

Our Ref: GC120023_20141219_OPW Submission Letter-Andreassen Drain
Enquiries to: Mr Philip Bell

19 December 2014

The Chief Executive Officer
Douglas Shire council
PO Box 723
MOSSMAN QLD 4873

ATTENTION: MR PAUL

Dear Sir,

**Re: Andreassen Road Drainage Channel Craiglie
Lot 1 on RP 725770 and Lot 2 SR 431
OPW Application for Civil Roadworks & Drainage**

We submit, for Council's information and approval, the following engineering drawings and supporting information for proposed civil works for the reconstruction of roadworks on Andreassen Road, and for trunk stormwater drainage in Andreassen Road and in Lot 1 RP 725770. This OPW application complements a previously lodged OPW on Lot 2 SR431 reference DSC No. OP5141/2013. This application shall be progressed to determine if the conditions of approval will affect the information response for the previous application DSC No. OP5141/2013. This application shall initially take precedence.

- (a) Two (2) full sets of engineering drawings numbered GC120023-01-C200-A, C201-A, C202-A, C203-A, C210-A, C211-A and C212-A (A3 size) detailing the works proposed.
- (b) Completed IDAS Application Form 1 and Form 6.
- (c) Cheque for \$3,455.10 being payment of the Operational Works Application Fee for Civil Infrastructure Works.
- (d) We advise that the applicable QLeave payment will be made by the Client prior to the approval being granted.
- (e) Copies of Registered Survey Plans available upon request.
- (f) Copy of Revised Stormwater Management Plan – Not included but will be forwarded as soon as we have council feedback from the submission.

40, 2013, 5141, 1

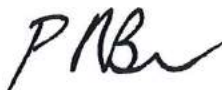
DOUGLAS SHIRE COUNCIL Received	
File Name	OP5141/2014
Document No	
22 DEC 2014	
Attention	SKA orig ✓
Information	RN 56283 A927343 A870394

- (g) Copy of Geotechnical Investigation and Acid Sulfate Soils Report – not included but will be submitted prior to approval being issued.

A digital copy of all the above information has also been included on the attached CD.

We trust the above is satisfactory to Council's requirements.

Yours faithfully



Philip Bell
Principal Engineer CPEng RPEQ

Enc:

cc: Douglas Gardens Pty Ltd – Attn: Mr Alan Franks



Submission to Douglas Shire Council Operational Works Application

Client: Coral Gardens NZ Limited & Others

Project No: GC120023

Document No: GC120023 OPW Submission – December 2014

Report Date: December 2014

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PART 1: FORMS

- **SUBMISSION LETTER**
- **IDAS FORM 1 - APPLICATION DETAILS**
- **IDAS FORM 6 - BUILDING OR OPERATIONAL WORKS ASSESSABLE AGAINST A PLANNING SCHEME**

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Philip Bell
Principal Engineer CPEng RPEQ

Enc:

cc: Douglas Gardens Pty Ltd – Attn: Mr Alan Franks

IDAS form 1—Application details

(Sustainable Planning Act 2009 version 4.1 effective 4 July 2014)

This form must be used for **ALL** development applications.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete this form (*IDAS form 1—Application details*)
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* (SPA) or the Sustainable Planning Regulation 2009.

This form and any other IDAS form relevant to your application must be used for development applications relating to strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994* and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008*. Whenever a planning scheme is mentioned, take it to mean land use plan for the strategic port land, Brisbane core port land or airport land.

PLEASE NOTE: This form is not required to accompany requests for compliance assessment.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

Applicant details (Note: the applicant is the person responsible for making the application and need not be the owner of the land. The applicant is responsible for ensuring the information provided on all IDAS application forms is correct. Any development permit or preliminary approval that may be issued as a consequence of this application will be issued to the applicant.)

Name/s (individual or company name in full)

**CORAL GARDENS NZ LIMITED & OTHERS C/- BURCHILLS
ENGINEERING SOLUTIONS**

For companies, contact name

Philip Bell

Postal address

PO BOX 3799 AUSTRALIA FAIR

Suburb	SOUTHPORT		
State	QLD	Postcode	4215
Country	Austalia		

Contact phone number

07 5509 6400

Mobile number (non-mandatory requirement)

Fax number (non-mandatory requirement)

Email address (non-mandatory requirement)

philip.bell

@ burchills.com.au

Applicant's reference number (non-mandatory requirement)

GC120023

1. What is the nature of the development proposed and what type of approval is being sought?

Table A—Aspect 1 of the application (If there are additional aspects to the application please list in Table B—Aspect 2.)

a) What is the nature of the development? (Please only tick one box.)

☐ Material change of use ☐ Reconfiguring a lot ☐ Building work ☒ Operational work

b) What is the approval type? (Please only tick one box.)

☐ Preliminary approval under s241 of SPA ☐ Preliminary approval under s241 and s242 of SPA ☒ Development permit

c) Provide a brief description of the proposal, including use definition and number of buildings or structures where applicable (e.g. six unit apartment building defined as a *multi-unit dwelling*, 30 lot residential subdivision etc.)

Andreassen Road & Captain Cook Highway - Intersection Design and Andreassen Road - Road & Drainage Works

d) What is the level of assessment? (Please only tick one box.)

☐ Impact assessment ☒ Code assessment

Table B—Aspect 2 of the application (If there are additional aspects to the application please list in Table C—Additional aspects of the application.)

a) What is the nature of development? (Please only tick one box.)

☐ Material change of use ☐ Reconfiguring a lot ☐ Building work ☐ Operational work

b) What is the approval type? (Please only tick one box.)

☐ Preliminary approval under s241 of SPA ☐ Preliminary approval under s241 and s242 of SPA ☐ Development permit

c) Provide a brief description of the proposal, including use definition and number of buildings or structures where applicable (e.g. six unit apartment building defined as a *multi-unit dwelling*, 30 lot residential subdivision etc.)

d) What is the level of assessment?

☐ Impact assessment ☐ Code assessment

Table C—Additional aspects of the application (If there are additional aspects to the application please list in a separate table on an extra page and attach to this form.)

☐ Refer attached schedule ☐ Not required

2. Location of the premises (Complete Table D and/or Table E as applicable. Identify each lot in a separate row.)

Table D—Street address and lot on plan for the premises or street address and lot on plan for the land adjoining or adjacent to the premises (Note: this table is to be used for applications involving taking or interfering with water). (Attach a separate schedule if there is insufficient space in this table.)

- ☒ Street address **and** lot on plan (All lots must be listed.)
- ☐ Street address **and** lot on plan for the land adjoining or adjacent to the premises (Appropriate for development in water but adjoining or adjacent to land, e.g. jetty, pontoon. All lots must be listed.)

Street address					Lot on plan description		Local government area (e.g. Logan, Cairns)
Lot	Unit no.	Street no.	Street name and official suburb/ locality name	Post-code	Lot no.	Plan type and plan no.	
i)			Captain Cook Hwy & Andreassen Road Craiglie	4877	2 1	SR431 RP725770	Douglas Shire Council
ii)							
iii)							

Planning scheme details (If the premises involves multiple zones, clearly identify the relevant zone/s for each lot in a separate row in the below table. Non-mandatory)

Lot	Applicable zone / precinct	Applicable local plan / precinct	Applicable overlay/s
i)			
ii)			
iii)			

Table E—Premises coordinates (Appropriate for development in remote areas, over part of a lot or in water not adjoining or adjacent to land e.g. channel dredging in Moreton Bay.) (Attach a separate schedule if there is insufficient space in this table.)

Coordinates (Note: place each set of coordinates in a separate row)				Zone reference	Datum	Local government area (if applicable)
Easting	Northing	Latitude	Longitude			
		-16.547310	145.473476		<input type="checkbox"/> GDA94 <input type="checkbox"/> WGS84 <input checked="" type="checkbox"/> other	Douglas Shire Council

3. Total area of the premises on which the development is proposed (indicate square metres)

11700m2

4. Current use/s of the premises (e.g. vacant land, house, apartment building, cane farm etc.)

Cane Farm

5. Are there any current approvals (e.g. a preliminary approval) associated with this application? (Non-mandatory requirement)

☐ No ☒ Yes—provide details below

List of approval reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)
OP5141/2013	05/07/2013	

6. Is owner's consent required for this application? (Refer to notes at the end of this form for more information.)

☐ No
☒ Yes—complete either Table F, Table G or Table H as applicable

Table F

Name of owner/s of the land	
I/We, the above-mentioned owner/s of the land, consent to the making of this application.	
Signature of owner/s of the land	
Date	

Table G

Name of owner/s of the land	
<input type="checkbox"/> The owner's written consent is attached or will be provided separately to the assessment manager.	

Table H

Name of owner/s of the land	Coral Gardens NZ Limited & Others
<input checked="" type="checkbox"/> By making this application, I, the applicant, declare that the owner has given written consent to the making of the application.	

7. Identify if any of the following apply to the premises (Tick applicable box/es.)

- ☒ Adjacent to a water body, watercourse or aquifer (e.g. creek, river, lake, canal)—complete Table I
- ☐ On strategic port land under the *Transport Infrastructure Act 1994*—complete Table J
- ☐ In a tidal water area—complete Table K
- ☐ On Brisbane core port land under the *Transport Infrastructure Act 1994* (No table requires completion.)
- ☐ On airport land under the *Airport Assets (Restructuring and Disposal) Act 2008* (no table requires completion)
- ☐ Listed on either the Contaminated Land Register (CLR) or the Environmental Management Register (EMR) under the *Environmental Protection Act 1994* (no table requires completion)

Table I

Name of water body, watercourse or aquifer
Small drainage channel along Andreassen Road

Table J	
Lot on plan description for strategic port land	Port authority for the lot

Table K	
Name of local government for the tidal area (if applicable)	Port authority for the tidal area (if applicable)

8. Are there any existing easements on the premises? (e.g. for vehicular access, electricity, overland flow, water etc)

☒ No ☐ Yes—ensure the type, location and dimension of each easement is included in the plans submitted

9. Does the proposal include new building work or operational work on the premises? (Including any services)

☐ No ☒ Yes—ensure the nature, location and dimension of proposed works are included in plans submitted

10. Is the payment of a portable long service leave levy applicable to this application? (Refer to notes at the end of this form for more information.)

☐ No—go to question 12 ☒ Yes

11. Has the portable long service leave levy been paid? (Refer to notes at the end of this form for more information.)

☒ No
☐ Yes—complete Table L and submit with this application the yellow local government/private certifier's copy of the receipted QLeave form

Table L		
Amount paid	Date paid (dd/mm/yy)	QLeave project number (6 digit number starting with A, B, E, L or P)

12. Has the local government agreed to apply a superseded planning scheme to this application under section 96 of the *Sustainable Planning Act 2009*?

☒ No
☐ Yes—please provide details below

Name of local government	Date of written notice given by local government (dd/mm/yy)	Reference number of written notice given by local government (if applicable)

13. List below all of the forms and supporting information that accompany this application (Include all IDAS forms, checklists, mandatory supporting information etc. that will be submitted as part of this application. Note: this question does not apply for applications made online using MyDAS)

Description of attachment or title of attachment	Method of lodgement to assessment manager
IDAS FORM 1	Post
IDAS FORM 6	Post
Full submission package	Post

14. Applicant's declaration

☒ By making this application, I declare that all information in this application is true and correct (Note: it is unlawful to provide false or misleading information)

Notes for completing this form

- Section 261 of the *Sustainable Planning Act 2009* prescribes when an application is a properly-made application. Note, the assessment manager has discretion to accept an application as properly made despite any non-compliance with the requirement to provide mandatory supporting information under section 260(1)(c) of the *Sustainable Planning Act 2009*

Applicant details

- Where the applicant is not a natural person, ensure the applicant entity is a real legal entity.

Question 1

- Schedule 3 of the Sustainable Planning Regulation 2009 identifies assessable development and the type of assessment. Where schedule 3 identifies assessable development as "various aspects of development" the applicant must identify each aspect of the development on Tables A, B and C respectively and as required.

Question 6

- Section 263 of the *Sustainable Planning Act 2009* sets out when the consent of the owner of the land is required for an application. Section 260(1)(e) of the *Sustainable Planning Act 2009* provides that if the owner's consent is required under section 263, then an application must contain, or be accompanied by, the written consent of the owner, or include a declaration by the applicant that the owner has given written consent to the making of the application. If a development application relates to a state resource, the application is not required to be supported by evidence of an allocation or entitlement to a state resource. However, where the state is the owner of the subject land, the written consent of the state, as landowner, may be required. Allocation or entitlement to the state resource is a separate process and will need to be obtained before development commences.

Question 7

- If the premises is listed on either the Contaminated Land Register (CLR) or the Environmental Management Register (EMR) under the *Environmental Protection Act 1994* it may be necessary to seek compliance assessment. Schedule 18 of the Sustainable Planning Regulation 2009 identifies where compliance assessment is required.

Question 11

- The *Building and Construction Industry (Portable Long Service Leave) Act 1991* prescribes when the portable long service leave levy is payable.
- The portable long service leave levy amount and other prescribed percentages and rates for calculating the levy are prescribed in the Building and Construction Industry (Portable Long Service Leave) Regulation 2002.

Question 12

- The portable long service leave levy need not be paid when the application is made, but the *Building and Construction Industry (Portable Long Service Leave) Act 1991* requires the levy to be paid before a development permit is issued.
- Building and construction industry notification and payment forms are available from any Queensland post office or agency, on request from QLeave, or can be completed on the QLeave website at www.qleave.qld.gov.au. For further information contact QLeave on 1800 803 481 or visit www.qleave.qld.gov.au.

Privacy—The information collected in this form will be used by the Department of State Development, Infrastructure and Planning (DSDIP), assessment manager, referral agency and/or building certifier in accordance with the processing and assessment of your application. Your personal details should not be disclosed for a purpose outside of the IDAS process or the provisions about public access to planning and development information in the *Sustainable Planning Act 2009*, except where required by legislation (including the *Right to Information Act 2009*) or as required by Parliament. This information may be stored in relevant databases. The information collected will be retained as required by the *Public Records Act 2002*.

OFFICE USE ONLY

Date received

Reference numbers

NOTIFICATION OF ENGAGEMENT OF A PRIVATE CERTIFIER

To

Council. I have been engaged as the private certifier for the building work referred to in this application

Date of engagement	Name	BSA Certification license number	Building classification/s

QLEAVE NOTIFICATION AND PAYMENT (For completion by assessment manager or private certifier if applicable.)

Description of the work	QLeave project number	Amount paid (\$)	Date paid	Date receipted form sighted by assessment manager	Name of officer who sighted the form

The *Sustainable Planning Act 2009* is administered by the Department of State Development, Infrastructure and Planning. This form and all other required application materials should be sent to your assessment manager and any referral agency.

IDAS form 6—Building or operational work assessable against a planning scheme

(Sustainable Planning Act 2009 version 3.0 effective 1 July 2013)

This form must be used for development applications for building work or operational work assessable against a planning scheme.

You **MUST** complete **ALL** questions that are stated to be a mandatory requirement unless otherwise identified on this form.

For all development applications, you must:

- complete *IDAS form 1—Application details*
- complete any other forms relevant to your application
- provide any mandatory supporting information identified on the forms as being required to accompany your application.

Attach extra pages if there is insufficient space on this form.

All terms used on this form have the meaning given in the *Sustainable Planning Act 2009* (SPA) or the Sustainable Planning Regulation 2009.

This form must be used for building work or operational work relating on strategic port land and Brisbane core port land under the *Transport Infrastructure Act 1994* and airport land under the *Airport Assets (Restructuring and Disposal) Act 2008* that requires assessment against the land use plan for that land. Whenever a planning scheme is mentioned, take it to mean land use plan for the strategic port land, Brisbane core port land or airport land.

This form can also be completed online using MyDAS at www.dsdip.qld.gov.au/MyDAS

Mandatory requirements

1. **What is the nature of the work that requires assessment against a planning scheme?** (Tick all applicable boxes.)

- ☐ Building work—complete Table A ☒ Operational work—complete Table B

Table A

a) What is the nature of the building work (e.g. building, repairing, altering, underpinning, moving or demolishing a building)?

b) Are there any current approvals associated with this application? (e.g. material change of use.)

- ☐ No ☐ Yes— provide details below

List of approval reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)

Table B

a) What is the nature of the operational work? (Tick all applicable boxes.)

- ☒ Road works
 ☒ Stormwater
 ☐ Water infrastructure
☒ Drainage works
 ☒ Earthworks
 ☐ Sewerage infrastructure
☐ Landscaping
 ☐ Signage
 ☐ Clearing vegetation under the planning scheme
☐ Other—provide details

b) Is the operational work necessary to facilitate the creation of new lots? (E.g. subdivision.)

- ☒ No
 ☐ Yes—specify the number of lots being created

c) Are there any current approvals associated with this application? (E.g. material change of use.)

- ☐ No
 ☒ Yes—provide details below

List of approval reference/s	Date approved (dd/mm/yy)	Date approval lapses (dd/mm/yy)
OP5141 / 2013	05/07/2013	

2. What is the dollar value of the proposed building work?
(Inc GST, materials and labour.)

\$

3. What is the dollar value of the proposed operational work?
(Inc GST, materials and labour.)

\$200,000.00

Mandatory supporting information

4. Confirm that the following mandatory supporting information accompanies this application

Mandatory supporting information	Confirmation of lodgement	Method of lodgement
All applications involving building work or operational work		
<p>A site plan drawn to an appropriate scale (1:100, 1:200 or 1:500 are recommended scales) which shows the following:</p> <ul style="list-style-type: none"> the location and site area of the land to which the application relates (<i>relevant land</i>) the north point the boundaries of the relevant land the allotment layout showing existing lots, any proposed lots (including the dimensions of those lots), existing or proposed road reserves, building envelopes and existing or proposed open space (note: numbering is required for all lots) any existing or proposed easements on the relevant land and their function any access limitation strips all existing and proposed roads and access points on the relevant land. 	<input checked="" type="checkbox"/> Confirmed	

A statement about how the proposed development addresses the local government's planning schemes and any other planning documents relevant to the application.	<input checked="" type="checkbox"/> Confirmed	
A statement addressing the relevant part(s) of the State Development Assessment Provisions (SDAP).	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Applications for building work (including extensions and demolition that is assessable development)		
Floor plans drawn to an appropriate scale (1:50, 1:100 or 1:200 are recommended scales) which show the following: <ul style="list-style-type: none"> the north point the intended use of each area on the floor plan (for commercial, industrial or mixed use developments only) the room layout (for residential development only) with all rooms clearly labelled the existing and the proposed built form (for extensions only) the gross floor area of each proposed floor area. 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Elevations drawn to an appropriate scale (1:100, 1:200 or 1:500 are recommended scales) which show plans of all building elevations and facades, clearly labelled to identify orientation (e.g. north elevation).	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Plans showing the size, location, proposed site cover, proposed maximum number of storeys, and proposed maximum height above natural ground level of the proposed new building work.	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Plans showing the extent of any demolition that is assessable development.	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Applications for operational work involving earthworks (filling and excavating)		
Drawings showing: <ul style="list-style-type: none"> existing and proposed contours areas to be cut and filled the location and level of any permanent survey marks or reference stations used as datum for the works the location of any proposed retaining walls on the relevant land and their height the defined flood level (if applicable) the fill level (if applicable). 	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	
Applications for operational work involving roadworks		
Drawings showing: <ul style="list-style-type: none"> existing and proposed contours the centreline or construction line showing chainages, bearings, offsets if the construction line is not the centreline of the road and all intersection points information for each curve including tangent point chainages and offsets, curve radii, arc length, tangent length, superelevation (if applicable) and curve widening (if applicable) kerb lines including kerb radii (where not parallel to centreline) and tangent point changes (where not parallel to centreline) edge of pavement where kerb is not constructed position and extent of channelisation location and details of all traffic signs, guideposts, guardrail and other street furniture pavement markings including details on raised pavement markers 	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	

<ul style="list-style-type: none"> • catchpit, manhole and pipeline locations • drainage details (if applicable) • cross road drainage culverts (if applicable) • concrete footpaths and cycle paths • location and details for access points, ramps and invert crossings • changes in surfacing material. 		
Applications for operational work involving stormwater drainage		
<p>Drawings showing:</p> <ul style="list-style-type: none"> • existing and proposed contours • drainage locations, diameters and class of pipe, open drains and easements • manhole location, chainage and offset or coordinates and inlet and outlet invert levels • inlet pit locations, chainage and offset or coordinates and invert and kerb levels. 	<input checked="" type="checkbox"/> Confirmed <input type="checkbox"/> Not applicable	
Applications for operational work involving water reticulation		
<p>Drawings showing:</p> <ul style="list-style-type: none"> • kerb lines or edge of pavement where kerb is not constructed • location and levels of other utility services where affected by water reticulation works • pipe diameter, type of pipe and pipe alignment • water main alignments • water supply pump station details (if applicable) • minor reservoir details (if applicable) • conduits • location of valves and fire hydrants • location of house connections (if applicable) • location of bench marks and reference pegs. 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Applications for operational work involving sewerage reticulation		
<p>Drawings showing:</p> <ul style="list-style-type: none"> • location of all existing and proposed services • location of all existing and proposed sewer lines and manhole locations • location of all house connection branches • kerb lines or edge of pavement where kerb is not constructed • chainages • design sewer invert levels • design top of manhole levels • type of manhole and manhole cover • pipe diameter, type of pipe and pipe alignment • location of house connections (if applicable) • sewer pump station details (if applicable). 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Applications for operational work involving street lighting		
<p>Drawings showing:</p> <ul style="list-style-type: none"> • location of all light poles and service conduits • location of all other cross road conduits • type of wattage and lighting • any traffic calming devices • additional plans for roundabouts and major roads (if applicable) • details of any variations to normal alignment 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	

<ul style="list-style-type: none"> • details of lighting levels. 		
Applications for operational work involving public utility services		
Drawings showing: <ul style="list-style-type: none"> • any existing light poles and power poles • any existing underground services • details of proposed services • alteration to existing services. 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	
Applications for operational work involving landscaping works		
Drawings showing: <ul style="list-style-type: none"> • the location of proposed plant species • a plant schedule indicating common and botanical names, pot sizes and numbers of plants • planting bed preparation details including topsoil depth, subgrade preparation, mulch type and depth, type of turf, pebble, paving and garden edge • the location and type of any existing trees to be retained • construction details of planter boxes, retaining walls and fences • the proposed maintenance period • irrigation system details. 	<input type="checkbox"/> Confirmed <input checked="" type="checkbox"/> Not applicable	

Privacy—Please refer to your assessment manager, referral agency and/or building certifier for further details on the use of information recorded in this form.

OFFICE USE ONLY

Date received

Reference numbers

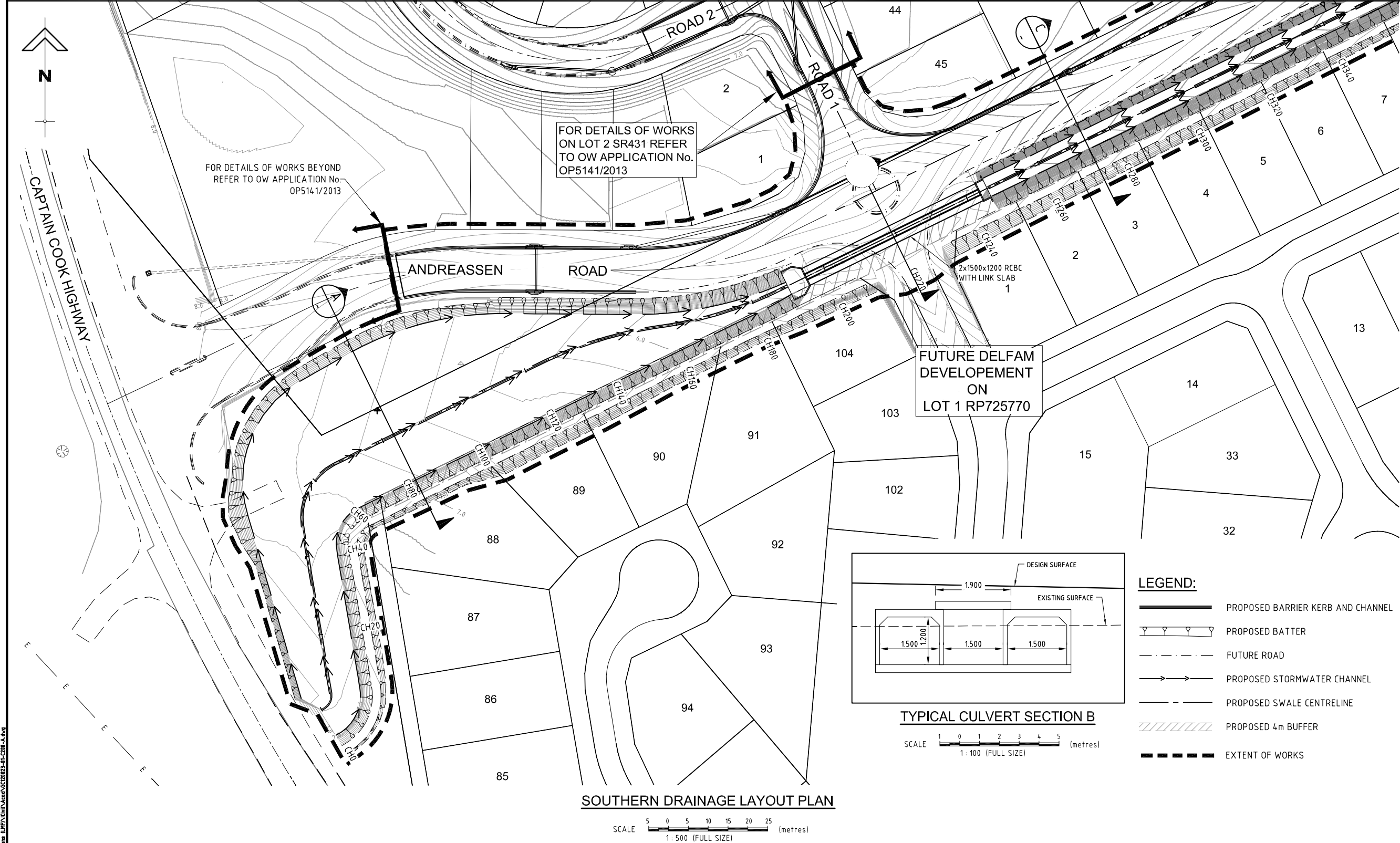
The *Sustainable Planning Act 2009* is administered by the Department of State Development, Infrastructure and Planning. This form and all other required application materials should be sent to your assessment manager and any referral agency.

PART 2: SUPPORTING DOCUMENTS AND CODES

- N/A

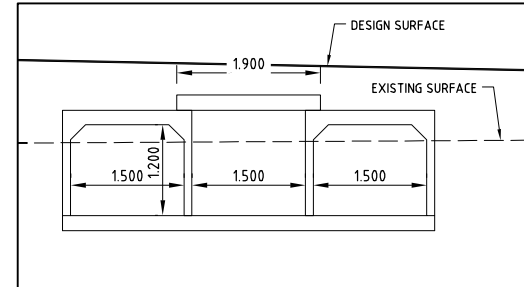
PART 3: PLANS AND DRAWINGS

- **BURCHILLS ENGINEERING DRAWINGS**



SOUTHERN DRAINAGE LAYOUT PLAN

SCALE 1:500 (FULL SIZE)

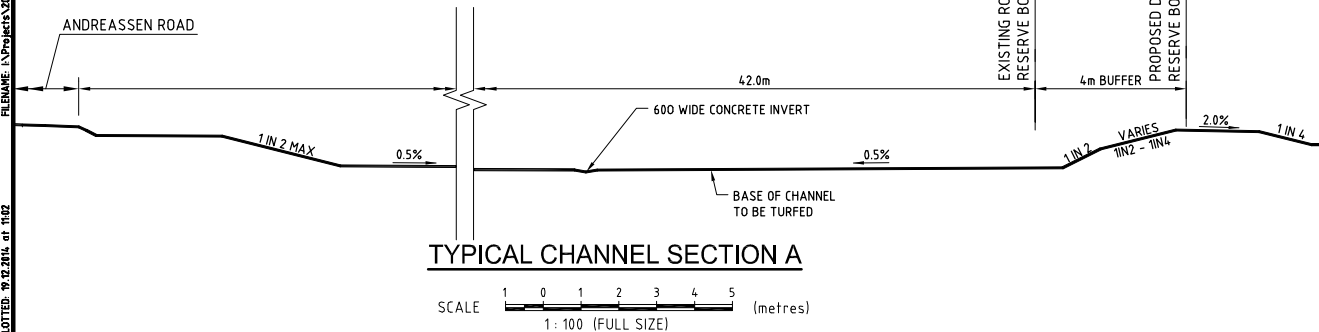


TYPICAL CULVERT SECTION B

SCALE 1:100 (FULL SIZE)

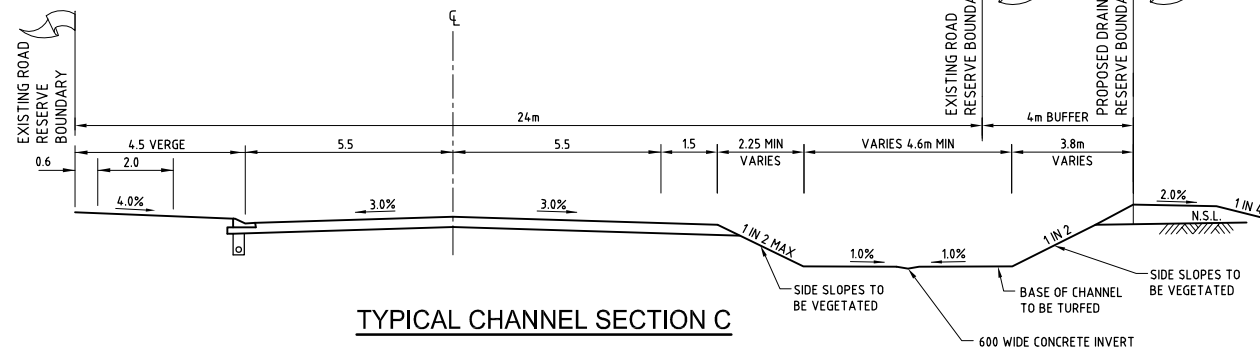
LEGEND:

- PROPOSED BARRIER KERB AND CHANNEL
- PROPOSED BATTER
- FUTURE ROAD
- PROPOSED STORMWATER CHANNEL
- PROPOSED SWALE CENTRELINE
- PROPOSED 4m BUFFER
- EXTENT OF WORKS



TYPICAL CHANNEL SECTION A

SCALE 1:100 (FULL SIZE)



TYPICAL CHANNEL SECTION C

SCALE 1:100 (FULL SIZE)

DOUGLAS GARDENS

STAGE 1

CAPTAIN COOK
HIGHWAY AND
ANDREASSEN ROAD
CRAIGLIE

prepared for

PORT DOUGLAS LAND
DEVELOPMENTS PTY LTD

A1 ORIGINAL SIZE BEFORE REDUCTION

VER.	DESCRIPTION	APPR.	DATE
A	ORIGINAL ISSUE		19-12-14

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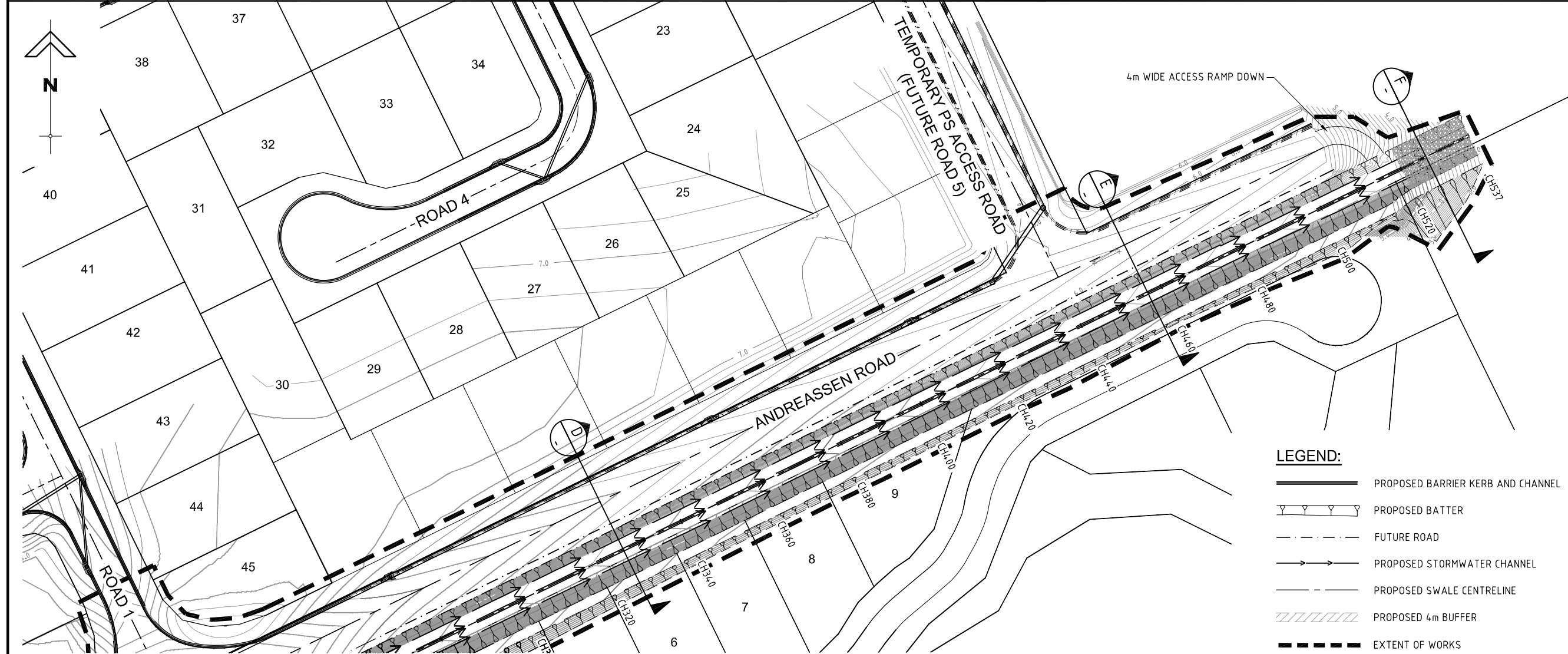


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Email: admh@burchills.com.au
Coote Burchills Engineering Pty Ltd
ABN 76 166 942 365

PROJECT:
**ANDREASSEN ROAD
DRAINAGE CHANNEL**

DRAWING TITLE:
**SOUTHERN DRAINAGE
CHANNEL LAYOUT PLAN AND
TYPICAL SECTIONS
SHEET 1 OF 2**

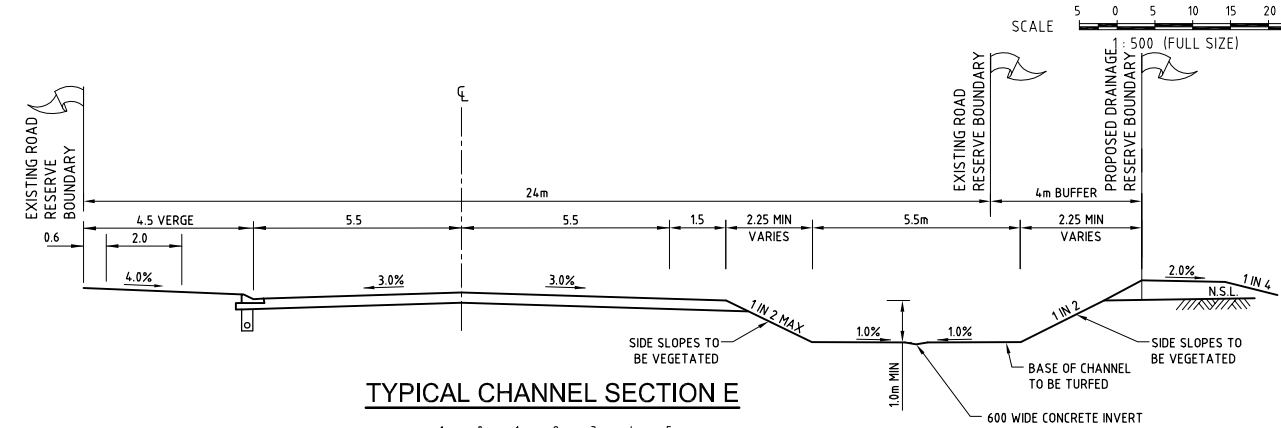
DEVEL. APPLIC. No.:	8/13/1547	DATE:	19-12-14
PROJECT LEADER:	PHILIP BELL		
DESIGNER:	JEREMY FLYNN		
DRAFTSPERSON:	JEREMY FLYNN		
CHECKED:	PHILIP BELL		
APPROVED FOR AND ON BEHALF OF	BURCHILLS ENGINEERING SOLUTIONS	ABN 76 166 942 365	
RPEQ No.:	1802		
SCALE:	AS NOTED	DATUM:	AHD
PROJECT No.:	GC120023-01	DRAWING No.:	C200
		VERSION:	A



SOUTHERN DRAINAGE LAYOUT PLAN

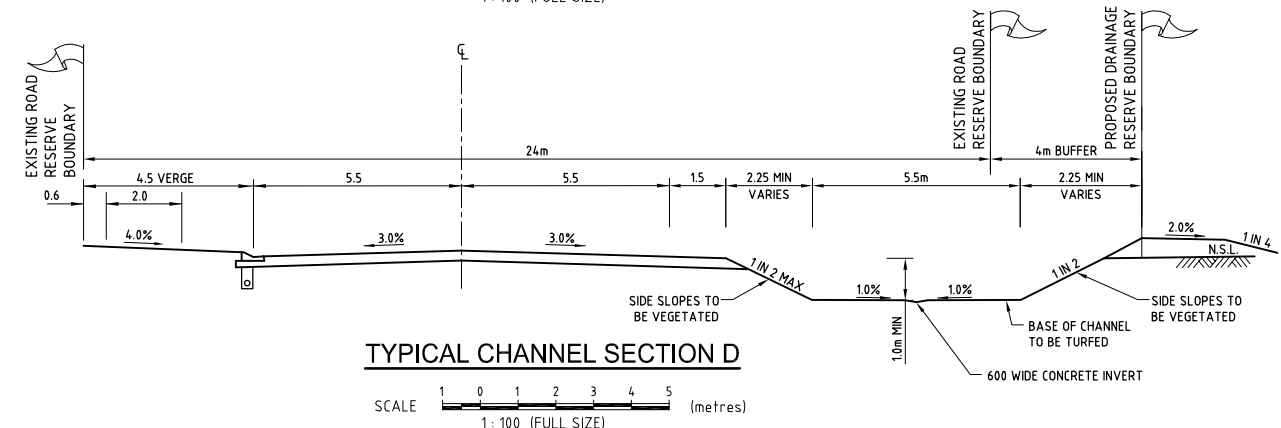
LEGEND:

- PROPOSED BARRIER KERB AND CHANNEL
- PROPOSED BATTER
- FUTURE ROAD
- PROPOSED STORMWATER CHANNEL
- PROPOSED SWALE CENTRELINE
- PROPOSED 4m BUFFER
- EXTENT OF WORKS



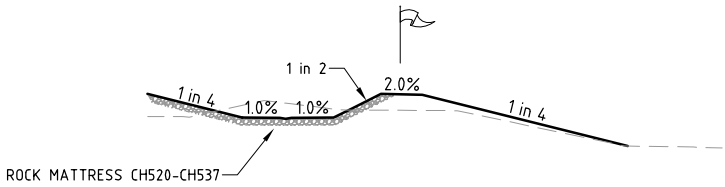
TYPICAL CHANNEL SECTION E

SCALE 1:100 (FULL SIZE)



TYPICAL CHANNEL SECTION D

SCALE 1:100 (FULL SIZE)



TYPICAL CHANNEL SECTION F

SCALE 1:200 (FULL SIZE)

DOUGLAS GARDENS

STAGE 1

CAPTAIN COOK HIGHWAY AND ANDREASSEN ROAD CRAIGLIE

prepared for

PORT DOUGLAS LAND DEVELOPMENTS PTY LTD

A1 ORIGINAL SIZE BEFORE REDUCTION

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Coote Burchills Engineering Pty Ltd
ABN 76 166 942 365

PROJECT:
ANDREASSEN ROAD DRAINAGE CHANNEL

DRAWING TITLE:
SOUTHERN DRAINAGE CHANNEL LAYOUT PLAN AND TYPICAL SECTIONS SHEET 2 OF 2

DEVEL. APPLIC. No.:	8/13/1547	DATE:	19-12-14
PROJECT LEADER:	PHILIP BELL		
DESIGNER:	JEREMY FLYNN		
DRAFTSPERSON:	JEREMY FLYNN		
CHECKED:	PHILIP BELL		
APPROVED FOR AND ON BEHALF OF Burchills Engineering Solutions	ABN 76 166 942 365		
SCALE:	AS NOTED	DATUM:	AHD
PROJECT No.:	GC120023-01	DRAWING No.:	C201
		VERSION:	A

DOUGLAS
GARDENS

STAGE 1

CAPTAIN COOK
HIGHWAY AND
ANDREASSEN ROAD
CRAIGLIE

prepared for

PORT DOUGLAS LAND
DEVELOPMENTS PTY LTD

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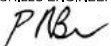
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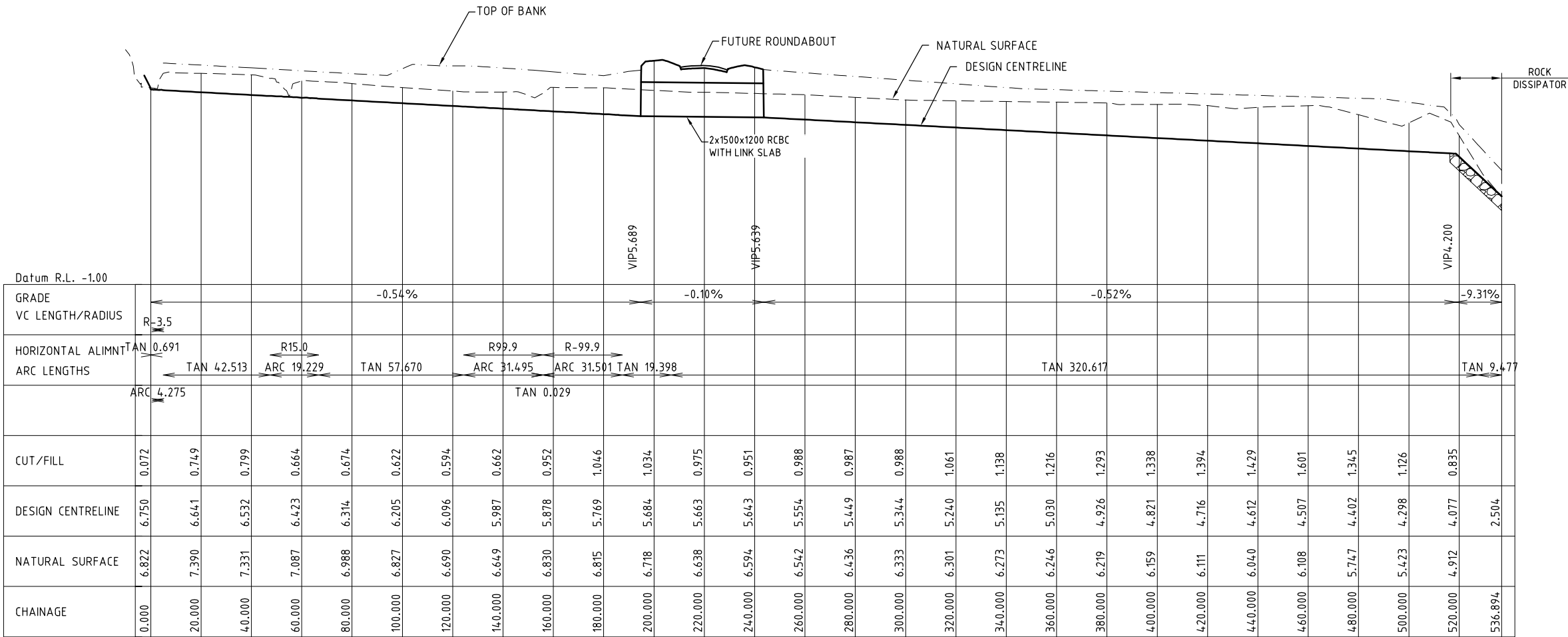
PROJECT:

ANDREASSEN ROAD
DRAINAGE CHANNEL

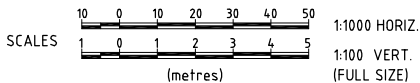
DRAWING TITLE :

SOUTHERN DRAINAGE
CHANNEL LONGITUDINAL
SECTION

DEVEL. APPLIC. No.:	8/13/1547	DATE :	19-12-14
PROJECT LEADER :	PHILIP BELL		
DESIGNER :	JEREMY FLYNN		
DRAFTSPERSON :	JEREMY FLYNN		
CHECKED :	PHILIP BELL		
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365  RPEQ No.: 1802			
SCALE :	AS NOTED	DATUM :	AHD
PROJECT No.:	GC120023-01	DRAWING No.:	C202
		VERSION:	A



SOUTHERN DRAINAGE CHANNEL
LONGITUDINAL SECTION



DOUGLAS GARDENS

STAGE 1

CAPTAIN COOK HIGHWAY AND ANDREASSEN ROAD CRAIGLIE

prepared for
PORT DOUGLAS LAND DEVELOPMENTS PTY LTD

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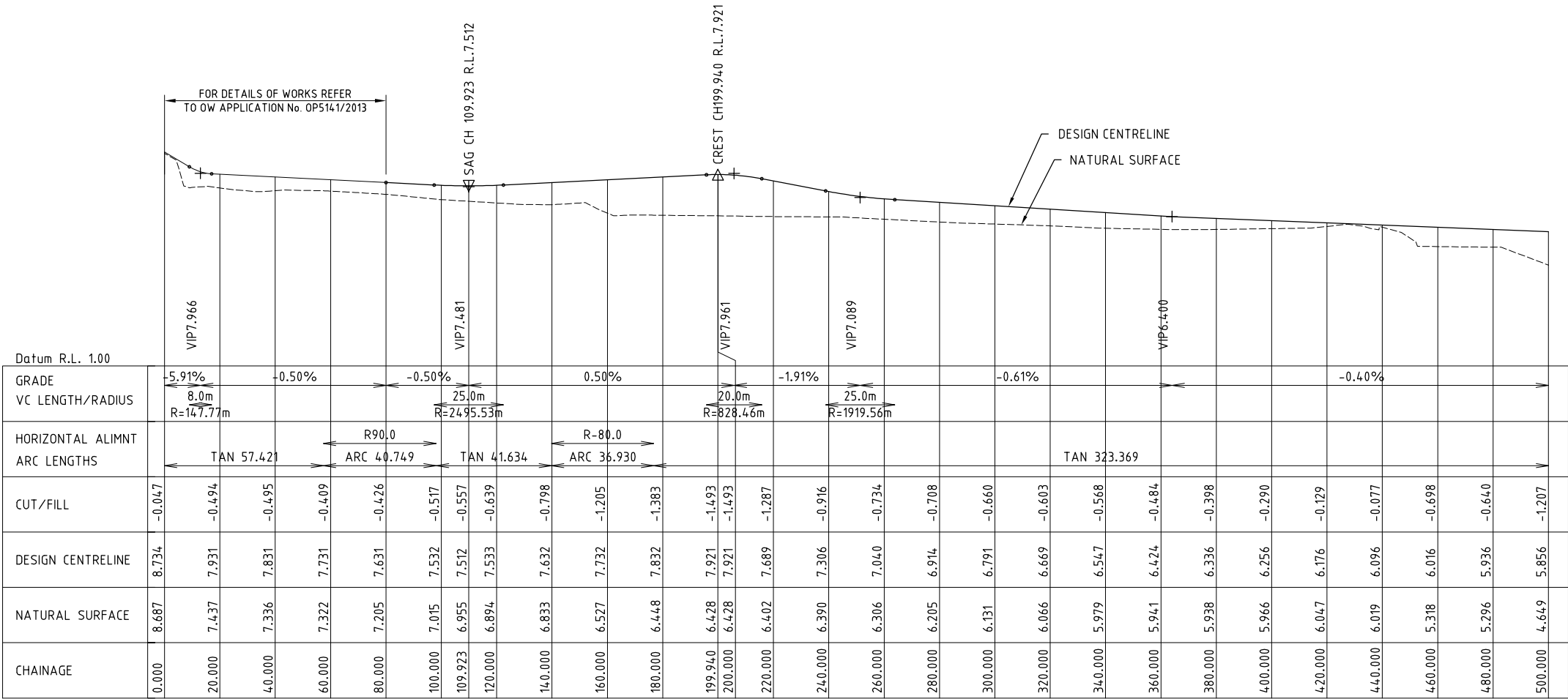


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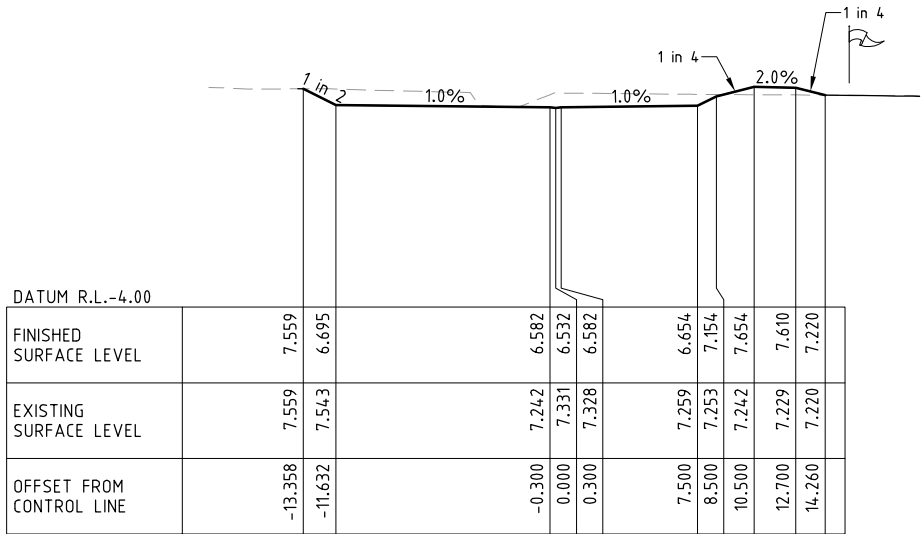
PROJECT:
ANDREASSEN ROAD DRAINAGE CHANNEL

DRAWING TITLE:
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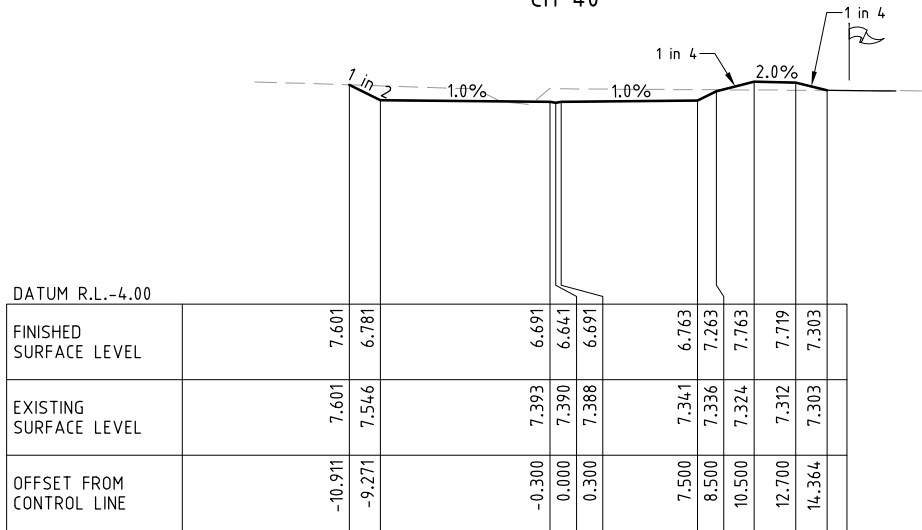
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PROJECT LEADER:	PHILIP BELL		
DESIGNER:	JEREMY FLYNN		
DRAFTSPERSON:	JEREMY FLYNN		
CHECKED:	PHILIP BELL		
APPROVED FOR AND ON BEHALF OF BURCHILLS ENGINEERING SOLUTIONS ABN 76 166 942 365 <i>PJB</i> RPEQ No.: 1802			
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PROJECT No.:	GC120023-01	DRAWING No.:	C203
		VERSION:	A



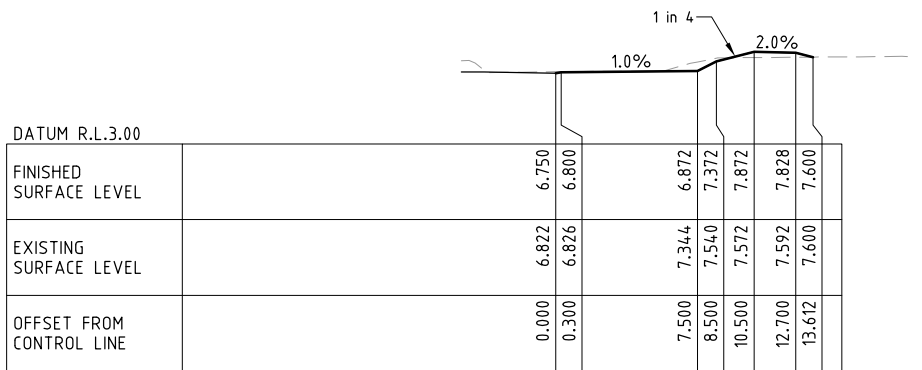
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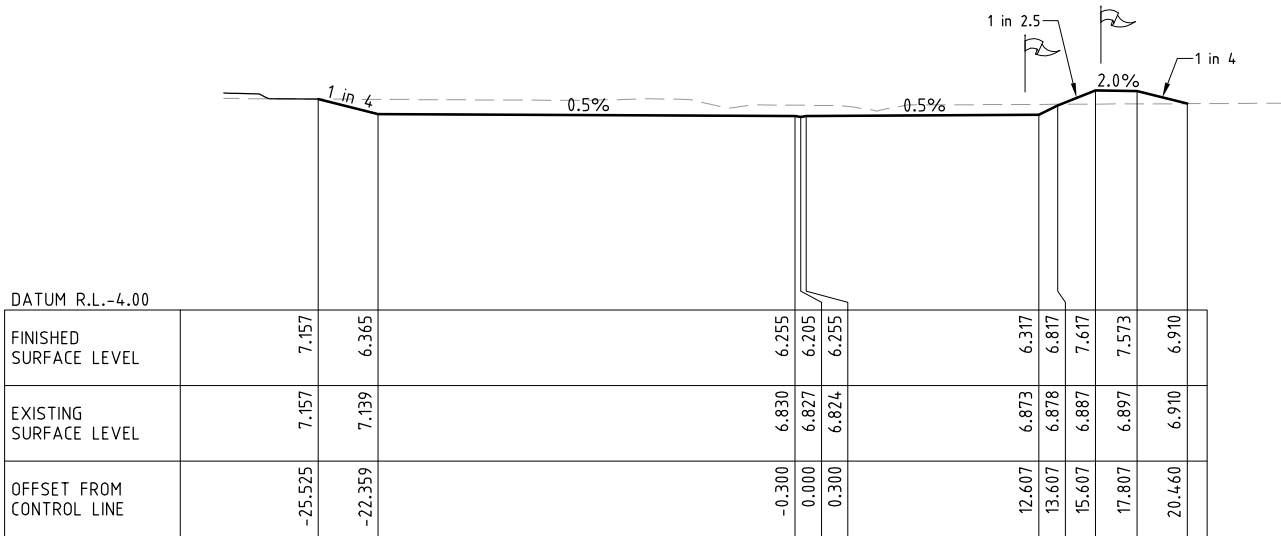
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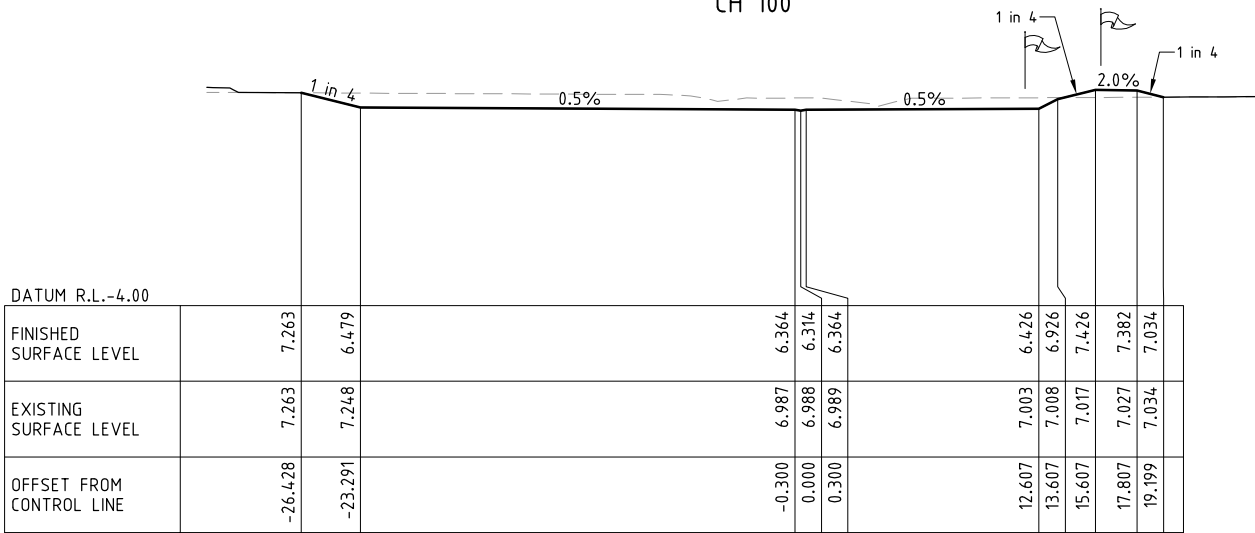
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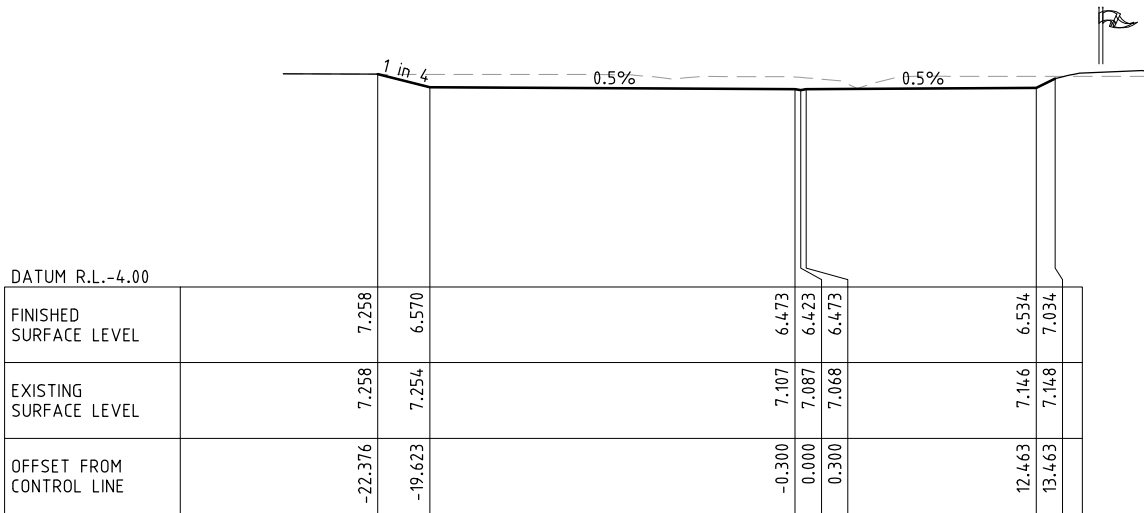
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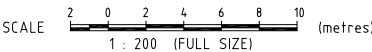


CH 80



CH 60

CHANNEL CROSS SECTIONS



LEGEND:

- RESERVE BOUNDARY
- EXISTING SURFACE
- DESIGN SURFACE

DOUGLAS GARDENS

STAGE 1

CAPTAIN COOK HIGHWAY AND ANDREASSEN ROAD CRAIGLIE

prepared for
PORT DOUGLAS LAND DEVELOPMENTS PTY LTD

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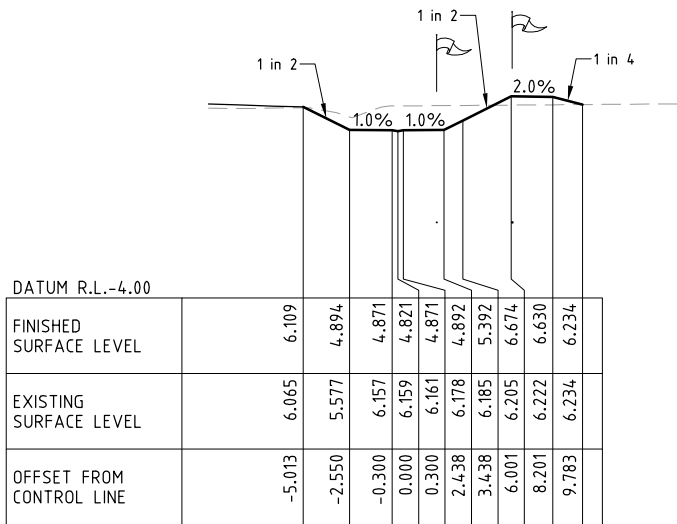
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PROJECT:
ANDREASSEN ROAD DRAINAGE CHANNEL

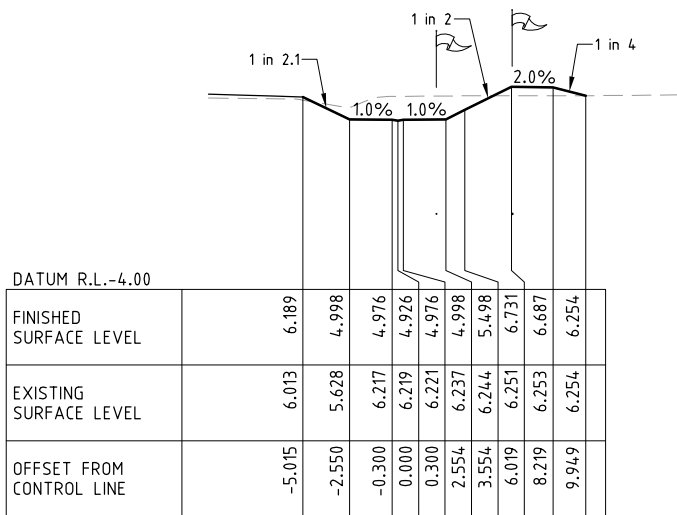
DRAWING TITLE:
SOUTHERN DRAINAGE CHANNEL CROSS SECTIONS SHEET 1 OF 3

DEVEL. APPLIC. No.:	8/13/1547	DATE:	19-12-14
PROJECT LEADER:	PHILIP BELL		
DESIGNER:	JEREMY FLYNN		
DRAFTSPERSON:	JEREMY FLYNN		
CHECKED:	PHILIP BELL		
APPROVED FOR AND ON BEHALF OF	BURCHILLS ENGINEERING SOLUTIONS	ABN 76 166 942 365	RPEQ No.: 1802
SCALE:	AS NOTED	DATUM:	AHD
PROJECT No.:	GC120023-01	DRAWING No.:	C210
		VERSION:	A

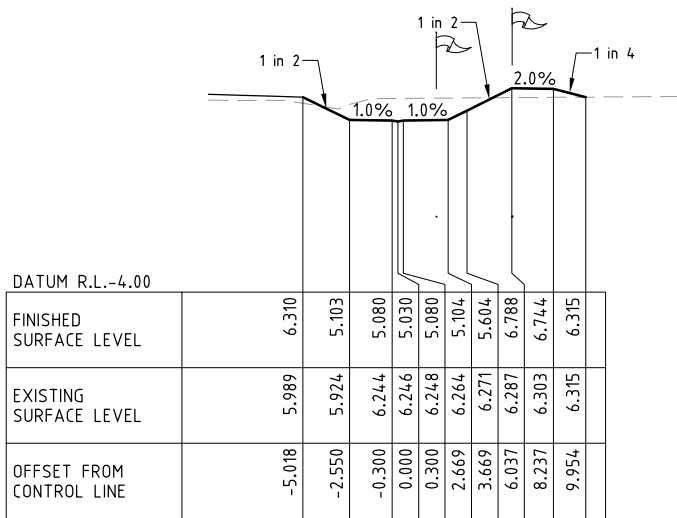
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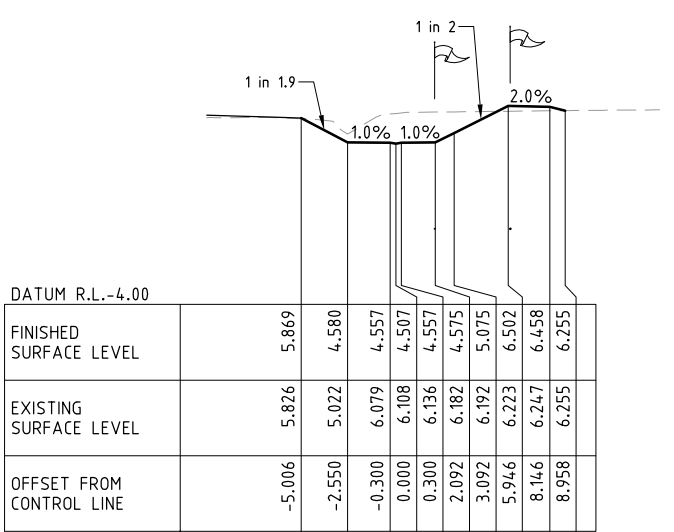
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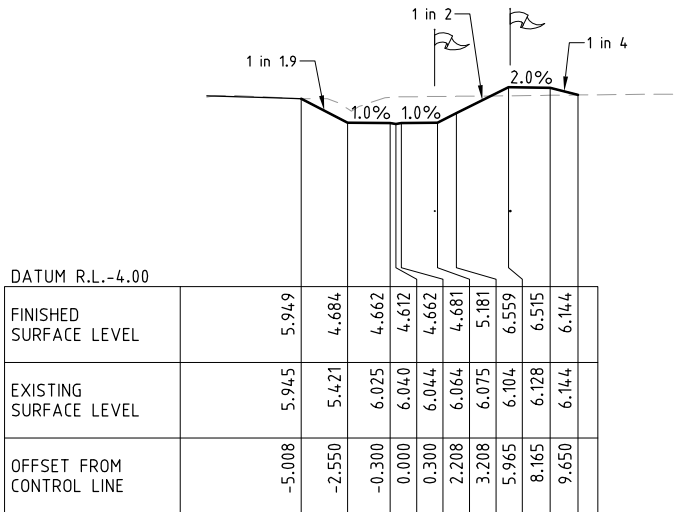
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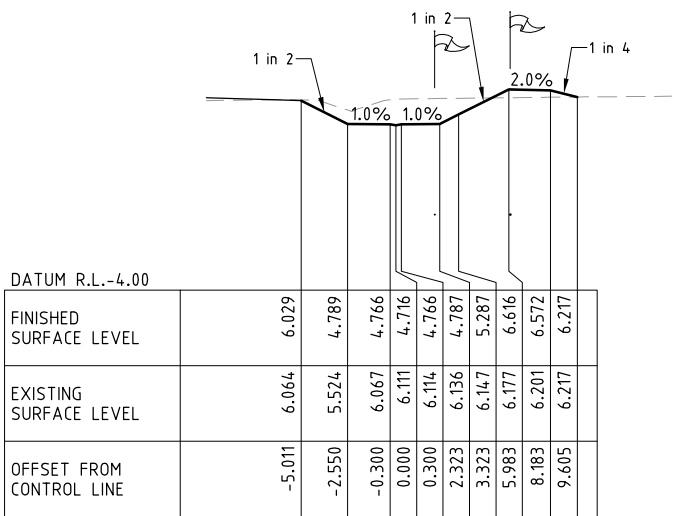
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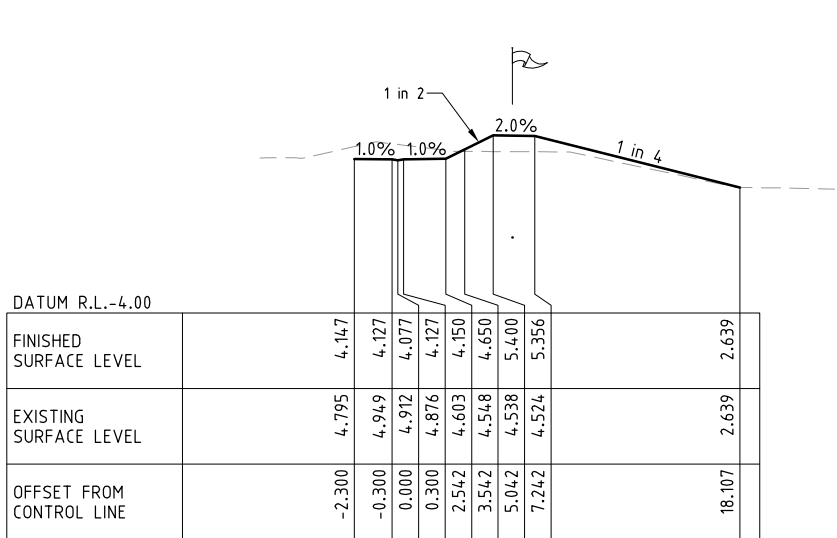
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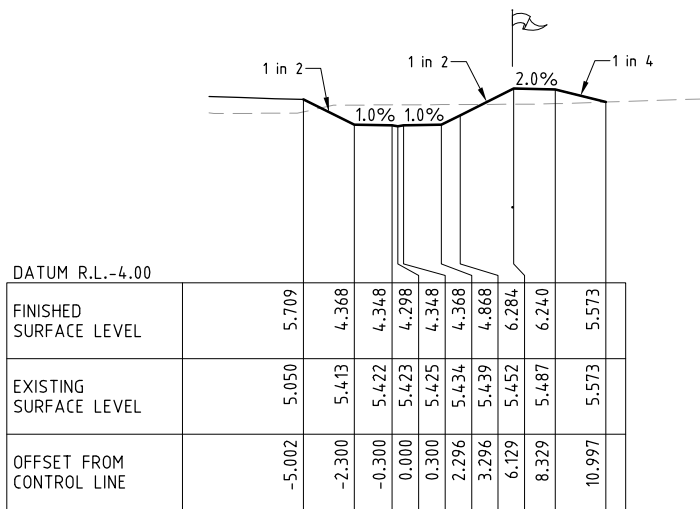
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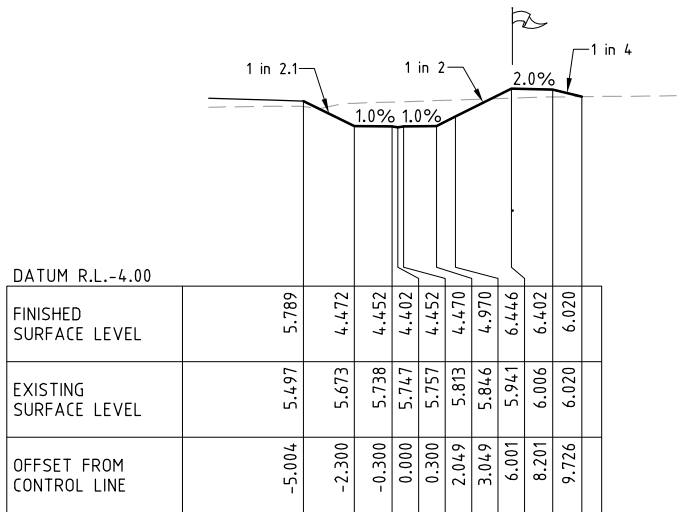
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CH 520

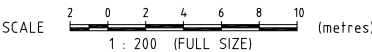


CH 500



CH 480

CHANNEL CROSS SECTIONS



LEGEND:

- RESERVE BOUNDARY
- EXISTING SURFACE
- DESIGN SURFACE

DOUGLAS GARDENS

STAGE 1

CAPTAIN COOK
HIGHWAY AND
ANDREASSEN ROAD
CRAIGLIE

prepared for

PORT DOUGLAS LAND
DEVELOPMENTS PTY LTD

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PROJECT:
**ANDREASSEN ROAD
DRAINAGE CHANNEL**

DRAWING TITLE:
**SOUTHERN DRAINAGE
CHANNEL CROSS SECTIONS
SHEET 3 OF 3**

DEVEL. APPLIC. No.:	8/13/1547	DATE:	17-12-14
PROJECT LEADER:	PHILIP BELL		
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CHECKED:	PHILIP BELL		
APPROVED FOR AND ON BEHALF OF	BURCHILLS ENGINEERING SOLUTIONS	ABN 76 166 942 365	
		RPEQ No.:	1802
SCALE:	AS NOTED	DATUM:	AHD
PROJECT No.:	GC120023-01	DRAWING No.:	C212
		VERSION:	A

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