

# Alfords Point Road Upgrade Brushwood Drive to the Georges River

Review of environmental factors VOLUME 2: APPENDICES A-F FEBRUARY 2013

> RMS 13.192 ISBN 978-1-922245-00-7

Appendix A Concept design plans

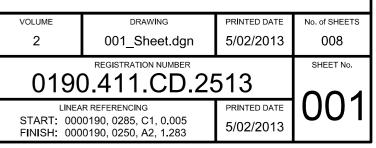


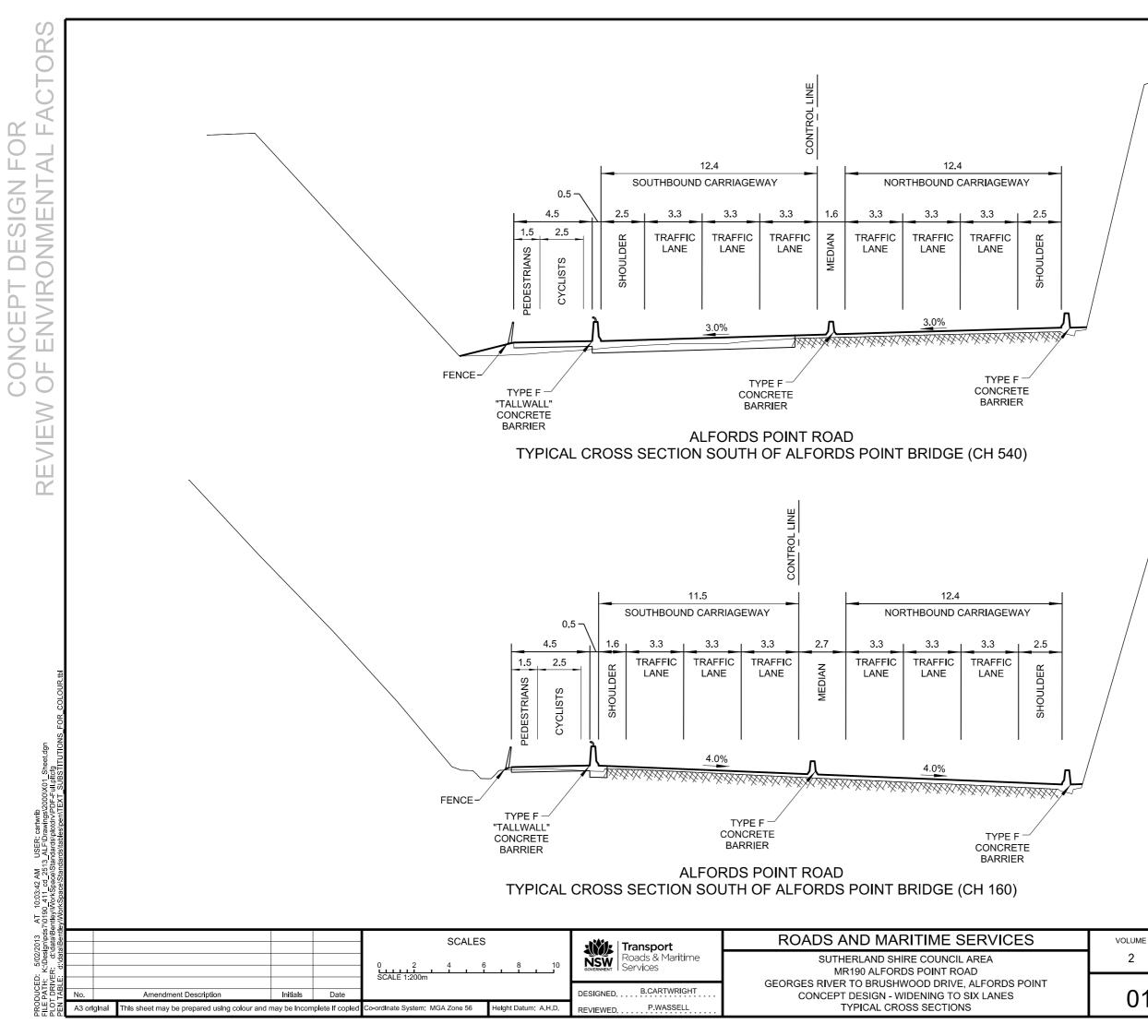
## ROADS AND MARITIME SERVICES

# SUTHERLAND SHIRE COUNCIL AREA MR 190 ALFORDS POINT ROAD ROAD UPGRADE BETWEEN THE SOUTHERN ABUTMENT OF ALFORDS POINT BRIDGE AND BRUSHWOOD DRIVE, ALFORDS POINT CONCEPT ROAD DESIGN



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<del>о</del> Щ	ENGINEERING TECHNOLOGY	TYPICAL CROSS SECTIONS	X01 - X03		
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PEN		STAGING	S01 - S05		



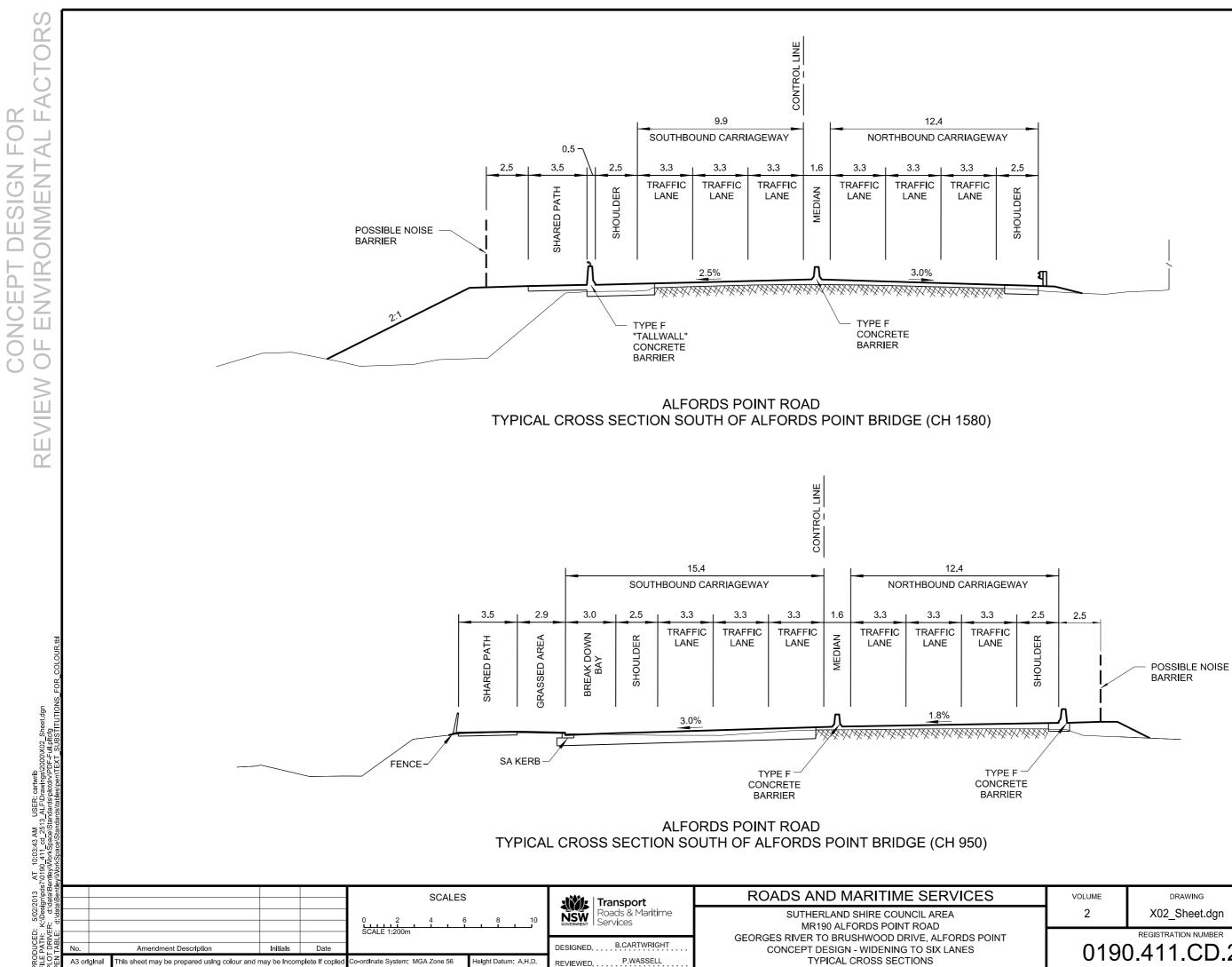




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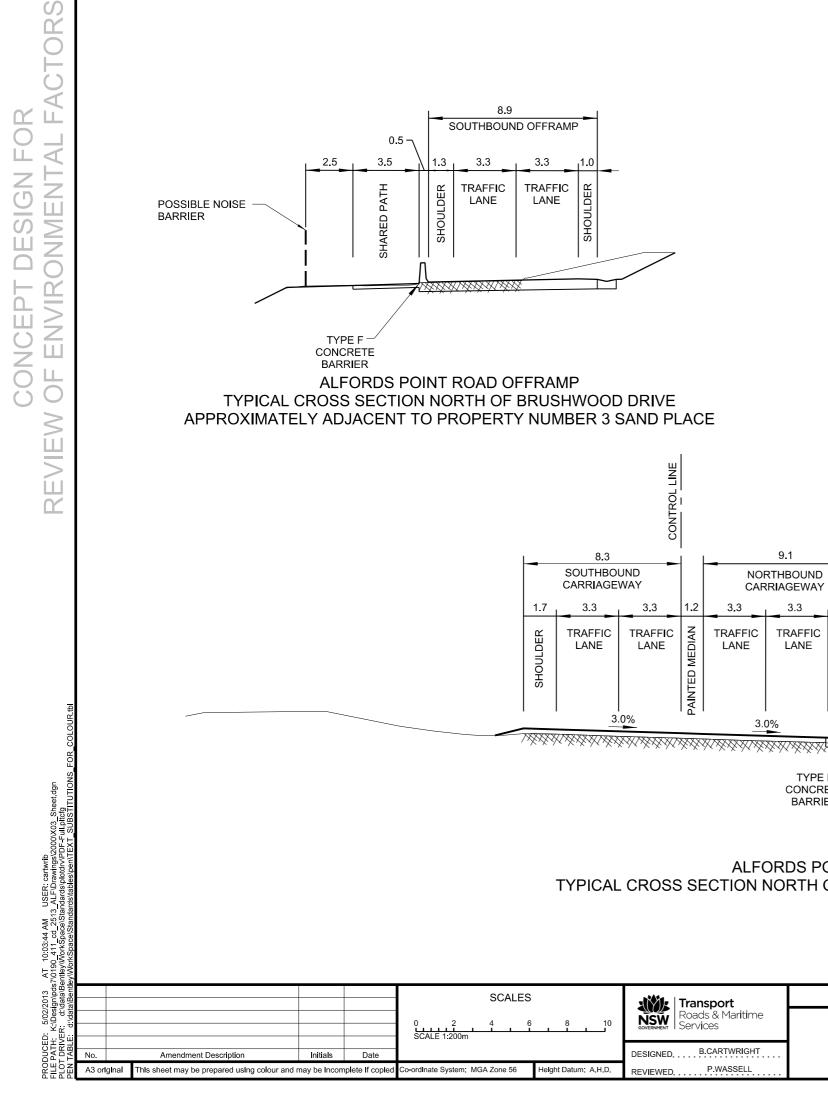


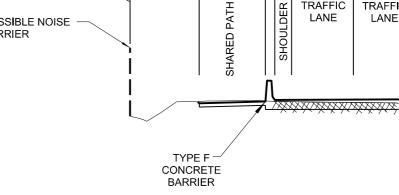
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5/02/2013





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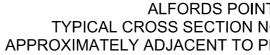
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NORTHBOUND ONRAMP

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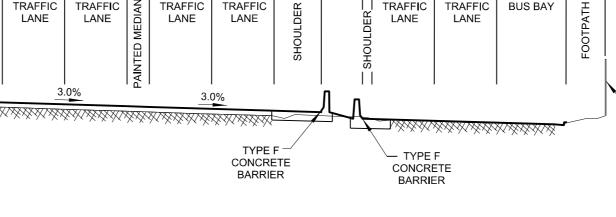
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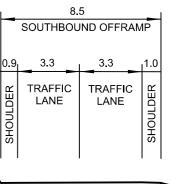


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ALFORDS POINT ROAD TYPICAL CROSS SECTION NORTH OF BRUSHWOOD DRIVE (CH 1860)

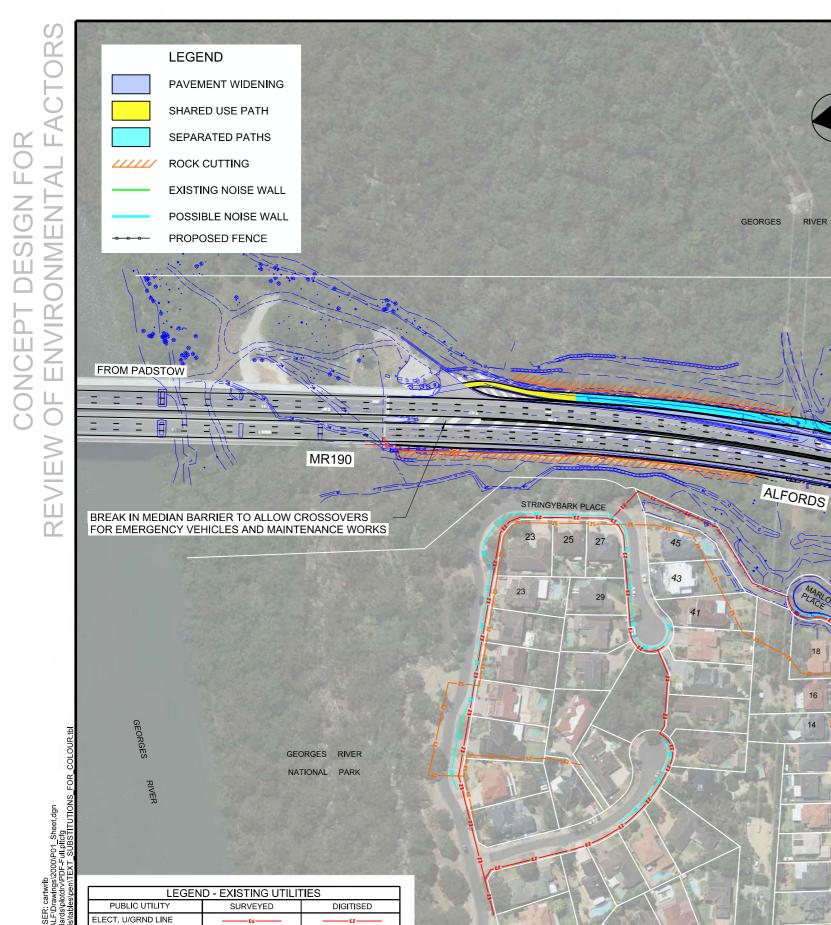
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#### ALFORDS POINT ROAD OFFRAMP TYPICAL CROSS SECTION NORTH OF BRUSHWOOD DRIVE APPROXIMATELY ADJACENT TO PROPERTY NUMBER 6 SHORE CLOSE

EXISTING NOISE WALL





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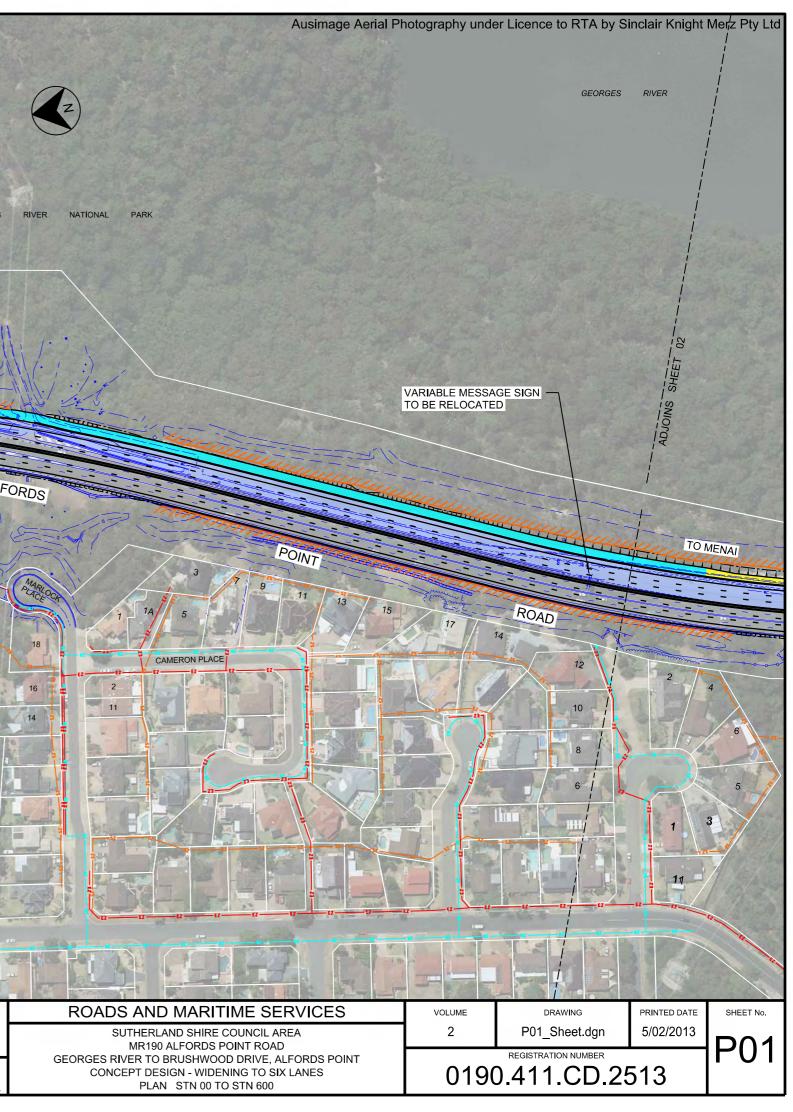
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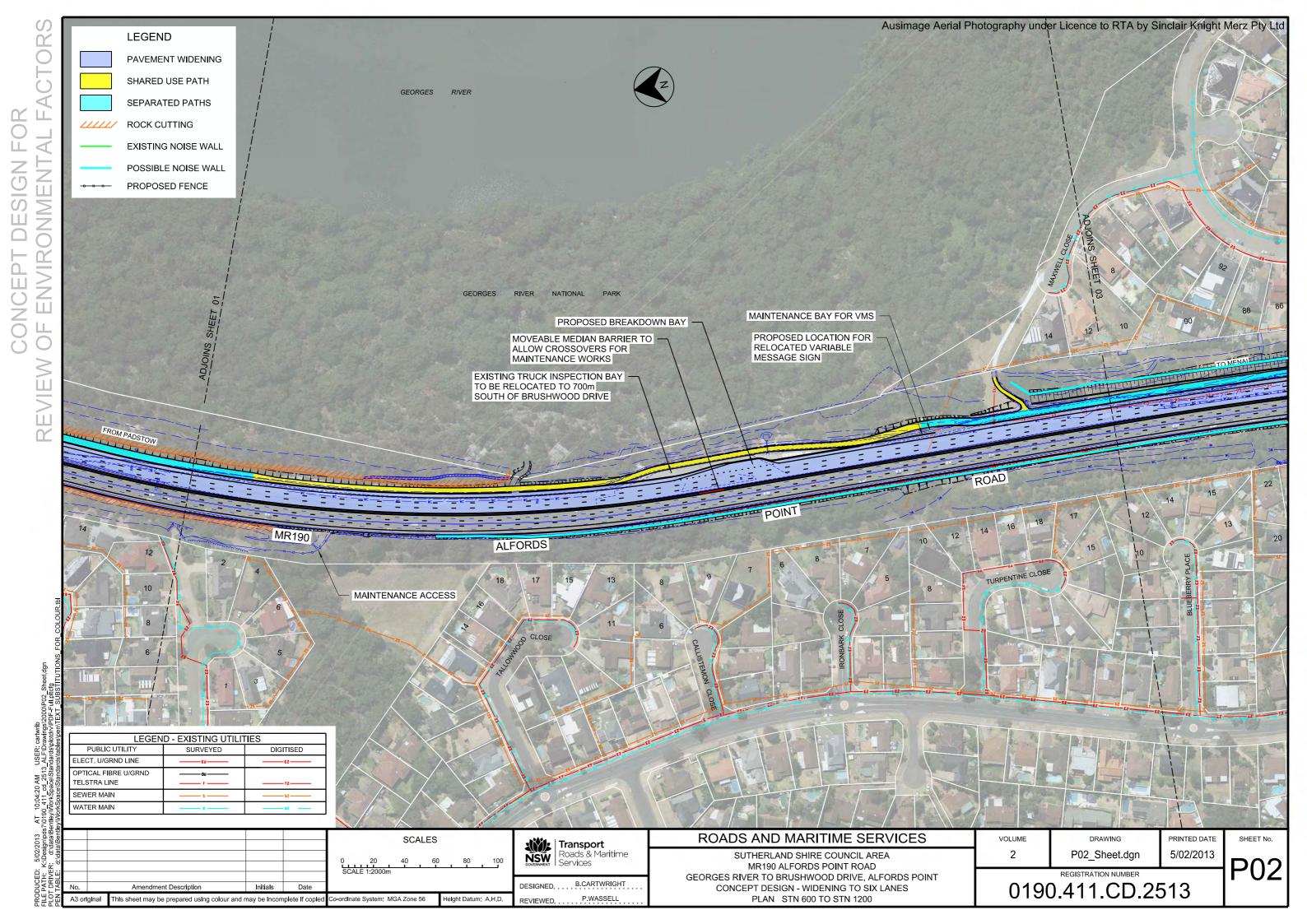
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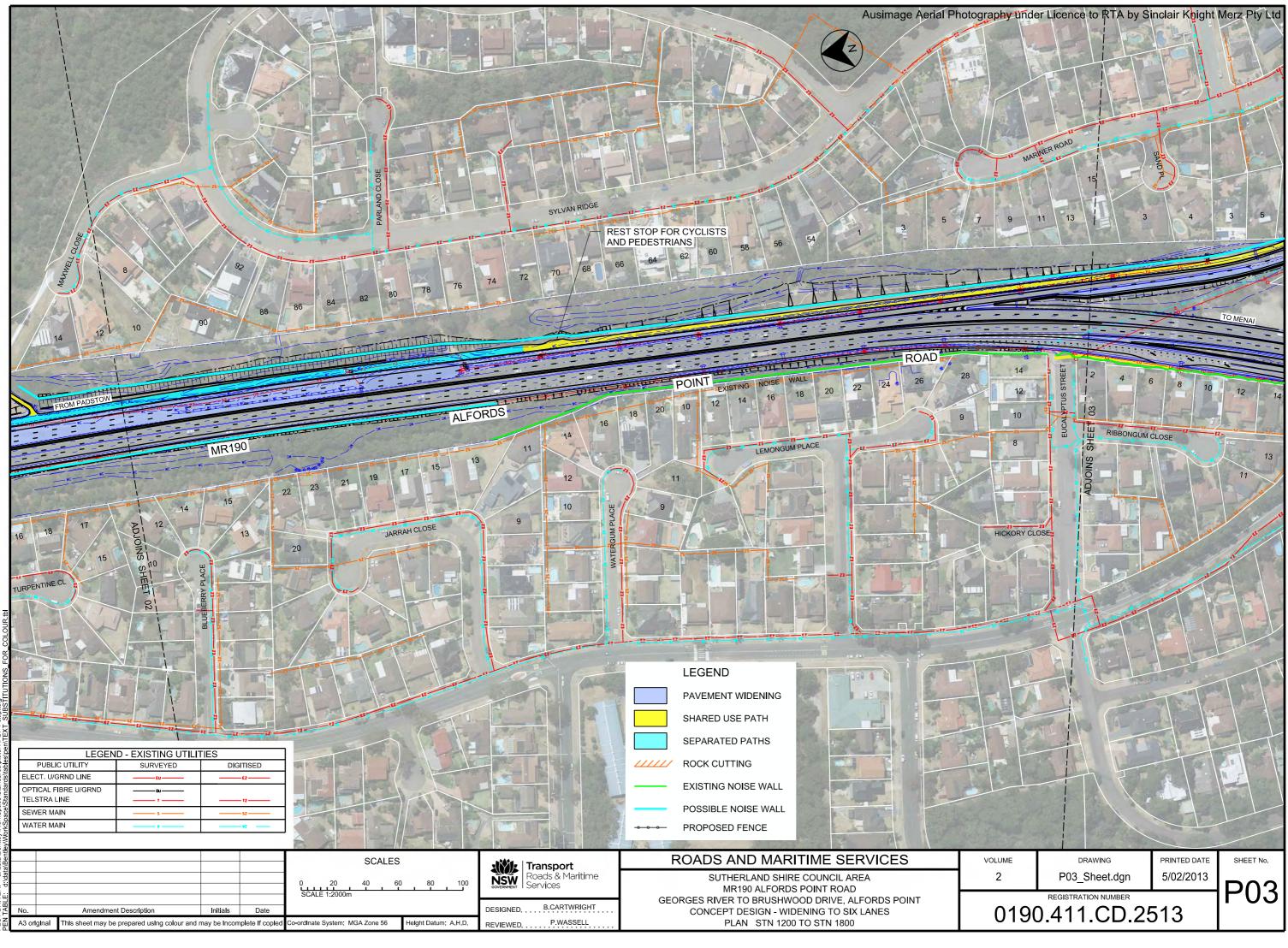


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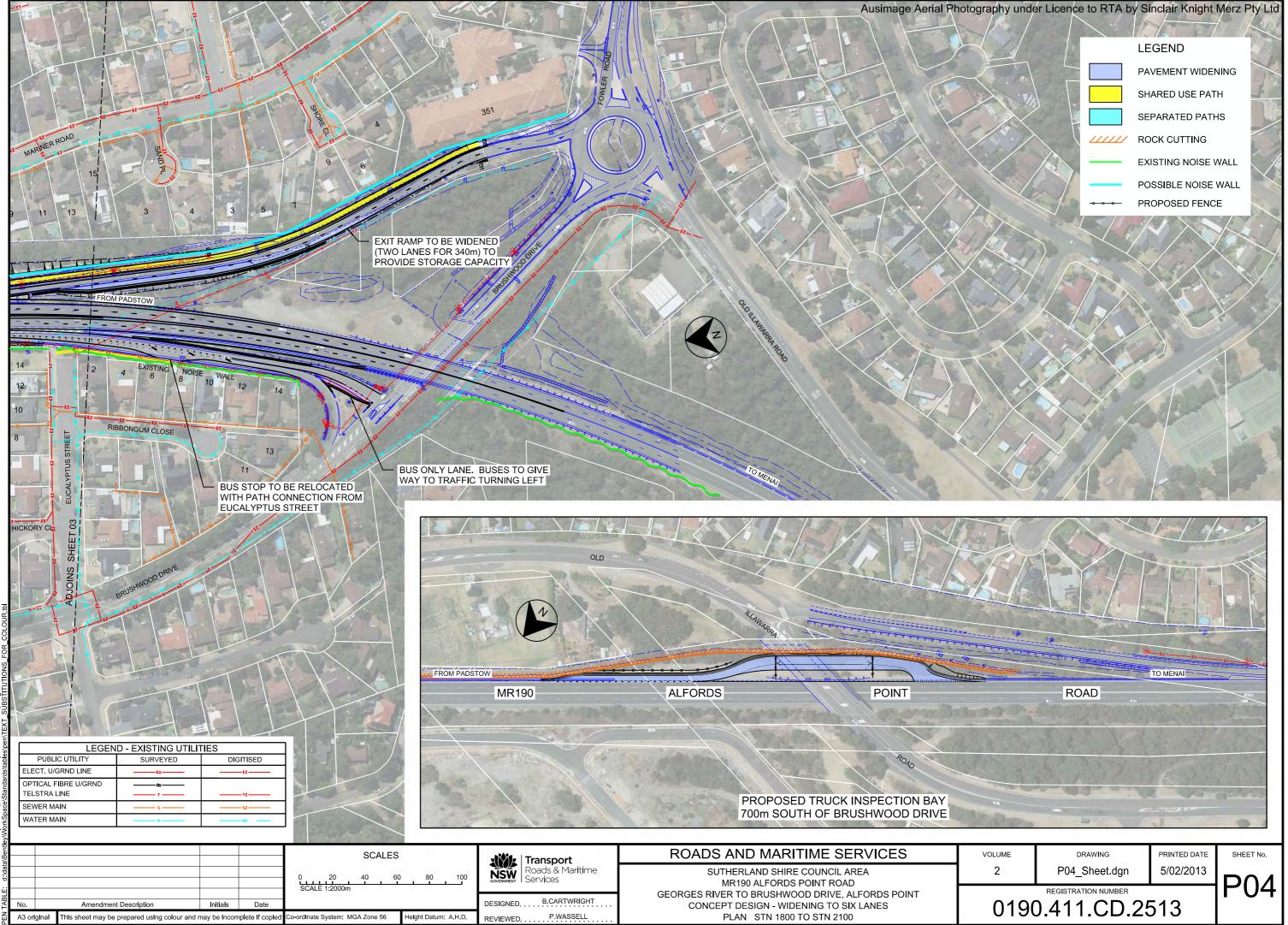
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Amendment Description



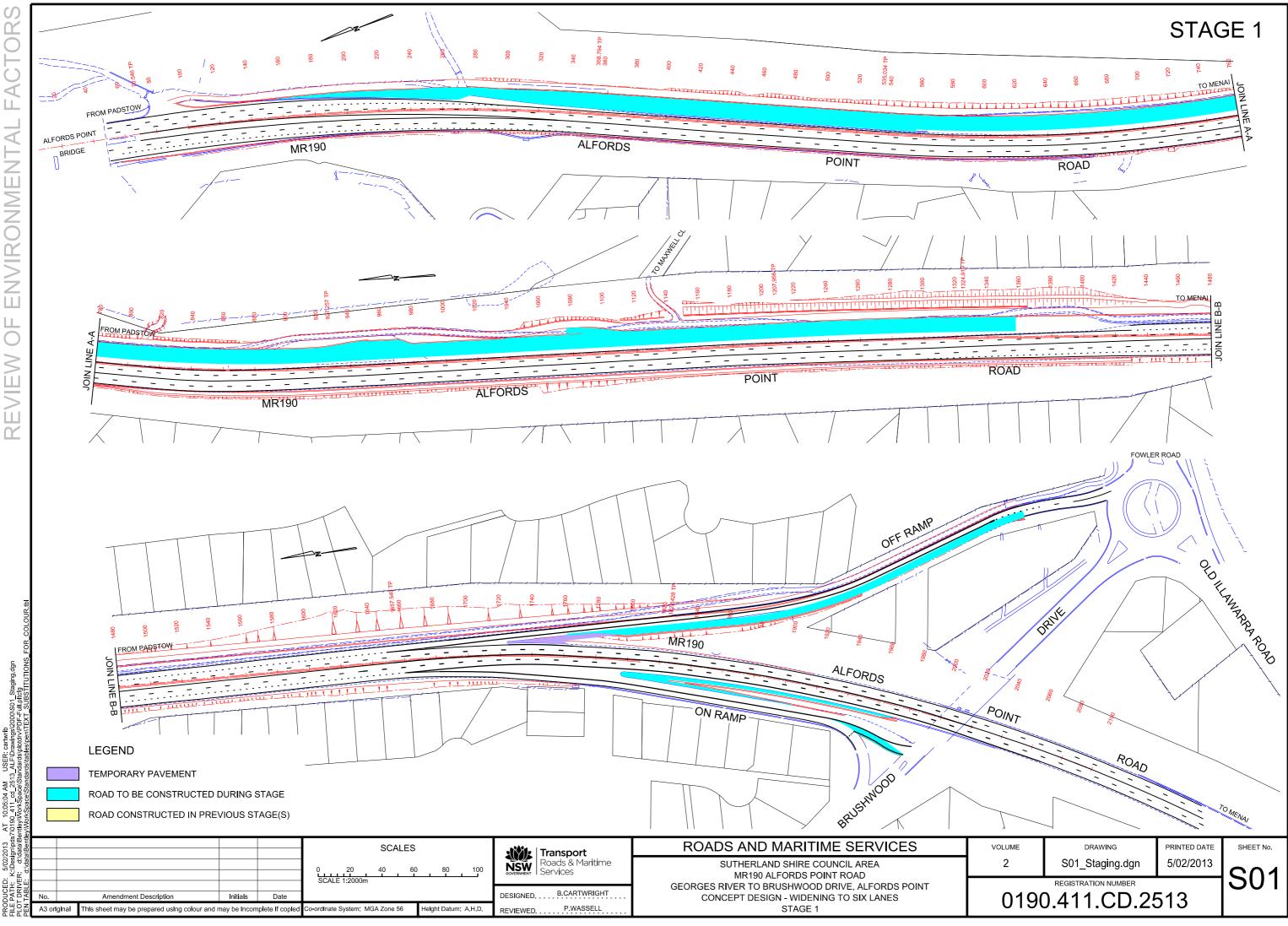


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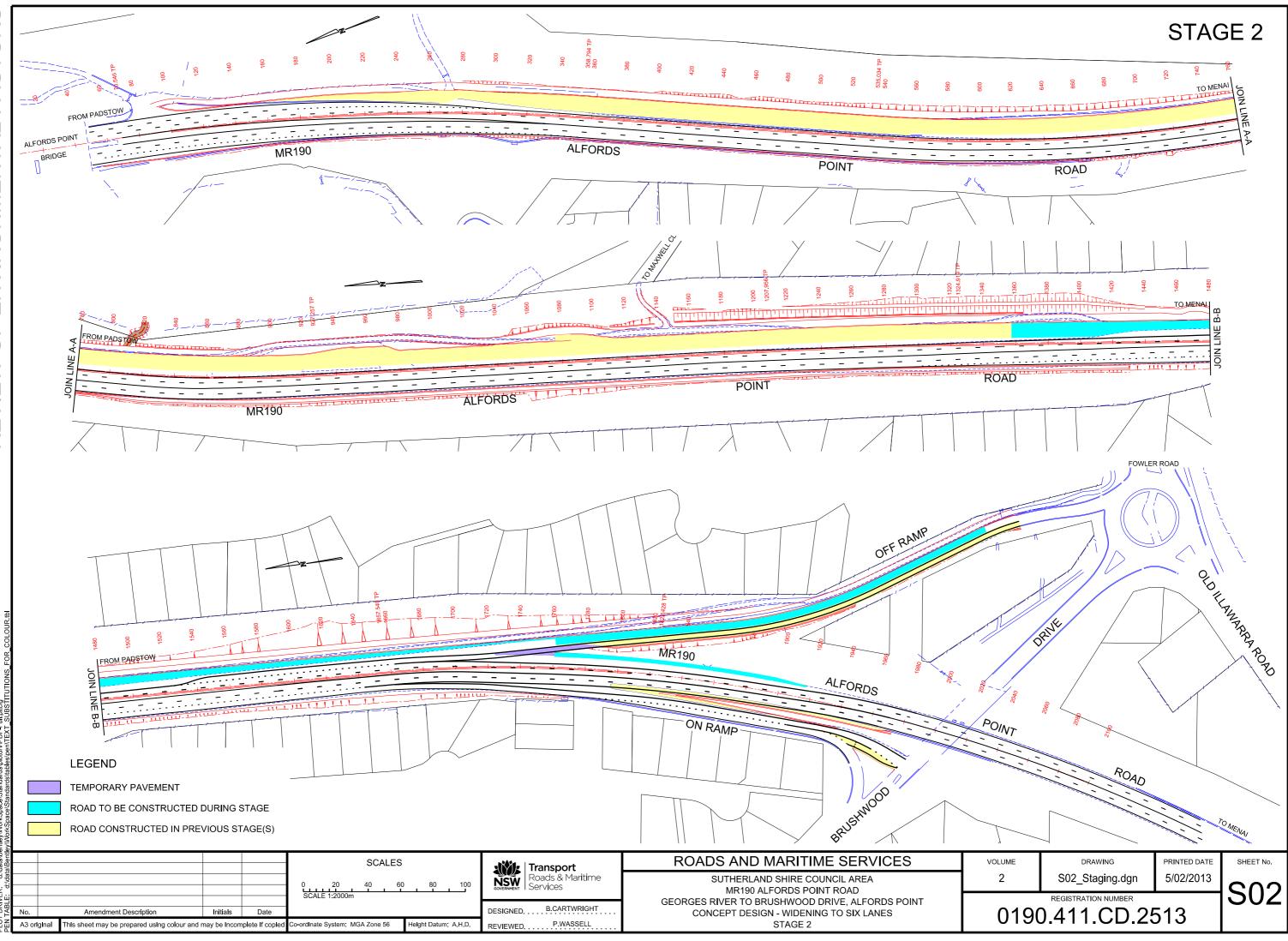
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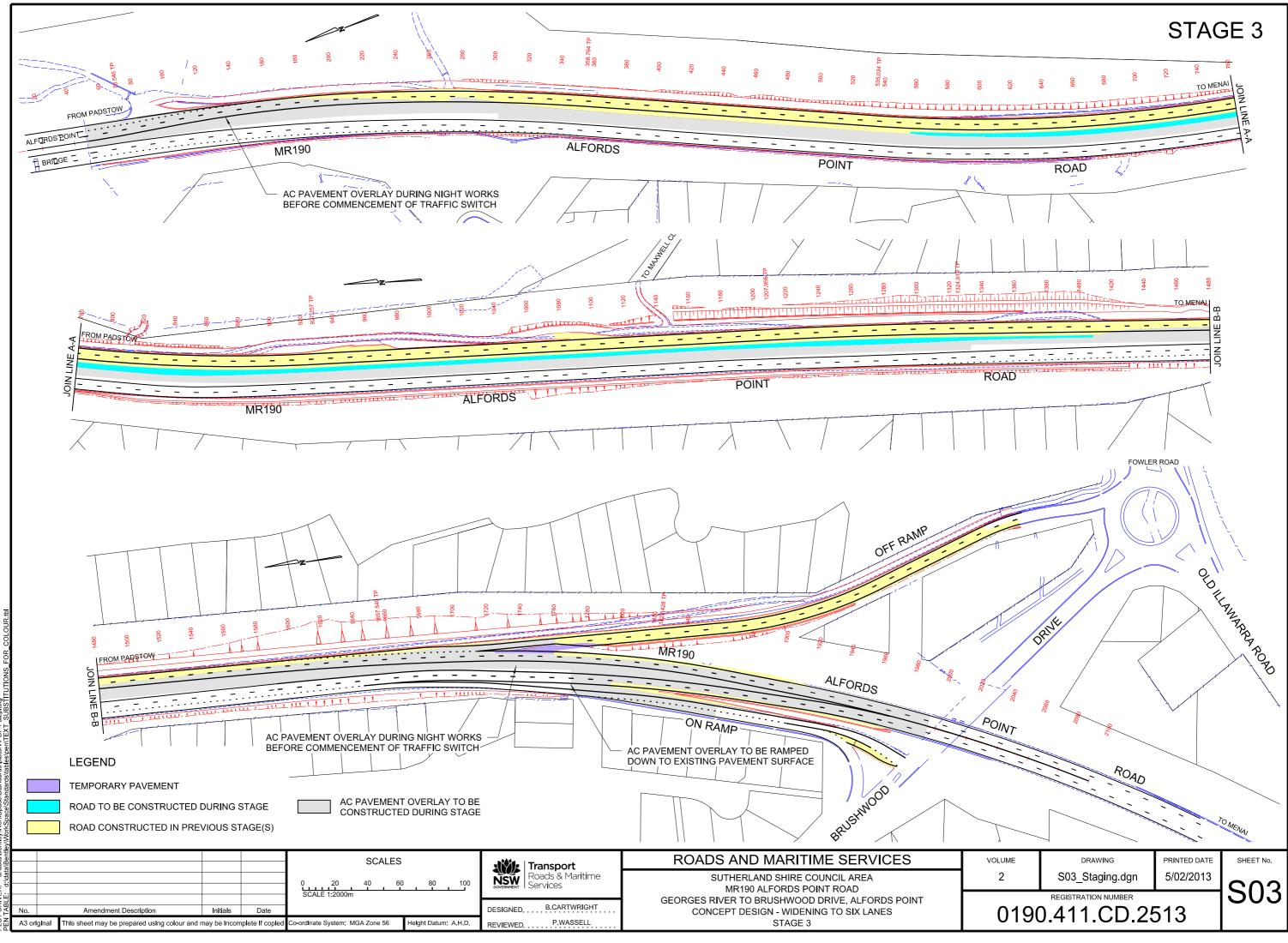


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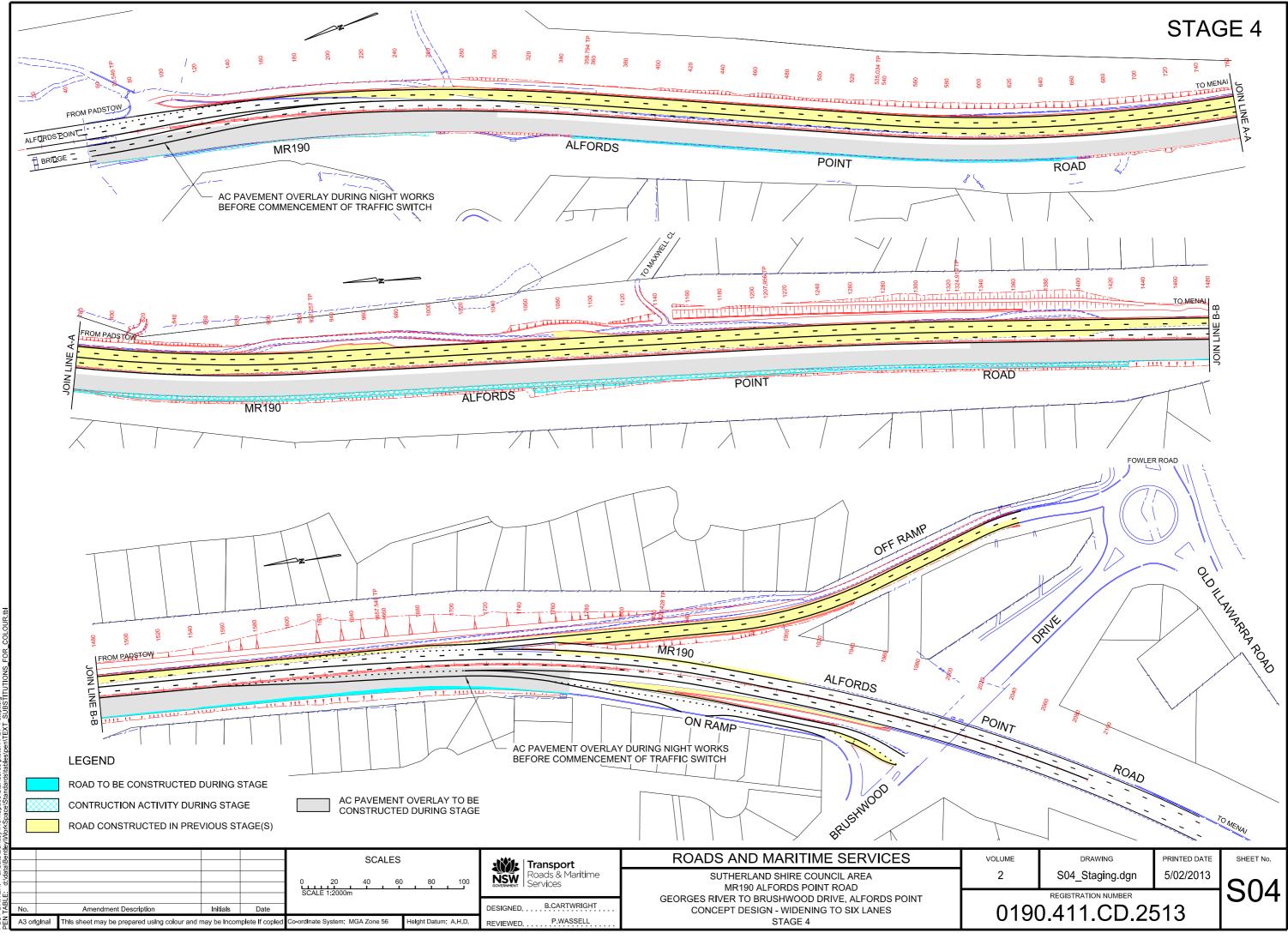


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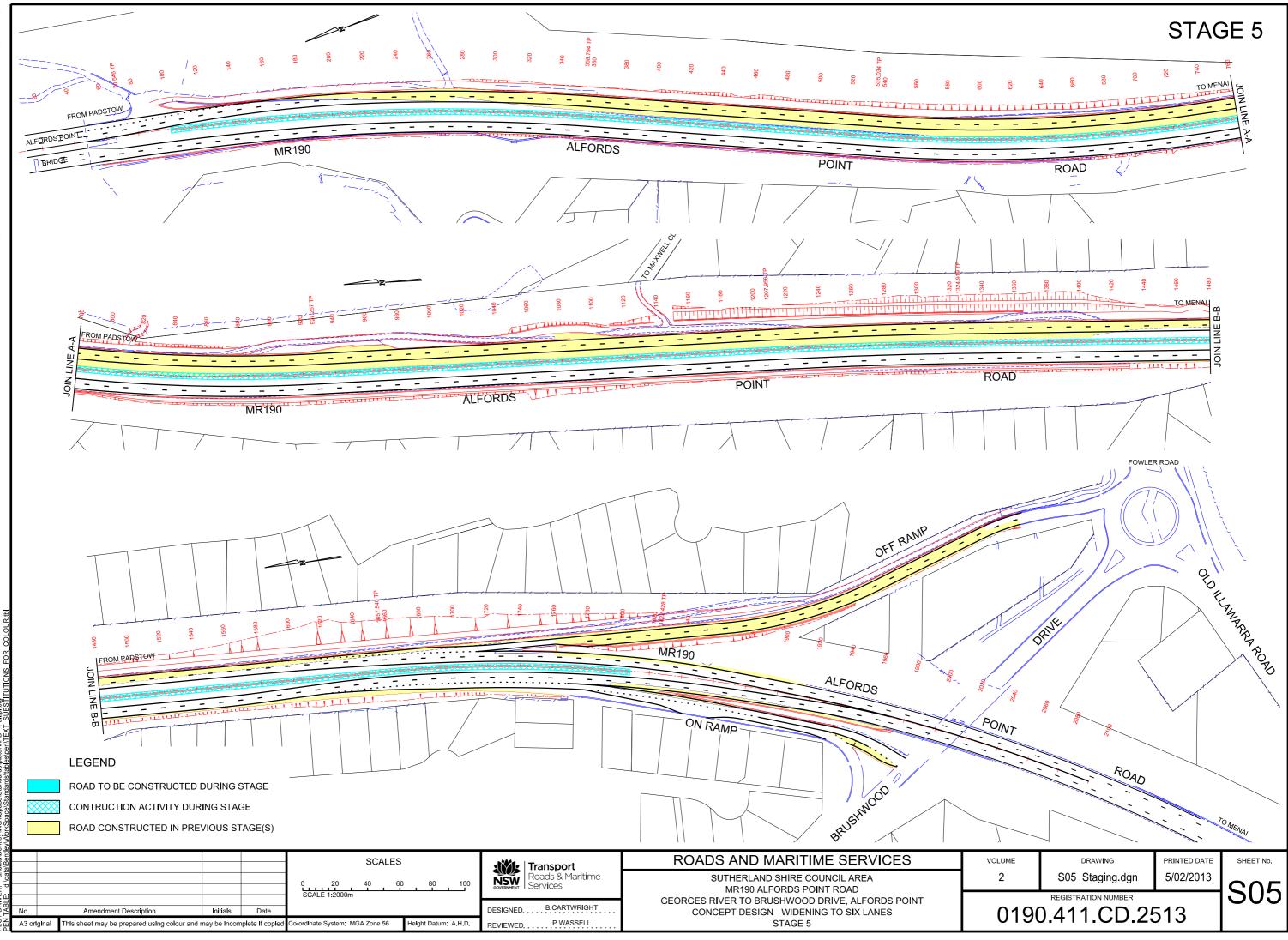
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Appendix B

Consideration of clause 228 (2) factors and matters of national environmental significance

## Clause 228(2) Checklist

In addition to the requirements of the *Is an EIS required?* guideline as detailed in the REF, the following factors, listed in clause 228(2) of the *Environmental Planning and Assessment Regulation 2000*, have also been considered to assess the likely impacts of the proposal on the natural and built environment.

Factor	Impact
a. Any environmental impact on a community?	Medium-term negative
Construction of the proposal would result in negative traffic and noise impacts to the local community for the duration of construction as discussed in Section 6. Potential traffic impacts include an increase in the volume of heavy vehicles, changes in speed limits and local traffic changes. Construction noise impacts would be managed by adopting feasible and reasonable noise management measures identified in the <i>Interim Construction Noise Guideline (DECC, 2009)</i> in order to reduce noise levels as much as practicable during construction.	
Long-term positive impacts would include an increase in the road capacity, improved safety and congestion for all road users.	Long-term positive
b. Any transformation of a locality?	
The proposal would be located within an existing road corridor and would require minimal transformation of the locality. The proposal would only widen an existing road and move the heavy vehicle inspection bay to underneath Old Illawarra Road. This transformation would be minor given these changes would be wholly within the existing road corridor of Alfords Point Road.	Long-term minor negative
Visual impacts of the proposal on the locality would be reduced through the implementation of safeguards and management measures outlined in Section 6.8.4.	
c. Any environmental impact on the ecosystems of the locality?	Long-term
The proposal would remove about 2.71 hectares of native vegetation. This habitat is potentially foraging and breeding habitat for threatened fauna however it is considered to be marginal due to the highly modified nature of this vegetation.	minor negative
The proposal would have minimal impacts to flora and fauna during operation such as indirect noise impacts and the risk of vehicles striking fauna.	
d. Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of a locality?	Short-term negative
During construction, the proposal would result in a reduction in the aesthetic quality of the locality as a result of dust generation, noise, visual and traffic movements. These impacts would be minimised through implementation of the management measures and safeguards summarised in Section 7.	Long-term minor negative
The proposal would result in a minor reduction in the aesthetic quality of the locality due to the removal of vegetation and the increase in road infrastructure. Visual and noise impacts would be minimised through the implementation of safeguards summarises in Section 7. Overall amenity in the vicinity of the proposal is not considered to be substantially reduced as a result of the proposal.	o. nogativo

Factor	Impact
e. Any effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?	Nil
The proposal would not impact on any Aboriginal or non-Aboriginal heritage items as discussed in Section 6.5 and 6.6.	
f. Any impact on the habitat of protected fauna (within the meaning of the National Parks and Wildlife Act 1974)?	Long-term minor negative
The proposal would remove about 2.71 hectares of native vegetation. Due to the modified and urban environment of the proposal site, the potential for protected species to use this area is reduced. Impacts on protected fauna habitat would further be minimised through the implementation of the safeguards and management measures in Section 6.2.4.	
g. Any endangering of any species of animal, plant or other form of life, whether living on land, in water or in the air?	Long-term neutral
The proposal would remove 2.71 hectares of native vegetation including 0.017 hectares of Southern Sydney Sheltered Forest which constitutes an EEC, however the proposal is to endanger any species of flora or fauna.	
h. Any long-term effects on the environment?	Long-term
Long-term positive impacts would include an increase in the road capacity, improve safety and travel times for all road users.	positive
Minor negative long-term impacts are expected such the removal of vegetation however this would be minimised through the implementation of the management measures and safeguards outlined in Section 6.2.	Long-term minor negative
i. Any degradation of the quality of the environment?	Short-term
The proposal would require the removal of some vegetation along Alfords Point Road. The site would be rehabilitated post-construction	negative
which would reduce the risk of long-term degradation to the environment. Safeguards would be implemented during construction to prevent the spread of noxious weeds.	Long-term nil
Water quality during construction could be reduced as a result of pollutants such as sediment, soil nutrients and waste entering drainage lines, particularly during high rain events. Spillage of fuel during refuelling and leakage of hydraulic and lubricating oil from plant and equipment or rinse water from plant washing and concrete slurries would also have the potential to enter drainage lines. During construction, temporary mitigation measures would be implemented to reduce the potential impacts to water quality, including the installation of a temporary sediment retention basin (refer Section 6.4).	
Air quality, noise and traffic impacts would result from the construction phase. These impacts would be minimised through the implementation of safeguards outlined in Section 7.	

Factor	Impact
j. Any risk to the safety of the environment?	Short-term
There is potential for road safety to be decreased during construction due to the need for works on existing roads. Traffic management safeguards outline in Section 7, including the preparation of a traffic management plan which would address safety risks.	potential negative Long-term minor positive
The proposal would improve safety for road users during operation by reducing congestion and queuing, and improving the location of the heavy vehicle inspection bay.	
k. Any reduction in the range of beneficial uses of the environment?	Short-term
The proposal would not result in the reduction in the range of beneficial uses of any property.	minor negative
During construction, minor traffic impacts due to an increase in heavy vehicle movements and interruptions to traffic flow would temporarily reduce the beneficial use of the local road network.	
I. Any pollution of the environment?	Medium-term
The proposal would result in minor air pollution for the duration of construction from plant and machinery, including the generation of dust.	negative Long-term nil
There is potential for chemical and fuel spills to occur during construction. The risk of spills would be managed through the implementation of the safeguards and management measures outlined in Section 6.4.3.	
m. Any environmental problems associated with the disposal of waste?	Nil
It is not anticipated that contaminated waste would be produced during construction. Waste streams generated during construction are common and would pose no difficulty in their disposal. Waste would be recycled wherever possible.	
n. Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply?	Nil
All resources required for the proposal are readily available and are not in short supply.	
o. Any cumulative environmental effect with other existing or likely future activities?	Long-term positive
The proposal is part of a series of upgrades of Alfords Point Road including duplication of Alfords Point Bridge and upgrade of the northern approach to the bridge, both of which are complete and in operation.	
The long-term effect of upgrading Alfords Point Bridge and the northern and southern approaches to the bridge would have a positive cumulative impact on travel times, road safety and efficiency, facilitating the anticipated increase in traffic volumes as a result of future population growth.	
No negative cumulative impacts are anticipated.	

Factor	Impact
p. Any impact on coastal processes and coastal hazards, including those under projected climate change conditions?	Nil
The proposal is not located within a coastal area and therefore would not result in any impact on coastal processes and coastal hazards.	

### **Matters of National Environmental Significance**

Under the environmental assessment provisions of the *Environment Protection and Biodiversity Conservation Act 1999*, the following matters of national environmental significance and impacts on Commonwealth land are required to be considered to assist in determining whether the proposal should be referred to the Australian Government Department of Sustainability, Environment, Water, Population and Communities.

Factor	Impact
a. Any impact on a World Heritage property?	Nil
The proposal would not have any impact on a World Heritage property.	
b. Any impact on a National Heritage place?	Nil
The Royal National Park and Garrawarra State Conservation Area are over six kilometres to the south of the proposal and therefore would not be impacted by the proposal.	
c. Any impact on a wetland of international importance?	Nil
Towra Point Nature Reserve which is listed as a wetland of international significance occurs about 12 kilometres downstream of the study area on the Kurnell peninsula. It is not likely that this area would be impacted by the proposal.	
d. Any impact on a listed threatened species or communities?	Nil
No threatened EPBC Act listed ecological communities are present within the study area. No threatened EPBC Act listed flora species would be likely to occur within the highly modified habitats within the proposal footprint. Threatened fauna species would be highly unlikely to utilise habitats within the proposal site given the highly modified nature of the area and the location next to a busy arterial road.	
The proposal would remove about 2.71 hectares of native vegetation however this equates to about 0.02 per cent of native vegetation within the locality and is therefore not considered likely to threaten the viability or persistence of any threatened community or species.	
e. Any impacts on listed migratory species?	Nil
The proposal site would have little value to any listed migratory species as it comprises highly modified residential and cleared areas. Additionally, there is no suitable wetland habitat within the study area that would provide for adequate breeding, shelter or foraging habitat for listed wetland migratory species.	
The proposal is considered unlikely to impact upon migratory species due to the lack of suitable habitat in the vicinity of the proposal.	
d. Any impact on a Commonwealth marine area?	Nil
The proposal would not have any impact on a Commonwealth marine area.	
g. Does the proposal involve a nuclear action (including uranium mining)?	Nil
The proposal does not involve a nuclear action.	

Factor	Impact
h. Does the proposal have any impact on the Great Barrier Reef Marine Park?	Nil
The proposal is not located near the Great Barrier Reef.	
i. Additionally, any impact (direct or indirect) on Commonwealth land?	Nil
No Commonwealth land occurs within the proposal site. The proposal would therefore not directly impact Commonwealth land, and is unlikely to indirectly impact Commonwealth land.	

Appendix C Consultation material

#### From: carla.ganassin@dpi.nsw.gov.au on 04/06/2012 10:34:59 AM

Repository: 212126800 Alfords Point Rd REF - Project management

 To:
 katrina.smallwood@ghd.com

 cc:
 Natalie.Moore@ghd.com

 Subject:
 Re: Statutory Consultation - Alfords Point Road Upgrade between Alfords Point Bridge Southern Abutment and Brushwood Drive, Alfords Point

Hi Katrina,

Re: Alfords Point Rd upgrade - south of Alford's Point Bridge - Statutory Consultation

Thank you for referring this onto Fisheries NSW for comment.

These works do not trigger the environmental protection measures under the Fisheries Management Act, and no formal consultation or permit under this Act will be required for these works.

Other than conducting these works with adequate soil and erosion control measures in accordance with the Blue Book, Fisheries NSW has no specific environmental assessment requirements for these works and does not wish to review the REF.

#### Regards,

Carla Ganassin | Conservation Manager NSW Department of Primary Industries | Fisheries NSW | Aquatic Habitat Protection Unit 202 Nicholson Parade | Cronulla NSW PO Box 21 | Cronulla NSW 2230 T: 02 9527 8552 | F: 02 9527 8576 | E: carla.ganassin@dpi.nsw.gov.au W: www.dpi.nsw.gov.au

From: Natalie.Moore@ghd.com

To: carla.ganassin@industry.nsw.gov.au

Date: 01/06/2012 11:41 AM

Subject: Statutory Consultation - Alfords Point Road Upgrade between Alfords Point Bridge Southern Abutment and Brushwood Drive, Alfords Point

#### Dear Carla

Roads and Maritime Services (RMS) is proposing to upgrade a 2.1 kilometre section of Alfords Point Road between the southern abutment of Alfords Point Bridge and Brushwood Drive. Congestion is currently experienced during peak periods where Brushwood Drive and Alfords Point Road merge.

Statutory consultation is an integral component of the environmental assessment process as it allows relevant government agencies to be informed of the proposal and provides an opportunity for agencies to provide feedback on the proposal. We are now seeking comments and/or feedback from relevant agencies and authorities. It would be appreciated if you could advise of any issues that you feel should be addressed in the environmental assessment, statutory or otherwise, by no later than Friday 15 June 2012 to katrina.smallwood@ghd.com.

Kind Regards,

Natalie

#### Natalie Moore

Graduate Planner, Environmental Assessment & Planning

GHD T: 61 2 9239 7131 | F: 61 2 9239 7199 | V: 217131 | nata lie.moore@ghd.com Level 15, 133 Castlereagh Street Sydney NSW 2000 Australia | <u>http://www.ghd.com/</u>

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of New South Wales

3 Marist Place Parramatta NSW 2150 Telephone: 61 2 9873 8500 Facsimile: 61 2 9873 8599

Locked Bag 5020 Parramatta NSW 2124 DX 8225 PARRAMATTA heritage@heritage.nsw.gov.au www.heritage.nsw.gov.au

Contact:Katrina StankowskiTelephone:(02) 9873 8569Katrina Stankowski@heritage.nsw.gov.auFile:12/10374Job ID No:A900537Your Ref:21/21268/177675

Katrina Smallwood Senior Environmental Scientist GHD Pty Ltd Level 15 133 Castlereagh Street SYDNEY NSW 2000

Dear Ms Smallwood

RE:

#### E: Request for Heritage Council issues for Review of Environmental Factors for Alfords Point Road upgrade: Alfords Point Bridge Southern Abutment to Brushwood Drive- Sutherland Shire Council.

I refer to your letter dated the 1<sup>st</sup> of June (received by this Branch on the 1<sup>st</sup> of June), requesting information regarding the NSW Heritage Council's requirements for the preparation of the above mentioned Review of Environmental Factors (REF).

It is advised that the REF should address the following issues:

- The heritage significance of the site and any impacts the development may have upon this significance should be assessed. This assessment should include natural areas and places of Aboriginal, historic or archaeological significance. It should also include a consideration of wider heritage impacts in the area surrounding the site.
- The Heritage Council maintains the State Heritage Inventory which lists some items protected under the Heritage Act, 1977 and other statutory instruments. This register can be accessed through the Heritage Branch home page on the internet (http://www.heritage.nsw.gov.au).
- It should be noted that the legal standing of items listed on the State Heritage Register can also be provided by applying for a section 167 Certificate through the Heritage Branch home page.
- In addition, you should consult lists maintained by the National Trust, any heritage listed under the Australian Government's Environment Protection and Biodiversity Conservation Act 1999 and the local council in order to identify any identified items of heritage significance in the area affected by the proposal. Please be aware, however, that these lists are constantly evolving and that items with potential heritage significance may not yet be listed.

Non-Aboriginal heritage items within the area affected by the proposal should be

identified by field survey. This should include any buildings, works, relics (including relics underwater), gardens, landscapes, views, trees or places of non-Aboriginal heritage significance. A statement of significance and an assessment of the impact of the proposal on the heritage significance of these items should be undertaken. Any policies/measures to conserve their heritage significance should be identified. This assessment should be undertaken in accordance with the guidelines in the NSW Heritage Manual. The field survey and assessment should be undertaken by a qualified practitioner/consultant with historic sites experience. The Heritage Branch can provide a list of suitable consultants.

The proposal should have regard to any impacts on places, items or relics of significance to Aboriginal people. Where it is likely that the project will impact on Aboriginal heritage, adequate community consultation should take place regarding the assessment of significance, likely impacts and management/mitigation measures. For guidelines regarding the assessment of Aboriginal sites, please contact the Office of Environment & Heritage.

The 'Relics' provisions in the Heritage Act require an excavation permit to be obtained from the Heritage Council, or an exception to be endorsed by the Heritage Council, prior to commencement of works if disturbance to a site with known or potential archaeological relics is proposed. Where possible refer to archaeological zoning plans or archaeological management plans held by Local Councils. If any unexpected archaeological relics are uncovered during the course of work excavation should cease and an excavation permit, or an exception notification endorsement, obtained.

If approval is required under the Heritage Act due to the listing of an item or place on the State Heritage Register, or being subject to an Interim Heritage Order, the Heritage Council's approval must be sought prior to an approval being issued by the consent authority under the *Environmental Planning and Assessment Act 1979* (except where application relates to Integrated Development OR Major Infrastructure Projects under Part 3A (now revoked), Part 4 or Part 5 of the *EP&A Act, 1979*). In accordance with section 67 of the Heritage Act, an approval given by a consent authority in these cases before the Heritage Council's determination of the application has been notified to the consent authority, is void.

The Heritage Branch would be happy to review any further documentation that may address any likely heritage impacts. If you have any further enquiries regarding this matter, please contact Katrina Stankowski on (02) 9873 8569.

Yours Sincerely

20/06/2012

Vincent Sicari Manager Conservation Team Heritage Branch Office of Environment & Heritage

As Delegate of the NSW Heritage Council

From:	"Masters, Melissa" <melissa.masters@environment.gov.au> on 01/06/2012 02:21:00 PM</melissa.masters@environment.gov.au>			
Repository: 212126801 Alfords Point Rd REF - Draft REF				
To: cc: Subject:	"Natalie.Moore@ghd.com" <natalie.moore@ghd.com> "Taylor, Mahani" <mahani.taylor@environment.gov.au> RE: Statutory Consultation - Alfords Point Road Upgrade between Alfords Point Bridge Southern Abutment and Brushwood Drive, Alfords Point [SEC=UNCLASSIFIED]</mahani.taylor@environment.gov.au></natalie.moore@ghd.com>			

Hello Natalie

Thanks for consulting with DSEWPaC re the proposed road upgrade at Alfords Point Road and Brushwood Drive. However, there does not seem to be much in the information that the department can comment on regarding potential impacts on matters of national environmental significance. Are you able to provide a copy (or summary) of the preliminary ecology assessment? Alternatively, once the ecological assessment has been finalised, we may be in a better position to comment on whether or not a referral may be required under the EPBC Act.

Regards

Melissa

Melissa Masters

NSW Section | Environment Assessment Branch | Environment Assessment and Compliance Division

Department of Sustainability, Environment, Water, Population & Communities (DSEWPaC)

(02) 6274 2871 | melissa.masters@environment.gov.au

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From: Natalie.Moore@ghd.com [mailto:Natalie.Moore@ghd.com]
Sent: Friday, 1 June 2012 12:07 PM
To: Masters, Melissa
Subject: Statutory Consultation - Alfords Point Road Upgrade between Alfords Point Bridge Southern Abutment and Brushwood Drive, Alfords Point

Dear Melissa,

Thankyou for returning my call this morning.

As discussed, Roads and Maritime Services (RMS) is proposing to upgrade a 2.1 kilometre section of Alfords Point Road between the southern abutment of Alfords Point Bridge and Brushwood Drive. Congestion is currently experienced during peak periods where Brushwood Drive and Alfords Point Road merge.

A preliminary ecology assessment indicates that the proposal would not require referral under the EPBC Act.

However, statutory consultation is an integral component of the environmental assessment process as it allows relevant government agencies to be informed of the proposal and provides an opportunity for agencies to provide feedback on the proposal. We are now seeking comments and/or feedback from relevant agencies and authorities. It would be appreciated if you could advise of any issues that you feel should be addressed in the environmental assessment, statutory or otherwise, by no later than Friday 15 June 2012 to <u>katrina.smallwood@ghd.com</u>.

Kind Regards,

Natalie

#### Natalie Moore Graduate Planner, Environmental Assessment & Planning

#### GHD

T: 61 2 9239 7131 | F: 61 2 9239 7199 | V: 217131 | <u>natalie.moore@ghd.com</u> Level 15, 133 Castlereagh Street Sydney NSW 2000 Australia | <u>http://www.ghd.com/</u>

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Your reference: Our reference: Contact: 21/21268/177675 DOC12/24875 Liz Peterson, 9995 6841

Ms Katrina Smallwood Senior Environmental Scientist GHD Pty Ltd Level 15, Castlereagh Street SYDNEY NSW 2000

Dear Ms Smallwood

I refer to your letter of 8 June 2012 seeking consultation with the Office of Environment and Heritage on the proposed Alfords Point Road upgrade (Alfords Point Bridge Southern Abutment to Brushwood Drive). OEH notes that the proposal as also been referred to the Parks and Wildlife Group of OEH as the proposed road upgrade works adjoin the Georges River National Park.

#### Impacts on Georges River National Park

As the proposed Alfords Point Road upgrade works immediately adjoins part of the Georges River National Park, OEH's main concern is to ensure that the development has no adverse effect on the natural and cultural values of the national park.

Lands adjoining protected areas play a critical role in connecting conservation areas to facilitate species survival and movement, and strengthen the resilience of protected areas by acting as a buffer to threats, including the potential implications of climate change. The Roads and Maritime Service should therefore ensure that the proposed development does not impair the significant natural and cultural heritage values of Georges River National Park.

The REF for the proposed works should consider the *Guidelines for Developments adjoining Department* of *Environment* and *Climate Change Land* (<u>http://www.environment.nsw.gov.au/protectedareas/developmntadjoiningdecc.htm</u>), in particular in relation to the following matters boundary encroachments, management implications, pests, weeds, edge effects, erosion and sediment control, and stormwater runoff.

#### Stormwater runoff

As detailed in *Guidelines for Developments adjoining Department of Environment and Climate Change Land* OEH's requirements in regard to stormwater runoff are:

- development proposals for areas adjacent to OEH land should incorporate stormwater detention and water quality systems (with appropriately managed buffer areas) within the development site,
- stormwater should be diverted to council stormwater systems or to infiltration and subsurface discharge systems within the development site, and

PO Box 668 Parramatta NSW 2124 Level 7, 79 George St Parramatta NSW 2150 Tel: (02) 9995 5000 Fax: (02) 9995 6900 ABN 30 841 387 271 www.environment.nsw.gov.au

- Page 2
- the discharge of stormwater to OEH land, where the quantity and quality of stormwater differs from natural levels, must be avoided.

Furthermore, infrastructure associated with stormwater treatment must not be located on OEH land and any stormwater outlets should disperse the flow at pre-development levels. Landowners and development proponents are responsible for ensuring that all tanks, storage areas and associated infrastructure are appropriately sized and maintained to ensure that there is no unauthorised overflow onto OEH land.

If you have any queries regarding this matter please contact Liz Peterson on 9995 6841.

Yours sincerely

S. Hannuson 20/06/12

SUSAN HARRISON Planning & Aboriginal Heritage Conservation and Regulation, Metropolitan Office of Environment and Heritage



From:	"Belinda Morrow" <belinda.morrow@planning.nsw.gov.au></belinda.morrow@planning.nsw.gov.au>	
To:	katrina.smallwood@ghd.com	
Cc:	"David Pitney" <david.pitney@planning.nsw.gov.au></david.pitney@planning.nsw.gov.au>	
Date:	03/07/2012 12:09 PM	
Subject:	Proposed Alfords Point Road Upgrade between Alfords Point Bridge and Brushwood Drive, Alfords Point	Southern Abutment

Dear Katrina,

Thank you for the opportunity of commenting on the proposed upgrade of a 2.1 kilometre section of Alfords Point Road, as outlined in your recent letter.

Sydney Region East has reviewed the documents attached to your letter, and has no comment at this time.

Regards,

Belinda

Belinda Morrow Senior Planner, Sydney Region East NSW Department of Planning & Infrastructure | GPO Box 39 | SYDNEY NSW 2001 T 02 9228 6447 E Belinda.Morrow@planning.nsw.gov.au

I am in the office on Monday, Tuesday and Friday.



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# **Bicycle NSW Submission**

to

# **Roads and Maritime Services**

in response to

# Exhibition of Alfords Point Rd Southern Approach Upgrade

Document Info Prepared by: Tony Arnold Date: 23/08/12 Contact Tel: (02) 9704 0800 Fax: (02) 9746 2600 advocacy@bicyclensw.org.au www.bicyclensw.org.au



## INTRODUCTION

### Overview

Bicycle NSW has reviewed the Alfords Point Rd Southern Approach Upgrade to provide feedback to help ensure that adequate provisions have been made to accommodate and encourage the use of bicycles for a variety of purposes.

### Definitions

- The Plan will refer to the Alfords Point Rd Southern Approach Upgrade.
- The RMS will refer to Roads and Maritime Services.

### About Bicycle NSW

Bicycle NSW is a member-based association with over 30,000 members and supporters.

We engage with government, business and the community to promote, advocate for, and support cycling in all its forms as a sustainable and healthy form of transport, recreation and tourism. We are committed to supporting our Members and our Affiliated Bicycle User Groups (BUGs) throughout NSW.

Our core mission is to create a better environment for cycling in NSW.



## Comments

### General Overview

Bicycle NSW is pleased to see that the Alfords Point Southern Approach is being designed to accommodate the use of bicycles. The upgrade provides a path that is fully-separated from traffic which is the the only sensible approach on high-speed roads such as Alfords Point Rd.

## Design Specifications

Due to the long, gradual descent along Alfords Point Rd, bicycle users will invariably travel at higher than normal speeds while heading Northbound towards Alfords Point Bridge. Bicycle NSW recommends that the shared path on the East side of Alfords Point Rd be designed with corner radii, sight lines and path widths at the higher end of the spectrum recommended by Austroads.

### Recommended Addition of Pedestrian/Bicycle Bridge

Bicycle NSW has some concerns regarding access between Alfords Point Bridge and much of the Alfords Point community. The placement of the shared pathway along the East side of Alfords Point Rd will result in the road presenting a major barrier to pedestrians and bicycle users who wish to access Alfords Point.

There is no crossing point between Alfords Point Bridge and Brushwood Drive. This results in pedestrians and bicycle users from the area near Casuarina Oval being required to travel 4000m instead of the direct distance of only 500m.

Bicycle NSW recommends that some form of improved access is provided to cross Alfords Point Rd close to Alfords Point Bridge. One possible solution would be to provide a shared pedestrian/bicycle bridge over Alfords Point Rd (see Figure 1). This bridge could easily be built to connect close to Marlock Pl and Stringybark Pl where the rock ledge forms a perfect access point at-grade to the local street network.



### Figure 1: Bicycle NSW Proposed Bridge



## CONCLUSION

Bicycle NSW thanks the RMS for the opportunity to provide feedback on the Alfords Point Rd Southern Approach Upgrade.

The proposed upgrade offers many excellent improvements for all users of Alfords Point Rd including bicycle users. With the addition of an access point into the local street network as noted above, the safety and permeability of the area will be greatly improved.

### Mike Trebitsch

Subject:	FW: SR131839-1 Alfreds Point road upgrade.
CompleteRepository:	2121268
Description:	Alfords Point Rd REF
JobNo:	21268
OperatingCentre:	21
RepoEmail:	2121268@ghd.com
RepoType:	Job

From: Williams, Todd A [mailto:Todd.A.Williams@team.telstra.com] Sent: Tuesday, November 06, 2012 09:23 PM To: FORREST Deanne M Cc: Schneider, Mark P <<u>Mark.P.Schneider@team.telstra.com</u>>; Bonser, Damian F <<u>Damien.Bonser@team.telstra.com</u>> Subject: SR131839-1 Alfreds Point road upgrade.

Deanne,

As discussed there is possible impacts to the Telstra network due to the proposed road upgrade there is a 12f cable to a mobile tower and 2 x copper cables that would need possible relocation or protection measures, when you are ready to start to relocate the existing network please contact me back and I can arrange a quotation required for the relocation. Regards

#### **Todd Williams**

Field operative - central Network Integrity 1st Floor, 296 Crown St Wollongong NSW Australia

T +61 02 4260 2075 M +61 0407294183



Dial 1100 Before You Dig Network Integrity: Working with the civil construction industry to prevent damage to Telstra's underground assets

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570 George Street Sydney NSW 2000 All mail to GPO Box 4009 Sydney NSW 2001 T +61 2 131 525 F +61 2 9269 2830 www.ausgrid.com.au

22 October 2012

Deanne Forrest Project Development Manager Roads & Maritime Services Level 8, 27-31 Argyle Street Parramatta NSW 2150

#### Re: Ausgrid Assets – Alfords Point Road Southern Approach. (Your Ref: D00374.PMD.07)

I refer to your letter dated 18<sup>th</sup> September 2012 regarding Ausgrid assets within the project area of the southern approach of Alfords Point Road.

I have checked Ausgrid's drawings and can find no record of any Ausgrid owned underground cables within the project area. There is a transmission line and an OH Service to a VMS sign within this area. The underground power cables identified in your drawings may be related to the existing roadway lighting owned and maintained by Roads & Maritime.

If during the project Ausgrid's assets are found within the work site they may need to be relocated. Relocation work is regarded as a "contestable project". Contestable projects will generally take a minimum of 6 months to complete. Please find more information about contestable projects below.

#### **Contestable Projects**

Asset relocation (including aerial bundling or undergrounding) works are deemed "contestable" which means that they are funded by the customer and are designed (ASP3) & constructed (ASP1) by Accredited Service Providers of your choice. Ausgrid facilitates these projects and will charge up-front fees to cover monopoly services as part of the project. We are not able to provide any quotes for construction, however, you may be able to obtain the estimated cost from an ASP level 1. Details of ASP's can be found at <u>http://www.industry.nsw.gov.au/energy/electricity/network-connections/contestable</u>

Please note that Ausgrid also has an asset relocation policy guideline on our website containing general information associated with undergrounding works (link provide below). Section 5.3.3 on page 5 has some information on indicative costs. http://www2.energyaustralia.com.au/internet/pdfs/network%20undergrounding%20poli cy.pdf

If you decide to proceed with this contestable project, you will need to submit a formal letter including the scope of works to <u>contestability@ausgrid.com.au</u>. Please note that a standard fee of a \$1700 is required to process the initial relocation request. Once this fee is paid, the project will then be allocated to a project officer for the provision of a Design Information Package that will allow you to engage an Accredited Designer (ASP3) for the construction design.

Should you require any further information please contact myself, Doug Chalker on telephone number 9585 5868.

Yours faithfully,

Doug Chalker Engineering Officer Planning & Supply Negotiations – Sutherland Shire

Ph: 02 9585 5868 dchalker@ausgrid.com.au Appendix D Background searches

			Worl	king with the community to know	w, value and care for our heritage
-		About Us		▶Listings	Development
	Office of Environment & Heritage	Heritage Council		Publications & Forms	Conservation & Technical
GOVERNMENT I	anentage	About Heritage		Research	Funding

Home	Þ.	Listings	Þ.	Heritage Databases	Þ	Heritage Database Search	- )+	Search Results
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Click on the BACK button of your browser to return to the search.

### Statutory Listed Items

Information and items listed in the State Heritage Inventory come from a number of sources. This means that there may be several entries for the same heritage item in the database. For clarity, the search results have been divided into two sections.

- Section 1. contains items listed by the Heritage Council under the NSW Heritage Act. This includes listing on the State Heritage Register, an Interim Heritage Order or protected under section 136 of the NSW Heritage Act. This information is provided by the Heritage Branch.
- Section 2. contains items listed by Local Councils & Shires and State Government Agencies. This section may also contain additional information on some of the items listed in the first section.

#### Section 1. I tems listed under the NSW Heritage Act.

Click on an item name to view the full details. The search results can be re-sorted by clicking on the (sort) option at the top of each column.

Item Name (sort)	Address (sort)	Suburb (sort)	LGA (sort)	Listed Under Heritage Act

There were no records in this section matching your search criteria.

Section 2. I tems listed b	y Local Governn	nent and State	e agencies.	
Item Name (sort)	Address (sort)	Suburb (sort)	LGA (sort)	Information Source (sort)
Alfords Point Bridge	Alfords Point Road	Alfords Point	Sutherland	LGOV
Georges River State Recreation Area		Alfords Point	Sutherland	LGOV

There were 2 records in this section matching your search criteria.

There was a total of 2 records matching your search criteria.

Key: LGA = Local Government Area

CAZ= NSW Government Gazette (statutory listings prior to 1997), HGA = Heritage Grant Application, HS = Heritage Study, LGOV = Local Government, SGOV = State Government Agency.

Note: The Heritage Branch seeks to keep the State Heritage Inventory (SHI) up to date, however the latest listings in Local and Regional Environmental Plans (LEPs and REPs) may not yet be included. Always check with the relevant Local Council or Shire for the most recent listings.

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Department of Sustainability, Environment, Water, Population and Communities

# **EPBC** Act Protected Matters Report

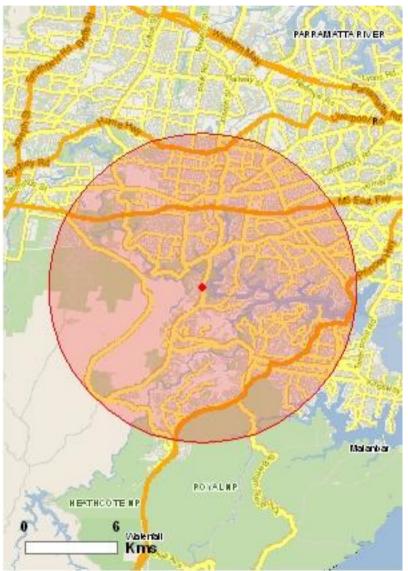
This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information about the EPBC Act including significance guidelines, forms and application process details can be found at http://www.environment.gov.au/epbc/assessmentsapprovals/index.html

Report created: 09/02/12 10:42:16

Summary Details Matters of NES Other Matters Protected by the EPBC Act Extra Information Caveat Acknowledgements



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010



Coordinates Buffer: 10.0Km

# Summary

## Matters of National Environment Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the Administrative Guidelines on Significance - see http://www.environment.gov.au/epbc/assessmentsapprovals/guidelines/index.html

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International	1
Great Barrier Reef Marine Park:	None
Commonwealth Marine Areas:	None
Threatened Ecological Communities:	4
Threatened Species:	43
Migratory Species:	21

## Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place and the heritage values of a place on the Register of the National Estate. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage/index.html

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

A permit may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species. Information on EPBC Act permit requirements and application forms can be found at http://www.environment.gov.

Commonwealth Lands:	16
Commonwealth Heritage Places:	3
Listed Marine Species:	18
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves:	None

## **Extra Information**

This part of the report provides information that may also be relevant to the area you have

Place on the RNE:	43
State and Territory Reserves:	4
Regional Forest Agreements:	None
Invasive Species:	18
Nationally Important Wetlands:	2

# **Details**

## Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
Royal National Park and Garawarra State Conservation Area	NSW	Listed place
Wetlands of International Significance (RAMSAR)		[Resource Information]
Name		Proximity
Towra point nature reserve		Within 10km of Ramsar
Threatened Ecological Communities		[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Name	Status	Type of Presence
Cumberland Plain Shale Woodlands and Shale-	Critically Endangered	Community likely to
Gravel Transition Forest		occur within area
Littoral Rainforest and Coastal Vine Thickets of	Critically Endangered	Community likely to
Eastern Australia		occur within area
Shale/Sandstone Transition Forest	Endangered	Community likely to
Turpentine-Ironbark Forest in the Sydney Basin	Critically Endangered	occur within area Community likely to
Bioregion	Childany Endangered	occur within area
Threatened Species		[Resource Information]
Name	Status	Type of Presence
BIRDS		
Anthochaera phrygia		
Regent Honeyeater [82338]	Endangered	Species or species
		habitat likely to occur
Botaurus poiciloptilus		within area
Australasian Bittern [1001]	Endangered	Species or species
Australasian Dittern [1001]	Lindangered	habitat known to occur
		within area
Dasyornis brachypterus		
Eastern Bristlebird [533]	Endangered	Species or species
		habitat likely to occur
		within area
Lathamus discolor	Endongorod	Chapies er eneries
Swift Parrot [744]	Endangered	Species or species habitat likely to occur
		within area
Neophema chrysogaster		
Orange-bellied Parrot [747]	Critically Endangered	Species or species
		habitat may occur within
		area
Rostratula australis		<b>A A A</b>
Australian Painted Snipe [77037]	Vulnerable	Species or species
		habitat likely to occur within area
Sternula nereis nereis		
Fairy Tern (Australian) [82950]	Vulnerable	Species or species
		habitat known to occur
		within area
FROGS		

<u>Heleioporus australiacus</u> Giant Burrowing Frog [1973]

### Vulnerable

Species or species

habitat likely to occur within area Litoria aurea Species or species Green and Golden Bell Frog [1870] Vulnerable habitat likely to occur within area Litoria littlejohni Littlejohn's Tree Frog, Heath Frog [64733] Species or species Vulnerable habitat may occur within area Litoria raniformis Growling Grass Frog, Southern Bell Frog, Green Vulnerable Species or species and Golden Frog, Warty Swamp Frog [1828] habitat may occur within area Mixophyes balbus Stuttering Frog, Southern Barred Frog (in Victoria) Vulnerable Species or species habitat likely to occur [1942] within area MAMMALS Chalinolobus dwyeri Large-eared Pied Bat, Large Pied Bat [183] Vulnerable Species or species habitat may occur within area Dasyurus maculatus maculatus (SE mainland population) Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll Endangered Species or species

Name	Status	Type of Presence
(southeastern mainland population) [75184]		habitat may occur within
· · · /· ·		area
Isoodon obesulus obesulus	<b>_</b>	
Southern Brown Bandicoot [68050]	Endangered	Species or species habitat likely to occur within area
Petrogale penicillata		
Brush-tailed Rock-wallaby [225]	Vulnerable	Species or species habitat known to occur within area
Potorous tridactylus tridactylus	Vulnerable	Spacios ar spacios
Long-nosed Potoroo (SE mainland) [66645]	vullerable	Species or species habitat may occur within area
<u>Pseudomys novaehollandiae</u> New Holland Mouse [96]	Vulnerable	Snaciae or energiae
New Holland Mouse [96]	VUITIETADIE	Species or species habitat likely to occur within area
Pteropus poliocephalus Grey-headed Flying-fox [186]	Vulnerable	Foraging, feeding or
Crey-neaded Flying-lox [100]	Vullerable	related behaviour known to occur within area
PLANTS		
Acacia bynoeana		
<mark>Acacia bynoeana</mark> Bynoe's Wattle, Tiny Wattle [8575]	Vulnerable	Species or species habitat likely to occur within area
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens		habitat likely to occur within area
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800]	Vulnerable Vulnerable	habitat likely to occur
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans	Vulnerable	habitat likely to occur within area Species or species habitat likely to occur within area
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans [56780]		habitat likely to occur within area Species or species habitat likely to occur
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans [56780] Astrotricha crassifolia	Vulnerable Endangered	habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur within area
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans [56780] Astrotricha crassifolia Thick-leaf Star-hair [10352]	Vulnerable	habitat likely to occur within area Species or species habitat likely to occur within area Species or species habitat likely to occur
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans [56780] Astrotricha crassifolia Thick-leaf Star-hair [10352] Caladenia tessellata	Vulnerable Endangered Vulnerable	<ul> <li>habitat likely to occur within area</li> <li>Species or species habitat likely to occur within area</li> <li>Species or species habitat likely to occur within area</li> <li>Species or species habitat likely to occur within area</li> </ul>
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans [56780] Astrotricha crassifolia Thick-leaf Star-hair [10352]	Vulnerable Endangered	<ul> <li>habitat likely to occur within area</li> <li>Species or species habitat likely to occur within area</li> <li>Species or species habitat likely to occur within area</li> <li>Species or species habitat likely to occur</li> </ul>
Acacia bynoeana Bynoe's Wattle, Tiny Wattle [8575] Acacia pubescens Downy Wattle, Hairy Stemmed Wattle [18800] Asterolasia elegans [56780] Astrotricha crassifolia Thick-leaf Star-hair [10352] Caladenia tessellata Thick-lipped Spider-orchid, Daddy Long-legs	Vulnerable Endangered Vulnerable	<ul> <li>habitat likely to occur within area</li> <li>Species or species habitat likely to occur</li> <li>Species or species habitat likely to occur</li> </ul>

Deyeuxia appressa [7438]

Eucalyptus camfieldii Camfield's Stringybark [15460]

Small-flower Grevillea [64910]

Grevillea parviflora subsp. parviflora

Vulnerable

Vulnerable

Endangered

Hibbertia sp. Bankstown (R.T.Miller & C.P.Gibson s.n. 18/10/06) Critically Endangered [81969] Melaleuca biconvexa Vulnerable

**Biconvex Paperbark [5583]** 

Melaleuca deanei Deane's Melaleuca [5818]

Persoonia nutans [18119]

nabilal may occur willin area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Endangered

Vulnerable

Species or species

Name	Status	Type of Presence
		habitat likely to occur
		within area
Pimelea curviflora var. curviflora		Q
[4182]	Vulnerable	Species or species habitat may occur within
		area
Pimelea spicata		
[20834]	Endangered	Species or species
		habitat known to occur
Diaractulia gibbaga		within area
<u>Pterostylis gibbosa</u> Illawarra Greenhood, Rufa Greenhood, Pouched	Endangered	Species or species
Greenhood [4562]	Lindangered	habitat known to occur
		within area
Pterostylis saxicola		
Sydney Plains Greenhood [64537]	Endangered	Species or species
		habitat known to occur
<u>Thelymitra sp. Kangaloon (D.L.Jones 18108)</u>		within area
Kangaloon Sun-orchid [81971]	Critically Endangered	Species or species
	entiodity Endangerou	habitat may occur within
		area
Thesium australe		
Austral Toadflax, Toadflax [15202]	Vulnerable	Species or species
		habitat likely to occur
REPTILES		within area
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Species or species
	0	habitat likely to occur
		within area
<u>Chelonia mydas</u>		
Green Turtle [1765]	Vulnerable	Species or species
		habitat known to occur within area
Dermochelys coriacea		within area
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species
		habitat likely to occur
		within area
Eretmochelys imbricata	Vulnarabla	Chapies er eneries
Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur
		within area
Hoplocephalus bungaroides		
Broad-headed Snake [1182]	Vulnerable	Species or species
		habitat likely to occur
		within area
Migratory Species		[Resource Information]
* Species is listed under a different scientific name on	the EPBC Act - Threatened	
Name	Threatened	Type of Presence
Migratory Marine Birds		J1
<u>Apus pacificus</u>		
Fork-tailed Swift [678]		Species or species
		habitat may occur within
Ardoo albo		area
<u>Ardea alba</u> Great Egret White Egret [59541]		Species or openios
Great Egret, White Egret [59541]		Species or species habitat may occur within
		area
<u>Ardea ibis</u>		
Cattle Egret [59542]		Species or species
		habitat may occur within
Migratory Marina Species		area
Migratory Marine Species <u>Caretta caretta</u>		
Loggerhead Turtle [1763]	Endangered	Species or species
	LINAIIYEIEU	habitat likely to occur
		within area
<u>Chelonia mydas</u>		
Green Turtle [1765]	Vulnerable	Species or species
		habitat known to occur
		within area

Name	Threatened	Type of Presence
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Dugong [28]		Species or species habitat may occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Porbeagle, Mackerel Shark [83288]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Haliaeetus leucogaster		
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundapus caudacutus		<b>A I I</b>
White-throated Needletail [682]		Species or species habitat may occur within area
Merops ornatus Rainbow Roa actor [670]		Spacios or spacios
Rainbow Bee-eater [670]		Species or species habitat may occur within area
<u>Monarcha melanopsis</u> Black-faced Monarch [609]		Breeding may occur within area
<u>Myiagra cyanoleuca</u> Satin Flycatcher [612]		Breeding likely to occur within area
Neophema chrysogaster Orange-bellied Parrot [747]	Critically Endangered	Species or species habitat may occur within area
<u>Rhipidura rufifrons</u> Rufous Fantail [592]		Breeding may occur within area
Xanthomyza phrygia		
Regent Honeyeater [430]	Endangered*	Species or species habitat likely to occur within area
Migratory Wetlands Species		
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat may occur within area
<u>Ardea ibis</u> Cattle Egret [59542]		Species or species
Gallinago hardwickii		habitat may occur within area
Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area
Rostratula benghalensis s. lat. Painted Snipe [889]	Vulnerable*	Species or species habitat likely to occur within area

## Other Matters Protected by the EPBC Act

## Commonwealth Lands

The Commonwealth area listed below may indicate the presence of Commonwealth land in this vicinity. Due to the unreliability of the data source, all proposals should be checked as to whether it impacts on a Commonwealth area, before making a definitive decision. Contact the State or Territory government land department for further information.

[Resource Information]

Name

### Name

Commonwealth Land -Commonwealth Land - Airservices Australia Commonwealth Land - Australian & Overseas Telecommunications Corporation Commonwealth Land - Australian Nuclear Science & Technology Organisation Commonwealth Land - Australian Postal Commission Commonwealth Land - Australian Telecommunications Commission Commonwealth Land - Australian Telecommunications Corporation Commonwealth Land - Commonwealth Trading Bank of Australia Commonwealth Land - Defence Housing Authority Commonwealth Land - Defence Service Homes Corporation Commonwealth Land - Director of War Service Homes Commonwealth Land - Telstra Corporation Limited Defence - CAMP SAPPER-EAST HILLS (Lot 2) : CAMP SAPPER TRAINING AREA (Lot 1) Defence - EAST HILLS BARRACKS - OP SAFE HAVEN **Defence - HURSTVILLE TRG DEP** Defence - SUTHERLAND MULTI-USER DEPOT

Commonwealth Heritage Places		[Resource Information]
Name	State	Status
Indigenous		
Cubbitch Barta National Estate Area	NSW	Listed place
Historic		
Old Army / Internment Camp Group Holsworthy	NSW	Listed place
Bankstown Airport Air Traffic Control Tower	NSW	Nominated place
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name	on the EPBC Act - Threatened	I Species list.
Name	Threatened	Type of Presence
Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat may occur within area
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat may occur within area
Cattle Egret [59542]		Species or species habitat may occur within area
Gallinago hardwickii		
Latham's Snipe, Japanese Snipe [863]		Species or species

Haliaeetus leucogaster White-bellied Sea-Eagle [943]

Hirundapus caudacutus White-throated Needletail [682]

Lathamus discolor Swift Parrot [744]

Merops ornatus Rainbow Bee-eater [670]

Monarcha melanopsis Black-faced Monarch [609]

Myiagra cyanoleuca Satin Flycatcher [612]

Neophema chrysogaster Orange-bellied Parrot [747] Endangered

habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat may occur within area

Species or species habitat likely to occur within area

Species or species habitat may occur within area

Breeding may occur within area

Breeding likely to occur within area

Critically Endangered

Species or species habitat may occur within

Name	Threatened	Type of Presence
		area
Rhipidura rufifrons		
Rufous Fantail [592]		Breeding may occur within area
Rostratula benghalensis s. lat.		
Painted Snipe [889]	Vulnerable*	Species or species
		habitat likely to occur within area
Mammals		
Dugong dugon		
Dugong [28]		Species or species
		habitat may occur within area
Reptiles		
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Species or species
		habitat likely to occur within area
<u>Chelonia mydas</u>		
Green Turtle [1765]	Vulnerable	Species or species
		habitat known to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species
		habitat likely to occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Species or species
		habitat likely to occur
		within area
Extra Information		
Places on the RNE		[Resource Information]
Note that not all Indigenous sites may be listed.		
Name	State	Status
Natural		
Coorgoo Diver Metlanda	NOW	Indiantiva Diana

Hatara		
Georges River Wetlands	NSW	Indicative Place
Prince Edward Park	NSW	Indicative Place
Heathcote National Park	NSW	Registered
<u>Royal National Park (1977 boundary)</u>	NSW	Registered
Voyager Point	NSW	Registered
Indigenous		
Cubbitch Barta National Estate Area	NSW	Registered
Woronora Area	NSW	Registered
Historic		
Bankstown Airport	NSW	Indicative Place
Bankstown Elevated Reservoir No 7	NSW	Indicative Place
Bankstown Urban Conservation Area	NSW	Indicative Place
Belmore Urban Conservation Area	NSW	Indicative Place
Bexley Urban Conservation Area	NSW	Indicative Place
Canarys Road Urban Conservation Area	NSW	Indicative Place
Carss Park Urban Conservation Area	NSW	Indicative Place
Como Pleasure Grounds	NSW	Indicative Place
Como Tidal Pool	NSW	Indicative Place
Connells Point Pool Remnants	NSW	Indicative Place
Defoe Street Urban Conservation Area	NSW	Indicative Place
Dennis Street Urban Conservation Area	NSW	Indicative Place
Hillview Street Urban Conservation Area	NSW	Indicative Place
Hurstville Friendly Societies Dispensary	NSW	Indicative Place
Kingsgrove East Urban Conservation Area	NSW	Indicative Place
Kingsgrove West Urban Conservation Area	NSW	Indicative Place

Name	State	Status
Longleat	NSW	Indicative Place
Moorfields Methodist Cemetery	NSW	Indicative Place
Norfolk Avenue Urban Conservation Area	NSW	Indicative Place
O Briens Estate Urban Conservation Area	NSW	Indicative Place
Oatley Park Pool	NSW	Indicative Place
Oatley Urban Conservation Area	NSW	Indicative Place
Old St Marks Church	NSW	Indicative Place
Pallamanna Parade Urban Conservation Area	NSW	Indicative Place
Penshurst Reservoirs Nos 87 and 88	NSW	Indicative Place
Penshurst Urban Conservation Area	NSW	Indicative Place
Potts Hill Reservoirs	NSW	Indicative Place
Punchbowl Urban Conservation Area	NSW	Indicative Place
Punchbowl Urban Conservation Area	NSW	Indicative Place
Robert Street Urban Conservation Area	NSW	Indicative Place
War Memorial Monument	NSW	Indicative Place
Welfare Avenue Urban Conservation Area	NSW	Indicative Place
Woronora Crematorium	NSW	Indicative Place
Woronora General Cemetery	NSW	Indicative Place
<u>Como Rail Bridge</u>	NSW	Registered
Old Army / Internment Camp Group Holsworthy	NSW	Registered
State and Territory Reserves		[Resource Information]
Name		State

Name	Oldic
Georges River	NSW
Georges River	NSW
Heathcote	NSW
Royal	NSW

Invasive Species [Resource Information] Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit,

Name	Status	Type of Presence
Frogs		
Bufo marinus		
Cane Toad [1772]		Species or species habitat likely to occur within area
Mammals		
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species

Oryctolagus cuniculus Rabbit, European Rabbit [128]

Vulpes vulpes Red Fox, Fox [18]

### Plants

Alternanthera philoxeroides Alligator Weed [11620]

### Asparagus asparagoides

Bridal Creeper, Bridal Veil Creeper, Smilax, Florist's Smilax, Smilax Asparagus [22473]

### Cabomba caroliniana

Cabomba, Fanwort, Carolina Watershield, Fish Grass, Washington Grass, Watershield, Carolina Fanwort, Common Cabomba [5171] <u>Chrysanthemoides monilifera</u> Bitou Bush, Boneseed [18983] habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species habitat likely to occur within area

Species or species

Name	Status	Type of Presence habitat may occur within area
<u>Genista sp. X Genista monspessulana</u>		
Broom [67538]		Species or species habitat may occur within area
Lantana camara		
Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] Lycium ferocissimum		Species or species habitat likely to occur within area
African Boxthorn, Boxthorn [19235]		Species or species habitat may occur within area
Nassella neesiana		
Chilean Needle grass [67699]		Species or species habitat likely to occur within area
Nassella trichotoma		
Serrated Tussock, Yass River Tussock, Yass Tussock, Nassella Tussock (NZ) [18884] Pinus radiata		Species or species habitat likely to occur within area
Radiata Pine Monterey Pine, Insignis Pine, Wildin Pine [20780]	g	Species or species habitat may occur within area
<u>Rubus fruticosus aggregate</u>		
Blackberry, European Blackberry [68406]		Species or species habitat likely to occur within area
Salix spp. except S.babylonica, S.x calodendron &	<u>&amp; S.x reichardtiji</u>	
Willows except Weeping Willow, Pussy Willow and Sterile Pussy Willow [68497]	d	Species or species habitat likely to occur within area
Salvinia molesta		Chaping of species
Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665]		Species or species habitat likely to occur

<u>Ulex europaeus</u> Gorse, Furze [7693]

# Nationally Important Wetlands

[Resource Information] State

within area

within area

Species or species habitat likely to occur

Name	Oldic
Liverpool Military Training Area	NSW
Voyager Point	NSW

# Coordinates

-33.98759 151.02713

# Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World Heritage and Register of National Estate properties, Wetlands of International Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

# Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Department of Environment, Climate Change and Water, New South Wales
- -Department of Sustainability and Environment, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment and Natural Resources, South Australia
- -Parks and Wildlife Service NT, NT Dept of Natural Resources, Environment and the Arts
- -Environmental and Resource Management, Queensland
- -Department of Environment and Conservation, Western Australia
- -Department of the Environment, Climate Change, Energy and Water
- -Birds Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -SA Museum

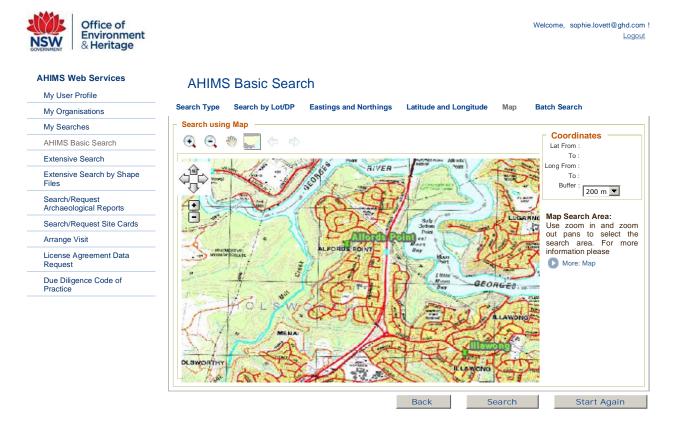
-Queensland Museum -Online Zoological Collections of Australian Museums -Queensland Herbarium -National Herbarium of NSW -Royal Botanic Gardens and National Herbarium of Victoria -Tasmanian Herbarium -State Herbarium of South Australia -Northern Territory Herbarium -Western Australian Herbarium -Australian National Herbarium, Atherton and Canberra -University of New England -Ocean Biogeographic Information System -Australian Government, Department of Defence -State Forests of NSW -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

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Click on the BACK button of your browser to return to the search.

### Statutory Listed Items

Information and items listed in the State Heritage Inventory come from a number of sources. This means that there may be several entries for the same heritage item in the database. For clarity, the search results have been divided into two sections.

- Section 1. contains items listed by the Heritage Council under the NSW Heritage Act. This includes listing on the State Heritage Register, an Interim Heritage Order or protected under section 136 of the NSW Heritage Act. This information is provided by the Heritage Branch.
- Section 2. contains items listed by Local Councils & Shires and State Government Agencies. This section may also contain additional information on some of the items listed in the first section.

#### Section 1. I tems listed under the NSW Heritage Act.

Click on an item name to view the full details.

The search results can be re-sorted by clicking on the (sort) option at the top of each column.

(sort) Addres	ss (sort) Suburb	(sort) LGA (sort)	Listed Under Heritage Act
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There were no records in this section matching your search criteria.

### Section 2. Items listed by Local Government and State agencies.

Item Name (sort)	Address (sort)	Suburb (sort)	LGA (sort)	Information Source (sort)
House	1 David Road	Menai	Sutherland	LGOV

There was 1 record in this section matching your search criteria.

There was a total of 1 record matching your search criteria.

Key:

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...

LGA = Local Government Area

GAZ= NSW Government Gazette (statutory listings prior to 1997), HGA = Heritage Grant Application, HS = Heritage Study, LGOV = Local Government, SGOV = State Government Agency.

Note: The Heritage Branch seeks to keep the State Heritage Inventory (SHI) up to date, however the latest listings in Local and Regional Environmental Plans (LEPs and REPs) may not yet be included. Always check with the relevant Local Council or Shire for the most recent listings.

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	25			1	LGA = SUTHERLAND SHIRE	
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CALTEX REFINERIES (NSW) PTY LTD	Caltex Kurnell Refinery	Kurnell	NSW	<ul> <li>Substance = All</li> </ul>		
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EDL LFG (NSW) PTY LTD	Lucas Heights 1 LFG Power Station	Menai	NSW	Edit Criteria		
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SYDNEY WATER CORPORATION	Cronulla Sewage Treatment Plant	North Cronulla	NSW	Dpens a pop-up window		
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### AHIMS Web Services (AWS) Search Result

Date: 09 February 2012

GHD - Sydney

15/133 Castlereagh St Sydney New South Wales 2000

Attention: Sophie Lovett

Email: sophie.lovett@ghd.com

Dear Sir or Madam:

#### AHIMS Web Service search for the following area at Lat, Long From : 151.00213, -34.00388 - Lat, Long To : -33.97656, 151.04773 with a Buffer of 200 meters. conducted by Sophie Lovett on 09 February 2012

A search of the Office of the Environment and Heritage AHIMS Web Services (Aboriginal Heritage Information Management System) has shown that:

98 Aboriginal sites are recorded in or near the above location.

0 Aboriginal places have been declared in or near the above location. \*

#### If your search shows Aboriginal sites or places what should you do?

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the NSW Government Gazette (http://www.nsw.gov.au/gazette) website. Gazettal notices published prior to 2001 can be obtained from Office of Environment and Heritage's Aboriginal Heritage Information Unit upon request

#### Important information about your AHIMS search

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Office of Environment and Heritage and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date .Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.