 Grutness Ferry Terminal
 Existing Site Plan

Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
1:500	PRE	P01	STD		

Drawing Number
Figure 2.3



Navigational dredging. Capital dredging to -4.5mCD. Maintenance dredge level of -4.0mCD. Area of dredging to be confirmed. Rock dredging may be required. Rockhead level to be confirmed by Ground Investigation

Level of pier at +3.6mCD

Service ducting for lighting, shore power, water, etc. Specification to be confirmed

Sheet piled pier extension

Underground break tank

Linkspan control hut position 2

Modular Building - Waiting Room

Stores building

4 car parking spaces, including 1 accessible parking bay

Access to gateway to be maintained

Type A Linkspan and Support Structure to match existing on SIC Ferry Network

Construction dredging for new structures required. Level rockhead to create stepped areas of rock.

Linkspan control hut position 1

Reversing lane for vehicles boarding ferry, disembarking and vehicles driving on and off of the pier

Masonry Toilet Block

Access to 3rd party owned lean-to maintained

Marshalling lanes within SIC Ownership area

Sloped transition between dredge pocket and existing seabed. Slope to be 1 in 8 to 1 in 12 depending on existing seabed material

- Notes
- All levels are in metres about Chart Datum (mACD).
 - All dimensions are in metres unless otherwise noted.
 - Chart Datum is 0.92m below Ordnance Datum.
 - The existing cribwall pier requires intrusive structural condition survey which will require a degree of opening up

- Key to symbols
- Site Boundary
 - Indicative Dredge Area
 - Rock Armour Revetment
 - Marshalling Lanes
 - New Linkspan and Pier Extension Structures
 - Marine Works
 - Terrestrial Works

Reference drawings

P01	02.03.23	RK	For Information	RC	MR
Rev	Date	Drawn	Description	Ch'k'd	App'd

MOTT MACDONALD

Greenhead
Lerwick
Shetland
ZE1 0PY
United Kingdom
T +44 (0)1595 695049
F www.mottmac.com

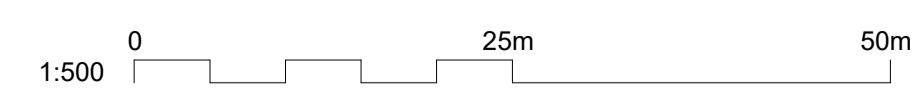
Client
Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

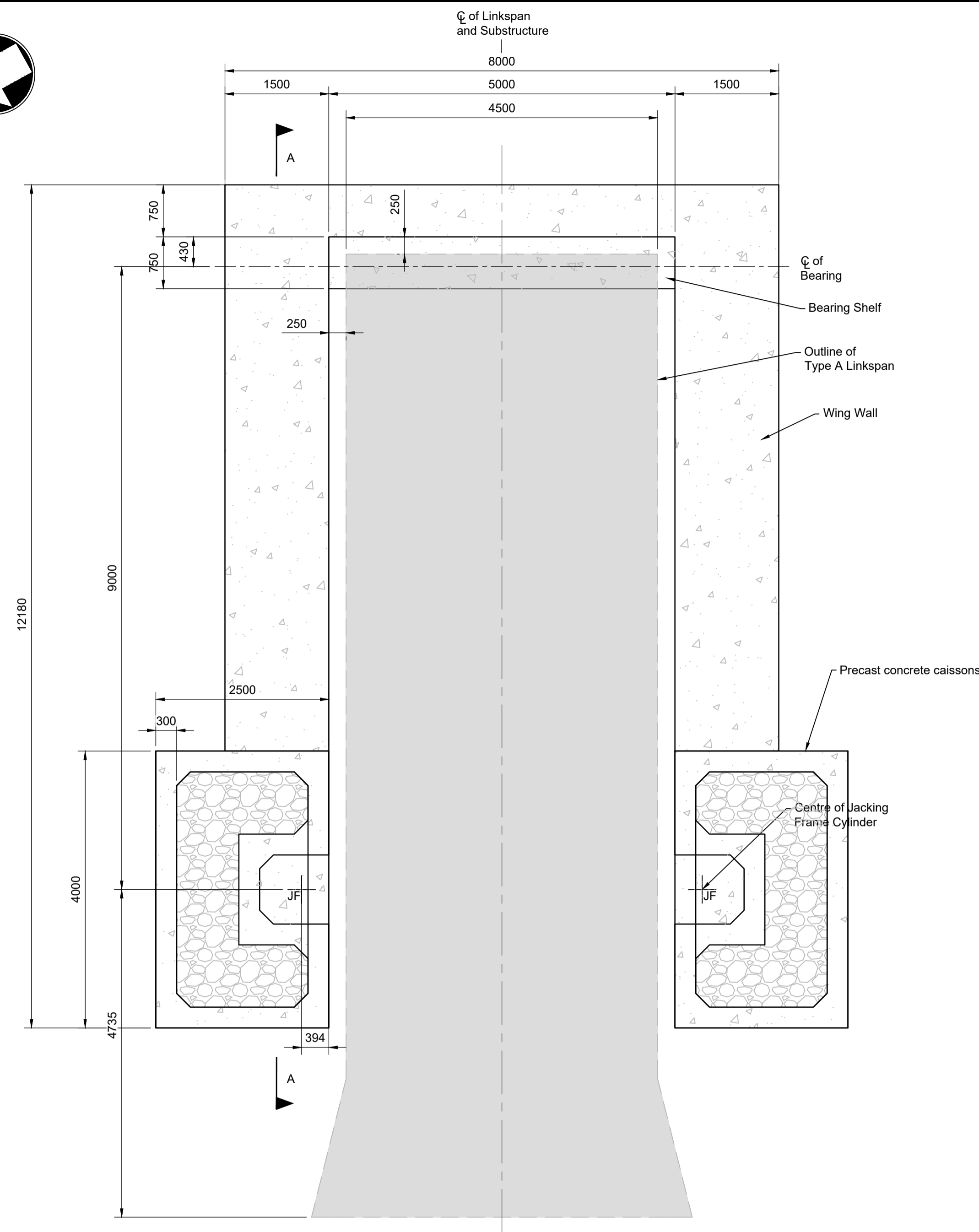
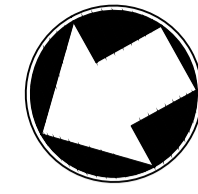
Title
**Shetland Inter Island
 Transport BC Support
 Grutness Ferry Terminal
 Site Plan
 Marine and Terrestrial Works**

Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Kirkpatrick	MK
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
1:500	PRE	P01	STD		

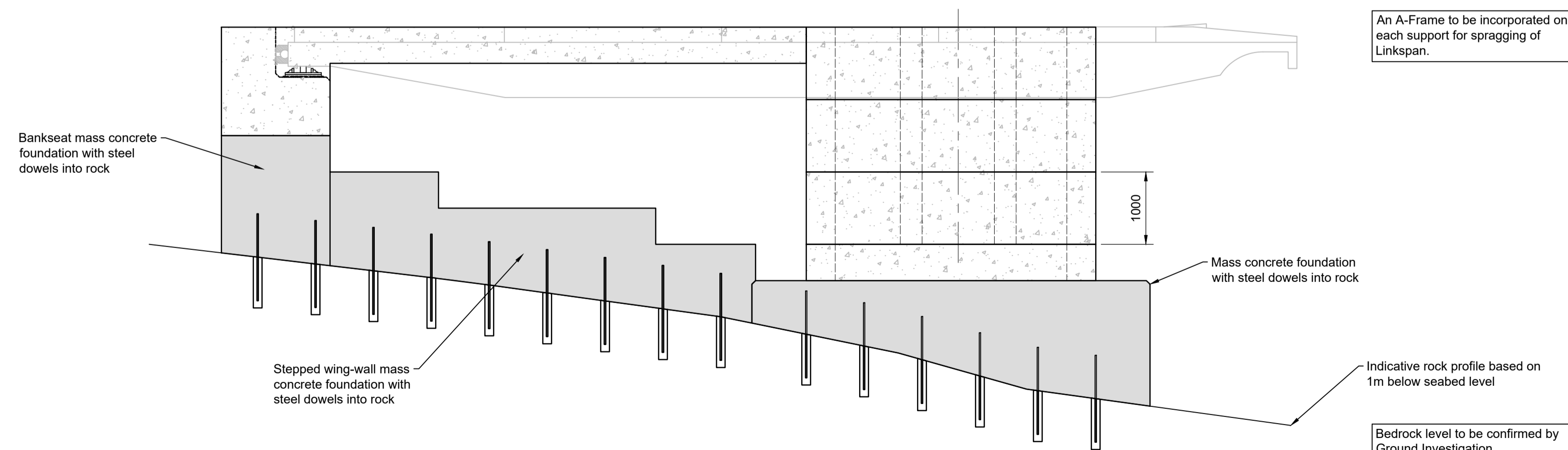
Drawing Number
Figure 2.5

© Mott MacDonald
 This document should not be relied on or used in circumstances other than those for which it was originally prepared and for which Mott MacDonald was commissioned. Mott MacDonald accepts no responsibility for this document to any other party other than the person by whom it was commissioned.
 C:\Users\KIL2502\Mott MacDonald\Fair Isle and Grutness Design - Do (1)\Develop\05 Grutness - Working\02 Initial Concept\01 Drawings and sketches\CAD\REF\A7636_Grutness_CD_2D_20220615.dwg Mar 2, 2023 - 10:56AM KIL2502





Plan of Linkspan Caisson Substructure
Scale 1:50



A-A Linkspan Caisson Substructure Cross-Section
Scale 1:50

- Notes
1. All levels are in metres about Chart Datum (mACD).
 2. All dimensions are in metres unless otherwise noted.
 3. Chart Datum is 0.92m below Ordnance Datum.
 4. Linkspan to be a Type A Linkspan with steelwork and concrete support structure similar to Laxo.

Key to symbols

- Linkspan Structure
- Concrete
- Centre of Jacking Frame Cylinder
- Sand

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	20.12.22	RK	For Information	RC	MR

MOTT MACDONALD

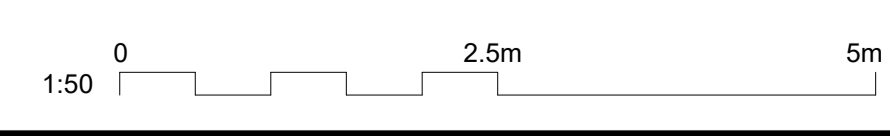
Greenhead
Lerwick
Shetland
ZE1 0PY
United Kingdom
T +44 (0)1595 695049
F www.mottmac.com

Client
Shetland Islands Council
8 North Ness Business Park
Lerwick
Shetland
ZE1 0LZ

Title
**Shetland Inter Island
Transport BC Support
Grutness Ferry Terminal
Proposed Structure - Linkspan**

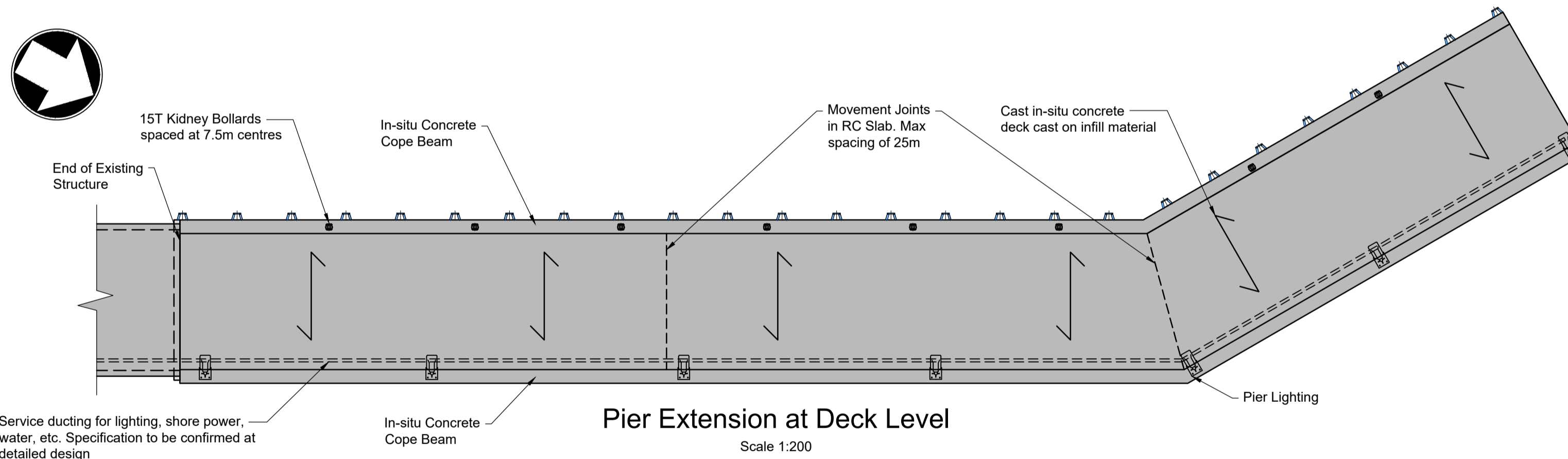
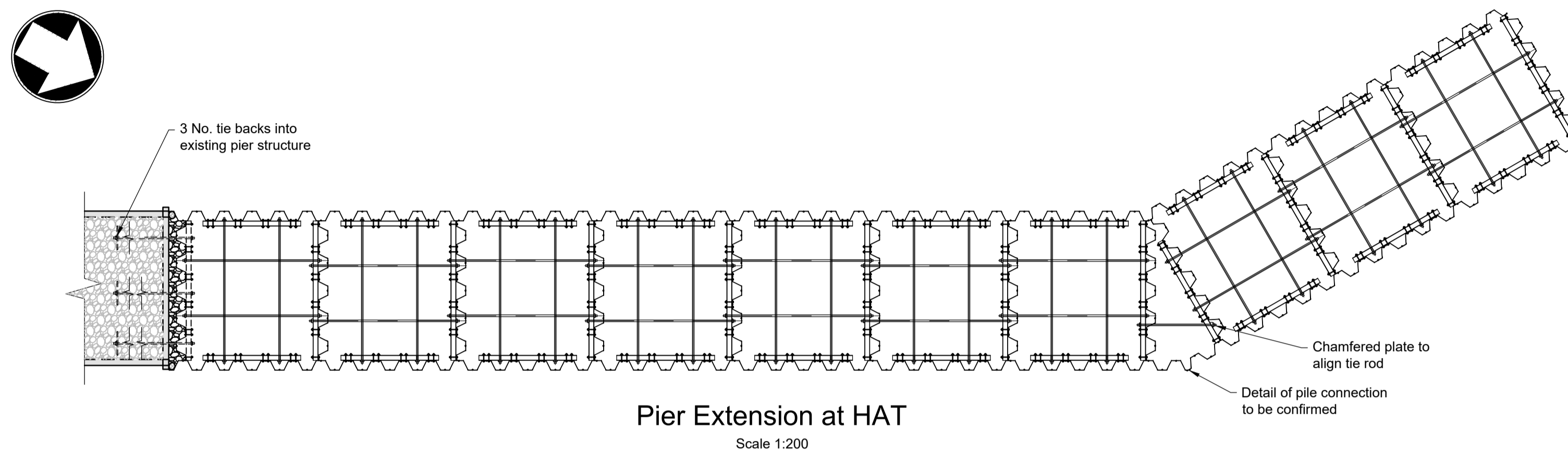
Designed	R Crewe	RC	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
Figure 2.6



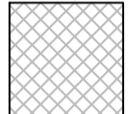
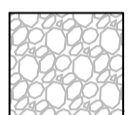
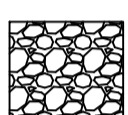


SHEET PILE CELL DIMENSIONS TO BE CONFIRMED AFTER SELECTION OF CRANE

FENDERS OMITTED FOR CLARITY




- Notes
1. This drawing is indicative only and is subject to design development
 2. Sheet pile walls to have cathodic protection and to be painted. Specification to be provided during detailed design

Key to symbols

-  Grout Sock
-  Existing Granular Fill Material
-  New Granular Fill Material
-  Precast Crib Lock Structure Elements
-  Fenders

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P01	20.12.22	RK	For Information	RC	MR



Greenhead
Lerwick
Shetland
ZE1 0PY
United Kingdom
T +44 (0)1595 695049
F
W www.mottmac.com

Client
Shetland Islands Council
 8 North Ness Business Park
 Lerwick
 Shetland
 ZE1 0LZ

Title
**Shetland Inter Island
 Transport BC Support
 Grutness Ferry Terminal
 Proposed Structure - Pier Extension**

Designed	M Kirkpatrick	MK	Eng check	R Crewe	RC
Drawn	R Kilgour	RK	Coordination	M Cairns	MC
Dwg check	R Crewe	RC	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
As Shown	PRE	P01	STD		

Drawing Number
Figure 2.7

