



26 February

David Todd

North Queensland Bulk Ports Corporation
PO Box 3340
NORTH MACKAY QLD 4740

Email: dtodd@nqbp.com.au

Dear David,

DEVELOPMENT APPROVAL PACKAGE FOR OPERATIONAL WORKS BEING TIDAL WORKS ON LAND DESCRIBED AS 63 ON SP143358 AND LOT 64 ON SP118293, AT THE PORT OF MACKAY

NQBP Reference: PL/04/02/00005

North Queensland Bulk Ports Corporation Ltd (NQBP) wish to advise that your development application seeking approval for tidal works within a coastal management district, being a retrospective approval for upgrade works to an existing breakwater at the Port of Mackay was approved in full subject to conditions on 26 February 2018.

Approvals has been given with respect to tidal works assessable under Schedule 10, Part 17, Division 1, Section 28 (1)(a) under the *Planning Act 2016* and Port Development Approval under the Port of Mackay Land Use Plan (November 2009).

You are strongly advised to read and familiarise yourself with each of the enclosures applicable to this approvals package. If you have any queries regarding the approvals package, please contact the undersigned.

Yours sincerely

Julie Keane
Principal, Development Approvals

Telephone: (07) 3011 7912
Email: JKeane@nqbp.com.au
Doc Reference: E18/04149

Enc: Decision notice issued under to s 63 of the *Planning Act 2016*
Port development approval issued under the Port of Mackay Land Use Plan (November 2009).
Approved drawings

Cc: Referral agencies – Department of State Development, Manufacturing, Infrastructure and Planning
Local government – Mackay Regional Council

BRISBANE OFFICE
GPO Box 409 Brisbane
Queensland 4001

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nqbp.com.au info@nqbp.com.au

MACKAY OFFICE
Level 1 Waterfront Place
Mulherin Drive Mackay Harbour
Queensland 4740

P 07 4969 0700 F 07 4969 0799
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Level 1, Waterfront Place, Mulherin Drive Mackay Harbour Queensland is the Registered Office of:

NORTH QUEENSLAND BULK PORTS CORPORATION LIMITED

ACN 136 880 218 • ABN 36 136 880 218

PORTS CORPORATION OF QUEENSLAND LIMITED

ACN 126 302 994 • ABN 49 657 447 879

MACKAY PORTS LIMITED

ACN 131 965 707 • ABN 69 131 965 707

Decision Notice

Planning Act 2016 s.63

1. Details of approval

<i>Applicant name:</i>	North Queensland Bulk Ports Corporation
<i>Approved development:</i>	Tidal works assessable under Schedule 10, Part 17, Division 1, Section 28 (1)(a), being retrospective approval of upgrade to existing breakwater
<i>Date of decision</i>	26 February 2018
<i>Aspect of development:</i>	<input type="checkbox"/> Material change of use <input type="checkbox"/> Reconfiguring a lot <input checked="" type="checkbox"/> Operational work <input type="checkbox"/> Building work
<i>Decision:</i>	<input type="checkbox"/> Preliminary approval only (with conditions) <input type="checkbox"/> Part approval only (with conditions) <input type="checkbox"/> Part approval only (without conditions) <input checked="" type="checkbox"/> Approval (with conditions)

2. Property description of proposed development

<i>Port:</i>	MACKAY
<i>Street address:</i>	Breakwater Access Road, Mackay Harbour
<i>Real property description:</i>	Lot 63 on SP143358 and Lot 64 on SP118293
<i>Local government area:</i>	Mackay Regional Council

3. Approved drawings and documents

The following drawings and documents have been approved. Copies of approved drawings are provided in an enclosure.

<i>Drawing</i>	<i>Number</i>	<i>Date / revision</i>
Mackay Southern Breakwater Upgrade Work – General Arrangement	698873-DRG-001	06/12/2017
Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 1	698873-DRG-005	06/12/2017
Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 2	698873-DRG-006	06/12/2017
Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 3	698873-DRG-007	06/12/2017

4. Referral agency response

The development application was referred to the Department of State Development, Manufacturing, Industry and Planning under the following provisions of the Planning Regulation 2017:

- 10.17.3.2.1 Tidal works or work in a coastal management district
- 10.17.3.1.1 Tidal works or work in a coastal management district

A referral agency response (1712-3175 SRA) has been received from the Department of State Development, Manufacturing, Industry and Planning and is attached to this decision notice.

5. Properly made submissions

Not applicable—no part of the application required public notification.

6. Currency period for the approval

This development approval will lapse at the end of the period set out in section 85 of *Planning Act 2016*.

7. Waiver of representations

The applicant has waived their rights, by written correspondence dated 22 February 2018, to make representations to the Department of State Development, Manufacturing, Industry and Planning under Section 30 of the Development Assessment Rules.

8. Rights of appeal

The rights of applicants to appeal to a tribunal or the Planning and Environment Court against decisions about a development application are set out in chapter 6, part 1 of the *Planning Act 2016*. For particular applications, there may also be a right to make an application for a declaration by a tribunal (see chapter 6, part 2 of the *Planning Act 2016*).

A copy of the relevant appeal provisions is attached.

Further information may be obtained from the Planning and Environment Court website:

<http://www.courts.qld.gov.au/courts/planning-and-environment-court>

Attachment 1

ASSESSMENT MANAGER CONDITIONS

Condition		Timing															
Carry out the approved development																	
<p>1. The development must be undertaken generally in accordance the plans and supporting documentation reference in the table below and attached which forms part of this approval, unless otherwise specified by any condition of this approval.</p> <table border="1"> <thead> <tr> <th><i>Drawing</i></th> <th><i>Number</i></th> <th><i>Date / revision</i></th> </tr> </thead> <tbody> <tr> <td>Mackay Southern Breakwater Upgrade Work – General Arrangement</td> <td>698873-DRG-001</td> <td>06/12/2017</td> </tr> <tr> <td>Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 1</td> <td>698873-DRG-005</td> <td>06/12/2017</td> </tr> <tr> <td>Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 2</td> <td>698873-DRG-006</td> <td>06/12/2017</td> </tr> <tr> <td>Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 3</td> <td>698873-DRG-007</td> <td>06/12/2017</td> </tr> </tbody> </table>		<i>Drawing</i>	<i>Number</i>	<i>Date / revision</i>	Mackay Southern Breakwater Upgrade Work – General Arrangement	698873-DRG-001	06/12/2017	Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 1	698873-DRG-005	06/12/2017	Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 2	698873-DRG-006	06/12/2017	Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 3	698873-DRG-007	06/12/2017	At all times.
<i>Drawing</i>	<i>Number</i>	<i>Date / revision</i>															
Mackay Southern Breakwater Upgrade Work – General Arrangement	698873-DRG-001	06/12/2017															
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Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 3	698873-DRG-007	06/12/2017															
<p>2. “As constructed” drawings and design certificates certified by an RPEQ must be submitted to NQBP via approvals@nqbp.com.au. The following is to be provided:</p> <ul style="list-style-type: none"> • One set of “As-constructed” drawings. • Dimensioned plot plans and general arrangement drawings must also be provided electronically to NQBP in dwg (AutoCAD 2012) and dxf formats (including pen plot, xref, ole, block files and any other external references). 		Within two (2) weeks of receipt of decision notice.															

Attachment 2

REFERRAL AGENCY RESPONSE

Agency	Reference	Date received
Department of State Development, Manufacturing, Infrastructure and Planning	1712-3175 SRA	22 February 2018

Our reference: 1712-3175 SRA
Your reference: PL/04/02/00005

22 February 2018

North Queensland Bulk Ports
GPO Box 409
Brisbane QLD 4001
planning@nqbp.com.au

Attention: David Todd

Dear Mr. Todd

Referral agency response—with conditions

(Given under section 56 of the *Planning Act 2016*)

The development application described below was properly referred to the Department of State Development, Manufacturing, Infrastructure and Planning on 9 January 2018.

Applicant details

Applicant name:	Mr David Todd
Applicant contact details:	NQBP Waterfront Place, Mulherin Drive Mackay Harbour QLD 4740 dtodd@nqbp.com.au

Location details

Street address:	Mackay Harbour
Real property description:	Lot 63 on SP143358; Lot 64 on SP118293
Local government area:	Mackay Regional Council

Application details

Development permit	Operational work for Tidal works within a coastal management district, being a retrospective approval for upgrade works to an existing breakwater.
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Referral triggers

The development application was referred to the department under the following provisions of the Planning Regulation 2017:

- 10.17.3.2.1 Tidal works or work in a coastal management district
- 10.17.3.1.1 Tidal works or work in a coastal management district

Conditions

Under section 56(1)(b)(i) of the *Planning Act 2016* (the Act), the conditions set out in Attachment 1 must be attached to any development approval.

Reasons for decision to impose conditions

The department must provide reasons for the decision to impose conditions. These reasons are set out in Attachment 2.

Approved plans and specifications

The department requires that the plans and specifications set out below and enclosed must be attached to any development approval.

Drawing/report title	Prepared by	Date	Reference no.	Version/issue
Aspect of development: Operational Work				
Mackay Southern Breakwater, Upgrade Work, General Arrangement	North Queensland Bulk Ports Corporation	06/12/17	698873- DRG-001	-
Mackay Southern Breakwater, Upgrade Works, Typical Section Sheet 1	North Queensland Bulk Ports Corporation	06/12/17	698873- DRG-005	-
Mackay Southern Breakwater, Upgrade Works, Typical Section Sheet 2	North Queensland Bulk Ports Corporation	06/12/17	698873-DRG-006	-
Mackay Southern Breakwater, Upgrade Works, Typical Section Sheet 3	North Queensland Bulk Ports Corporation	06/12/17	698873-DRG-007	-

A copy of this response has been sent to the applicant for their information.

For further information please contact Dylan Brown, A/Senior Planning Officer, on (07) 4898 6812 or via email MIWSARA@dilgp.qld.gov.au who will be pleased to assist.

Yours sincerely



Patrick Ruettjes
Manager (Planning), Mackay Isaac Whitsunday Regional Office

cc Mr David Todd, dtodd@nqbp.com.au

enc Attachment 1—Conditions to be imposed
Attachment 2—Reasons for decision to impose conditions
Approved plans and specifications

Attachment 1—Conditions to be imposed

No.	Conditions	Condition timing
Operational Work – Tidal Works		
10.17.3.1.1—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Environment and Science to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
1.	<p>The development must be carried out generally in accordance with the following plans:</p> <ul style="list-style-type: none"> • Mackay Southern Breakwater, Upgrade Work, General Arrangement, prepared by North Queensland Bulk Ports Corporation, 06/12/17, 698873-DRG-001 • MACKAY SOUTHERN BREAKWATER, UPGRADE WORKS, TYPICAL SECTION SHEET 1, prepared by North Queensland Bulk Ports Corporation, 06/12/17, 698873-DRG-005 • MACKAY SOUTHERN BREAKWATER, UPGRADE WORKS, TYPICAL SECTION SHEET 2, prepared by North Queensland Bulk Ports Corporation, 06/12/17, 698873-DRG-006 • MACKAY SOUTHERN BREAKWATER, UPGRADE WORKS, TYPICAL SECTION SHEET 3, prepared by North Queensland Bulk Ports Corporation, 06/12/17, 698873-DRG-007. 	For the duration of works.
2.	<p>For the works, only use clean materials and ensure that the works do not cause contamination.</p> <p>For the works only use materials which are free from contaminants as defined under section 11 of the <i>Environmental Protection Act 1994</i>.</p>	For the duration of works.
3.	Erosion and sediment control measures which are in accordance with Best Practice Erosion and Sediment Control (BPESC) guidelines for Australia (International Erosion Control Association), are to be installed and maintained to prevent the release of sediment to tidal waters.	For the duration of works.
4.	<p>Submit “As Constructed drawings” to palm@ehp.qld.gov.au or mail to: Department of Environment and Science Permit and License Management Implementation and Support Unit GPO Box 2454 Brisbane QLD 4001.</p>	Within two (2) weeks of the receipt of this concurrence agency response.
Operational Work – Tidal Works		
10.17.3.2.1—The chief executive administering the <i>Planning Act 2016</i> nominates the Director-General of the Department of Transport and Main Roads to be the enforcement authority for the development to which this development approval relates for the administration and enforcement of any matter relating to the following condition(s):		
5.	Any navigational aid that is damaged due to the construction, operation or maintenance of the approved development must be promptly repaired or replaced at the applicant’s cost. In the event that any damage is caused to any aid to navigation, the Harbour Master must be immediately contacted on (07) 4944 3700.	At all times.

6.	<p>“As Constructed” drawings of the approved structure must be provided to the Regional Harbour Master, PO Box 58, Mackay QLD 4740.</p>	<p>Within two (2) weeks of the receipt of this concurrence agency response.</p>
7.	<p>(a) Provide written notice to Regional Harbour Master, PO Box 58, Mackay QLD 4740 when the development authorised under this approval is/was scheduled to commence.</p> <p>Each notice must state this application number, the location and name of registered place and the condition number under which the notice is being given.</p> <p>(b) Provide written notice to Regional Harbour Master, PO Box 58 Mackay QLD 4740 when the development authorised under this approval has been completed.</p> <p>Each notice must state this application number, the location and name of registered place and the condition number under which the notice is being given.</p>	<p>(a) Within two (2) weeks of the receipt of this concurrence agency response.</p> <p>(b) Within two (2) weeks of the receipt of this concurrence agency response OR Within two (2) weeks of the completion of works.</p>
8.	<p>Lighting provided must not obscure, disguise or otherwise interfere with the effectiveness of navigational lighting.</p>	<p>At all times.</p>

Attachment 2—Reasons for decision to impose conditions

The reasons for this decision are:

- To ensure the development is carried out generally in accordance with the plans of development submitted with the application.
- To ensure the development avoids or minimises adverse impacts on coastal resources and their values.
- To allow for compliance in relation to what is considered generally in accordance with the approved plans when preliminary plans are submitted with the application. Development inconsistent with the approval may have an impact on coastal management that was not considered during the assessment.
- To facilitate the monitoring of the development works for compliance purposes.
- To ensure that at all times, all lights on or above the development site do not interfere with safe navigation in surrounding waterways.
- To ensure that the development does not interfere with any existing aids to navigation.

Evidence or other material on which the findings were based

- development application
- State Development Assessment Provisions published by the Department of State Development, Manufacturing, Infrastructure and Planning
- *Planning Act 2016*
- Planning Regulation 2017

Attachment 3

APPEAL PROVISIONS

PLANNING ACT 2016

229 APPEALS TO TRIBUNAL OR P&E COURT

(1) *Schedule 1* states—

(a) matters that may be appealed to—

- (i) either a tribunal or the P&E Court; or
- (ii) only a tribunal; or
- (iii) only the P&E Court; and

(b) the person—

- (i) who may appeal a matter (the "**appellant**"); and
- (ii) who is a respondent in an appeal of the matter; and
- (iii) who is a co-respondent in an appeal of the matter; and
- (iv) who may elect to be a co-respondent in an appeal of the matter.

(2) An **appellant** may start an appeal within the **appeal period**.

(3) The "**appeal period**" is—

- (a) for an appeal by a building advisory agency—10 business days after a decision notice for the decision is given to the agency; or
- (b) for an appeal against a deemed refusal—at any time after the deemed refusal happens; or
- (c) for an appeal against a decision of the Minister, under *Chapter 7, part 4*, to register premises or to renew the registration of premises—20 business days after a notice is published under *section 269 (3)(a) or (4)*; or
- (d) for an appeal against an infrastructure charges notice—20 business days after the infrastructure charges notice is given to the person; or
- (e) for an appeal about a deemed approval of a development application for which a decision notice has not been given—30 business days after the **appellant** gives the deemed approval notice to the assessment manager; or
- (f) for any other appeal—20 business days after a notice of the decision for the matter, including an enforcement notice, is given to the person.

Example: See the P&E Court Act for the court's power to extend the **appeal period**.

SCHEDULE 1 APPEALS

1 Appeal rights and parties to appeals

- (1) Table 1 states the matters that may be appealed to—
 - (a) the P&E court; or
 - (b) a tribunal.

Table 1			
Appeals to the P&E Court and, for certain matters, to a tribunal			
<p>1. Development applications</p> <p>For a development application other than an excluded application, an appeal may be made against—</p> <ul style="list-style-type: none"> (a) the refusal of all or part of the development application; or (b) the deemed refusal of the development application; or (c) a provision of the development approval; or (d) if a development permit was applied for—the decision to give a preliminary approval. 			
Column 1	Column 2	Column 3	Column 4
Appellant	Respondent	Co-respondent (if any)	Co-respondent by election (if any)
The applicant	The assessment manager	If the appeal is about a concurrence agency’s referral response—the concurrence agency	1 A concurrence agency that is not a co-respondent 2 If a chosen assessment manager is the respondent—the prescribed assessment manager 3 Any eligible advice agency for the application 4 Any eligible submitter for the application

Statement of Reasons

Planning Act 2016 s.56

1. Applicant details

<i>Applicant name:</i>	North Queensland Bulk Ports Corporation
<i>Applicant contact details:</i>	David Todd PO Box 3340 NORTH MACKAY QLD 4740

2. Property description of proposed development

<i>Port:</i>	Mackay
<i>Street address:</i>	Breakwater Access Road, Mackay Harbour
<i>Real property description:</i>	Lot 63 on SP143358 and Lot 64 on SP118293
<i>Local government area:</i>	Mackay Regional Council

3. Development details

<i>Approved development:</i>	Tidal works within a coastal management district, being a retrospective approval for upgrade works to an existing breakwater.
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4. Assessment matters

The application has been assessed against:

- Port of Mackay Land Use Plan (November 2009).
- Port authority functions under the *Transport Infrastructure Act 1994*, chapter 8, part 3.

5. Reasons for the decision

The reasons for the decision are that the proposal:

- Complies and contributes toward the achievement of the desired environmental outcomes of the Port of Mackay Land Use Plan (November 2009).
- Is consistent with the functions of the Port as specified in the *Transport Infrastructure Act 1994*, chapter 8, part 3.

Evidence or other material on which the findings were based:

- Material provided in the development application.

Port Development Approval

Port of Mackay Land Use Plan (November 2009)

1. Details of approval

<i>Applicant:</i>	North Queensland Bulk Ports Corporation
<i>Approved proposal:</i>	Tidal works within a coastal management district, being a retrospective approval for upgrade works to an existing breakwater.
<i>Currency of approval</i>	This approval will lapse if development is not commenced within two (2) years of the date of decision.
<i>Date of decision</i>	26 February 2018
<i>Decision:</i>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved subject to conditions

2. Property description of proposed development

<i>Port:</i>	Mackay
<i>Street address:</i>	Breakwater Access Road, Mackay Harbour
<i>Real property description:</i>	Lot 63 on SP143358 and Lot 64 on SP118293
<i>Lease:</i>	N/a
<i>Lessee:</i>	N/a

3. Approved drawings and documents

The following drawings and documents are approved by NQBP as the basis for the works. Copies of these approved drawings are provided as an enclosure.

<i>Drawing</i>	<i>Number</i>	<i>Date / revision</i>
Mackay Southern Breakwater Upgrade Work – General Arrangement	698873-DRG-001	06/12/2017
Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 1	698873-DRG-005	06/12/2017
Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 2	698873-DRG-006	06/12/2017
Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 3	698873-DRG-007	06/12/2017

4. Additional approvals required

This Port Development Approval is limited to proposal described above. At no time should this document be interpreted to imply approval to any other development, operation or land use.

This Port Development Approval does not remove the requirement for any other legislative approval (including approvals under the *Planning Act 2016*).

It is the proponent's responsibility to ensure all necessary approvals, permits and licences are obtained to undertake the proposed use / works.

5. Advisory information

Please note that the information contained in this section under the heading Advisory information has been provided as advice only and does not form part of the development approval conditions. This information has been provided to advise of other obligations under state legislation or local laws that may require action to be undertaken prior to commencing the activity approved by this development approval.

NOTES

Cultural heritage duty of care

1. Section 23 of the *Aboriginal Cultural Heritage Act 2003* establishes a duty of care for all persons carrying out an activity to take all reasonable and practicable measures to ensure the activity does not harm Aboriginal cultural heritage. It is the person undertaking the activity responsibility to ensure compliance with the duty of care.

A copy of the legislation can be accessed via
<https://www.legislation.qld.gov.au/LEGISLTN/CURRENT/A/AborCultHA03.pdf>

Hours of work and noise

2. Section 440R of the *Environmental Protection Act 1994* prohibits construction, building and earthworks activities likely to cause audible noise (including the entry and departure of heavy vehicles) between the hours of 6:30pm and 6:30am from Monday to Saturday and at all times on Sundays or Public Holidays.

A copy of the legislation can be accessed via
<https://www.legislation.qld.gov.au/LEGISLTN/CURRENT/E/EnvProtA94.pdf>

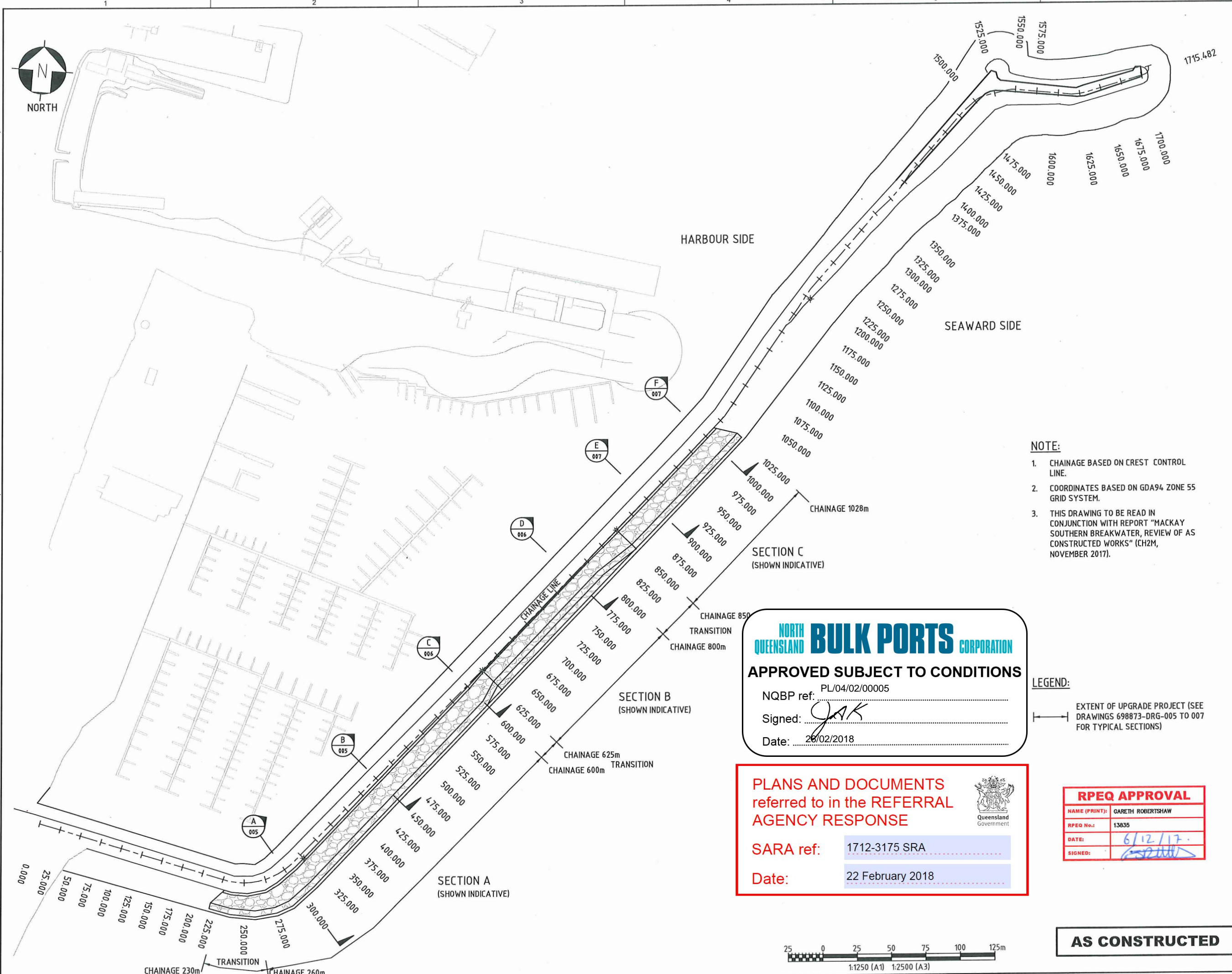
General safety during construction

3. The *Work Health and Safety Act 2011* establishes a number of obligations relevant to the project, in particular:
 - a. Under section 19(2), a person conducting a business or undertaking must ensure the health and safety of other persons is not put at risk from work carried out as part of the conduct of the business or undertaking.
 - b. Under section 20(2), the person in control of the workplace is obliged to ensure that the means of entering and exiting the workplace and anything arising from the workplace are without risks to the health and safety of any person.

A copy of the legislation can be accessed via
<https://www.legislation.qld.gov.au/LEGISLTN/CURRENT/W/WorkHSA11.pdf>

Approved drawings

<i>Drawing</i>	<i>Number</i>	<i>Date / revision</i>
Mackay Southern Breakwater Upgrade Work – General Arrangement	698873-DRG-001	06/12/2017
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Mackay Southern Breakwater Upgrade Work – Typical Section Sheet 3	698873-DRG-007	06/12/2017



- NOTE:**
- CHAINAGE BASED ON CREST CONTROL LINE.
 - COORDINATES BASED ON GDA94 ZONE 55 GRID SYSTEM.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH REPORT "MACKAY SOUTHERN BREAKWATER, REVIEW OF AS CONSTRUCTED WORKS" (CH2M, NOVEMBER 2017).

NORTH QUEENSLAND BULK PORTS CORPORATION

APPROVED SUBJECT TO CONDITIONS

NQBP ref: PL/04/02/00005

Signed: *JAK*

Date: 20/02/2018


LEGEND:

EXTENT OF UPGRADE PROJECT (SEE DRAWINGS 698873-DRG-005 TO 007 FOR TYPICAL SECTIONS)

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

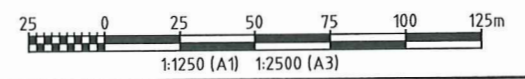
SARA ref: 1712-3175 SRA

Date: 22 February 2018



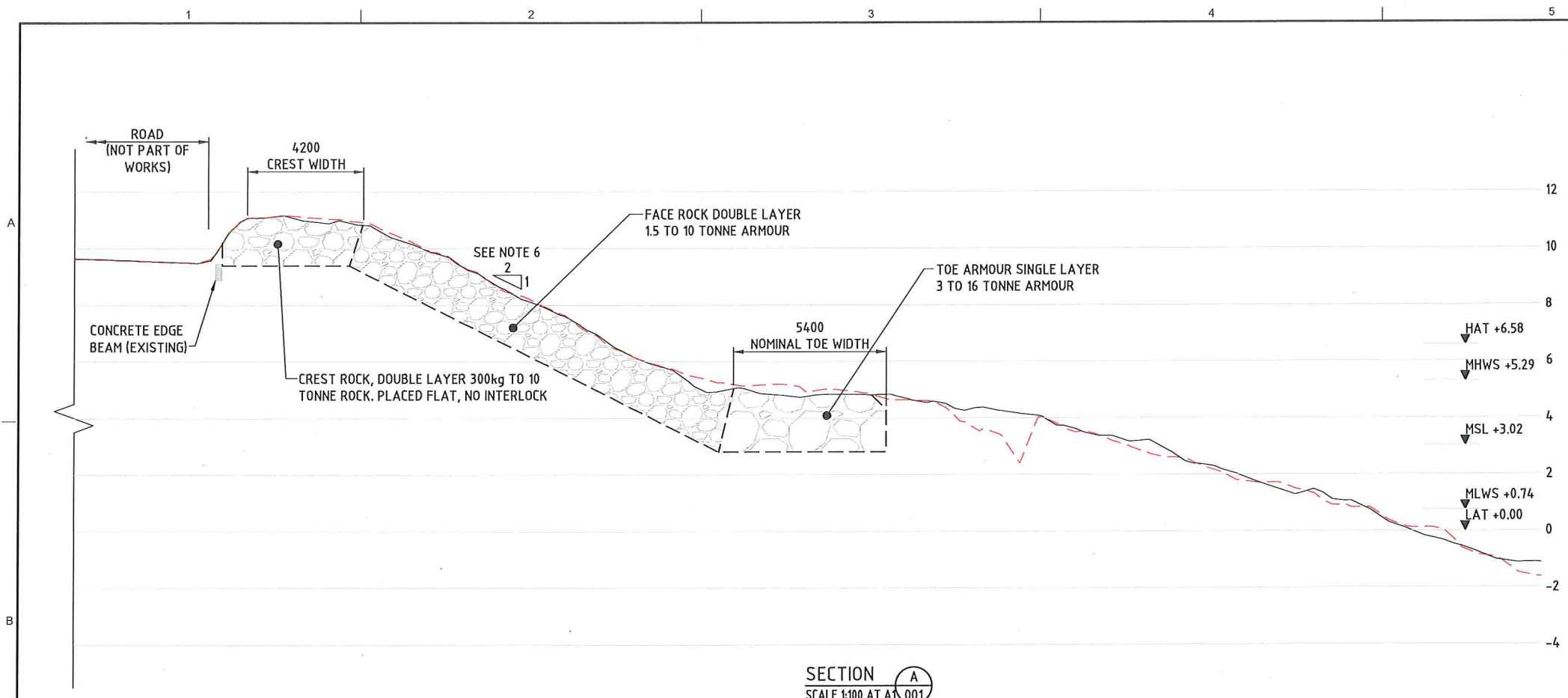
RPEQ APPROVAL

NAME (PRINT):	GARETH ROBERTSHAW
RPEQ No.:	13835
DATE:	6/12/17
SIGNED:	<i>[Signature]</i>



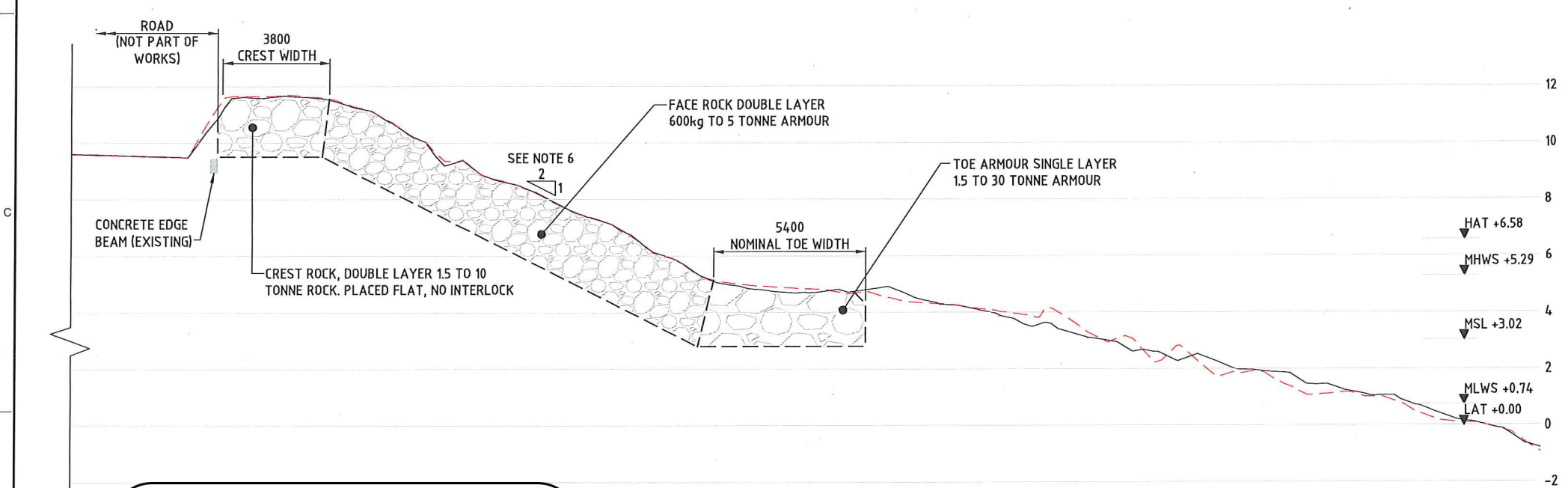
AS CONSTRUCTED

	NOBP MACKAY																
	MACKAY SOUTHERN BREAKWATER UPGRADE WORK GENERAL ARRANGEMENT																
	VERIFY SCALE BAR IS 25MM ON ORIGINAL DRAWING. 25MM																
DATE: 06-DEC-17 PROJ: 698873 DWG: 698873-DRG-001 SHEET: 1 of 1																	
<table border="1" style="border-collapse: collapse; font-size: 0.8em;"> <tr> <td>NO.</td> <td>DATE</td> <td>DR</td> <td>REVISION</td> <td>CHK</td> <td>MS</td> <td>BY</td> <td>APVD</td> </tr> <tr> <td> </td> <td> </td> <td>GR</td> <td>TK</td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		NO.	DATE	DR	REVISION	CHK	MS	BY	APVD			GR	TK				
NO.	DATE	DR	REVISION	CHK	MS	BY	APVD										
		GR	TK														
REUSE OF DOCUMENTS: THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF CH2M HILL AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M HILL. © CH2M HILL 2013. ALL RIGHTS RESERVED.																	



SECTION A
SCALE 1:100 AT A1,001

ARMOUR PROTECTION (APPROX. CH 300)



SECTION B
SCALE 1:100 AT A1,001

ARMOUR PROTECTION (APPROX. CH 450)

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES TO LOWEST ASTRONOMICAL TIDE (LAT).
3. SURVEY DETAILS FROM PORT OF BRISBANE SURVEY DATA PROVIDED BY NQBP.
4. ROCK SIZE RANGE ARE APPROXIMATE, BASED UPON VISUAL INSPECTION. SEE CH2M TECHNICAL MEMORANDUM "MACKAY BREAKWATER, SITE VISIT 4TH NOVEMBER 2017" FOR DETAILS.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH REPORT "MACKAY SOUTHERN BREAKWATER, REVIEW OF AS CONSTRUCTED WORKS" (CH2M, NOVEMBER 2017).
6. SLOPE IS APPROXIMATE ONLY BASED ON SURVEY DATA PROVIDED BY NQBP.

LEGEND:

- FACE ARMOUR
- CREST ARMOUR
- TOE ARMOUR
- 2016 SURVEY
- 2017 SURVEY

NORTH QUEENSLAND BULK PORTS CORPORATION
APPROVED SUBJECT TO CONDITIONS
 NQBP ref: PL/04/02/00005
 Signed: *JAK*
 Date: 26/02/2018

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

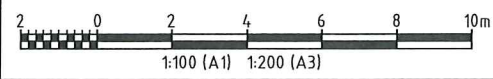
SARA ref: 1712-3175 SRA
 Date: 22 February 2018

Queensland Government

RPEQ APPROVAL

NAME (PRINT): GARETH ROBERTSHAW
 RPEQ No.: 13835
 DATE: 01/12/17
 SIGNED: *[Signature]*

AS CONSTRUCTED



ch2m

MACKAY SOUTHERN BREAKWATER UPGRADE WORKS
 TYPICAL SECTION SHEET 1

NOBP MACKAY

NO.	DATE	DR	CHK	BY

1:100
 VERIFY SCALE
 BAR IS 25MM ON ORIGINAL DRAWING.
 DATE: 06-DEC-17
 PROJ: 698873
 DWG: 698873-DRG-005
 SHEET: 1 of 3

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- NOTE:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
 - ALL LEVELS ARE IN METRES TO LOWEST ASTRONOMICAL TIDE (LAT).
 - SURVEY DETAILS FROM PORT OF BRISBANE SURVEY DATA PROVIDED BY NQBP.
 - ROCK SIZE RANGE ARE APPROXIMATE, BASED UPON VISUAL INSPECTION. SEE CH2M TECHNICAL MEMORANDUM "MACKAY BREAKWATER, SITE VISIT 4TH NOVEMBER 2017" FOR DETAILS.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH REPORT "MACKAY SOUTHERN BREAKWATER, REVIEW OF AS CONSTRUCTED WORKS" (CH2M, NOVEMBER 2017).
 - SLOPE IS APPROXIMATE ONLY BASED ON SURVEY DATA PROVIDED BY NQBP.
 - TOE APPEARS TO BE FORMED AS A DOUBLE LAYER AT CHAINAGE 600.
 - AT THE TIME OF INSPECTION IN NOVEMBER 2017 THE ORIGINAL BERM CONSTRUCTION WAS NO LONGER EVIDENT WITH A HIGHER WIDE TOE BEING PRESENT AS REPRESENTED BY THE 2017 SURVEY.

- LEGEND:**
- FACE ARMOUR
 - CREST ARMOUR
 - TOE ARMOUR
 - 2016 SURVEY
 - 2017 SURVEY

NO.	DATE	DR	CHK	MS	APVD

NQBP
MACKAY

MACKAY SOUTHERN BREAKWATER
UPGRADE WORKS
TYPICAL SECTION SHEET 2

1:100
VERIFY SCALE
BAR IS 25MM ON ORIGINAL DRAWING.
DATE 06-DEC-17
PROJ 698873
DWG 698873-DRG-006
SHEET 2 of 3

AS CONSTRUCTED

RPEQ APPROVAL	
NAME (PRINT):	GARETH ROBERTSHAW
RPEQ No.:	13835
DATE:	6/12/17
SIGNED:	

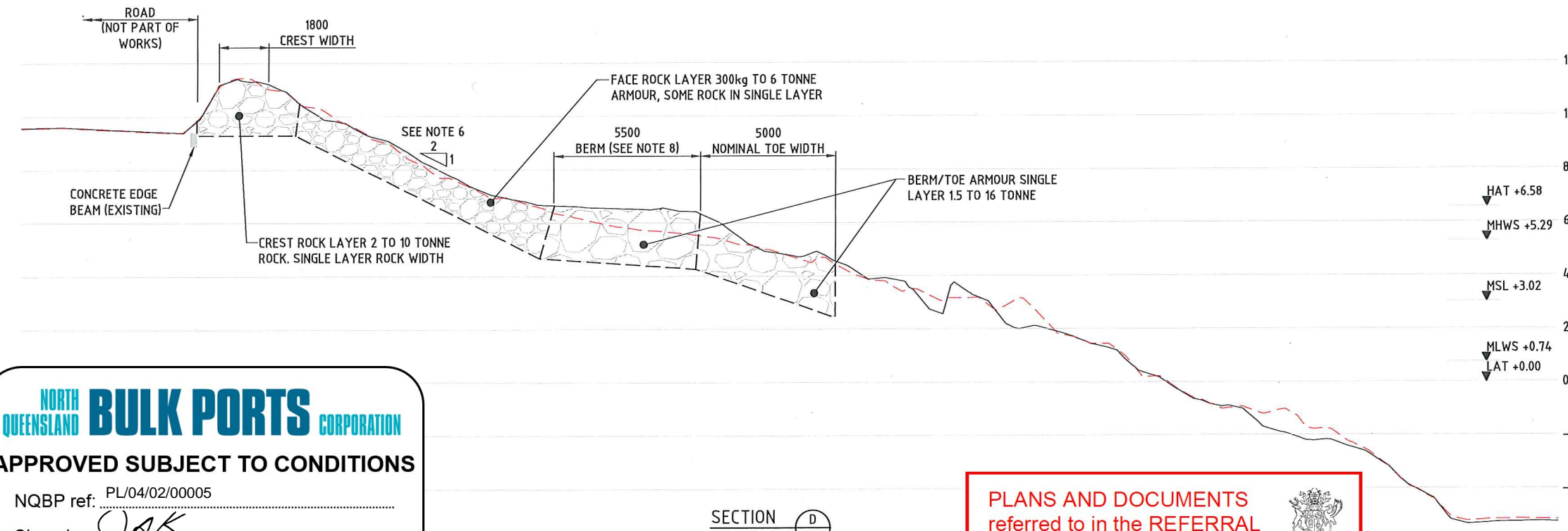
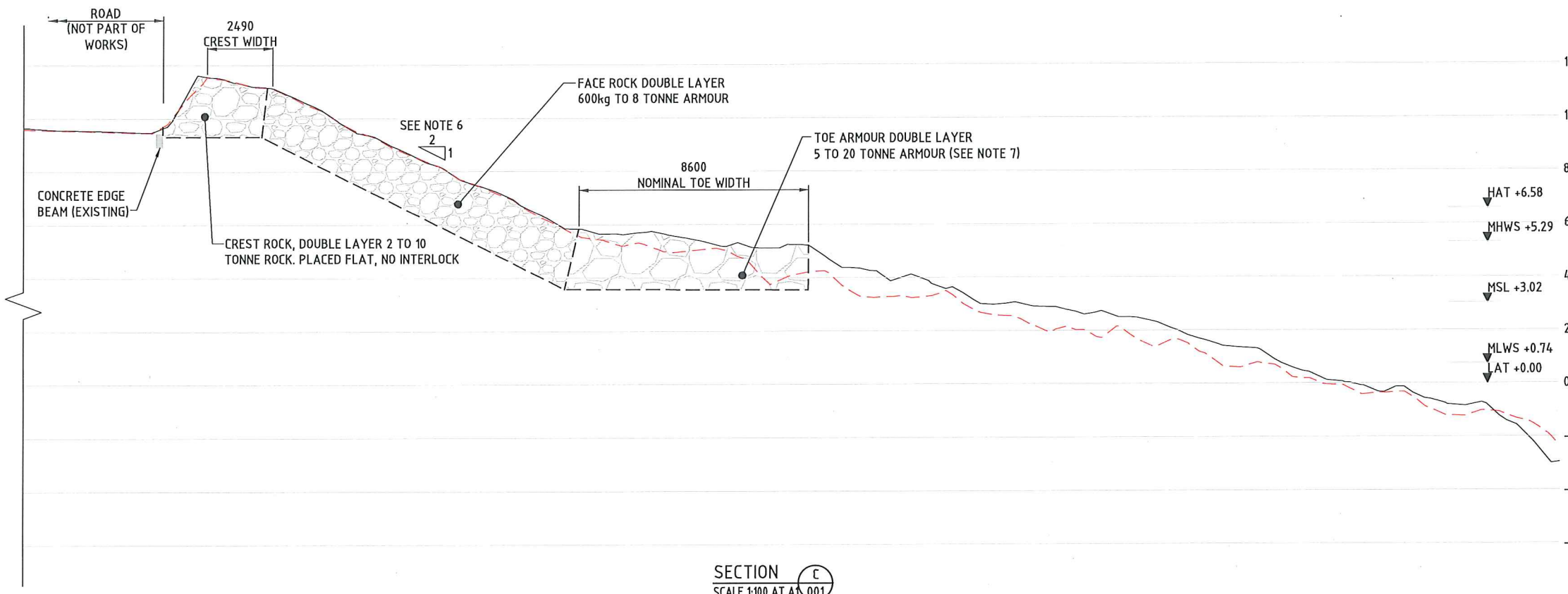
PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 1712-3175 SRA

Date: 22 February 2018

SECTION C
SCALE 1:100 AT A1 001
ARMOUR PROTECTION (APPROX. CH 600)

SECTION D
SCALE 1:100 AT A1 001
ARMOUR PROTECTION (APPROX. CH 775)



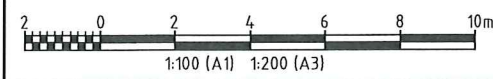
NORTH QUEENSLAND BULK PORTS CORPORATION

APPROVED SUBJECT TO CONDITIONS

NQBP ref: PL/04/02/00005

Signed:

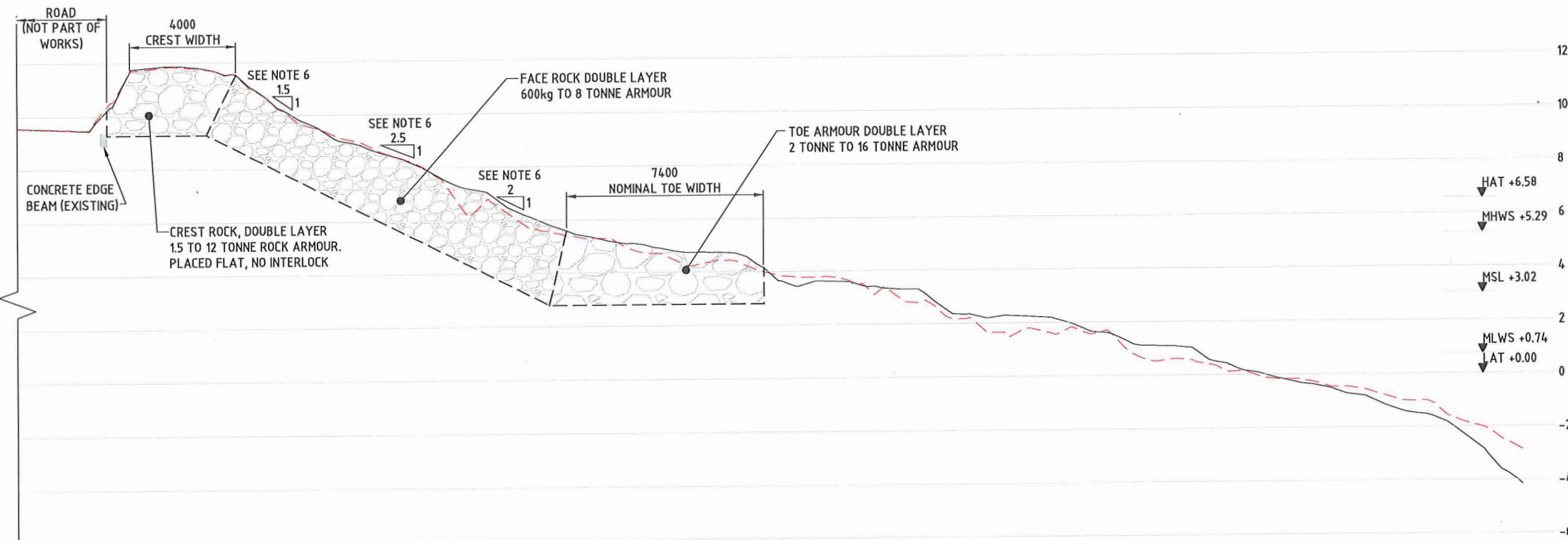
Date: 22/02/2018



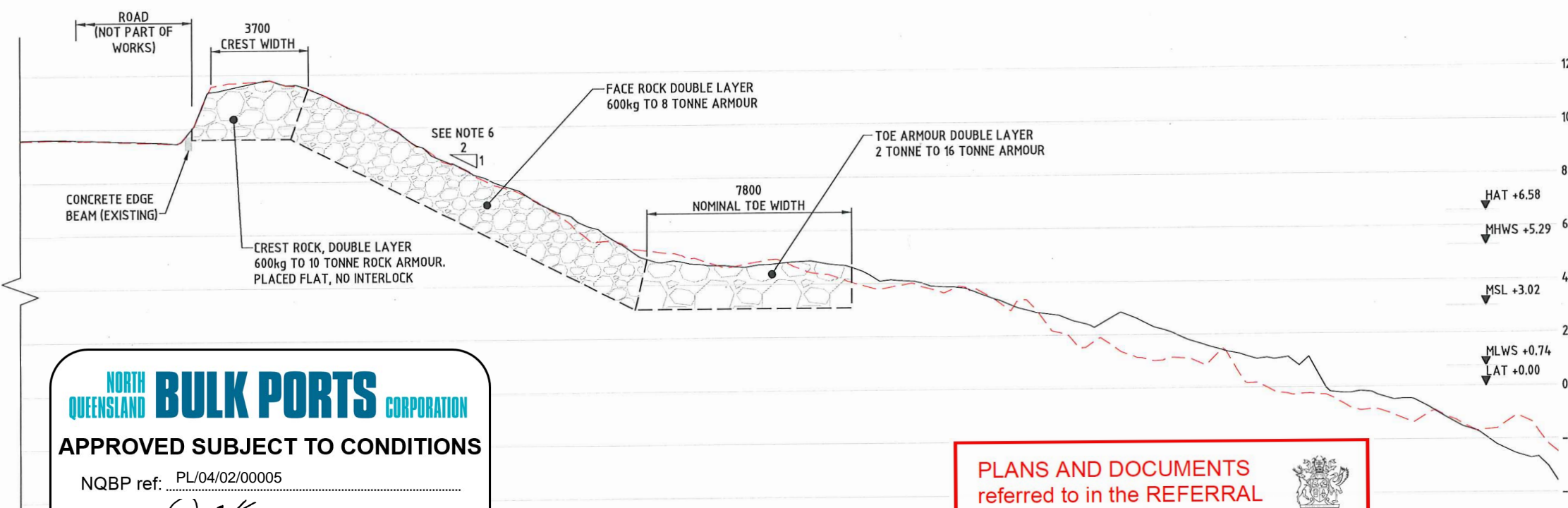
- NOTE:**
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 - SURVEY DETAILS FROM PORT OF BRISBANE SURVEY DATA PROVIDED BY NQBP.
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 - SLOPE IS APPROXIMATE ONLY BASED ON SURVEY DATA PROVIDED BY NQBP.

- LEGEND:**
- FACE ARMOUR
 - CREST ARMOUR
 - TOE ARMOUR
 - 2016 SURVEY
 - 2017 SURVEY

NO.	DATE	DR	GR	CHK	BY



SECTION **E**
SCALE 1:100 AT A1 001
ARMOUR PROTECTION (APPROX. CH 900)



SECTION **F**
SCALE 1:100 AT A1 001
ARMOUR PROTECTION (APPROX. CH 1000)

NORTH QUEENSLAND BULK PORTS CORPORATION
 APPROVED SUBJECT TO CONDITIONS
 NQBP ref: PL/04/02/00005
 Signed: *JAK*
 Date: 22/02/2018

PLANS AND DOCUMENTS referred to in the REFERRAL AGENCY RESPONSE

SARA ref: 1712-3175 SRA
 Date: 22 February 2018

RPEQ APPROVAL

NAME (PRINT):	GARETH ROBERTSHAW
RPEQ No.:	13835
DATE:	6/12/17
SIGNED:	<i>[Signature]</i>

AS CONSTRUCTED

NQBP MACKAY	
MACKAY SOUTHERN BREAKWATER UPGRADE WORK TYPICAL SECTION SHEET 3	
1:100	VERIFY SCALE
BAR IS 25MM ON ORIGINAL DRAWING 25MM	
DATE	06-DEC-17
PROJ	698873
DWG	698873-DRG-007
SHEET	3 of 3

