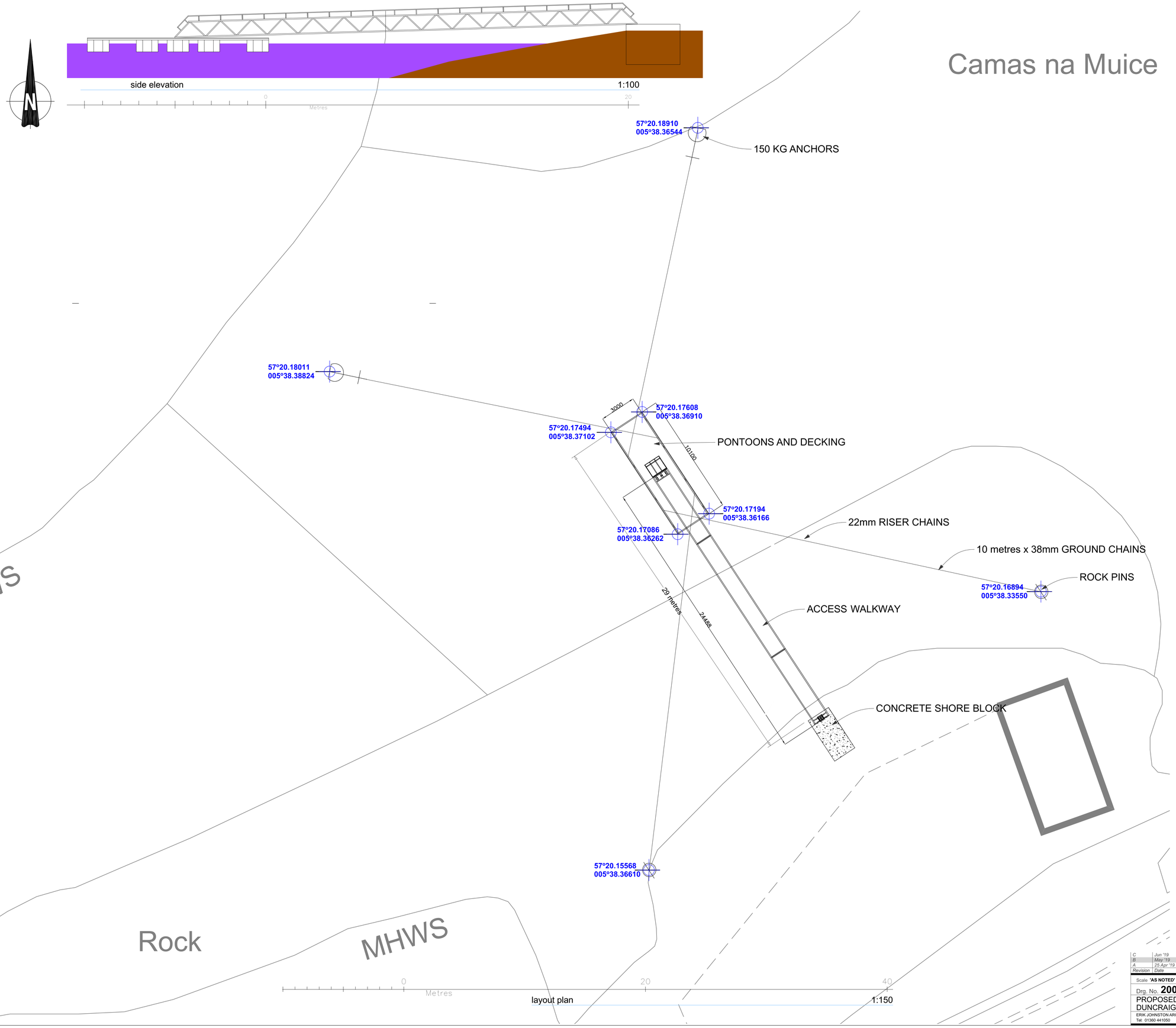
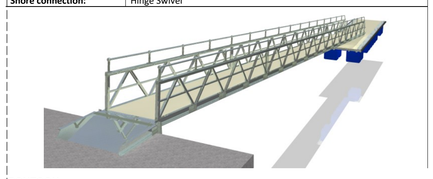
Camas na Muice



GENERAL SPECIFICATION:

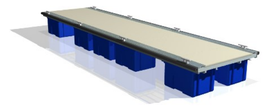
ACCESS GANGWAY:

Design load:	2.5 kN/m2.
Construction:	Fully welded fabrication consisting PFC, RSA & SHS sections
Access Gangway Width:	1250 mm.
Decking:	30mm GRP Minimesh, also on matching access/egress ramps
Corrosion protection:	All mild steel components hot dip galvanised to BS EN ISO 1461
Pontoon connection:	Roller Wheels With running strips
Shore connection:	Hinge Swivel



PONTOON:

Design load:	1.5 kN/m^2 applied UDL.
Unloaded Freeboard:	550mm (Nominal).
Framework:	All components are designed in accordance with BS EN 1991 (Eurocode 1) and BS EN 1993 (Eurocode 3). All structural steel work is procured to meet BS EN 10025-1, BS EN 10210-1 & BS EN 10219-1. It will be manufactured under EXC2 of BS EN 1090. All steel components are hot dip galvanised in accordance with BS EN ISO 1461:2009. This ensures that the client receives a reliable product that will meet or exceed design specification, provide longevity and minimise through life costs.
Floatation:	Roto-moulded polyethylene floats, filled with solidified polystyrene beads. A major benefit of polyethylene over the concrete equivalent is that they are easily interchangeable without the need for expensive plant. This means that buoyancy changes can be made with ease to ensure a level platform, even if accessories are added in the future. In addition it reduces ongoing cost to the client as maintenance and float change out can happen without crane hire and associated area shut down.
Decking:	30mm Mini-Mesh GRP: Benefits of mini-mesh include: • UV Stable • Integrated non-slip • Free draining • Virtually maintenance free
Fendering:	Timber fender
Corrosion protection:	All mild steel components are galvanised to BS EN ISO 1461:2009.
Mooring Cleats:	Cast aluminium with stainless steel through bolts @ 3000mm centres.



DESIGN PARAMETERS:

All components are designed in accordance with BS EN 1991 (Eurocode 1) and BS EN 1993 (Eurocode 3).

All structural steel work is procured to meet BS EN 10025-1, BS EN 10210-1 & BS EN 10219-1. It will be manufactured under EXC2 of BS EN 1090.

All steel components are hot dip galvanised in accordance with BS EN ISO 1461:2009. GRP mini-mesh is used throughout to provide a long-life, low maintenance, non-slip deck.

wind loading being derived in accordance with BS 5400.

Applicable standards that will be used where appropriate are:

- BS EN 1990 Eurocode – Basis of Structural Design
- BS EN 1991 Eurocode 1: Actions on Structures
- BS EN 1992 Eurocode 2: Design of Concrete Structures
- BS EN 1993 Eurocode 3: Design of Steel Structures
- BS EN 1994 Eurocode 4: Design of Composite Steel and Concrete Structures
- BS EN 1995 Eurocode 5: Design of Timber Structures
- BS EN 1997 Eurocode 7: Geotechnical Design
- BS 6349 Maritime Works
- BS 8300 Design of buildings to their approaches to meet the needs of disabled people
- BS EN ISO 1461 Hot dip galvanized coatings on fabricated iron and steel articles
- The Yacht Harbour Association, A code of practice for the Design, Construction and Operation of Coastal and Inland Marinas and Yacht Harbours
- The Design Manual for Roads and Bridges
- BS EN 1011 Welding – Recommendations for welding of metallic materials

Proposed Corrosion Protection
All exposed mild steel used in the construction of the pontoon will be galvanised to:
BS EN ISO 1461:2009. It will also meet the requirements of Series 1900 of the SHW.
The average coating weight will meet or exceed 1000g/m^2.

Common tests:
Magnetic measuring device used to determine the thickness of the galvanizing.
Coating can be measured to an accuracy of 1-2 microns without destroying the coating. Steel that is at least 6mm thick normally achieves a minimum 85 microns average coating thickness. Multiple points on the surface are measured.

Revision	Date	Description
C	Jun '19	add coordinates in degrees, minutes and seconds
B	May '19	add latitude and longitude coordinates (WGS84)
A	25 Apr '19	planning application, marine scotland application, crown estates application.

Scale **'AS NOTED'** Drg. Size **A1** Drg. Status: DESIGN

Drg. No. **200/1665** rev **C** **pontoon plan and specification**

PROPOSED PONTOON
DUNCRAIG CASTLE, PLOCKTON, ROSS-SHIRE, IV52 8TZ.

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Planning App. Ref No: .....
Building Warrant Ref No: .....