



NTS



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1) CURRENT CONDITION

1.1	Current Main Vessel	MV LEIRNA Size: • Loa = 32.45 m • Beam = 10.7 m • Draught = 1.99 m Capacity: • 124 passengers • 19 PCU
1.2	Breakwater	Rubble mound 200m long
1.3	RoRo Ferry Berth	• 5 timber dolphins supported against the breakwater with timber struts. • Vertical rubber D type fenders
1.4	Linkspan	Small 4.5m wide x 13.915 m long
1.5	Parking/waiting area	120 lane meters
1.6	Facilities	Toilets & waiting room

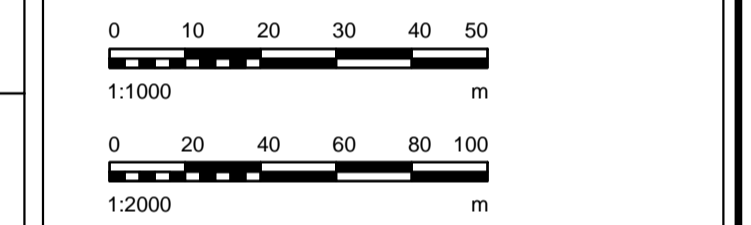


Scale approx. 1:1000

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 5. IMAGERY FROM GOOGLE EARTH.
 6. BED LEVELS FROM ADMIRALTY CHART 3271 LERWICK HARBOUR AND APPROACHES.
 7. BERTH STRUCTURE REQUIRES FURTHER ASSESSMENT TO ESTABLISH NECESSARY REPAIRS/STRENGTHEN WORKS OR COMPLETE REPLACEMENT TO COMPLY WITH A 30 YEARS SERVICE LIFE.
 8. FENDERS AND BOLLARDS FOR OVERNIGHT MOORING REQUIRE FURTHER ASSESSMENT TO ESTABLISH THEIR ADEQUACY FOR LARGER VESSELS.
 9. IF BERTH STRUCTURE IS TO BE REPLACED IT IS RECOMMENDED TO REPLACE / UPGRADE LINKSPAN.

SHETLAND TIDAL LEVELS

LOCATION	MHWS	MHWN	MLWN	MLWS
Lerwick	2.1	1.7	0.9	0.5

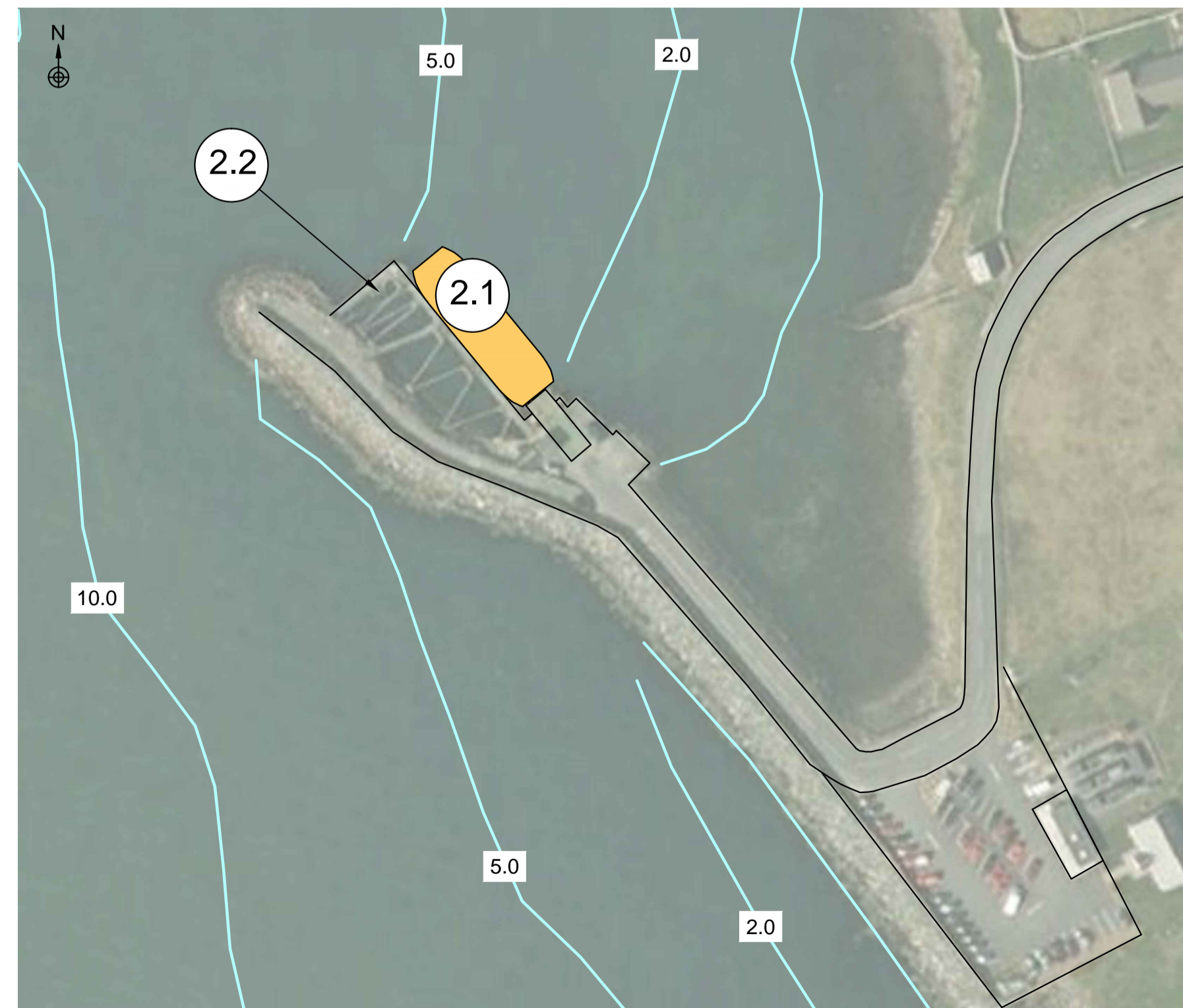


ORIGINAL DIMENSION 90mm

Reference Drawings:

2) LIKE FOR LIKE OPTION No Terminal upgrades

2.1	Vessel	35m Specific Vessel
2.2	RoRo Ferry Berth	Further assessment to establish strengthen works if required (see note 7).



Scale approx. 1:1000

3) LARGER VESSEL Terminal upgrades

3.1	Vessel	Larger Specific Vessel
3.2	RoRo Ferry Berth	• Vessel slightly overhangs from berth. If strengthen works are required, extension of the berth could be undertaken (see notes 7 & 9). • Installation of new fenders and bollards along the structure (see note 8).
3.3	Dredging	Dredge pocket and maneuvering area to be dredged to approx. -3.5mCD.
3.4	Parking	Additional parking area for increased demand.



Scale approx. 1:1000

4) OVERNIGHT BERTH AT LERWICK Possible locations

4.1	Victoria Pier West	• 61m long pier with a minimum water depth of 6m CD. • Adequate for Like for Like and Larger Specific Vessel. • Near the existing Bressay Ferry Terminal. • Well sheltered, adequate for storm conditions. • Bollards and fenders should be reviewed to establish adequacy. • To consult availability with Port Authority.
4.2	Alexandra Wharf	• 65m long quay with adequate water depth for both vessel options. • Near the existing Bressay Ferry Terminal. • Partially sheltered. Probably not adequate during storm conditions. • Bollards and fenders should be reviewed to establish adequacy. • To consult availability with Port Authority.



Scale approx. 1:2000

Rev	Date	Details
C	18/07/16	SIC comments
B	14/06/16	PBA comments
A	21/03/16	Additional information and formatting



Project:
SHETLAND INTER-ISLAND TRANSPORT STUDY

Title:
BRESSAY OPTIONEERING



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Status:	FOR DISCUSSION	Scale at A1 Original:	AS SHOWN
Drawn:	DP	Checked:	GR
Drawn Number:	1537-01-101	Date:	07/03/16
Revision:	C		