

Aberdeen Harbour Expansion Project
Marine Licence application: Marine Construction
Document and drawing register

Document register

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Drawing register

Drawing reference	Description
01.Location_plan_Q2582	Location of existing Aberdeen Harbour and proposed harbour expansion
02.Boundaries_Q2582	Marine licence boundary, Harbour Revision Order boundary and Planning Permission in Principle boundary
03.Layout_and_development_boundary_Q2582	Harbour layout showing development boundary
04.Layout_2015001 - 002 - B	Harbour layout
05.Areas_to_be_dredged_121106-1013(-)	Areas to be dredged and dredge depths
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14.Cross_section_West_Quay_121106-2701(A)	Representative cross section through the West Quay (open piled quayside)

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Marine Construction Projects in the Territorial Sea and UK Controlled Waters Adjacent to Scotland

Marine (Scotland) Act 2010

Marine and Coastal Access Act 2009

IMPORTANT: Before completing this form, please read these notes carefully.

The following numbered paragraphs correspond to the questions on the application form and are intended to assist applicants in completing the form. These explanatory notes are specific to this application and so applicants are advised to read these in conjunction with the General Guidance document. If further clarification is needed please contact Marine Scotland Licensing Operations Team (MS-LOT) on 01224 295579 or email:

MS.MarineLicensing@gov.scot

Please refer to the General Guidance for information regarding payment methods.

Explanatory Notes

2. Applicant

The person, company or organisation making the application that will be named as the licensee on any licence issued.

3. Agent

Any person, company or organisation acting under contract (or other agreement) on behalf of any party listed in the answer to question 2, and having responsibility for the control, management or physical deposit of materials anywhere below the tidal limit of the mean high water springs (MHWS) (e.g. a consultancy company submitting the application or a contractor who will be carrying out the works.)

4. Duration of Project

Provide details of the proposed commencement and completion dates of the project. The start date will not normally be backdated, except in exceptional circumstances, since to commence a project for which a licence has not been obtained may constitute an offence resulting in appropriate legal action. A licence is normally valid for 1 calendar year or the duration of the project (whichever is longer) but not normally exceeding 3 years. After this period, it will be necessary for licence holders to re-apply for a further licence to continue any ongoing work. Although Marine Scotland Licensing Operations Team (MS-LOT) will aim to write to licence holders one month before the expiry date of a licence, it is the licensee's responsibility to apply for any further licences or an extension prior to the expiry of the initial licence.

5. Description and Cost of the Proposed Project

- (a) This estimate should only cover work taking place below the tidal level of MHWS and should take into consideration the cost of materials, labour fees etc.
- (b) Where the project is expected to take longer than 12 consecutive months, this description must detail which elements are to be undertaken in the first 12 months, with an outline of the schedule for each further 12 month period (the method of work should be described in the answer to question 7) In the event that MS-LOT must undertake a wider consultation on your application this description may be used as a basis for informing other bodies as to the nature of the proposed work.
- (c) Best describe the type of work proposed. Where the project involves a number of elements, please complete all appropriate boxes.

6. Location of Project

Include a list of the National Grid References (NGR) or latitude and longitude co-ordinates of the boundary points of the proposed project. In a few cases, (e.g. laying of long pipelines) it may only be practicable to supply NGR or latitude and longitude co-ordinates for the start and end points.

NGR: Should consist of two letters followed by 10 digits (e.g. TL6320031700) where the first 5 digits are the eastings (read from the south west corner of an Ordnance Survey map) and the last 5 digits are northings.

Latitude & longitude: For positions read from charts of 1:25,000 scale or smaller, the format should be, e.g. 55°55.55'N 2°22.22'W. The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the datum should be explicitly marked, e.g. 55°55'44"N 2°22'11"W. For positions read from larger scale charts, e.g. 1:10,000, three decimal places of minutes should be used, e.g. 55°55.444'N 2°22.222'W.

It is important that the correct positions are included with this application, as any errors may result in the application being refused or delayed.

To supplement the information given in section 6, the following must be provided with the completed application form:

- a suitably scaled extract of an Ordnance Survey Map (1:2,500 scale but not more than 1:10,000) or Admiralty Chart which should be marked to indicate:
 - the full extent of the works in relation to the surrounding area;
 - either NGR or latitude and longitude co-ordinates defining the area of operation.
 - the level of MHWS;
 - any adjacent Special Area of Conservation (SAC), Special Protection Area (SPA), Site of Special Scientific Interest (SSSI), Ramsar or similar conservation area boundary.

These drawings/plans may be copied to others as part of the MS-LOT consultation process. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

- **Sewer outfalls, discharge pipes for industrial waste etc.** The size and description of the pipe should be shown on the longitudinal sections and also details of its supports, foundations, methods of jointing and details of any tidal flaps. The following information should also be provided.
- **Bridges over tidal waters:** An elevation with longitudinal and cross-sections of the bridge to a suitable scale should show the dimensions of the spans and width of piers, etc. above and below MHWS and the maximum and minimum heights of the undersides of the superstructures above MHWS. The headroom above MHWS and the width of span of the nearest bridges, if any, above and below the site should be stated.
- **Tunnels under tidal waters:** The longitudinal section of the tunnel should show the distances between the bed of the river or estuary and the top of the tunnels. Cross-sections should show the internal and external dimensions of the tunnel and particulars of construction. When a proposed future dredging level is known this must also be shown on all sections.
- **Overhead cables:** Catenary must be supplied in addition to the site plan showing the minimum clearance of the cable at MHWS and the electrical clearance allowed.

7. Method Statement

Please provide a full method statement, including details of any temporary structures/deposits that may be required below MHWS during the project, the ultimate fate of the structure and material used in its construction. Details of temporary structures will be included in any licence issued.

Proposed measures to ensure the marine environment is adequately safeguarded during the project should also be described (e.g. the method to be adopted to minimize the loss of fine-grained material during construction), as should those taken to minimise any interference with other uses of the sea or foreshore.

8. Permanent Deposits

- (a) Complete the appropriate box(es) to indicate all materials to be deposited below MHWS. If you propose using types of materials for which a specific box is not provided, please describe the nature of such material in the box marked "other".
- (b) If any materials to be placed below MHWS are to be brought to the site by sea, give details of the material (e.g. clean rock, average particle size) the vessels to be used,

A chart should also be provided showing the proposed vessel route to the project site and details of any trans-shipment areas (i.e. where material may be off-loaded to smaller vessels/barges for transport inshore).

- (c) Where the proposed work involves salt marsh feeding, beach replenishment or land reclamation the description of the material must include details of its chemical quality. Where the material has not been chemically analysed. MS-LOT may request representative samples for analysis or require the applicant to arrange for analyses to be undertaken before the licence can be determined.

9. Temporary Deposits

If temporary deposits are required, please provide details as with the permanent deposits above. The temporary deposit location details (NGR or Lat/Long) should be added to Section 6 of the form, and the period of time the site will be used must be provided. If issuing a licence, MS-LOT will include on the document details of any area that has been approved as a temporary deposit site.

10. Disposal of Material at Sea

If you are proposing to dispose of any excess material arising from the project at sea a separate marine licence will be required (see application form ML-002). The granting of a construction licence does not imply that a sea disposal licence will also be granted as different assessment criteria are used to determine each type of application.

11. Other Consents

Detail all consents required for the proposed project and indicate those that you have applied for or received. In all cases the applicant must provide the name and address of the nearest Local Planning Authority for the location of the project.

12. Statutory Consenting Powers

Please describe in the answer to this question what (if any) statutory responsibilities you (or your client) have to consent any aspect of the project.

13. Advertising and Consultation

- (a) Confirm whether these proposals have been advertised, and if so how and where?
- (b) Have the public been invited to comment on these proposals? If so to whom and what was the closing date?
- (c) Have any consultation meetings been held with the public? If so where and when?

14. Consultation with Conservation Bodies

Consenting Authorities have a duty to ensure marine projects will not have a significant adverse environmental impact, particularly upon designated conservation areas (e.g. SSSI, SAC, SPA, Ramsar sites etc). All details of consultations with conservation bodies (e.g. SNH) should be given, particularly where the applicant has statutory powers for consenting aspects of the project.

Any application for beach replenishment works should be cross checked as to whether the proposed site is a designated bathing water site and if so, ideally all physical works should be done outwith the Bathing Water Season (1st June to 15th September). Further guidance on the Bathing Waters Directive (2006/7/EC) can be obtained from www.sepa.org.uk/data/bathingwaters.

In addition, guidance can be obtained from www.foodstandards.gov.uk/ with regards to the Shellfish Waters Directive (2006/113/EC) which has parameters set to protect the water quality in which edible shellfish are grown.

15. Designated Conservation Areas

Indicate whether the proposed project is located within or close to the boundaries of a conservation area such as a SAC, SPA, SSSI or Ramsar site

16. Environmental Assessment

Under the Marine Works (EIA) Regulations 2007, there may be a requirement for certain projects to undergo an Environmental Impact Assessment (EIA) and produce an Environmental Statement (ES). If an EIA/ES is deemed necessary, MS-LOT cannot issue a marine Licence until the outcome of the EIA/ES has been determined. Please indicate whether any EIA has been carried out in respect of the proposed project, either under your own powers or as required by another authority. If such an assessment has been undertaken, please indicate if a copy has been provided with your application. If the statement/assessment has been completed but is not available, please provide an explanation in the space provided.

Additionally, please also give details regarding if and where a copy has been/is being made available for public inspection.

Other Considerations

Applicants should also be aware of the need to pay due regard to coastal and marine archaeological matters and attention is drawn to Historic Scotland's Operational Policy Paper HP6, "Conserving the Underwater Heritage". Please ensure that you have:

- completed **all** applicable sections of the application form;
- signed and dated the declaration;
- provided the correct relevant documents, charts, and continuation sheets (where necessary); and
- enclosed the correct payment (together with the remittance slip) or paid by means of BACS (if appropriate).

Otherwise your application may be delayed or returned to you.

**Application for Marine Construction Projects in the Territorial Sea and UK
Controlled Waters Adjacent to Scotland**
(ML-001)

Marine (Scotland) Act 2010
Marine and Coastal Access Act 2009

**It is the responsibility of the applicant to obtain any other consents or authorisations that
may be required.**

**Under Part 4, Section 54 of the Marine (Scotland) Act 2010 and Section 101 of the Marine and Coastal
Access Act 2009 all information contained within or provided in support of this application will be
placed on the Public Register. There is no national security grounds for application information not
going on the Register under the 2010 Act. Under the 2009 Act, application information goes on the
Register unless the Secretary of State determines that it's disclosure in the Register would be contrary
to the interests of national security.**

Public Register

Is there any information contained within or provided in support of this application that you consider
should not be included on the Public Register on the grounds that its disclosure

(a) would be contrary to the interests of national security; or YES ☐ NO ☒

(b) would adversely affect the confidentiality of commercial or industrial information where such
confidentiality is provided by law to protect a legitimate commercial interest? YES ☐ NO ☒

If **YES**, to either (a) or (b), please provide full justification as to why all or part of the information you have
provided should be withheld.

n/a

1. Project Title and Payment Details

Please give a brief identifiable description, including the location, of the project.

Aberdeen Harbour Expansion Project

Payment: Enclosed payment ☐ BACS ☐ **OR** Invoice ☒

2. Applicant Details

Title Mr. Initials K Surname Young

Trading Title (if appropriate) Aberdeen Harbour Board

Address 16 Regent Quay
Aberdeen, AB11 5SS

Name of contact
(if different) Katherine Harris

Position within Company
(if appropriate) Environment Manager

Telephone No. 01224 597000 Fax No.
(inc. dialing code) (inc. dialing code)

Company Registration No. n/a Email k-harris@aberdeen-harbour.co.uk

3. Agent Details (if any)

Title Initials Surname

Trading Title (if appropriate)

Address

Name of contact
(if different)

Position within Company
(if appropriate)

Telephone No. Fax No.
(inc. dialing code) (inc. dialing code)

Company Registration No. Email

4. Duration of Project

Start date December 2016 Expected completion date March 2020

5. Description and Cost of the Proposed Project

(a) Estimated gross cost of the works proposed seawards of the tidal limit of MHWS

£400,000,000

(b) Give a detailed description of the proposed schedule of work.

The following table is reproduced from Table 3.2 in ES Chapter 3 (Description of the Development) and provides an indicative schedule of works:

Construction Activity	Start Date	Duration	Completion Date
Mobilisation/preparatory works/diversions	Q4 2016	6 months	Q1 2017
Temporary access roads [above MHWS]	Q4 2016	3 months	Q1 2017
Intake and outlet diversions (as required)	Q4 2016	6 months	Q1 2017
Dredging (including drilling and blasting)	Q1 2017	19 months	Q4 2018
Casting and placing of concrete units	Q1 2017	21 months	Q4 2018
Breakwater construction	Q1 2017	21 months	Q4 2018
Quay piling operations	Q2 2017	23 months	Q2 2019
Quay construction and infilling	Q2 2017	31 months	Q4 2019
Ancillary accommodation and site infrastructure	Q2 2018	Over an 18 month period	Q4 2019
Harbour project complete and harbour fully operational	Q4 2019	Over a 5 month period	Q2 2020

(c) Types of Work Proposed

General Marine Project (e.g. outfall pipe, dock wall, coast protection, pier, slipway):

- Dredging to 9.0 m below Chart Datum within the harbour, and 10.5 m below Chart Datum at the East Quay and in the entrance channel, as shown on drawing '05.Areas_to_be_dredged_121106-1013(-)' submitted with this application. There will be areas that require localised deeper dredge pockets to facilitate construction, as shown in drawing '06.Areas_of_rock_dredging_121106-1014(-)' submitted with this application.
[Note: a separate marine licence application has been made for the dredging and disposal activities.]
- Construction of new north and south breakwaters to form the harbour, as shown on drawings '03.Layout_and_development_boundary_Q2582' and '04.Layout_2015001 - 002 - B' submitted with this application.

- Land reclamation and construction of approximately 1,400 m of quays and associated support infrastructure, as shown on drawings '03.Layout_and_development_boundary_Q2582' and '04.Layout_2015001 - 002 – B' submitted with this application.
- Construction of areas (on the quaysides) to provide accommodation, fuel, bulk commodities and potable water, as shown on drawing '03.Layout_and_development_boundary_Q2582' submitted with this application. Quayside services such as fuel, composite bulks, brine and power will be incorporated into a service trench that will run around the harbour with spur points to the quayside at regular intervals.
- Installation of navigational aids, as shown on drawing '04.Overall_layout_2015001 - 002 – B' submitted with this application.

Further information is provided in ES Chapter 3 (Description of the Development).

6. Location of Project (including temporary deposits)

This should include either National Grid References (NGR) or Latitude and Longitude co-ordinates defining the extent of the project.

Please refer to separate document 'Development Coordinates' submitted with this application, which provides the coordinates for the following aspects of the works:

- North breakwater and south breakwater
- East, North and West quays
- Areas to be dredged to 9.0 m below Chart Datum
- Areas to be dredged to 10.5 m below Chart Datum

7. Method Statement

A detailed methodology is provided in ES Chapter 3 (Description of the Development). The following is an indicative construction methodology for the marine elements of the works. The appointed contractor will consider and develop their own specific methodology, but it is likely to be similar to that set out below:

- Protection/diversion of outfalls and intakes within the bay;
- Dredging to form a bed for the construction of the breakwaters, ahead of the main capital dredging works;
- Breakwater formation – mass fill core with rock armour protection. Subject to availability of suitable materials, it is anticipated that both the north and south breakwaters will be constructed simultaneously;
- Dredging to deepen the bay. The nature and timing of dredging operations will be affected by weather conditions, as well as the volume of dredged material that can be practically and economically re-used within the land reclamation;
- Works to form the solid quays and land reclamation on the north of the bay will commence as soon as the breakwaters provide a safe working environment. Solid quay construction will require filling/piling and capping progressively along its length. Service trenches will be constructed within the slabs. Works to construct the suspended decks will commence as soon as practicable following the completion of revetment formation; and
- Installation of quayside 'furniture'.

8. Permanent Deposits

(a) Quantity of permanent materials to be deposited below MHWS:

Type of Deposit	Nature of Deposit	Deposit Quantity
Steel/Iron	Piles and anchor walls	8,800 tonnes
Timber	0	0 m ³ /tonnes
Plastic/Synthetic	Negligible	0 m ²
Concrete	Copes, tubular pile fill and service trench, suspended monolithic deck and beams, paving	43,500 m ³
	Concrete armour	209,000 m ³
Silt	Negligible	0 m ³
Sand	Quay reclamation/infill (mixture of sand and silt)	400,000 m ³
Stone/Rock/Gravel	Breakwaters (60 kg – 6 tonne weight range). Includes 109,000 m ³ of reclaimed rock from the dredging process	1,055,000 m ³
	Quay reclamation/infill (up to 400 mm size range)	550,000 m ³
Concrete bags/mattresses	Scour protection	8,500 m ³
Pipe	Reinforced East Tullos Burn culvert: 2 no. 900 mm diameter	Length 70 m
	Reinforced UFI outfall culvert: 600 mm diameter	70 m
	Diverted Marine Scotland Science aquarium intake pipe: 450 mm diameter	250 m
Other (please describe below):		

(b) Method of delivery of material. (see Guidance Notes)

As a worst case scenario for road transport, the ES has assumed that all materials will be delivered to the site by road. It is likely that the contractor may choose to deliver some materials to the site by sea; in this case the contractor will be required to demonstrate that this method is 'Not Environmentally Worse Than' the method assessed in the ES.

(c) For work involving salt marsh feeding, beach replenishment or land reclamation please provide the following information relating to the material to be deposited:

Quantity (tonnes):

As provided in the table in Question 8.a).

Nature of Material:
(e.g. sand, silt, gravel etc.)

Rock, gravel and sand, as detailed in the table in Question 8.a).

Source:
(if sea dredged state
location of origin)

As described in the BPEO submitted with this application, it is likely that a proportion of the material to be dredged within the marine licence area will be used as reclamation/fill material for the construction of the quays. Suitable material may also be sourced from land-based quarries as required.

Particle size:

Rock, sand and gravel greater than 63 µm.

Has the material been chemically analysed?

YES ☒ NO ☐

If **YES**, please include the analysis data with your application.

See separate report submitted with this application: 'Chemical Analysis Summary'.

9. Temporary Deposits

Will there be a need to make any temporary deposits of material below MHWS during the works? If **YES** complete the table below.

The only temporary deposits will be the temporary stockpiling of sand and stone/rock/gravel within the marine licence area, prior to the repositioning of this material to form the breakwaters and reclamation area. This material is, therefore, already accounted for in the table in Section 8.a). The quantities of material to be temporarily deposited could be up to 50% of those stated in this table.

Type of Deposit	Nature of Deposit	Deposit Quantity
Steel/Iron		Tonnes No. (if applicable)
Timber		m ³ /tonnes
Plastic/Synthetic		m ²
Concrete		m ³
Silt		m ³
Sand		m ³
Stone/Rock/Gravel		Size range (mm) Total m ³
Concrete bags/mattresses		No. Dimensions Total m ³
Pipe		Length (m)

If 'other' please describe below:

10. Disposal of Material at Sea

Do you intend to apply for a licence to DISPOSE AT SEA material dredged as part of the project?

If **YES**, please indicate:

Nature of material (sand, gravel, silt, clay, rock etc.):

Yes – a separate marine licence application has been made for the disposal of material at sea. The material to be disposed is glacial till (mixed clay, silt, sand and gravel).

Quantity of material (tonnes):

Maximum of 5,405,000 tonnes (2,300,000 m³)

11. Other Consents

Please detail below all consents you have applied for or received

Type of Consent	(Tick appropriate box)		Reference No.	Date of Issue of Consent
	Applied for	Not Applied for		
1. Local Planning Authority (LPA) (e.g. Town and Country Planning Act)	x		Not yet available	
Name and address of LPA for Location of proposed works:	Aberdeen City Council Marischal College Broad Street Aberdeen, AB10 1AB			
2. Land Owner e.g. The Crown Estate		x (in discussions)		
3. Local Port or Harbour Authority e.g. local work licence		x (n/a)		
4. Scottish Environment Protection Agency (SEPA)		x (n/a)		
5. Others Harbour Revision Order from Transport Scotland	x			

12. Statutory Consenting Powers

Do you, or (if appropriate) your client, have statutory powers to consent any aspect of this project?

No. In parallel with this marine licence application, Aberdeen Harbour Board has applied for a Harbour Revision Order under the Harbours Act 1964 to undertake the works, and to vary its existing harbour powers to apply to the proposed new harbour area.

13. Advertising and Consultation

(a) Have these proposals been advertised to the public?
If YES, how and where?

YES ☒ NO ☐

In accordance with The Marine Licensing (Pre-application Consultation) (Scotland) Regulations 2013, four full-day public exhibitions were held in Aberdeen on the 16-17 and 23-24 September 2015 at Tesco, Wellington Road and Union Square respectively. Newspaper advertisements were placed in the Evening Express and the Press and Journal on 4 August 2015 (i.e. 6 weeks prior to the public exhibitions). In addition, radio adverts were broadcast on Northsound Radio from Saturday 12 September 2015 to Thursday 24 September 2015.

A newspaper advertisement will be placed in the Edinburgh Gazette and the Press and Journal on 6 November 2015, notifying members of the public that this marine licence application has been made, and informing them of how they can make a representation on the application.

In addition, the following four statutory consultees were notified of the pre-application consultation events:

- The Commissioners of Northern Lighthouses
- The Maritime and Coastguard Agency
- The Scottish Environment Protection Agency
- Scottish Natural Heritage

(b) Have the public been invited to submit comments?
If **YES**, to whom and by what closing date?

YES ☒ NO ☐

During the pre-application consultation, the newspaper advertisements described in response to 13a) above stated that all pre-consultation comments should be provided to Barton Willmore, acting as agent for Aberdeen Harbour Board, by 1 October 2015.

As described in response to 13a), a newspaper advertisement will be placed in the Edinburgh Gazette and the Press and Journal on 6 November 2015, notifying members of the public that this marine licence application has been made, and informing them of how they can make a representation on the application.

(c) Have any consultation meetings with the public been arranged?
If **YES**, where and when are these to be held?

YES ☒ NO ☐

As described in response to 13a) above, four full-day public exhibitions were held in Aberdeen on the 16-17 and 23-24 September 2015 at Tesco, Wellington Road and Union Square respectively.

A Pre-Application Consultation Report has been submitted with this application to capture the feedback from these events. This report has been produced to satisfy the requirements of The Marine Licensing (Pre-application Consultation) (Scotland) Regulations 2013, and also the requirements of the Planning Application in Principle application to Aberdeen City Council.

14. Consultation with Conservation Bodies

Provide details of any consultation that has taken place with Scottish Natural Heritage (SNH) and, if appropriate, include copies of any correspondence with your application.

SNH were a statutory consultee on the EIA Scoping Report produced in 2013 (see ES Appendices 1-D (Scoping Opinion 2014) and 1-E (Updated Scoping Report 2014)). SNH's comments at the scoping stage have been taken into account in the development of the ES.

Where applicable, the EIA consultants Fugro EMU and Waterman consulted with SNH on the scope of the baseline surveys and technical assessment methodologies for the ES. SNH were consulted on selected draft ES chapters and their feedback has been incorporated into the final ES.

SNH have attended recent regulator meetings with Aberdeen Harbour Board to discuss the ES and submission of the various consent applications.

15. Designated Conservation Areas

Are any parts of the proposed project located within the boundaries of a designated conservation area?

If yes, please indicate approximate distance of project from the boundary of the nearest conservation area(s)

The Nigg Bay SSSI is in the south west corner of the development.
The Balgask Cove Local Nature Conservation Site overlaps with the site.
See ES Chapter 10 (Nature Conservation) for full details.

16. Environmental Assessment

Has an Environmental Impact Assessment (EIA)/Environmental Statement (ES) been undertaken to support any application in respect of the project, your own statutory powers (if applicable) or any other reason?

YES ☒ NO ☐

If **YES**, is a copy of the EIA/ES included with this application?

YES ☒ NO ☐

If the EIA/ES has been undertaken but has not been included with this application, please provide an explanation below.

n/a

Is the EIA/ES available for public inspection?

YES ☒ NO ☐

If **YES**, at what locations:

A copy of the ES is on public display from 6 November 2015 for a period of 42 days (until 17 December 2015) at the following locations:

- Torry Library, Victoria Road, Aberdeen AB11 9NJ
- Aberdeen Maritime Museum, Aberdeen Maritime Museum, Shiprow, Aberdeen AB11 5BY

A copy is also available on Aberdeen Harbour Board's website: www.aberdeen-harbour.co.uk

Declaration

I declare to the best of my knowledge and belief that the information given in this form and related papers is true.

WARNING

It is an offence under the Act under which this application is made to fail to disclose information or to provide false or misleading information.

Signature



Date

4/11/15

Name in BLOCK LETTERS

KEITH D. YOUNG

Position within company
(if appropriate)

ENGINEERING DIRECTOR

Please check carefully the information you have given and that all the enclosures (including copies) have been included.

Application Check List

- Completed application form x 1
- Project drawings x 1
(or 7 paper copies if larger than A3 size and no electronic version is available)
- Method Statement x 1
- Maps/Charts x 1
- Additional environmental information, e.g. Photographs, Environmental Impact Assessment etc (if required) x 1
- Payment (if paying by cheque)

✓
✓
✓
✓
✓
n/a

Chapter 3
of ES

Aberdeen Harbour Expansion Project

Marine licence application: Marine Construction

Development Coordinates

All coordinates are provided in latitude and longitude. The coordinate points define the key boundaries of the various elements of the development. The detailed design is shown on the drawings submitted with the application.

North Breakwater

Identifier	Coordinates	
BWN1	57°08.256'N	02°02.955'W
BWN2	57°08.280'N	02°02.838'W
BWN3	57°07.896'N	02°02.838'W
BWN4	57°07.897'N	02°02.954'W
BWN5	57°08.256'N	02°02.955'W

South Breakwater

Identifier	Coordinates	
BWS1	57°07.980'N	02°02.487'W
BWS2	57°07.929'N	02°02.407'W
BWS3	57°07.699'N	02°02.918'W
BWS4	57°07.764'N	02°02.969'W
BWS5	57°07.980'N	02°02.487'W

Quays

Identifier	Coordinates	
Q1	57°08.152'N	02°02.984'W
Q2	57°07.930'N	02°02.984'W
Q3	57°07.929'N	02°03.157'W
Q4	57°07.919'N	02°03.157'W
Q5	57°07.907'N	02°03.068'W
Q6	57°07.919'N	02°02.924'W
Q7	57°08.263'N	02°02.925'W
Q8	57°08.192'N	02°03.154'W
Q9	57°08.192'N	02°03.302'W
Q10	57°08.124'N	02°03.550'W
Q11	57°07.947'N	02°03.550'W
Q12	57°07.947'N	02°03.519'W
Q13	57°08.110'N	02°03.519'W
Q14	57°08.152'N	02°02.984'W

Area to be dredged to 9.0 m below Chart Datum

Identifier	Coordinates	
9D1	57°08.147'N	02°03.038'W
9D2	57°07.947'N	02°03.519'W
9D3	57°07.888'N	02°03.422'W
9D4	57°07.842'N	02°03.352'W
9D5	57°07.787'N	02°02.944'W
9D6	57°07.810'N	02°02.845'W
9D7	57°07.844'N	02°02.762'W
9D8	57°07.913'N	02°02.867'W
9D9	57°07.926'N	02°03.037'W
9D10	57°08.110'N	02°03.519'W
9D11	57°08.147'N	02°03.038'W

Area to be dredged to 10.5 m below Chart Datum

Identifier	Coordinates	
10.5D1	57°08.152'N	02°02.984'W
10.5D2	57°08.147'N	02°03.038'W
10.5D3	57°07.930'N	02°03.038'W
10.5D4	57°07.913'N	02°02.867'W
10.5D5	57°07.844'N	02°02.763'W
10.5D6	57°08.015'N	02°02.383'W
10.5D7	57°08.145'N	02°02.351'W
10.5D8	57°07.946'N	02°02.855'W
10.5D9	57°07.930'N	02°02.984'W
10.5D10	57°08.152'N	02°02.984'W

Aberdeen Harbour Expansion Project

Marine licence application: Marine Construction

Drawings

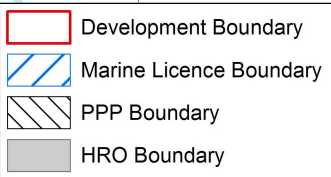
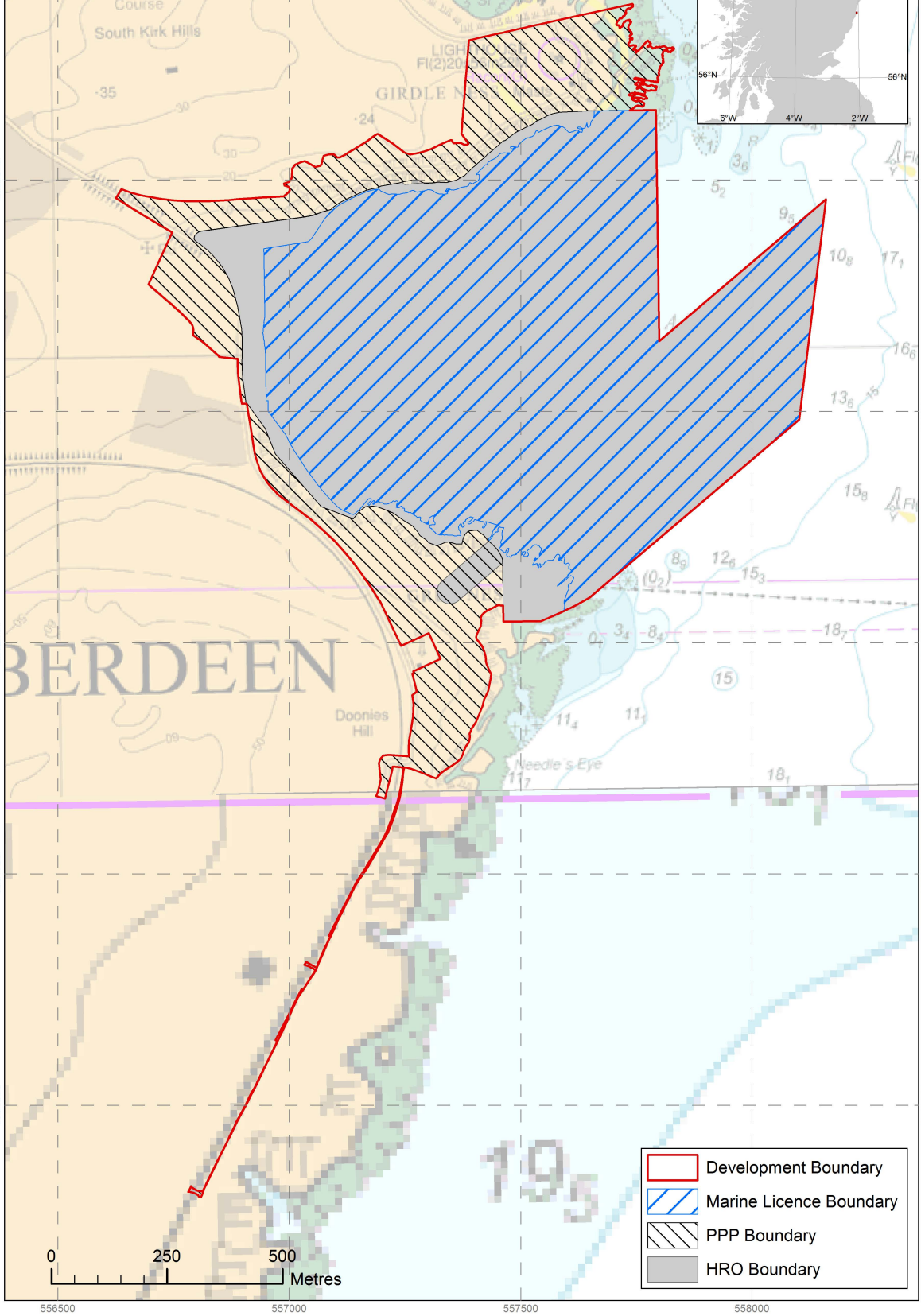
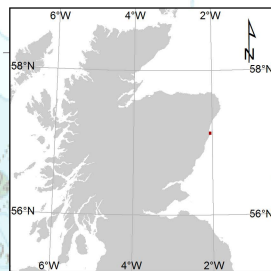
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02.Boundaries_Q2582
03.Layout_and_development_boundary_Q2582
04.Layout_2015001 - 002 - B
05.Areas_to_be_dredged_121106-1013(-)
06.Areas_of_rock_dredging_121106-1014(-)
07.Offshore_disposal_site_121106-1010(-)
08.South_west_corner_121106-1011(A)
09.Cross_section_north_breakwater_DKR5379_100_D101_4
10.Cross_section_south_breakwater_DKR5379_100_D201_3
11.Cross_section_North_Quay_121106-2702(A)
12.Cross_section_North_Quay_open_121106-2706(-)
13.Cross_section_East_Quay_121106-2703(A)
14.Cross_section_West_Quay_121106-2701(A)



Drawing 02.Boundaries_Q2582

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Original application November 2015: withdrawn



557000

557500

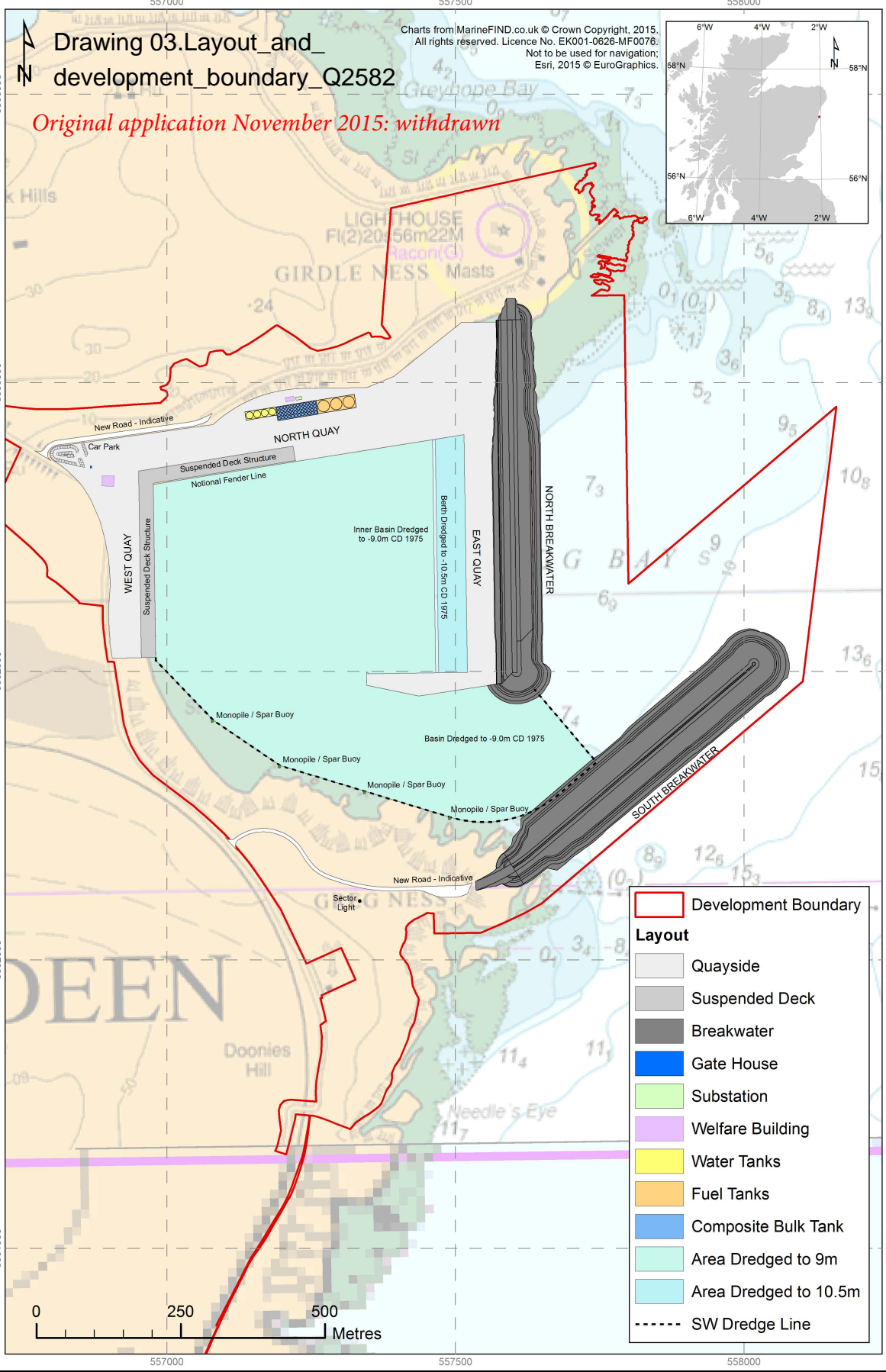
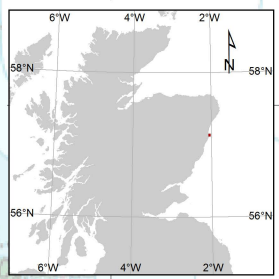
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Drawing 03.Layout_and_development_boundary_Q2582

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Original application November 2015: withdrawn



Development Boundary

Layout

Quayside

Suspended Deck

Breakwater

Gate House

Substation

Welfare Building

Water Tanks

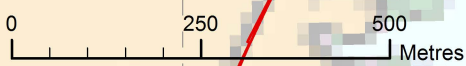
Fuel Tanks

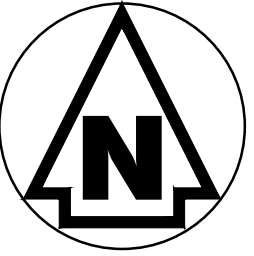
Composite Bulk Tank

Area Dredged to 9m

Area Dredged to 10.5m

SW Dredge Line

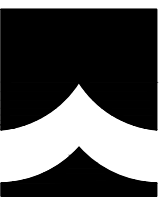




DRAWING REFERENCES:	
COMPANY:	DRAWING NUMBER:
ABERDEEN HARBOUR BOARD	2015001-002A
ARCH HENDERSON	121106-2502A
HR WALLINGFORD	DKR5379/100/D010 REV04
FAIRHURST	100011-1909F



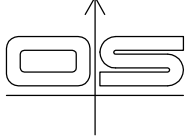
B	15/10/15	Slope arrangement at south end of West Quay updated as per Arch Henderson drawing	S.B.
		number 121106 - 2502A. Harbour Revision Order limit added to entrance channel.	
A	09/09/15	External Boundary Amended. Channel Dredge Limits Amended to suit HRW drawing	
		Fairhurst drawing updated.	S.B.
Rev:	Date:	Revision:	By:

**Aberdeen Harbour**

Aberdeen Harbour Board
16 Regent Quay
Aberdeen AB11 5SS
t: 01224 597000
f: 01224 571507
www.aberdeen-harbour.co.uk

Title: Aberdeen Harbour Expansion Project
Overall Layout 6

Date:	29/05/2015	Designed by:	S. Buchan	Drawing Number:	2015001-002-B
Scales:	1:2500 (A1)	Drawn by:	J. Wilson		
		Checked by:	K. Young		



SCALE - 1:2000 (A1)



1. ALL LEVELS ARE GIVEN IN METRES ABOVE ADMIRALTY CHART DATUM (mC.D).
2. CO-ORDINATES ARE TO ORDNANCE SURVEY GRID (O.S.G.B.1936)

CONSTRUCTION PHASE DREDGING

- SIDE SLOPES ARE ILLUSTRATIVE AND THEY SHALL BE DESIGNED AND PROFILED BY THE CONTRACTOR FOR BOTH THE TEMPORARY AND PERMANENT CONDITION.

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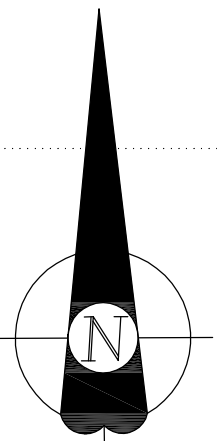
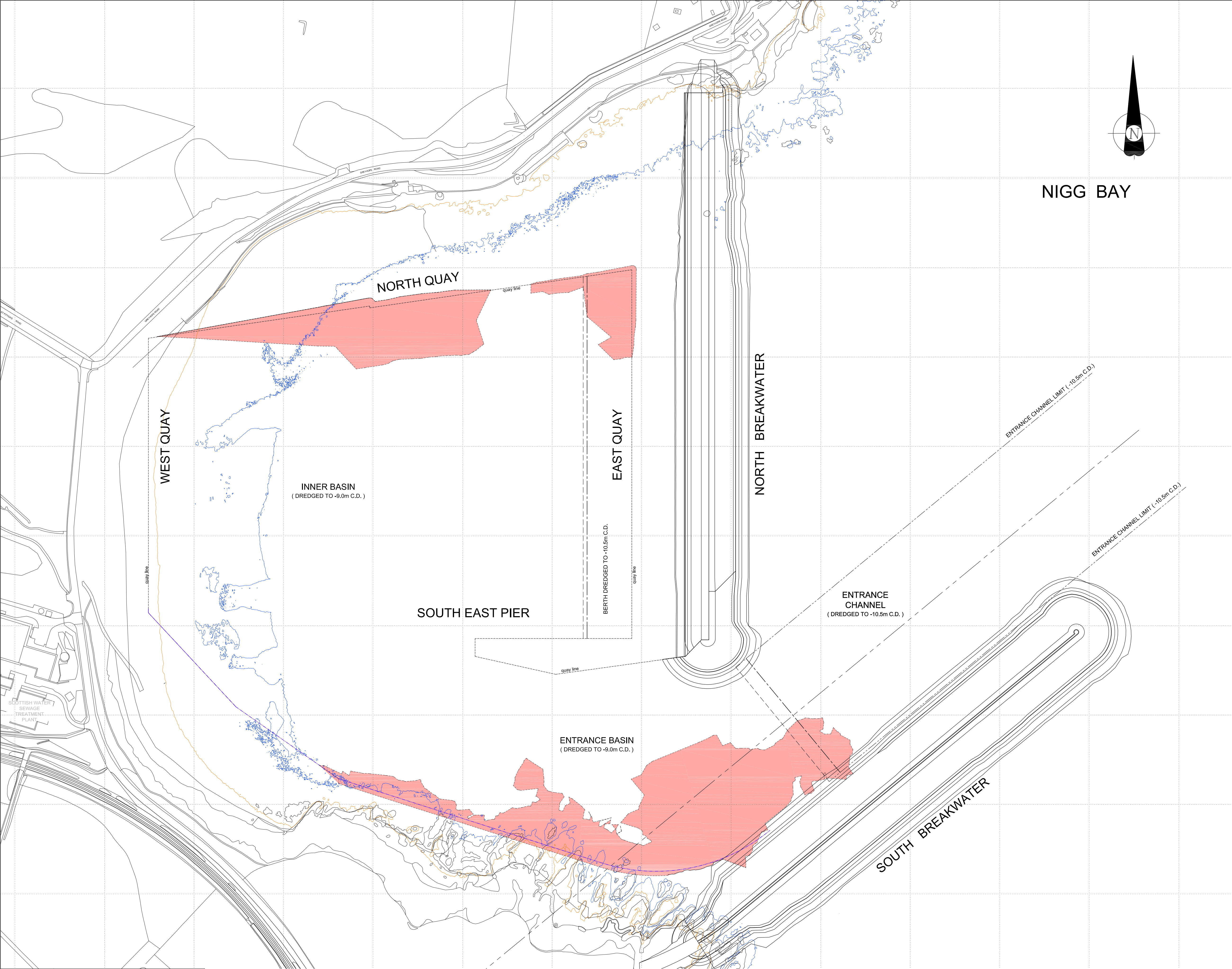
Offices in : Aberdeen, Dundee, Falkland Islands, Glasgow, Lerwick, Stromness and Thurso

PROJECT :

TITLE :
DREDGING WORKS - EIA REPORT
GENERAL ARRANGEMENT PLAN

SCALE : (A1)	DRAWING STATUS :
1:2000	INFORMATION

DRAWING No :	121106 - 1013	REV :	-
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NIGG BAY

NOTES...:-

1. ALL LEVELS ARE GIVEN IN METRES ABOVE ADMIRALTY CHART DATUM (mC.D).
2. CO-ORDINATES ARE TO ORDNANCE SURVEY GRID (O.S.G.B.1936)

DRAWING LEGEND...:-

- AREA OF ROCK REMOVAL
- M.H.W.S MEAN HIGH WATER TIDE LIMIT
- M.L.W.S MEAN LOW WATER TIDE LIMIT

REV	DATE	REVISION	DRN	CHK
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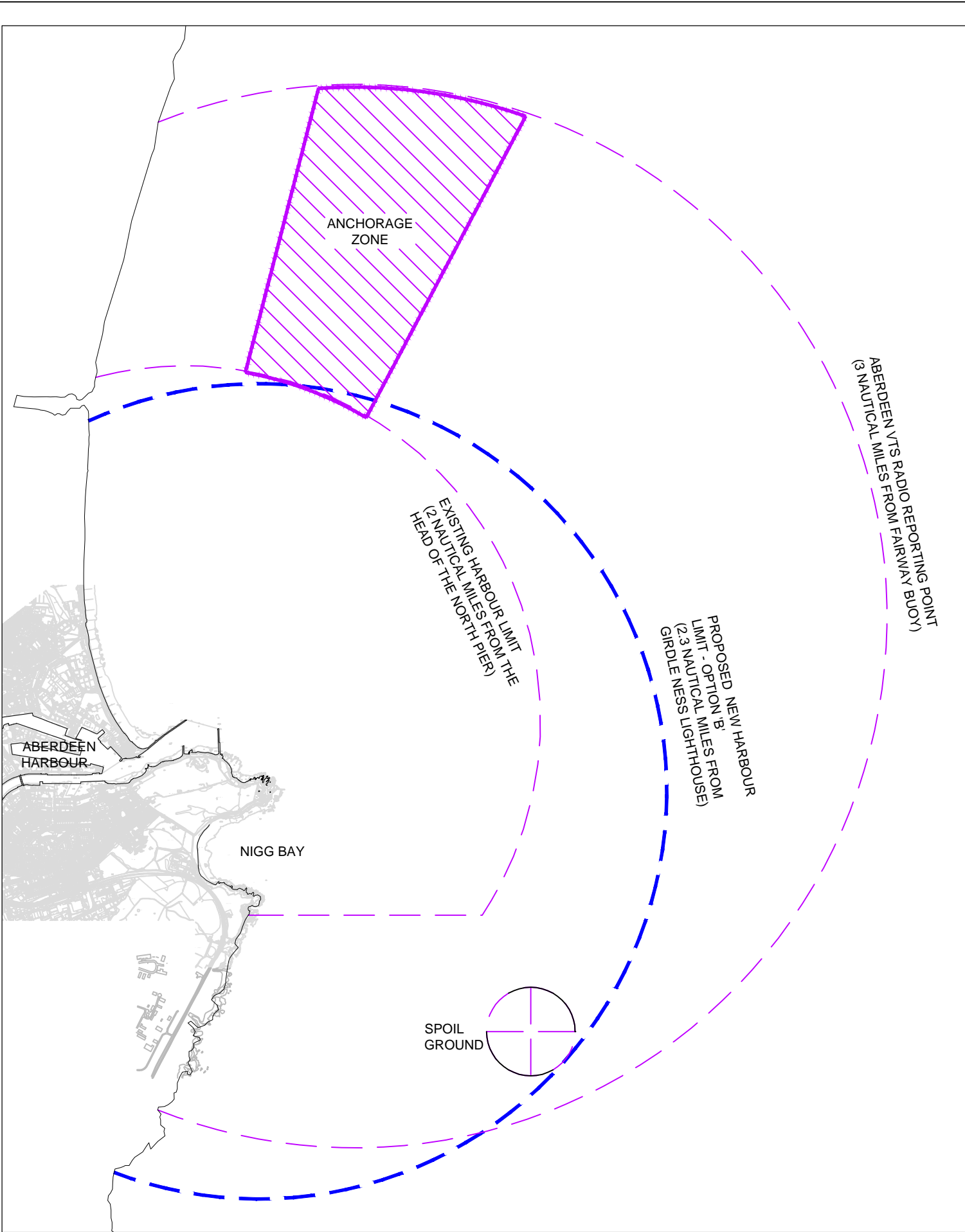
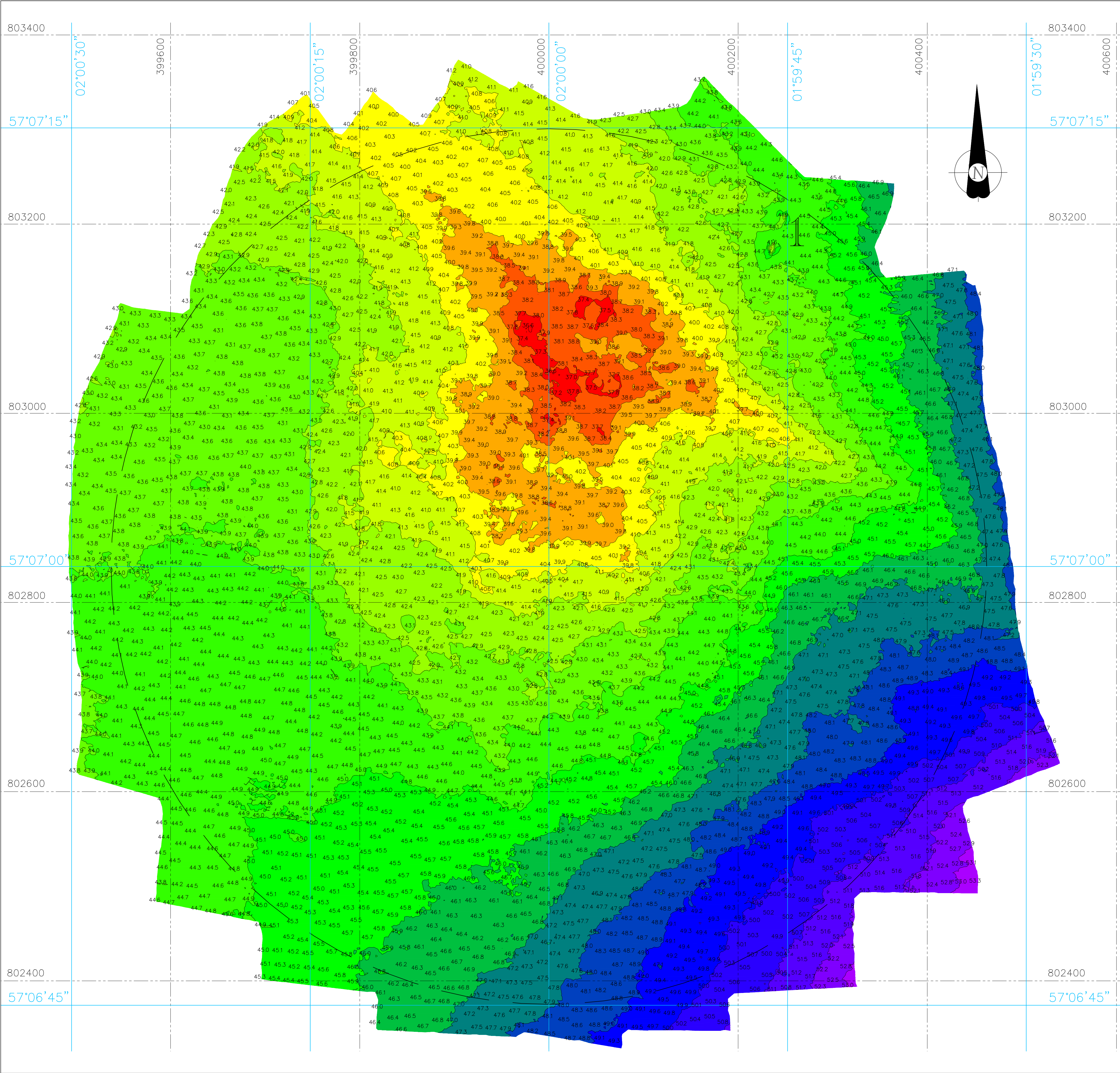
PROJECT :
ABERDEEN HARBOUR BOARD
Aberdeen Harbour Expansion Project

TITLE :
DREDGING WORKS - EIA REPORT
INDICATIVE AREAS OF ROCK DREDGING

DRAWN : K.M.	DATE : 16-10-15	CHECKED : I.T.	DATE : 16-10-15
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SCALE : (A1) 1:2000	DRAWING STATUS : INFORMATION
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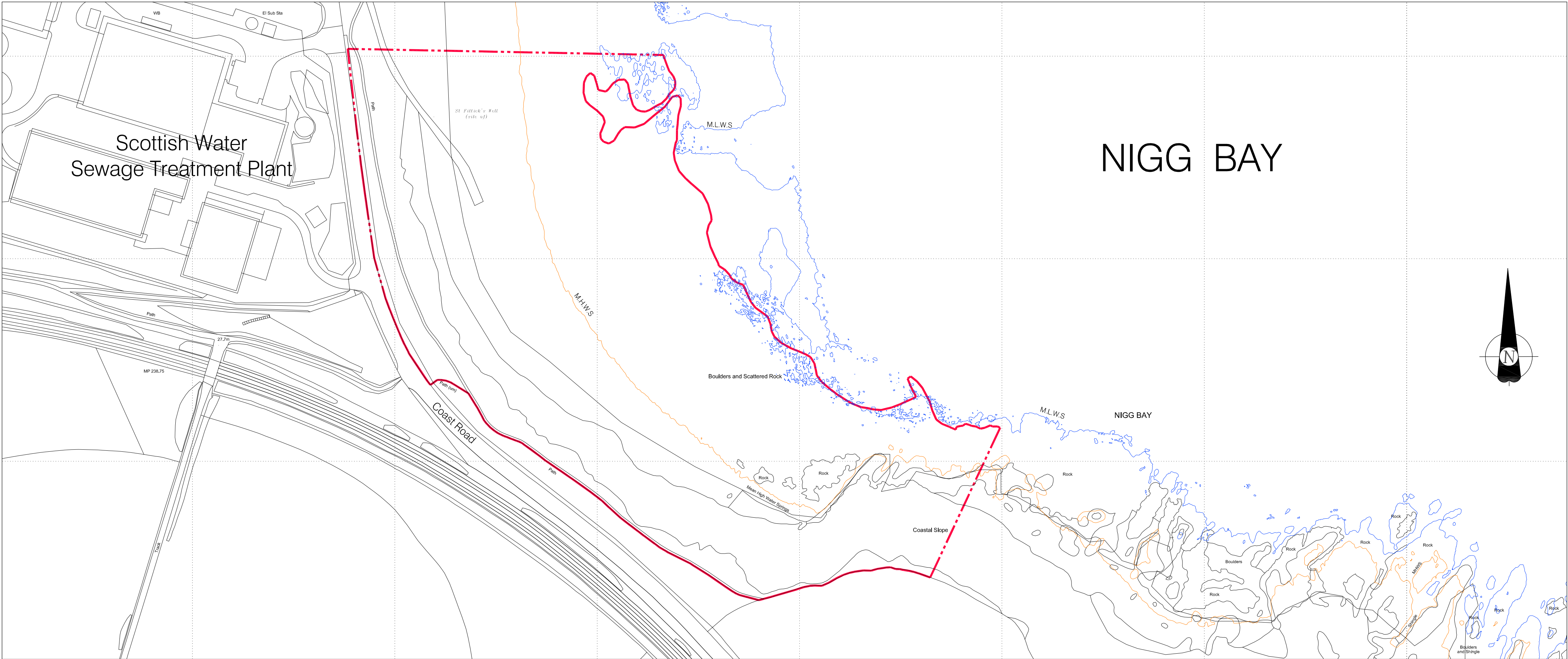
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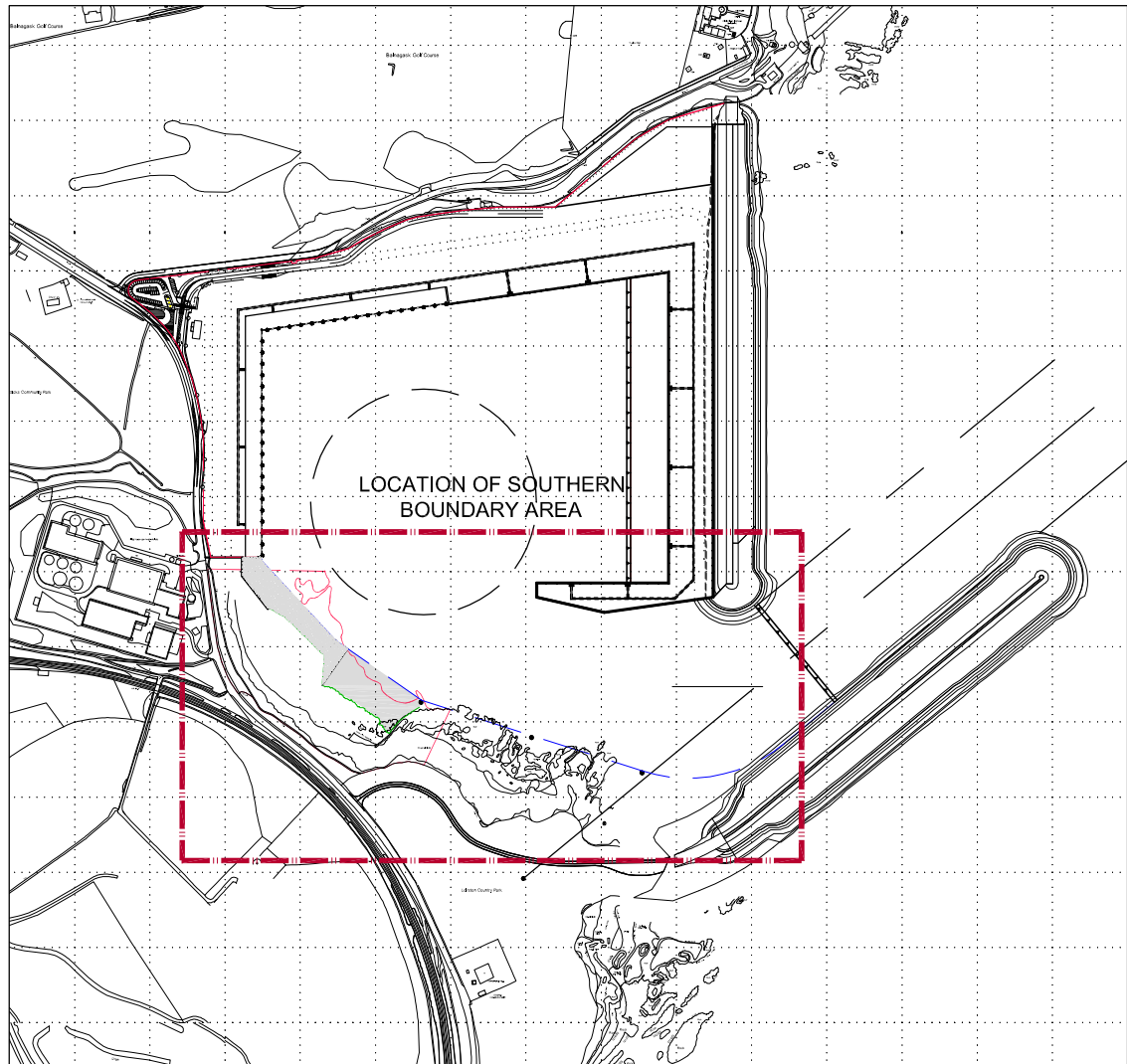
LOCATION PLAN
(SCALE 1:50,000)

- Notes
- Spoil ground Centre co-ordinate = 400000,802838 (57° 07' N, 02° 00' W)
 - Spoil ground dimension = 0.25 Nautical Miles radius (462.8 Metres)
 - Survey carried out using Reson 7125sv Multibeam Echo Sounder, Applanix PosMV Positioning System and Hypack Data Acquisition and Post Processing Software.
 - Co-ordinates are to Ordnance Survey Grid (O.S.G.B. 1936)
 - All soundings are reduced to Admiralty Chart Datum 1975 in Metres
 - Tidal corrections are from the Aberdeen Harbour tide gauge
 - Obstruction 1 = 3.6 Metre projection from the seabed over a length of approx. 13 and 6M Metres (Wreck)
 - [Drawing Reference...](#)
- CH12-006-SG - Spoil ground Bathymetric Survey (29-11-12)
Post Capital Dredge of Channel
(Aberdeen Harbour Board)

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PROJECT : ABERDEEN HARBOUR BOARD Aberdeen Harbour Expansion : Nigg Bay.				
TITLE : Aberdeen Harbour Board - Spoil Ground Bathymetric Survey. Date : 12-11-29				
DRAWN : K.M	DATE : 13-05-15	CHECKED : G.W.A.	DATE : 07/08/14	
SCALE : (A1) 1:50000, 1:2500		DRAWING STATUS : INFORMATION		
DRAWING No : 121106 - 1010			REV : -	



SOUTH WEST BOUNDARY AREA - EXISTING TIDE LIMITS
(SCALE 1:1250)



LOCATION PLAN
(SCALE 1:10000)

DRAWING LEGEND:-	
M.H.W.S	MEAN HIGH WATER TIDE LIMIT
M.L.W.S	MEAN LOW WATER TIDE LIMIT
	SITE OF SPECIAL SCIENTIFIC INTEREST

- NOTES:-
- ALL CONTOURS ARE IN METRES ABOVE CHART DATUM.
 - ALL COORDINATES ARE RELATIVE TO NATIONAL GRID REFERENCES (OSGB36).

Heights in metres above Chart Datum (Aberdeen)			
M.H.W.S	M.H.W.N	M.L.W.N	M.L.W.S
4.3	3.4	1.6	0.6

A	5-10-15	FUTURE TIDE LIMITS UPDATED	K.M.	G.W.A.
REV	DATE	REVISION	DRN	CHK

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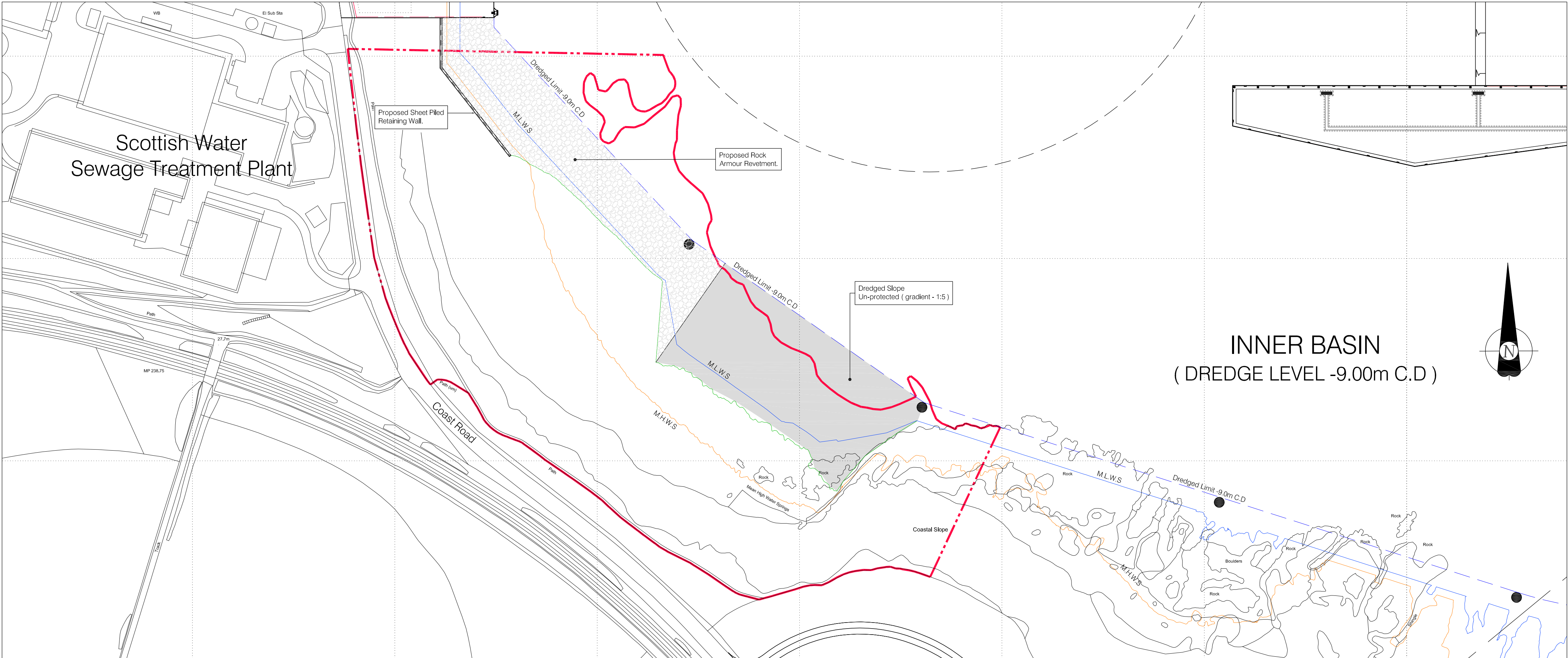
PROJECT :
ABERDEEN HARBOUR BOARD
Aberdeen Harbour Expansion Project

TITLE :
SOUTH WEST BOUNDARY AREA
EXISTING AND FUTURE TIDE LIMITS

DRAWN : K.M	DATE : 29-09-2015	CHECKED : T.Y.	DATE : 30-09-2015
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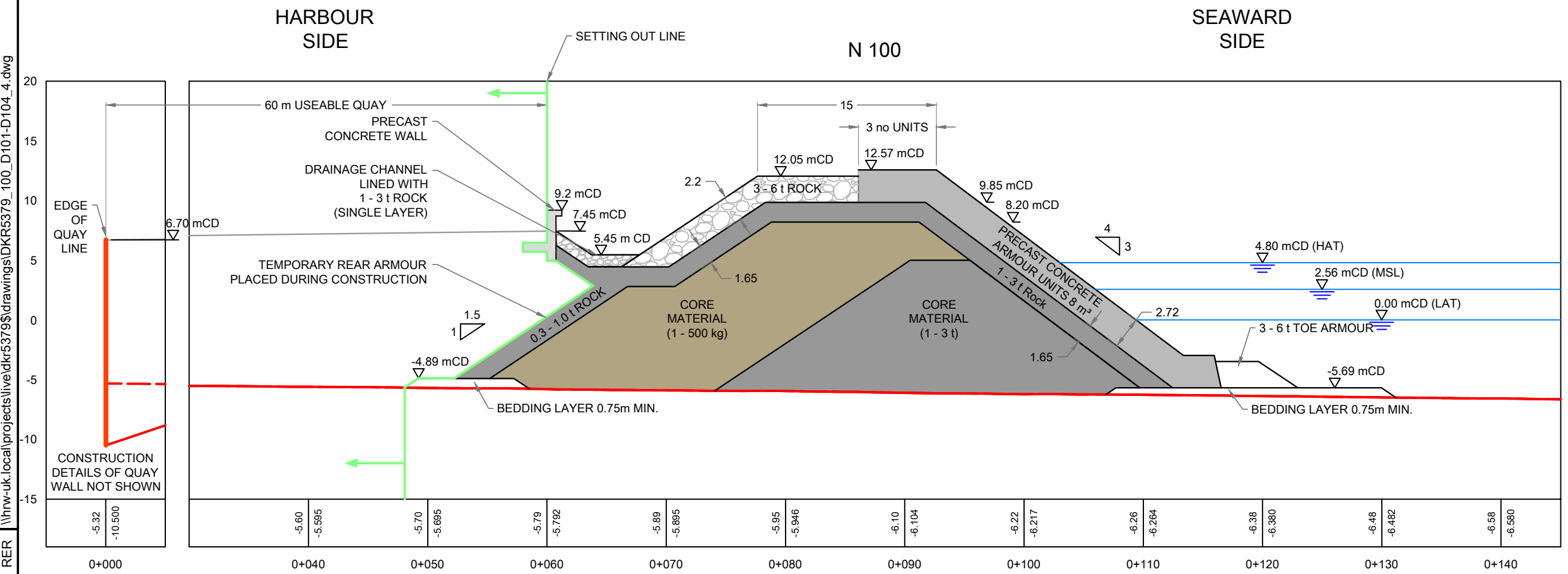
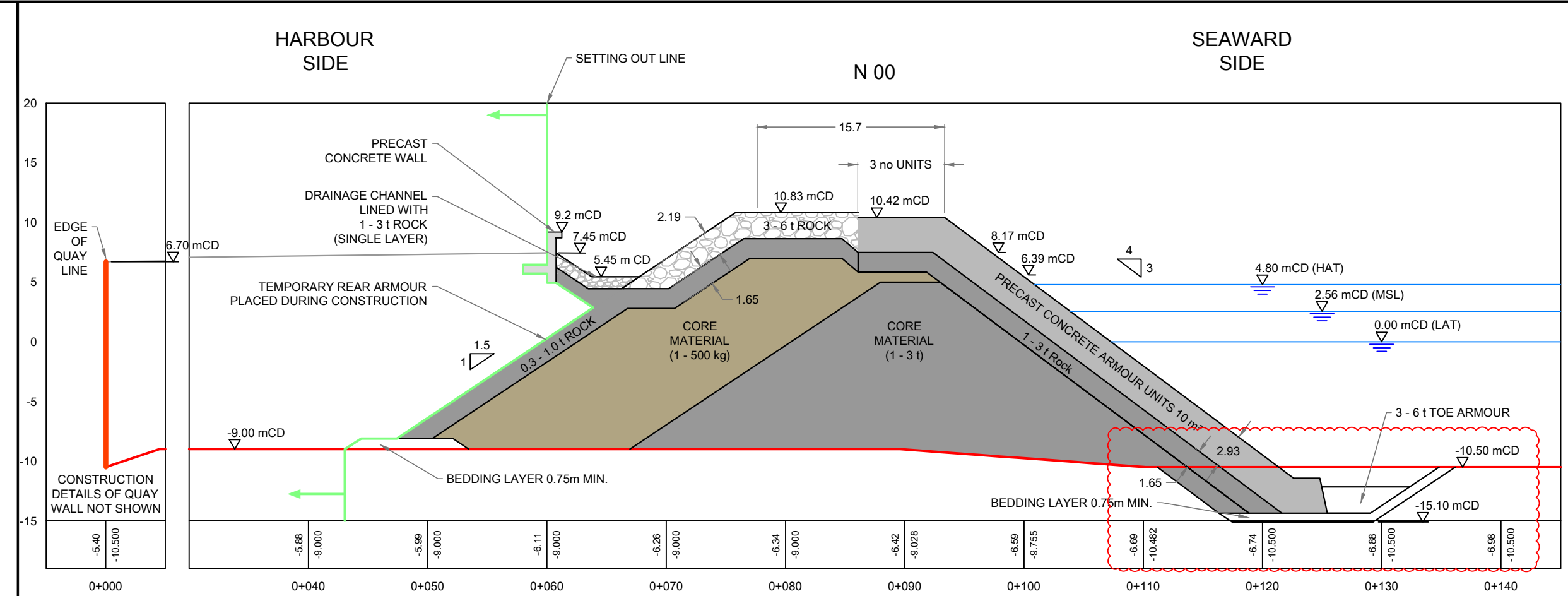
SCALE : (A1) 1:1250, 1:10000	DRAWING STATUS : INFORMATION
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DRAWING No : 121106 - 1011	REV : A
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SOUTH WEST BOUNDARY AREA - FUTURE TIDE LIMITS
(SCALE 1:1250)

INNER BASIN
(DREDGE LEVEL -9.00m C.D)



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- FOR PLAN REFER TO DRAWING: 'DKR5379/100/D010'

04	DREDGING REVISED PENDING REVIEW	RER	AUO	ICC	15 OCT 15
03	REAR DETAIL REVISED	RER	JJH	ICC	05 JUN 15
02	ISSUED FOR PHYS MODEL	RER	JJH	ICC	14 APR 15
01	UNIT SIZES REVISED	RER	AUO	ICC	07 APR 15
00	DRAFT	RER	AUO	ICC	20 MAR 15
REV	DRAWING STATUS	DRN.	APPR.	AUTH.	DATE

Aberdeen Harbour

Arch Henderson 1919

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Oxfordshire OX10 8BA
United Kingdom
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Fax: +44(0)1491 832233
www.hrwallingford.com

PROJECT:

ABERDEEN HARBOUR EXPANSION PROJECT

DRAWING TITLE:

NORTHERN BREAKWATER SECTIONS N00 & N100

SCALE: 1:400

SHEET SIZE: A3

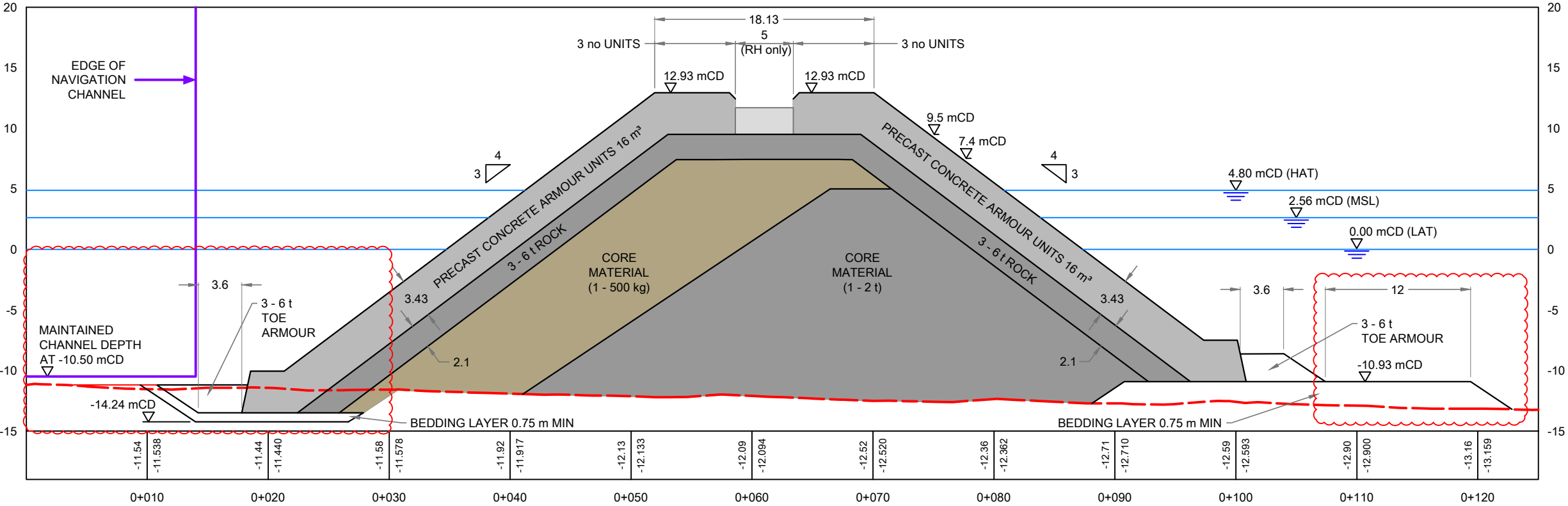
DRAWING No: DKR5379/100/D101

REV: 04

NORTH/HARBOUR
SIDE

SOUTH
SIDE

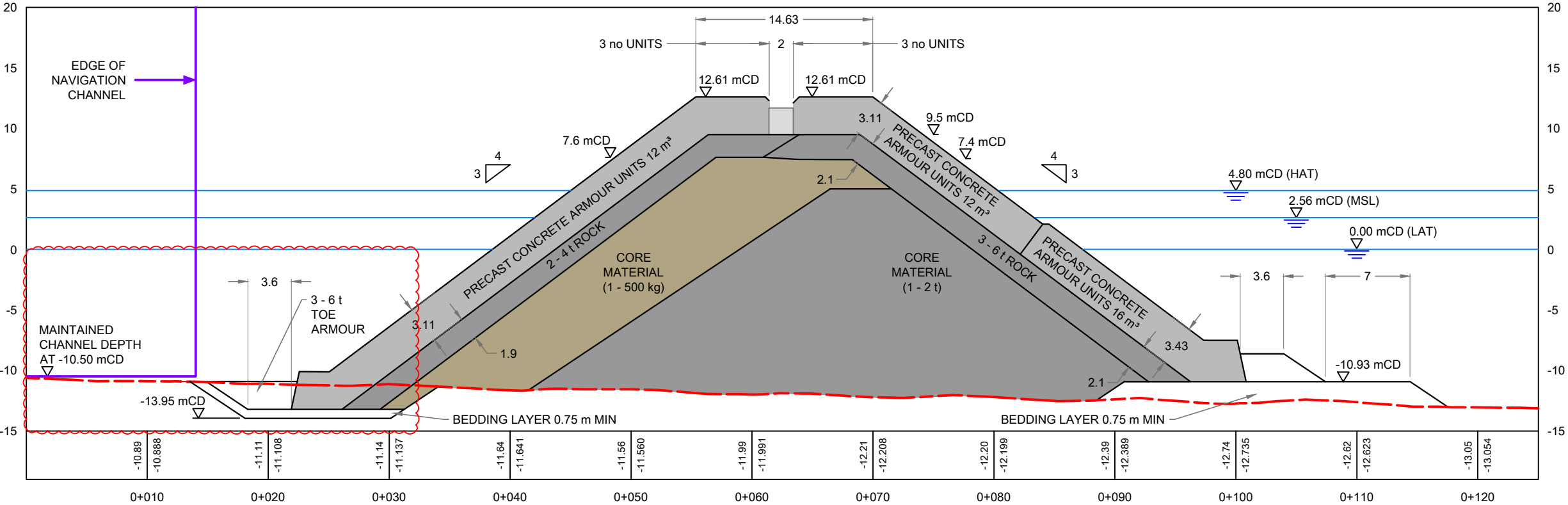
S 00



NORTH/HARBOUR
SIDE

SOUTH
SIDE

S 100



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03	DREDGING REVISED PENDING REVIEW	RER	AUO	ICC	15 OCT 15
02	ISSUED FOR PHYS MODEL	RER	JJH	ICC	14 APR 15
01	UNIT SIZES REVISED	RER	AUO	ICC	08 APR 15
00	DRAFT	RER	AUO	ICC	20 MAR 15
REV	DRAWING STATUS	DRN.	APPR.	AUTH.	DATE

Aberdeen Harbour

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Oxfordshire OX10 8BA
United Kingdom
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Fax: +44(0)1491 832233

PROJECT:

**ABERDEEN HARBOUR
EXPANSION PROJECT**

DRAWING TITLE:

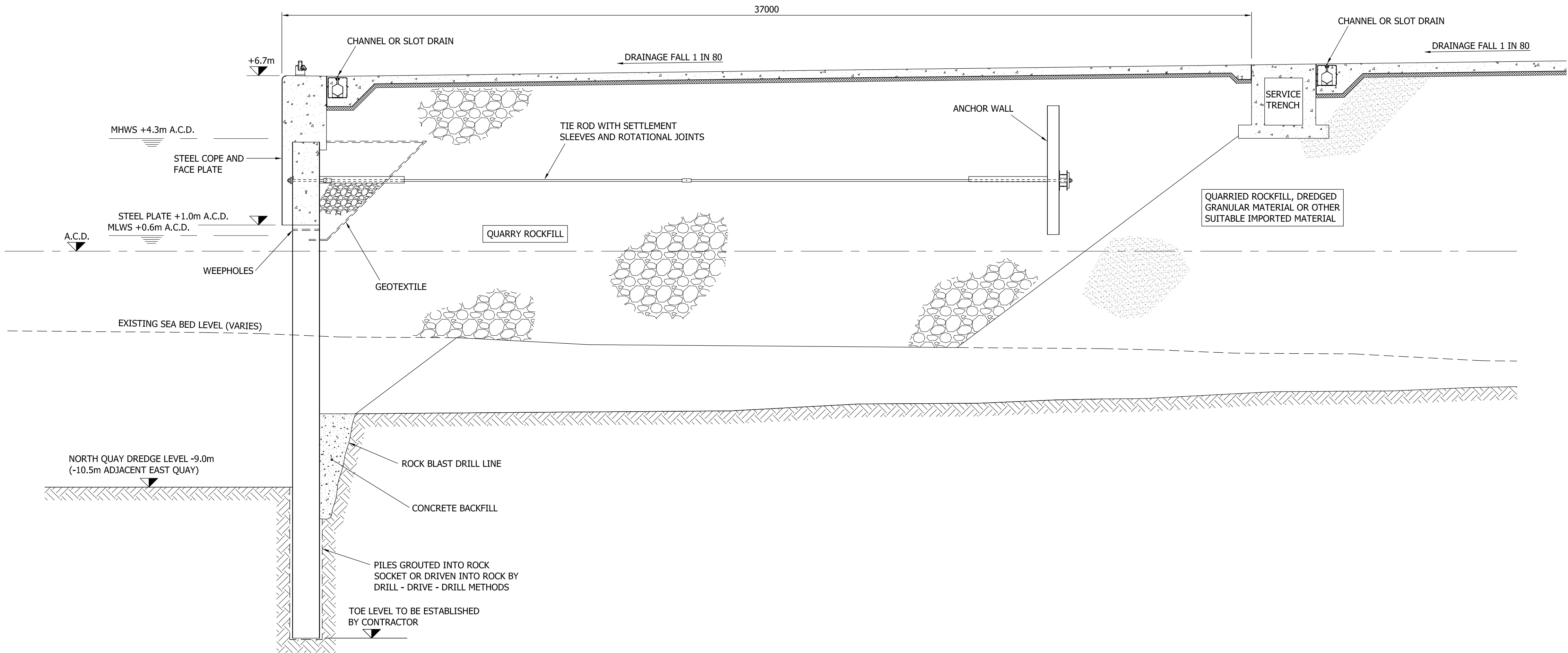
**SOUTHERN BREAKWATER SECTIONS
S00 & S100**

SCALE:
1:400

SHEET SIZE:
A3

DRAWING No:
DKR5379/100/D201

REV:
03



SECTION THROUGH NORTH QUAY
(SCALE:- 1:100)

A	1-10-15	GENERAL AMENDMENTS	MJ.	
REV	DATE	REVISION	DRN	CHK

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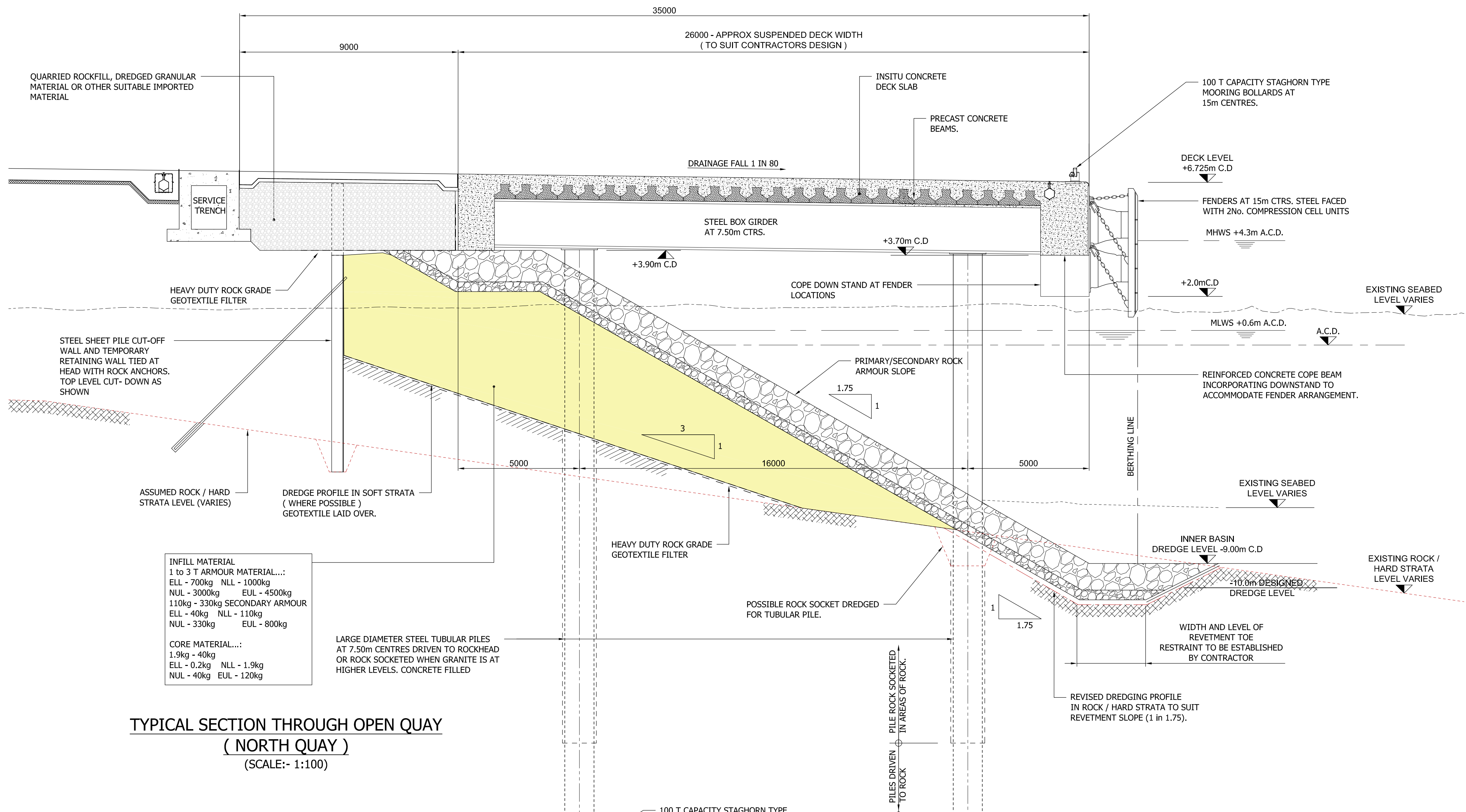
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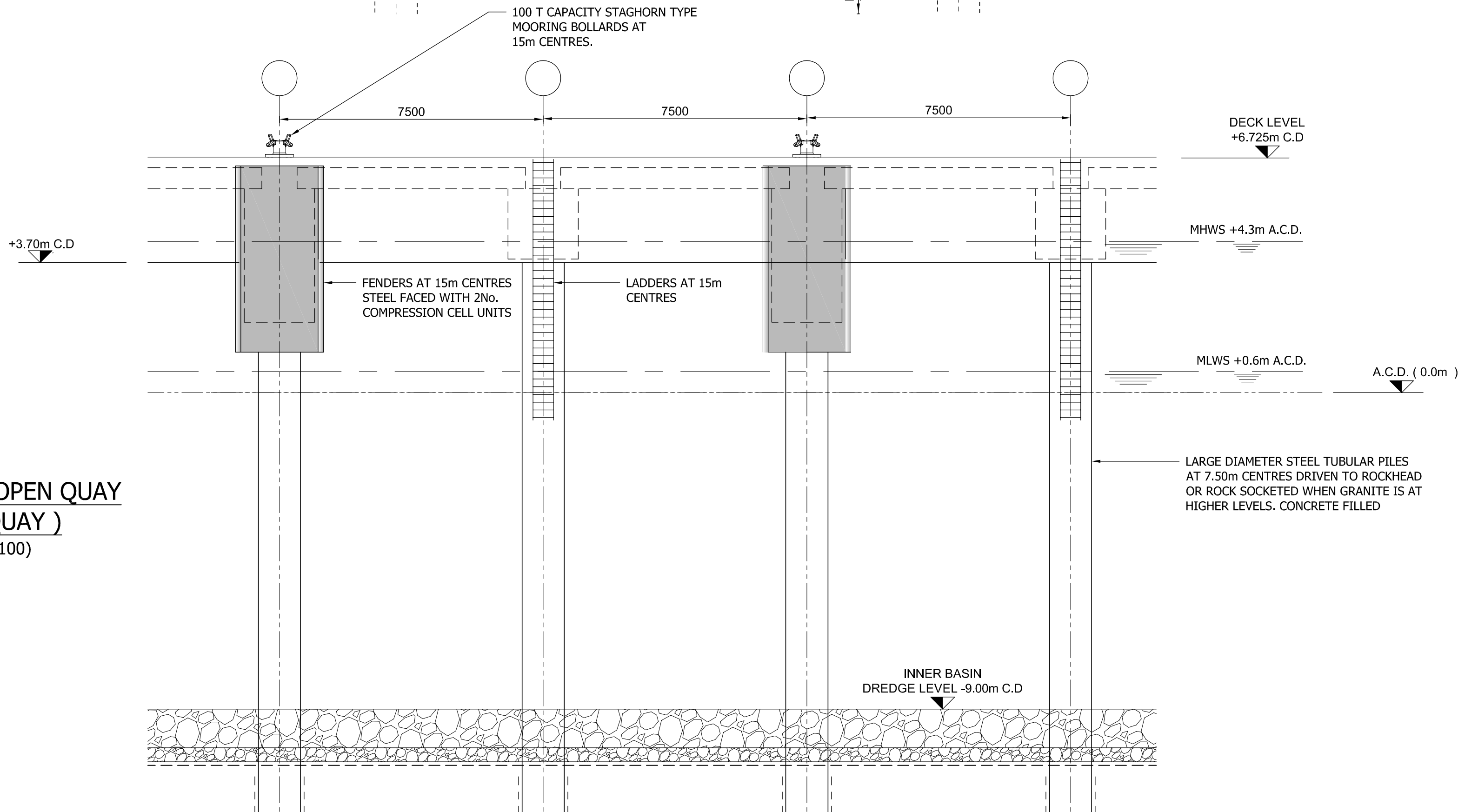
PROJECT :
ABERDEEN HARBOUR BOARD
Aberdeen Harbour Expansion Project

TITLE :
TYPICAL SECTION THROUGH NORTH QUAY

DRAWN : TAP/MJ.	DATE : 27-7-15	CHECKED :	DATE :
SCALE : (A1) AS SHOWN	DRAWING STATUS : INFORMATION		
DRAWING No : 121106 - 2702			REV : A

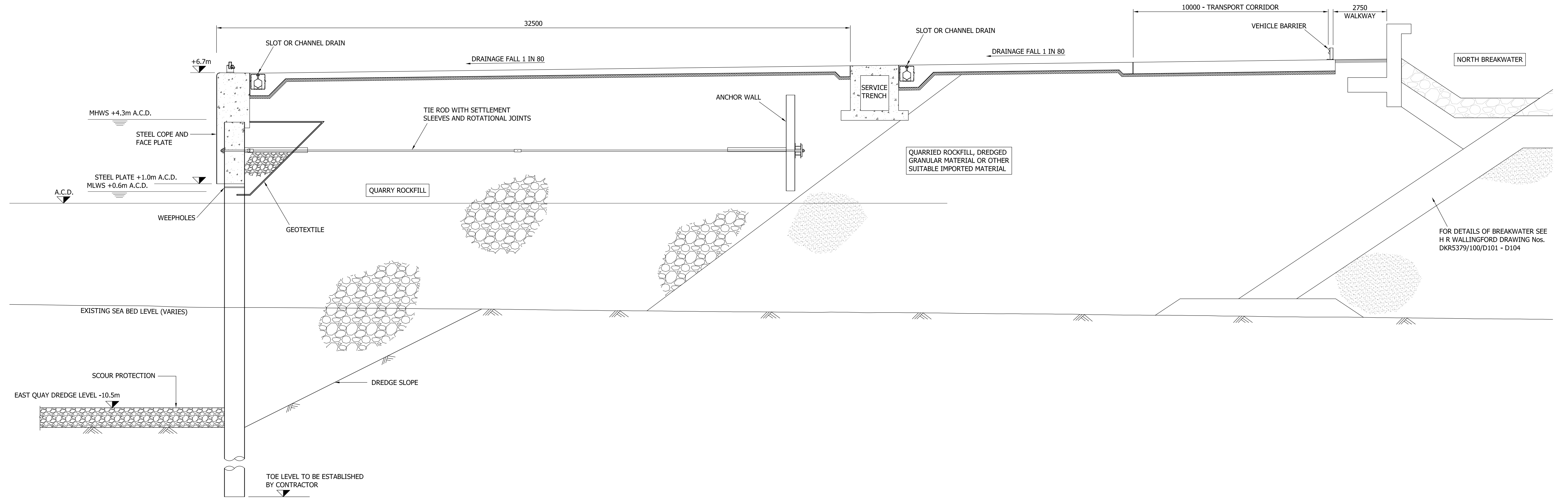


TYPICAL SECTION THROUGH OPEN QUAY
(NORTH QUAY)
(SCALE:- 1:100)



ELEVATION ON OPEN QUAY
(NORTH QUAY)
(SCALE:- 1:100)

REV	DATE	REVISION	DRN	CHK
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PROJECT : ABERDEEN HARBOUR BOARD Aberdeen Harbour Expansion Project				
TITLE : TYPICAL CROSS SECTION AND ELEVATION ON OPEN QUAY - NORTH QUAY				
DRAWN : KWM	DATE : 12/12/13	CHECKED : R.D.S	DATE : 12/12/13	
SCALE : (A1) 1:100			DRAWING STATUS : INFORMATION	
DRAWING No : 121106 - 2706			REV : -	



SECTION THROUGH EAST QUAY
(SCALE:- 1:100)

A	2-10-15	GENERAL AMENDMENTS	MJ.	
REV	DATE	REVISION	DRN	CHK

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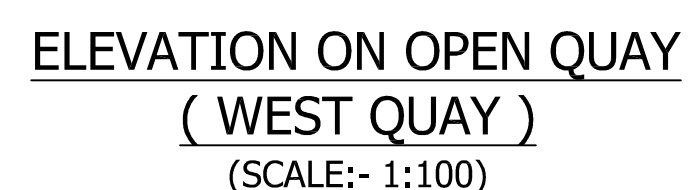
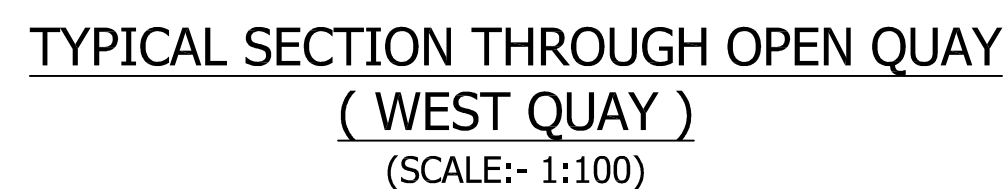
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Geotechnical services
Environmental services

PROJECT :
ABERDEEN HARBOUR BOARD
Aberdeen Harbour Expansion Project

TITLE :
TYPICAL SECTIONS THROUGH EAST QUAY

DRAWN : TAP/MJ.	DATE : 24-7-15	CHECKED :	DATE :
SCALE : (A1) AS SHOWN	DRAWING STATUS : INFORMATION		
DRAWING No : 121106 - 2703	REV : A		

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PROJECT :
ABERDEEN HARBOUR BOARD
Aberdeen Harbour Expansion Project

TITLE :
TYPICAL CROSS SECTION AND ELEVATION
ON OPEN QUAY - WEST QUAY

SCALE : (A1)	DRAWING STATUS :
1:100	INFORMATION

DRAWING No: 121106 - 2701 REV: A