

Appendix B

EPBC Self Assessment

AECOM

Parkes Way Widening
Parkes Way Widening Glenloch Interchange to Edinburgh Avenue - Parkes Way Dr
Report

Appendix B EPBC Self Assessment

Appendix C

Tree Assessment Report

Appendix C Tree Assessment Report

Parke Way Widening

Environment Protection and Biodiversity Conservation Act 1999 Self-assessment



Parkes Way Widening

Environment Protection and Biodiversity Conservation Act 1999 Self-assessment

Prepared for
Roads ACT

Prepared by

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19 August 2011

60198222

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Quality Information

Document Parkes Way Widening

Ref 60198222

Date 19 August 2011

Prepared by Emma Struys

Reviewed by Marcus Sainsbury

Revision History

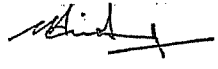
Revision	Revision Date	Details	Authorised	
			Name/Position	Signature
1	17-Aug-2011	For Issue	Marcus Sainsbury Principal Environmental Scientist	

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1.0 Introduction

Roads ACT engaged AECOM Pty Ltd to design, document and superintend upgrade works involving the widening of Parkes Way, Canberra (the Proposal). A self-assessment was conducted to determine if there was any likelihood of the Proposal having a significant impact on matters protected under *the Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). This report presents the results of the self-assessment, in accordance with significance criteria set out in the Significant Impact Guidelines 1.1 (DEWHA 2009) and 1.2 (DEWHA, 2010).

This assessment determines whether a referral to the Commonwealth Department of Sustainability, Environment, Water, Population and Communities (SEWPAC) for a decision by the Commonwealth environment minister on whether further assessment and approval may be needed for the Proposal.

A self-assessment under the EPBC Act was deemed necessary in regards to the following criteria:

- Any person who proposes to take an action which is either situated on Commonwealth land or which may impact on Commonwealth land.
- Whether the action will have, or is likely to have, a significant impact on a matter of national environmental significance.

The proposal, while not located on Commonwealth land, is adjacent to and 'upstream' from Lake Burley Griffin. Lake Burley Griffin is Commonwealth owned and controlled land. It is therefore subject to the provisions of the EPBC Act. Lake Burley Griffin possesses a broad array of natural and cultural heritage values. This array includes the natural values of the wetlands and aquatic habitat provided by the Lake; historic heritage values relating to the shape and form of the Lake as a designed landscape; its foreshore plantings; designed foreshore parklands; the Lake's role as the setting for the surrounding national institutions; its reflective qualities; lake-based activities and uses; and the relationship to views and vistas of surrounding land, particularly Mount Ainslie, Black Mountain and the Parliament House Vista (land axis).

1.1 Proposal Description

Parkes Way is existing major thoroughfare in Canberra that suffers from peak hour congestion problems. The proposed road widening into the existing median would provide an additional lane each way on Parkes Way between Glenloch Interchange and Edinburgh Avenue and includes widening of the Clunies Ross Street and Sullivans Creek bridges in Acton. The compulsory left-turn lane commencing in the Acton Tunnel would be utilised as a new third lane and a new left turn slip lane to Edinburgh Avenue would be provided

The channelization of the intersection of the entry ramps to Commonwealth Avenue from the Parkes Way and London Circuit is also included in the proposed works.

Given the relatively long section of widening, the Proposal components have been broken down into four consecutive segments based on present road features. The four segments along the Parkes Way include:

- Glenloch Interchange to Black Mountain Peninsula.
- Black Mountain Peninsula to Clunies Ross Street.
- Clunies Ross Street to Acton Tunnel.
- Acton Tunnel to Edinburgh Avenue.

Following widening, the residual median between the Glenloch Interchange and Clunies Ross Street would be 4.2 m wide. A wire rope barrier would be installed in the median and the surface paved to minimise maintenance requirements.

Street lighting between the Glenloch Interchange and Clunies Ross Street would be relocated from the median to the verges. There would be minimum impacts on existing utility services.

Between Clunies Ross Street and Edinburgh Avenue the existing guardrail arrangement would be retained although on a realigned kerb line.

Bridges at Clunies Ross Street and Sullivans Creek would be widened by 2.8 m and 3.7 m respectively. "Super T" girders and new piers would be utilised for the widening at Clunies Ross Street. Whilst at Sullivans Creek the

existing form of the superstructure and substructure would be replicated using pre-stressed beams, widened pile caps and new piers, installed with the assistance of a barge mounted crane to be temporarily located within Sullivans Creek during the construction phase.

1.2 Proposal Justification

Developments either planned or under consideration in the ACT over the next twenty years will likely increase the road network demand in Canberra. A significant proportion of these developments are located close to the centre of the Canberra metropolitan area. Planned future developments will impact the current major transport corridor from the new district of Molonglo to the Canberra Airport/NSW border, known as East West Corridor. The East West Corridor transportation study adopted by Roads ACT, recommended a more detailed investigation into adding an additional lane each way on Parkes Way between Glenloch Interchange and Edinburgh Avenue.

1.3 Matters of National Environmental Significance (NES)

The matters of national environmental significance (NES) protected under the EPBC Act include:

- Listed threatened species and ecological communities.
- Migratory species protected under international agreements.
- RAMSAR wetlands of international importance.
- The Commonwealth marine environment.
- World Heritage properties.
- National Heritage places.
- The Great Barrier Reef Marine Park.
- Nuclear actions.

Sections 2.0 and 3.0 below examine whether the Proposal is likely to impact on any of these matters of NES.

2.0 Environmental Context

2.1 What are the components or features of the environment?

The general features of the environment in the area impacted by the Proposal include Parkes Way aligned east-west between Glenloch interchange and Edinburgh Avenue. Parkes Way runs between Black Mountain Nature Reserve to the north, and Lake Burley Griffin to the south. It is currently a dual carriageway and between the two carriageways is a wide landscaped median. The general features of the environment surrounding the Proposal include the following:

- The dominant landform features at the Proposal site are the Black Mountain and Lake Burley Griffin, with the southern slopes of Black Mountain dropping steeply to the Lake.
- Black Mountain Peninsula (located to the south of the Proposal site) is a landscape feature and popular location for lakeside recreational activities.
- West of the Acton Tunnel Parkes Way passes across a bridge over Sullivans Creek, which flows from north Canberra through the ANU into Lake Burley Griffin.

2.1.1 Matters of NES Ecology

A search utilising the EPBC Act Protective Matters Search Tool was conducted on 9 August 2011. This search provided a general overview of matters of NES and other matters protected by the EPBC Act, within a 1km buffer of the Proposal site. The search results identified there are two threatened ecological communities likely to occur within 1km of the Proposal, including one endangered ecological community (EEC) and one critically endangered ecological community (CEEC). They are:

- Natural Temperate Grassland of the Southern Tablelands of NSW and the Australian Capital Territory (NTG EEC); and

- White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland (Yellow Box Woodland CEEC).

The Yellow Box Woodland CEEC and NTG EEC are also listed under the ACT *Nature Conservation Act 1980* as endangered ecological communities. ACT vegetation mapping indicates that these listed communities are not present along Parkes Way but in Nature Reserve lands adjacent, and outside of the proposal site. Threatened flora and fauna protected under the EPBC Act that may occur within 1km of the Proposal are presented in Table 1 with their status under Commonwealth and ACT legislation.

Table 1. Threatened Species with a potential to occur within a 1km radius of the Proposal.

Threatened Species			
Scientific Name	Common Name (s)	ACT State of Conservation (EPBC Act)	ACT State of Conservation (ACT)
BIRDS			
<i>Anthochaera phrygia</i>	Regent Honeyeater	Endangered	-
<i>Lathamus discolor</i>	Swift Parrot	Endangered	-
<i>Polytelis swainsonii</i>	Superb Parrot	Vulnerable	Vulnerable
<i>Rostratula australis</i>	Australian Painted Snipe	Vulnerable	Vulnerable
FISH			
<i>Maccullochella peellii peellii</i>	Murray Cod, Cod, Goodoo	Vulnerable	-
<i>Macquaria australasica</i>	Macquarie Perch	Endangered	Endangered
FROGS			
<i>Litoria castanea</i>	Yellow-spotted Tree Frog, Yellow-spotted Bell Frog	Endangered	-
INSECTS			
<i>Synemon plana</i>	Golden Sun Moth	Critically Endangered	Endangered
MAMMALS			
<i>Dasyurus maculatus maculatus</i> (SE mainland population)	Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (Southeastern mainland population)	Endangered	Vulnerable
PLANTS			
<i>Lepidium ginninderrense</i>	Ginninderra Peppergrass	Vulnerable	Endangered
<i>Leucochrysum albicans</i> var. <i>tricolor</i>	Hoary Sunray	Endangered	-
<i>Swainsona recta</i>	Small Purple-pea, Mountain Swainson-pea	Endangered	Endangered
<i>Thesium australe</i>	Austral Toadflax, Toadflax	Vulnerable	-
REPTILES			
<i>Aprasia parapulchella</i>	Pink-tailed Worm-lizard	Vulnerable	Vulnerable
<i>Delma impar</i>	Striped Legless Lizard	Vulnerable	Vulnerable

2.1.2 Matters of NES Heritage

There are sixteen Commonwealth heritage places either listed or nominated within a 1 km radius of the Proposal site protected under the EPBC Act. The sixteen places listed or nominated include:

- John Curtin School of Medical Research ACT - Indicative Place
- Acton Conservation Area ACT - Listed place
- Acton Peninsula Building 1 ACT - Listed place
- Acton Peninsula Building 15 ACT - Listed place
- Acton Peninsula Building 2 ACT - Listed place
- Acton Peninsula Limestone Outcrops ACT - Listed place
- Australian National Botanic Gardens (part) ACT - Listed place
- Canberra School of Art ACT - Listed place
- Canberra School of Music ACT - Listed place
- Institute of Anatomy (former) ACT - Listed place
- Lennox House Complex ACT - Listed place
- Parliament House Vista ACT - Listed place
- R G Menzies Building ANU ACT - Listed place
- Reserve Bank of Australia ACT - Listed place
- University House and Garden ACT - Listed place
- Lake Burley Griffin and Adjacent Lands ACT - Nominated place

In addition, there are three national heritage places listed or nominated under the EPBC Act. The three national heritage places are:

- Australian Academy of Science Building ACT
- Canberra – Central National Area and Inner (Nominated Place)
- Canberra and Surrounding Areas ACT (Nominated Place)

The Australian National Botanic Gardens ACT is listed as a Commonwealth Reserve protected by the EPBC Act as well as the indicative place Black Mountain, Aranda Bushland, O'Connor Ridge and Gossan Hill, ACT. Although these places have been listed within 1 km of the Proposal, the works associated with the Proposal would be consistent with the current visual environment, and not directly impact on any of the values.

2.2 Which components of the environment are likely to be impacted?

As the Proposal does not involve a new alignment of Parkes Way, and is mainly concerned with widening into the existing median area, environmental impacts are likely to be minor and of a temporary nature, occurring only during the construction period.

The existing Parkes Way is characterised by a four lane dual carriageway with a wide median that presents no important habitat for any of the terrestrial species listed in Table 1. However, the addition of two extra lanes may have a cumulative impact in terms of creating a wider barrier to terrestrial fauna movement, especially as Parkes Way runs adjacent to the two lanes of Lady Denman Drive along most of the length of the widening.

Although there is potential habitat for the Murray Cod and the Macquarie Perch within the Sullivans Creek, the area that would likely be affected by the proposal is small in comparison to the known ranges of these species, and given the species are highly mobile, adverse impacts are expected to be minor. Specifically, the widening works on the Sullivan's Creek bridge have the potential to impact on the water quality within the creek, during piling works, on account of mobilising sediments. In addition, while construction occurs, there would likely be temporary impediments to access up Sullivans Creek for aquatic species as well as recreational users such as canoeists, or rowers. These temporary impediments to access would be as a result of barge mounted crane, and the environmental protection measures in place, including erosion and sediment controls, and silt curtains (if required). Notwithstanding, during construction a 13.5 m wide access would be maintained within Sullivans Creek.

2.3 Is the environment sensitive or vulnerable to impacts?

As previously mentioned in Section 2.1, there are a number of flora and fauna species listed as endangered or vulnerable that have the potential to occur within 1km of the Proposal. There are also two threatened ecological communities likely to occur within 1km of the Proposal. The likelihood of these species or communities utilising the area to be affected by the proposal is low, given that the majority of works are located within the existing median of Parkes Way, with some minor works within the Sullivans Creek.

Additionally, the Proposal borders the Lake Burley Griffin heritage listed area, however works would occur within the existing road reserve, and would not directly impact on this heritage nominated area. There is however the potential for indirect impacts on the Lake Burley Griffin area, on account of sediment laden construction runoff. The implementation of appropriate erosion and sediment controls, as indicated in Section 4, would manage these potential impacts.

2.4 What is the history, current use and condition of the environment which is likely to be impacted by the action?

The existing four lane divided carriageway Parkes Way is the dominant land use in the area that would be affected by the Proposal. Road margins, including the median, although vegetated with planted vegetation would suffer edge effects from the operation of Parkes Way, and therefore are characterised as being in poor ecological condition. Sullivans Creek is a small creek which drains both urban and rural land in the north of the ACT before discharging into Lake Burley Griffin. The last two kilometres of the creek passes through the Australian National University where it is a focus of the landscaping of the university grounds.

3.0 Potential Impacts

3.1 What are the components of the action?

The scope of works associated with the Proposal includes the following actions:

- Widening Parkes Way in both directions from the eastern side of the Glenloch Interchange to Clunies Ross Street by using part of the existing median to provide the additional lanes.
- Widening Parkes Way at the Clunies Ross Street twin bridges by construction of extensions to the median side of the bridge decks using super tee girders supported on new piers and extended abutments.
- Widening Parkes Way at the Sullivans Creek bridge by extensions to the median side of the bridge decks by constructing a new cast insitu post tensioned box girder supported on new piers and extended abutments.
- Modifying the Clunies Ross Street ramps to match the road widening works.
- Widening Parkes Way eastbound within the median from the Acton Tunnel to east of the Edinburgh Avenue overpass.
- Modifying the Edinburgh Avenue off-ramp to replace the present compulsory right-turn lane which would form the third lane.
- Adding channelization to the intersection of the on-ramp from Parkes Way to Commonwealth Avenue southbound with the on-ramp from London Circuit to Commonwealth Avenue southbound to improve traffic flow.

The scope of works involves a number of actions which have the potential to impact on the environment. The impacts related to relevant actions have been summarised in Table 2.

Table 2. Impacts related to actions involved with the proposal.

Action	Impact
Widening Parkes Way in both directions from the eastern side of the Glenloch Interchange to Clunies Ross Street.	<ul style="list-style-type: none"> - Road area expanding into the already highly disturbed median areas of the Parkes Way. - Impacts during construction include potential for erosion and sedimentation.
Widening Parkes Way at the Sullivans Creek bridge by extensions to the median side of the bridge decks	<ul style="list-style-type: none"> - Temporary barge installed to support construction works may be an impediment to fauna travelling between Sullivans Creek and Lake Burley Griffin
Modifying the Clunies Ross Street ramps.	<ul style="list-style-type: none"> - The ramps would be expanded pushing into the areas of road margin around the ramps. - Temporary soils disturbances may include potential for erosion and sedimentation towards Lake Burley Griffin and Sullivans Creek.

Action	Impact
Widening Parkes Way eastbound within the median from the Acton Tunnel to east of the Edinburgh Avenue overpass.	<ul style="list-style-type: none"> - Road area expanding into already highly disturbed median of the Parkes Way - Impacts during construction include potential for erosion and sedimentation.

3.2 What are the predicted adverse impacts associated with the proposed action?

While there are a number of potential impacts associated with the Proposal (as listed in Table 2), these impacts are temporary, during construction and expected to be minor to negligible after mitigation measures have been employed.

3.3 How severe are the potential impacts?

To consider the severity of the potential impacts identified the scale, intensity, duration and frequency should be considered. Similar to a risk assessment, the severity levels of change are graded as severe, moderate or minor as a result of the potential impacts.

Scale

While the scale of the Proposal is quite considerable, altering an approximate 2.2 km stretch of the Parkes Way, the majority of works would be occurring within the median between the east and west bound carriageways. There are some works on the outer median towards Edinburgh Avenue with a slight realignment of a retaining wall. Overall, the scales of impacts are contained to local areas already disturbed by the road and traffic activity and result in a small scale of impacts.

Intensity

The intensity of the Proposal refers to strength and concentration of the impacts that may occur as a result. Considering the Proposal involves modification of road surfaces on the surface (i.e no major excavations underground) and once the proposal is completed, traffic conditions are not expected to increase dramatically, the intensity of the widening works is expected to be low.

Time, duration and frequency

The Proposal's would involve three stages of construction with the bridge works occurring in the first stage. The entire project would be conducted over approximately 15 months, with the bridge works taking most of this period while the road works would take around 6 months. As for the duration of impacts, they may extend beyond the construction time frame depending on the success of rehabilitation. This also would depend on the time of year the project is completed in, as completion in time for spring would facilitate faster regeneration around works. Overall timing, duration and frequency would be short term and although impacts may last longer than construction timing, these potential impacts are still considered short term.

Considering the criteria for the severity had small and localised scale, low intensity and short term duration and frequency, the Proposal is considered to result in minor to negligible potential impacts.

3.4 What is the extent of uncertainty about potential impacts?

The mitigation measures proposed in Section 4 are considered to be industry standard, and are not difficult or complex to successfully implement. Successful implementation of the mitigation measures proposed would ensure that there is a high degree of certainty regarding potential impacts identified.

4.0 Impact Avoidance and Mitigation Measures

Although the impacts have been considered as minor, a number of mitigation measures are proposed to avoid or control any impacts associated with the Proposal. Table 3 displays the potential impacts and mitigation measures during the construction and operational phase of the Proposal.

Table 3. Impacts Identified and mitigations to control and avoid them.

Impacts	Mitigations
<ul style="list-style-type: none"> - Possible erosion and sedimentation, as soils are disturbed, affecting local water quality. 	<ul style="list-style-type: none"> - Project specific erosion and sediment control plans would be developed and progressively implemented for the works. - Install silt curtains within Sullivans Creek to ensure bridge works do not adversely impact water quality with the creek. - Re-vegetation of disturbed soils to minimise future erosion as a result of the Proposal. - Spill kits would be available at all times during construction activities.
<ul style="list-style-type: none"> - Temporary barge installed to support construction works may impede fauna movement between Sullivans Creek and Lake Burley Griffin. 	<ul style="list-style-type: none"> - Maintain a minimum access around the barge within Sullivans Creek of 13.5 m
<ul style="list-style-type: none"> - The ramps would be expanded pushing into the areas of road margin around the ramps. 	<ul style="list-style-type: none"> - Minimise the disturbance of surrounding vegetation by construction with temporary no-go fencing.
<ul style="list-style-type: none"> - Soil disturbances may lead to impacts of sedimentation around the ramps and other road margins (on surfaces sloping towards the Lake Burley Griffin and Sullivans Creek) 	<ul style="list-style-type: none"> - Maintain erosion and sediment controls for as long as necessary to minimise the pollution of nearby water paths. - Progressive rehabilitation of disturbed soils to minimise future erosion as a result of the Proposal.
<ul style="list-style-type: none"> - Road area expanding into the already highly disturbed median areas of the Parkes Way. 	<ul style="list-style-type: none"> - Revegetation of road margins where possible to rehabilitate the area to pre construction appearance.

5.0 Conclusions of Self-Assessment

Taking the above information into consideration, impacts from the Proposal on matters of NES are expected to be minor to negligible. On this basis, a referral to the Commonwealth Department of Sustainability, Environment, Water and Communities is not required.

6.0 References

- Department of Environment, Water, Heritage and the Arts, (DEWHA, 2010), Action on or impacting upon Commonwealth land, and actions by Commonwealth agencies: Significant impact guidelines 1.2 online, <http://www.environment.gov.au/epbc/publications/commonwealth-guidelines.html>

Tree No	Tree Species	Tree Height (m)	Canopy dimensions	Condition	Tree Quality	Comments	Regulated
1	<i>Eucalyptus viminalis</i>	9	5	G	H		
2	<i>Eucalyptus viminalis</i>	9	4	F	M		
3	<i>Eucalyptus viminalis</i>	10	5	G	H		
4	<i>Eucalyptus viminalis</i>	15	9	G	E		
5	<i>Eucalyptus viminalis</i>	8	6	G	L		
6	<i>Eucalyptus viminalis</i>	18	11	G	H		
7	<i>Eucalyptus melliodora</i>	18	7	G	H		
8	<i>Eucalyptus melliodora</i>	17	4	G	M		
9	<i>Eucalyptus melliodora</i>	14	4	G	M		
10	<i>Eucalyptus viminalis</i>	11	5	P	L		
11	<i>Eucalyptus mannifera</i>	10	4	P	L		
12	<i>Eucalyptus viminalis</i>	17	7	F	M		
13	<i>Eucalyptus viminalis</i>	16	7	G	M		
14	<i>Eucalyptus viminalis</i>	8	3	G	M		
15	<i>Eucalyptus viminalis</i>	13	6	G	H		
16	Dead						
17	<i>Eucalyptus viminalis</i>	15	9	P	M		
18	<i>Eucalyptus sp.</i>	16	7	G	M		
19	<i>Eucalyptus sideroxylon</i>	10	5	F	L		
20	<i>Eucalyptus mannifera</i>	18	9	P	L		
21	<i>Eucalyptus mannifera</i>	9	8	G	M		
22	<i>Acacia sp.</i>	9	7	P	L		
23	<i>Acacia sp.</i>	8	7	P	L		
24	Dead						
25	<i>Acacia sp.</i>	7	6	P	L		
26	<i>Eucalyptus viminalis</i>	21	14	G	H		
27	Dead						
28	<i>Eucalyptus viminalis</i>	24	19	G	H		
29	<i>Eucalyptus viminalis</i>	12	16	G	M		

Tree No	Tree Species	Tree Height (m)	Canopy dimensions	Condition	Tree Quality	Comments	Regulated
30	<i>Eucalyptus viminalis</i>	20	22	G	E		
31	<i>Eucalyptus viminalis</i>	10	9	F	M		
32	Dead						
33	<i>Eucalyptus mannifera</i>	16	8	G	H		
34	<i>Eucalyptus mannifera</i>	8	8	P	M		
35	<i>Eucalyptus sideroxylon</i>	4	3	P	L		
36	<i>Eucalyptus polyanthemos</i>	7	4	F	M		
37	<i>Eucalyptus mannifera</i>	10	12	F	H	Multitrunk from 2m	
38	<i>Eucalyptus viminalis</i>	12	11	G	H		
39	<i>Eucalyptus melliodora</i>	11	8	G	H		
40	<i>Eucalyptus polyanthemos</i>	11	7	F	M		
41	<i>Eucalyptus viminalis</i>	9	12	F	M		
42	<i>Eucalyptus melliodora</i>	10	6	F	L		
43	<i>Eucalyptus melliodora</i>	11	7	F	M	Multitrunk	
44	Dead						
45	<i>Eucalyptus melliodora</i>	8	5	G	M		
46	Deciduous (elm?)	6	3	F	L		
47	<i>Eucalyptus sideroxylon</i>	20	10	G	H		
48	<i>Eucalyptus mannifera</i>	6	3	G	M		
49	<i>Eucalyptus mannifera</i>	24	17	G	E		
50	<i>Eucalyptus mannifera</i>	10	4	F	M		
51	<i>Eucalyptus mannifera</i>	6	3	P	L		
52	<i>Acacia sp.</i>	16	3	P	L		
53	<i>Acacia sp.</i>	8	8	F	M		
54	<i>Eucalyptus viminalis</i>	16	9	G	H		
55	<i>Eucalyptus mannifera</i>	10	4	F	L		
56	<i>Eucalyptus sp.</i>	16	7	G	M		



CANBERRA NATURE PARK
(BLACK MOUNTAIN NATURE RESERVE)

BLACK MOUNTAIN NATURE RESERVE BOUNDARY

ROAD

GAZETTED

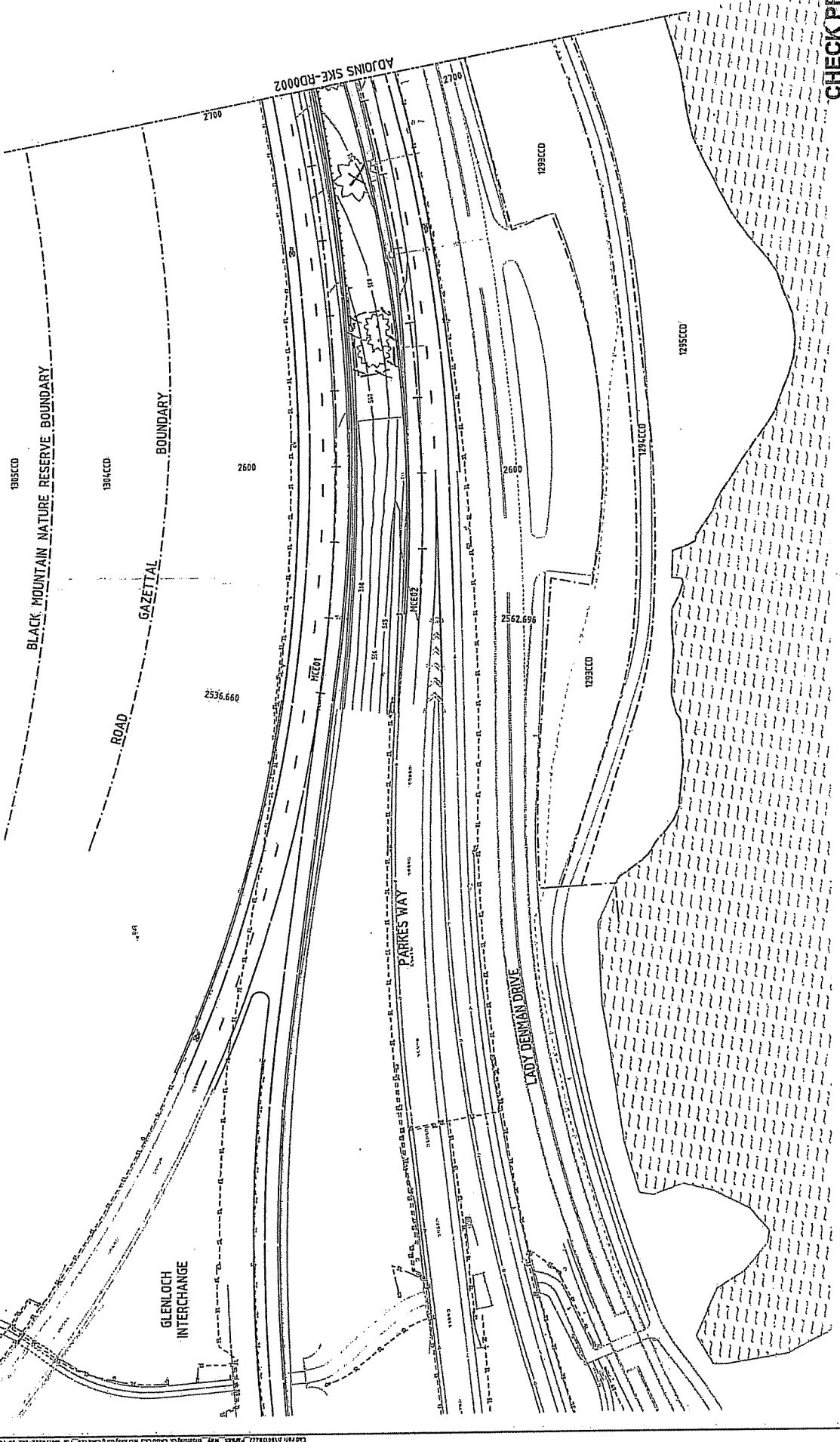
BOUNDARY

GLENLOCH INTERCHANGE

ADJOINS SKE-RD0002

PARRIS WAY

LADY DENMAN DRIVE

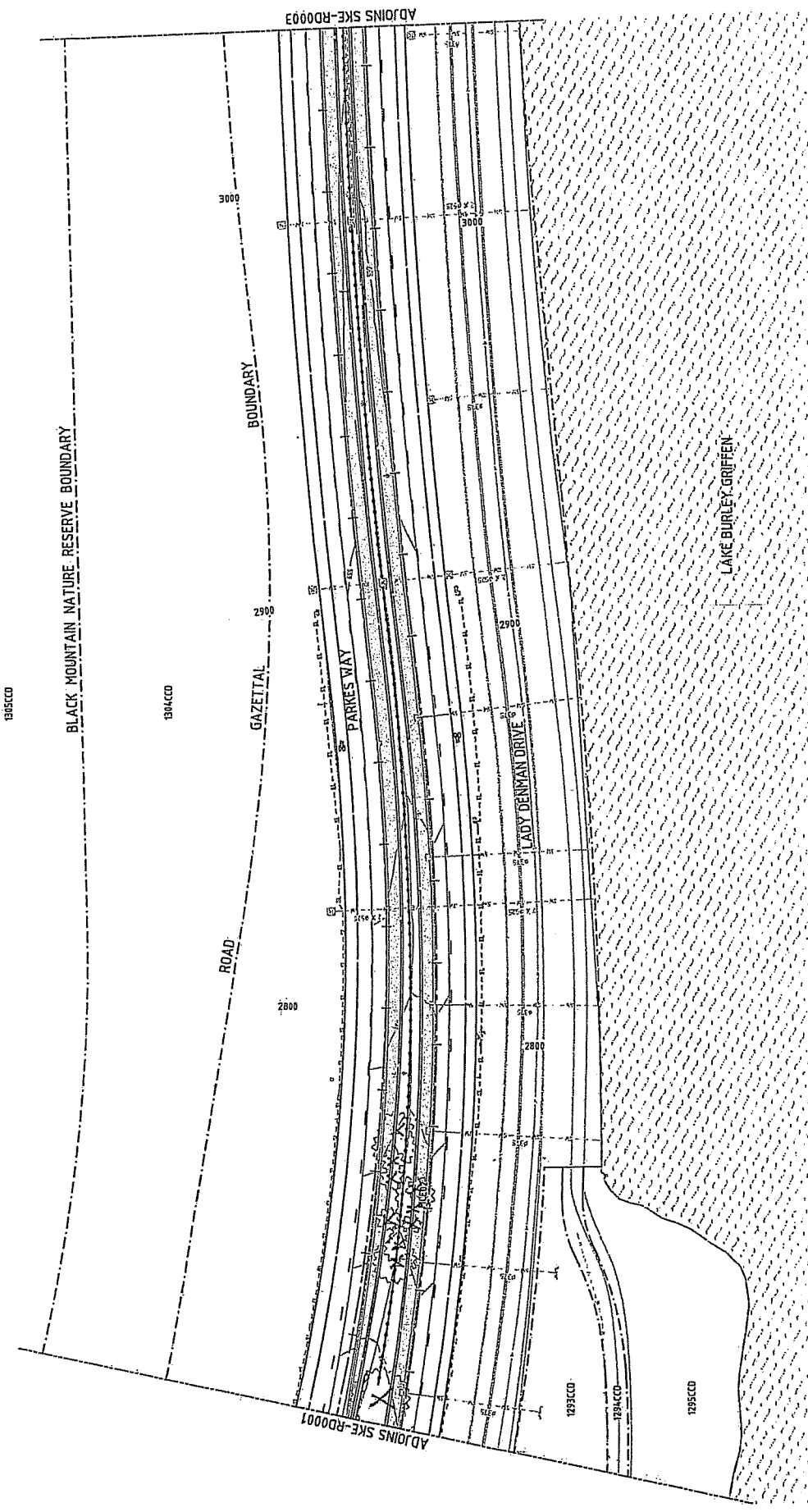


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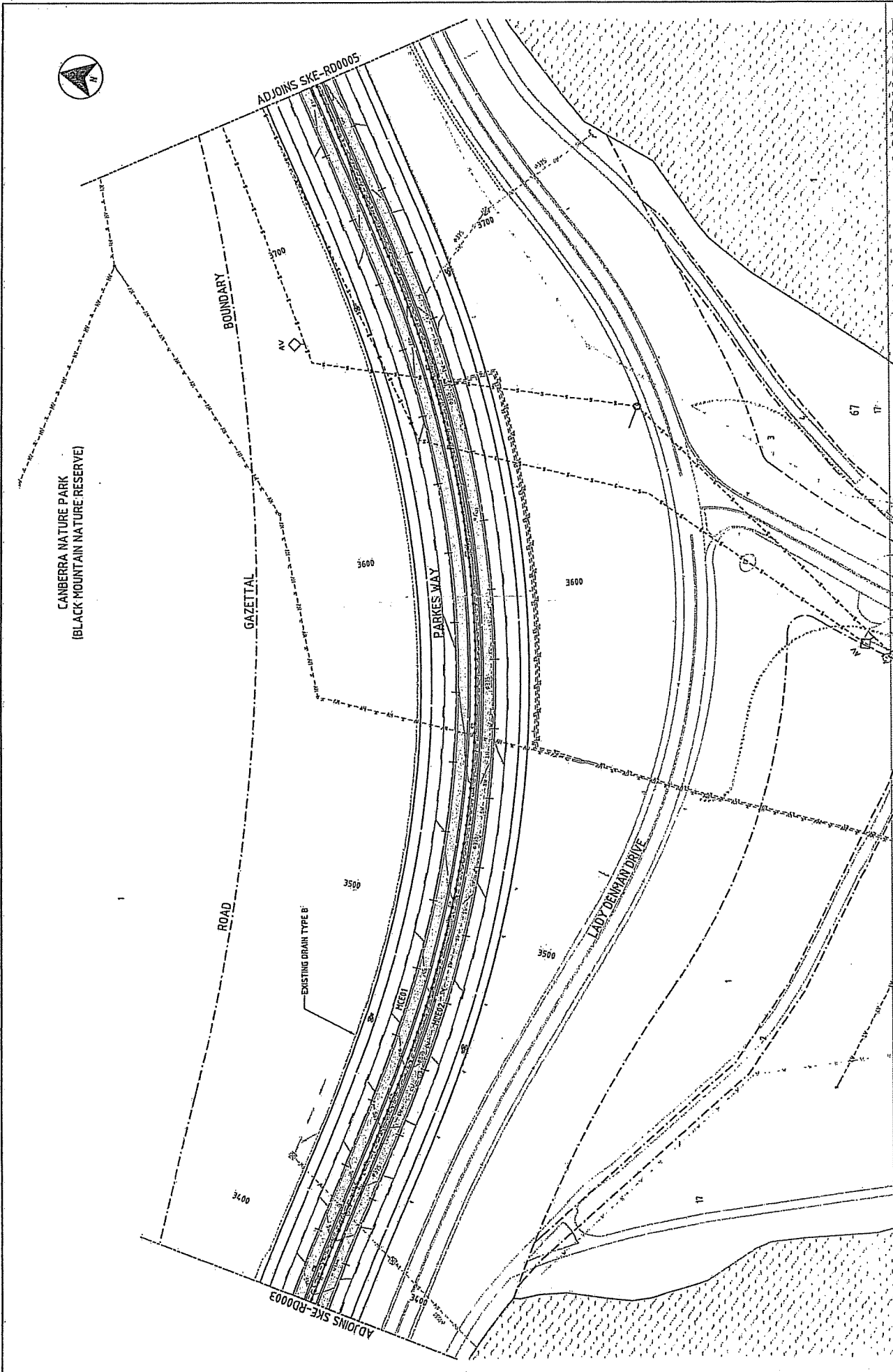


CANBERRA NATURE PARK
(BLACK MOUNTAIN NATURE RESERVE)



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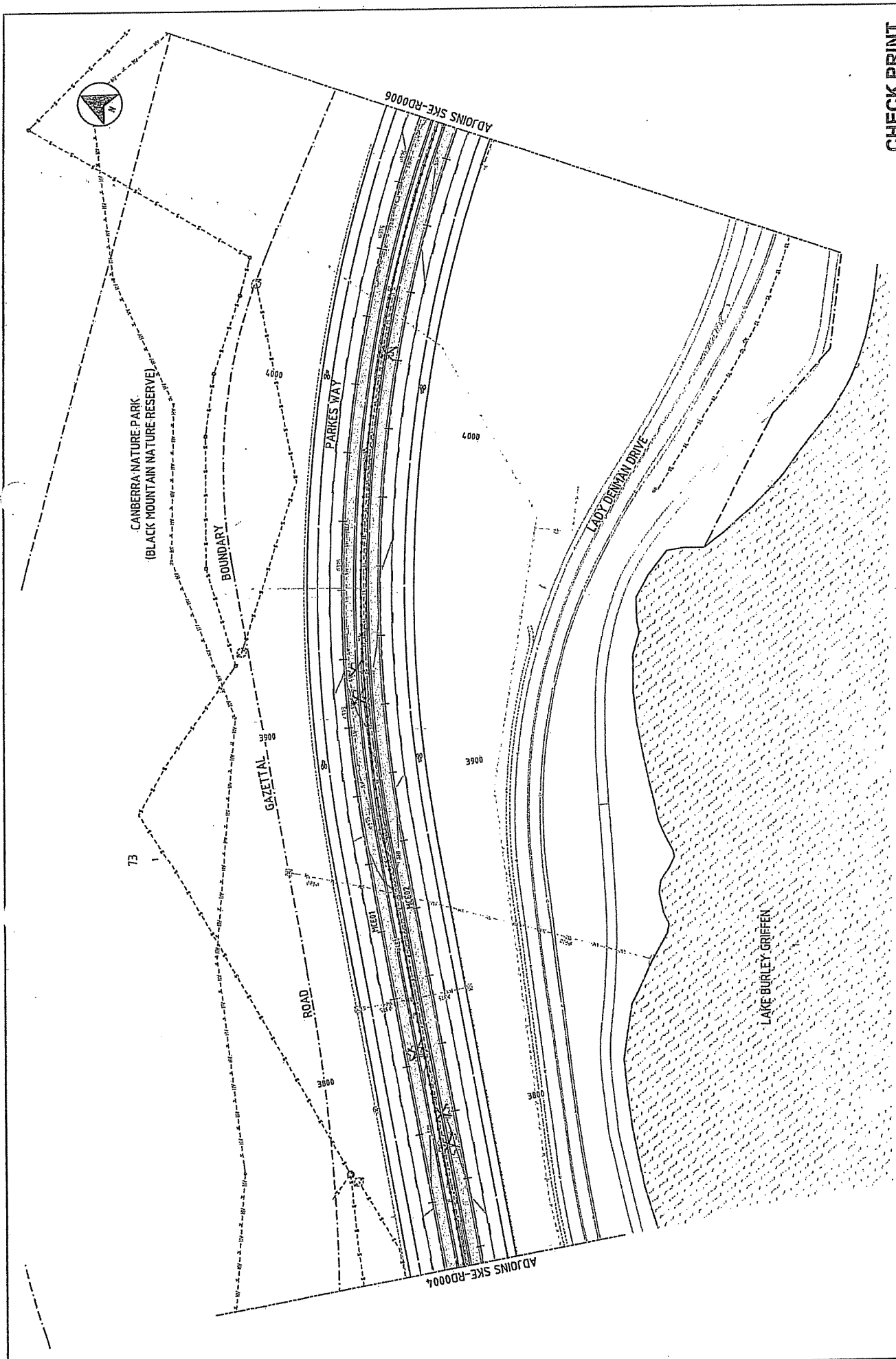
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THESE DRAWINGS ARE THE PROPERTY OF AECOM AND SHALL NOT BE USED FOR THE PURPOSES OF THIS PROJECT. THE DESIGN SHALL BE VALIDATED BY AECOM FOR THE CLIENT'S USE ONLY.		DESIGNED DATE:	CHECKED DATE:	DRAWN DATE:	APPROVED DATE:
No.	DT.	DATE	DESCRIPTION	BY	APPD
01					
SCALE 1:500 FULL SIZE A1				SHEET 01	



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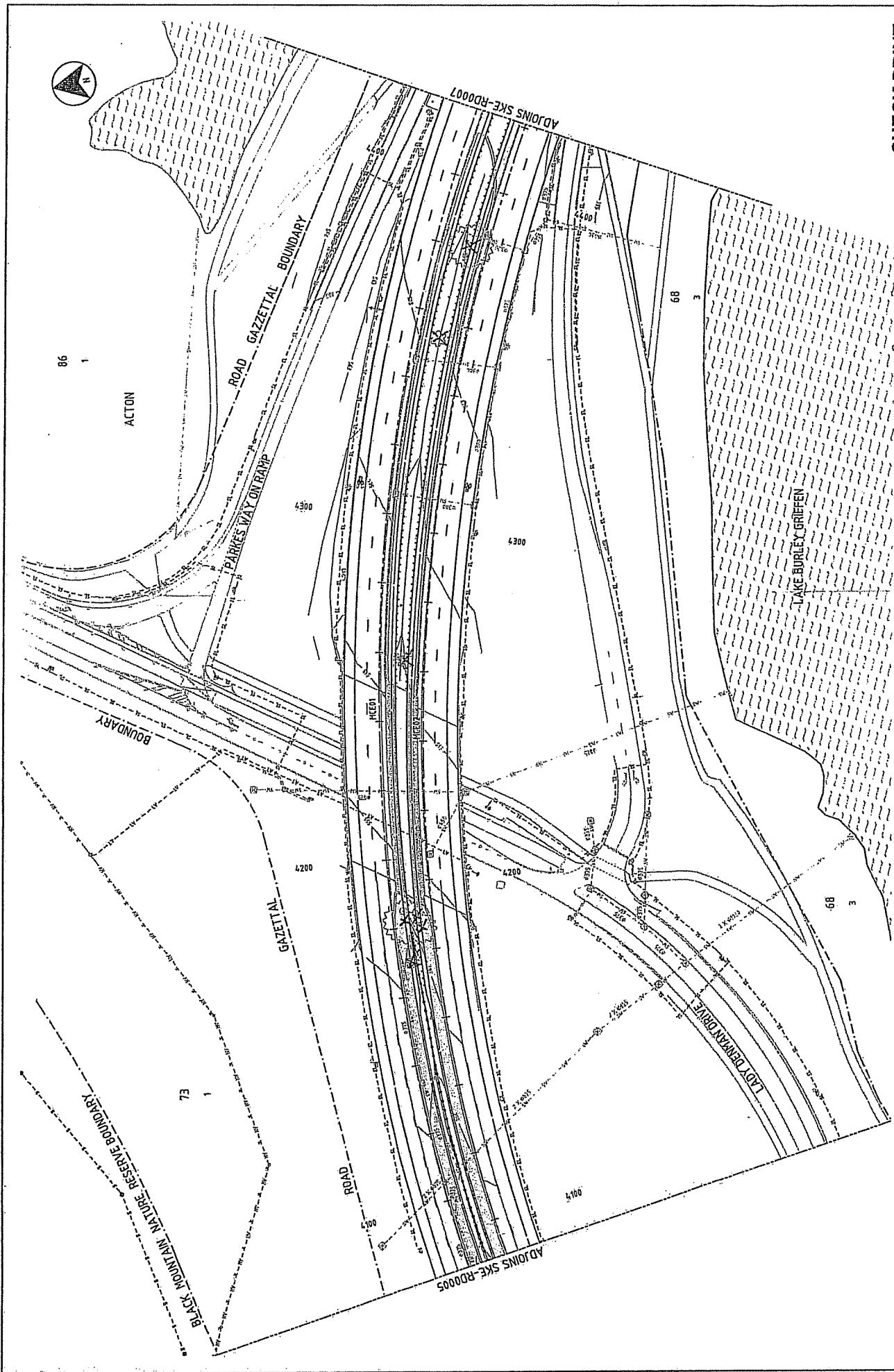
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NO.	BY	DATE	DESCRIPTION																			
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Small text at the bottom of the page, likely containing project details or a disclaimer.



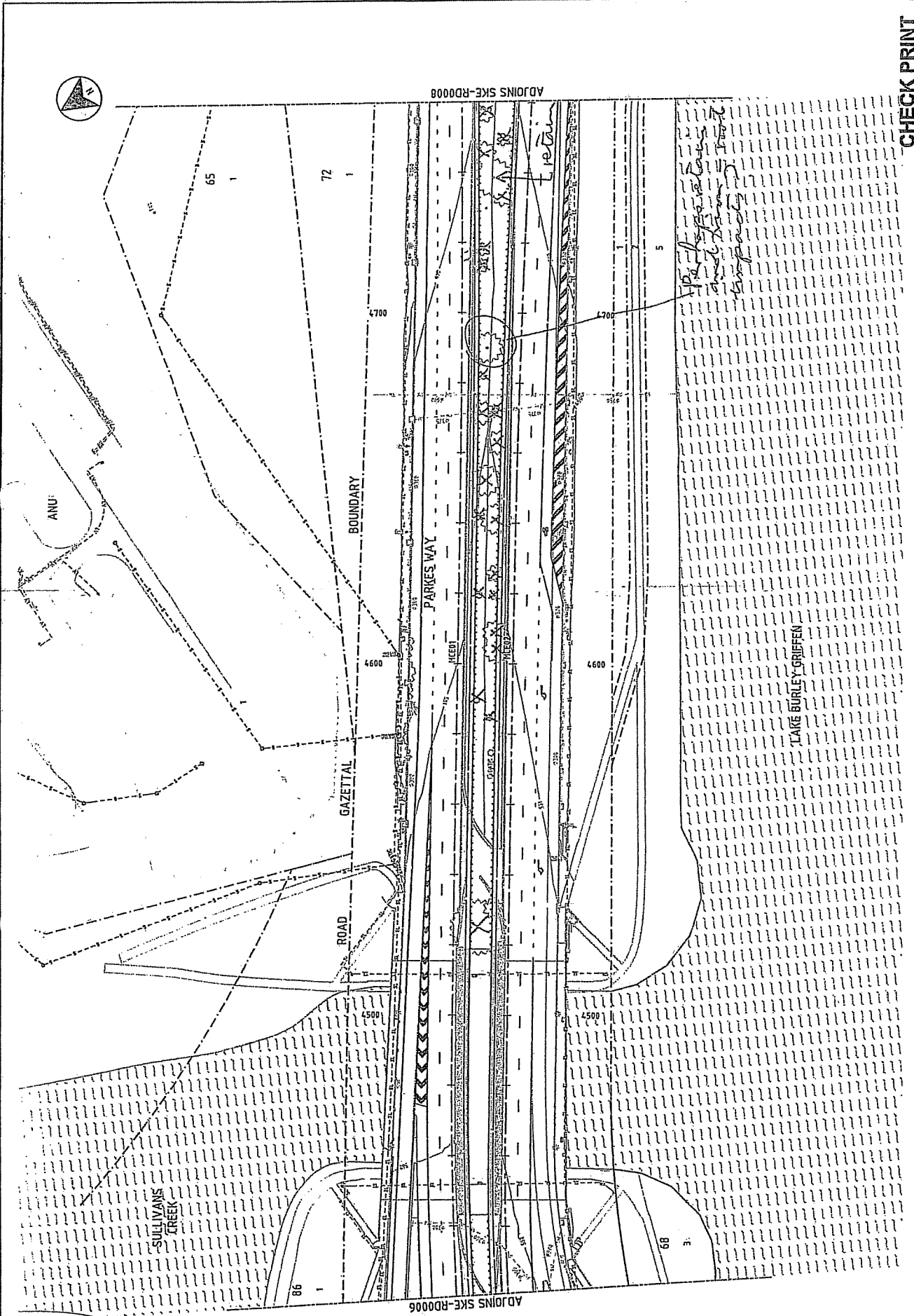
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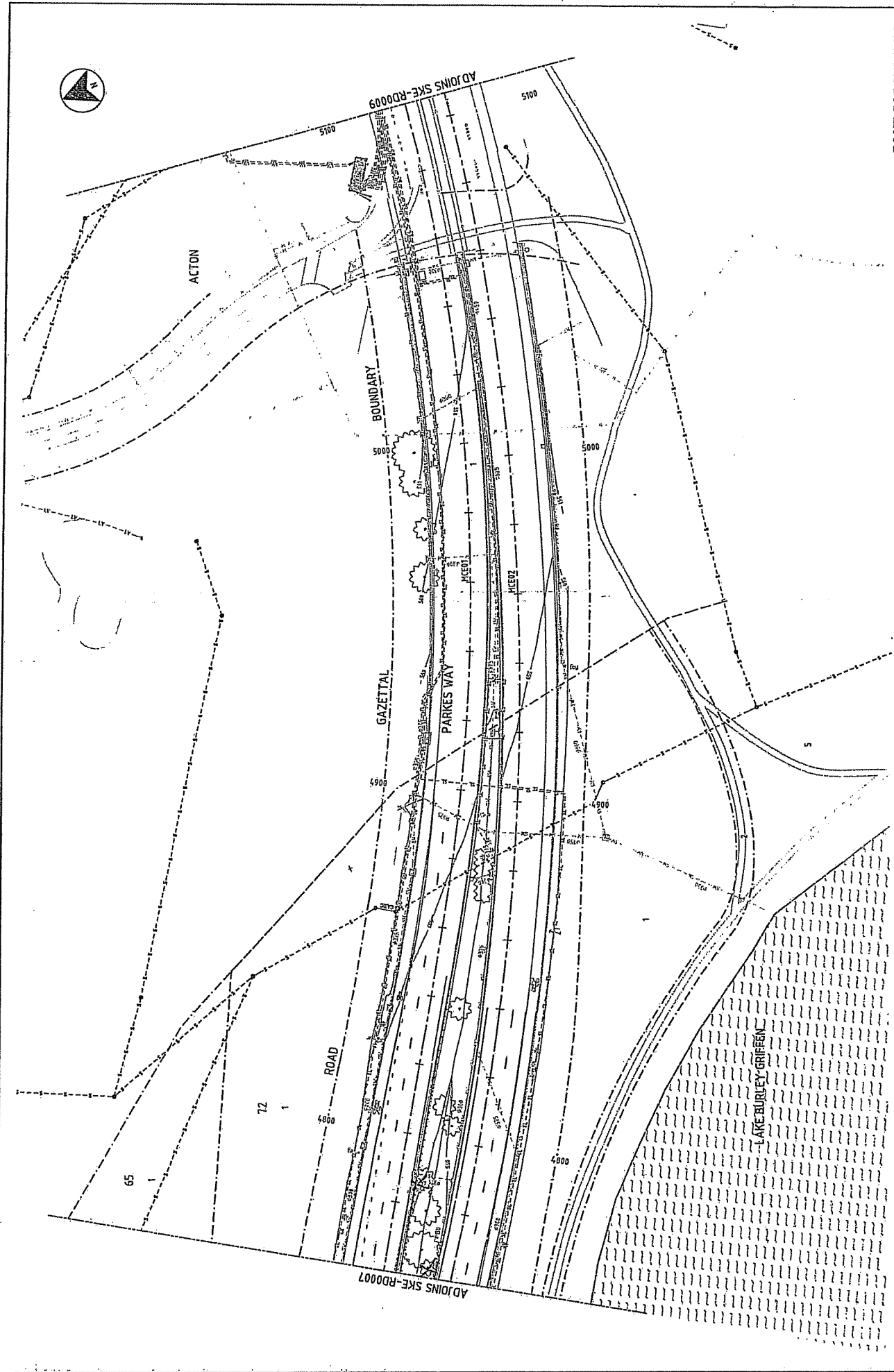
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01																											
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No.	BY	DATE	DESCRIPTION	APP'D																			
1																							
<p>APPROVED FOR CONSTRUCTION</p> <p>DATE: 15/01/2020</p>		<p>APPROVED FOR DESIGN</p> <p>DATE: 15/01/2020</p>		<p>APPROVED FOR PERMITTING</p> <p>DATE: 15/01/2020</p>		<p>APPROVED FOR TENDER</p> <p>DATE: 15/01/2020</p>		<p>APPROVED FOR CONSTRUCTION</p> <p>DATE: 15/01/2020</p>		<p>APPROVED FOR CONSTRUCTION</p> <p>DATE: 15/01/2020</p>		<p>APPROVED FOR CONSTRUCTION</p> <p>DATE: 15/01/2020</p>											
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 STATE: INFORMATION
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 SITE # 01

NO.	DATE	DESCRIPTION

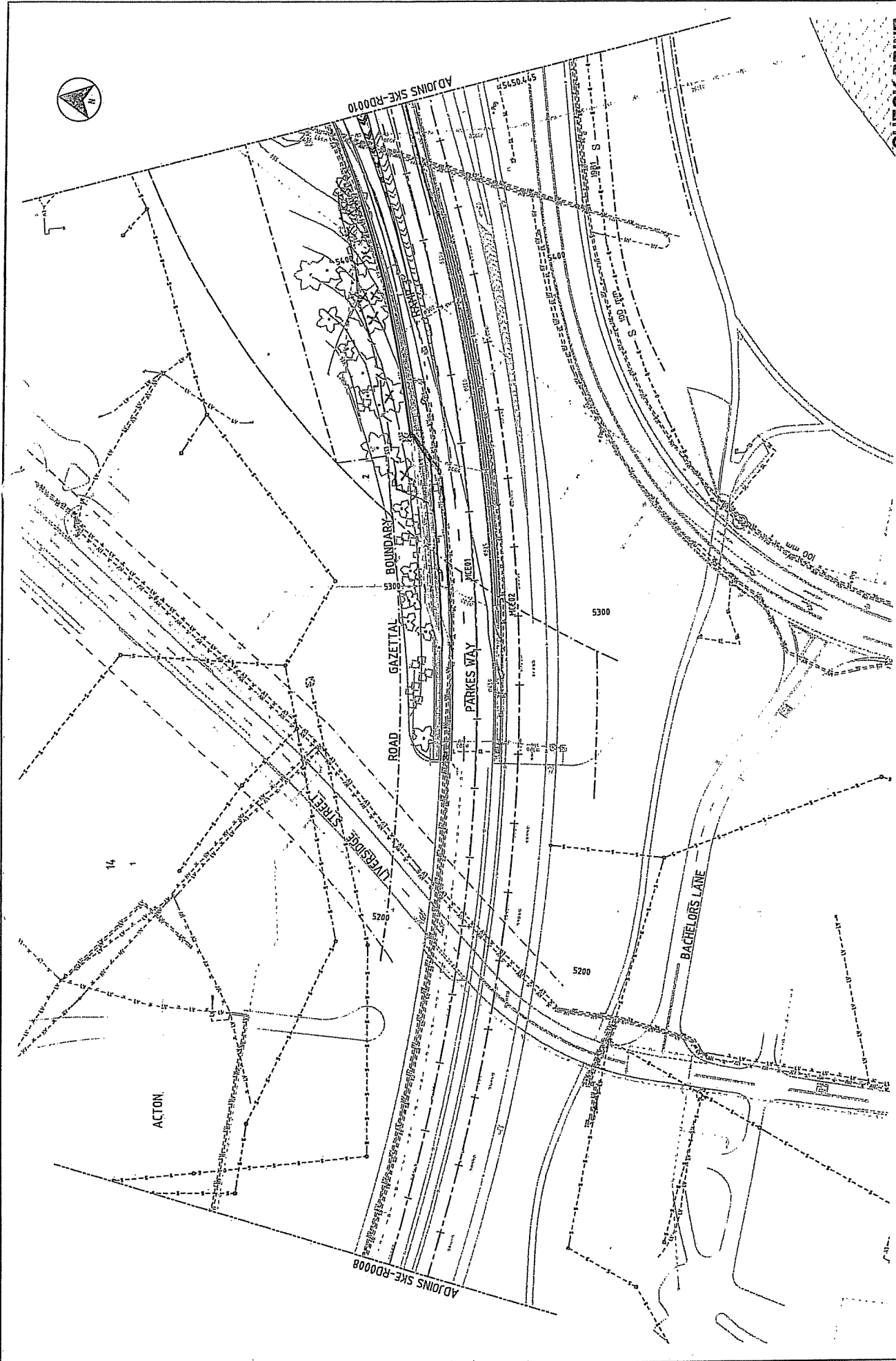
AECOM
 AECOM AUSTRALIA PTY LTD, A.B.N. 20 699 846 8

LOGO CONTRACTOR

NO.	DATE	DESCRIPTION

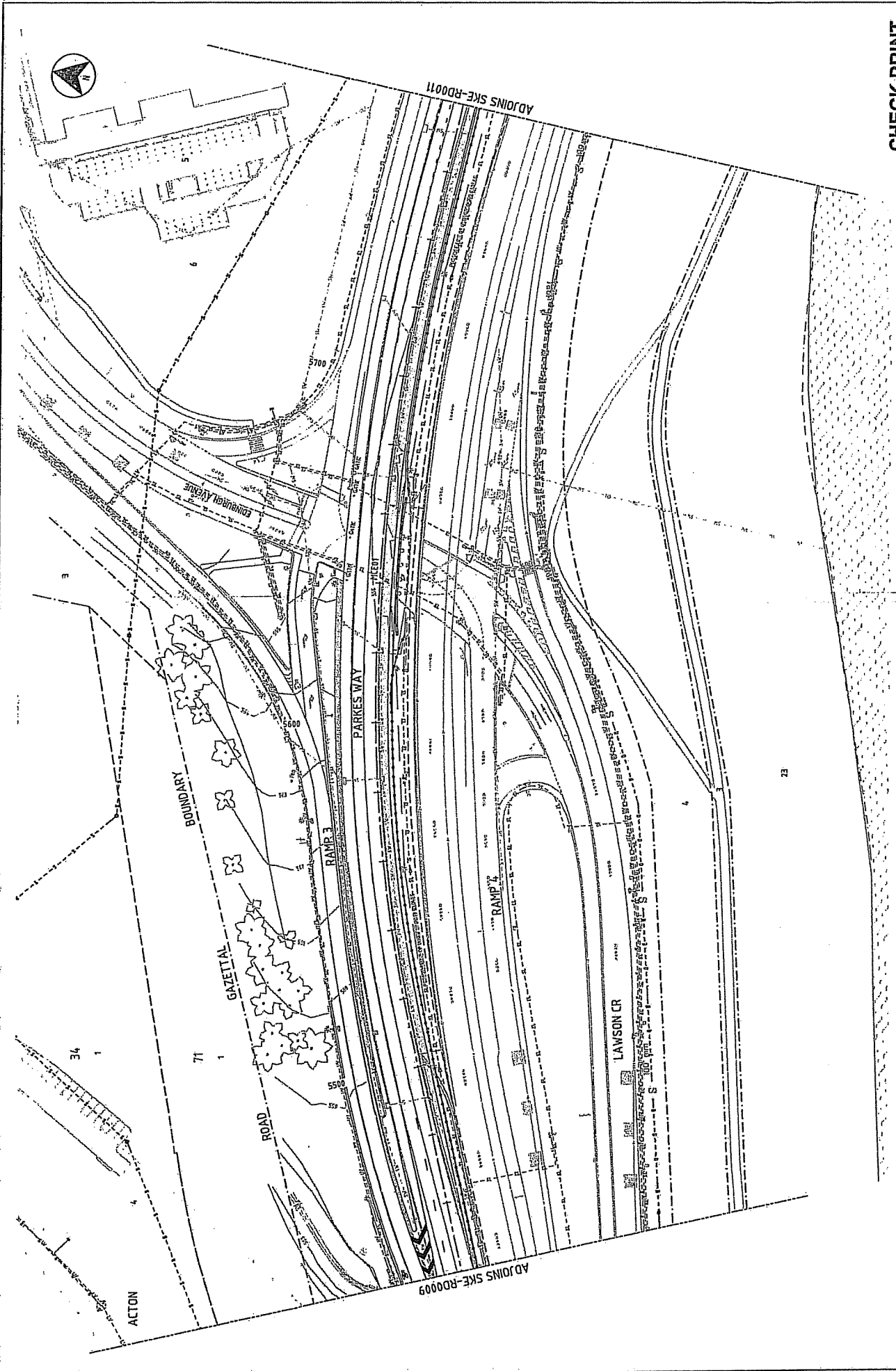
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NO.	DATE	DESCRIPTION	WDR	APPD



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REVISIONS NO. BY DATE DESCRIPTION 1. J. S. 11/11/11 2. J. S. 11/11/11 3. J. S. 11/11/11		SCALE 1:100 FULL SIZE AT 1:100		DATE 11/11/11		DRAWN BY J. S.		CHECKED BY J. S.		DATE 11/11/11	
THE CHECK IS VALID ONLY IF THE CHECKER'S SIGNATURE IS PRESENT AND THE CHECK IS MADE WITHIN THE PERIOD OF VALIDITY OF THE CHECK AS SPECIFIED IN THE CHECKING SYSTEM. THE CHECKER IS RESPONSIBLE FOR THE ACCURACY OF THE CHECK AND FOR THE VALIDITY OF THE CHECK.											
BACKGROUND RECORD <input type="checkbox"/> ROAD PLAN <input type="checkbox"/> SITE PLAN <input type="checkbox"/> CHECK PRINT TOTAL DATE				PROJECT INFORMATION PROJECT NO. 60198222-SKE-20-RD0009 DRAWN BY J. S. CHECKED BY J. S. DATE 11/11/11				CLIENT INFORMATION CLIENT NAME AECOM CLIENT ADDRESS AECOM AUSTRALIA PTY LTD CLIENT PHONE 08 93 04 6 135			
PROJECT TITLE PARKES WAY WIDENING											
SHEET NO. 01 OF 01											



CHECK PRINT

PROJECT INFORMATION

PROJECT: PARKWAY WIDENING

DATE: _____

SCALE: _____

PROJECT NO: 60198222-SKE-20-RD0010

SHEET NO: 01

REVISIONS

NO.	BY	DATE	DESCRIPTION

APPROVALS

DESIGNED	CHECKED	DATE

LOGO_CONTRACTOR

AECOM

REGD. ARCHITECTS & CIVIL ENGRS. (S.A.)

CONTRACT NO.

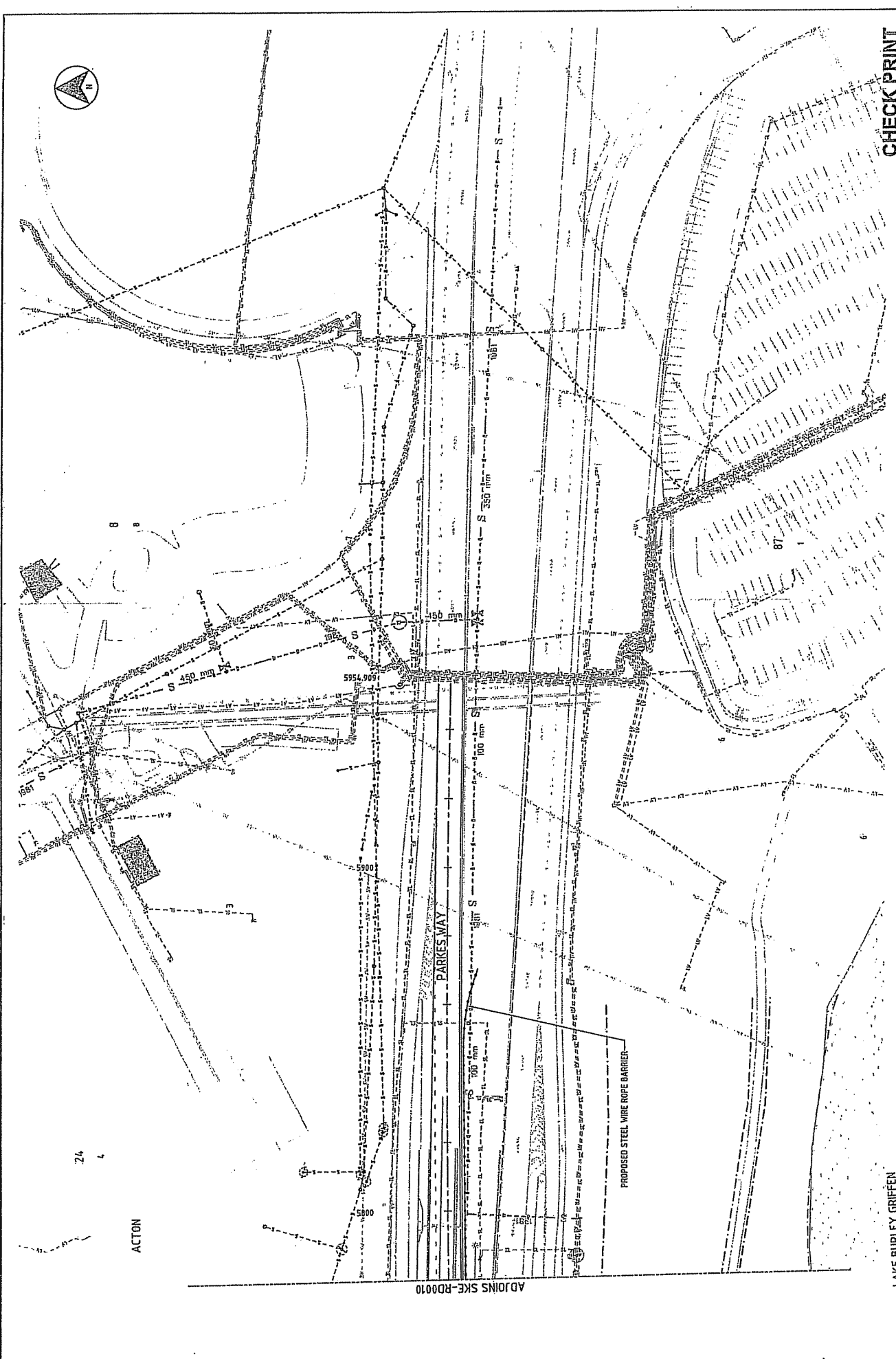
LOGO_CONTRACTOR

SCALE: 1:500

DATE: 11/2008

DESCRIPTION

DATE: 11/2008



CHECK PRINT

LAKE BURLEY GRIFFEN

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NO.	BY	DATE	DESCRIPTION
01	LAKE BURLEY GRIFFEN		

SCALE: 1" = 50'

DESIGNED	APPROVED	DATE	BY
DESIGNED	APPROVED	DATE	BY

LOGO CONTRACTOR

AECOM

AECOM, INCORPORATED, P.O. BOX 1187, FARMINGTON, CT 06030-1187

PROJECT: PARKERS WAY WIDENING

CONTROL MCE01
CH 5780 TO CH 5954.909

DATE: FSP

PROJECT NO: 60198222-DRG-20-RD1011

SHEET: 01

141 13

McLean, Jock

From: Blackmore, Marc [Marc.Blackmore@aecom.com]
Sent: Friday, 23 September 2011 9:25 AM
To: Deschamps, Chris
Cc: McLean, Jock; McHugh, Ben; Weeks, Rod
Subject: Parkes Way Widening
Attachments: decision notice.pdf; 60198222-drg-30-sl4018 A.pdf; 60198222-drg-30-sl4019 A.pdf; 60198222-drg-30-sl4021 A.pdf; 60198222-drg-30-sl4031 A.pdf; 60198222-drg-30-sl4003 A.pdf; 60198222-drg-30-sl4004 A.pdf; 60198222-drg-30-sl4005 A.pdf; 60198222-drg-30-sl4006 A.pdf; 60198222-drg-30-sl4007 A.pdf; 60198222-drg-30-sl4008 A.pdf; 60198222-drg-30-sl4009 A.pdf; 60198222-drg-30-sl4010 A.pdf

Hi Chris

We have received conditional approval for the Parkes Way Widening Project from NCA (attached). One of the conditions of the approval are the luminaries to be full cut off.

Currently down the centre median are a mixture of full cut off and standard luminaries (60% cut off/ 40% standard approx). Our submitted design specifies standard luminaries (drawings attached). As full cut off design will increase the number of lights up to 30% resulting in additional project costs and long term running costs, please can you advise TAMs position on this before we go back to NCA.

Regards

Marc Blackmore
Associate Director - Program Project Management
D +61 2 6201 3023 M +61 412 294 845
Marc.Blackmore@aecom.com

AECOM
Level 2, 60 Marcus Clarke Street, Canberra, ACT 2600
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www.aecom.com

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Australian Government
National Capital Authority

Job No: 17400, File No: 11/221, TRIM No: 93252

Mr Marc Blackmore
AECOM Australia Pty Ltd
PO Box 1942
CANBERRA ACT 2601

Dear Mr Blackmore

Parkes Way Widening Between Glenloch Interchange and Edinburgh Avenue

I refer to the works approval application and supporting information on the above works which was received by the National Capital Authority (NCA) for consideration on 16 May 2011. I also refer to further information received on 26 May, 8 June, 4 July, 28 July, 17, 18, 19, and 22 August and 13 September 2011.

The NCA advises that:

Works Approval is granted pursuant to Section 12(1)(b) of the *Australian Capital Territory (Planning and Land Management) Act 1988* for the widening of Parkes Way between the Glenloch Interchange and Edinburgh Avenue as shown on the drawing numbers listed in the attached drawing schedule, and as outlined in the supporting documentation submitted.

The term "works" is defined in the Act to exclude anything done inside buildings or structures. Under the Act works approval may be given where the works are in accordance with the National Capital Plan. This works approval is given only on the basis of satisfaction that the works are in accordance with the National Capital Plan and does not constitute building approval. It does not constitute any form of warranty as to the structural sufficiency of the proposed works, as to safety of the works or as to safety of the performance of the works. It is the responsibility of the applicant to ensure the safety of the works and the safety of the performance of the works and to ensure that any approvals required under separate legislation are also obtained.

A separate application for works approval is required to be submitted to the NCA for the following works, prior to commencement on site:

- A Site Establishment Management Plan (SEMP);
- A Construction Environmental Management Plan (CEMP);
- Contractor methodology for the barge works within Lake Burley Griffin and Sullivans Creek; and
- A HAZMAT Report for proposed works within the Acton Tunnel.

Mitigation measures are to be in place for the duration of the works, as per the *Parkes Way Widening Environment Protection and Biodiversity Conservation Act 1999 Self Assessment Report*.

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ABN 75 149 374 427

Advice on how a skid resistant surface on the areas in the shadow of the Black Mountain escarpment (where ice has a tendency to occur) will be maintained on the crossfall of the road is also to be submitted to the NCA prior to commencement of works.

The NCA understands that you will liaise with Mr Nick Hunter, President ANU Boat Club, regarding access through Sullivans Creek, to Lake Burley Griffin, during construction works.

Please note that the luminaries are to be full cut off, and a 13.5m wide clearance zone is to be maintained in Sullivans Creek at all times.

If any indigenous heritage sites are uncovered during the works, construction activity is to cease and appropriate protocols followed in relation to the assessment and management of artefacts.

The NCA also understands that TaMS will sign off on design acceptance for the structural integrity of the bridge over Sullivan's creek.

Should you have any query or need further advice on the matter please do not hesitate to contact Carly Porreca on (02) 6271 2866.

Yours sincerely,



Graham Sandeman
Director, Statutory Planning

14 September 2011

APPROVED DRAWING SCHEDULE FOR (WA17400) – WIDENING OF PARKES WAY BETWEEN GLENLOCH INTERCHANGE AND EDINBURGH AVENUE

Drawing No.	Drawing Revision	Drawing Date	Drawing Title
AECOM			
60198222-DRG-30-TW6001	A	14/09/11	Temporary Traffic Management – General Notes and Legend
60198222-DRG-30-TW6011	A	14/09/11	Temporary Traffic Management – Detour Cycle Path
60198222-DRG-30-TW6012	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 2536.660 to CH 2700
60198222-DRG-30-TW6013	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 2700 to CH 3040
60198222-DRG-30-TW6014	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 3040 to CH 3380
60198222-DRG-30-TW6015	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 3380 to CH 3740
60198222-DRG-30-TW6016	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 3740 to CH 4080
60198222-DRG-30-TW6017	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 4080 to CH 4420
60198222-DRG-30-TW6018	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 4420 to CH 4760
60198222-DRG-30-TW6019	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 4760 to CH 5100
60198222-DRG-30-TW6020	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 5100 to CH 5440
60198222-DRG-30-TW6021	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 5440 to CH 5780
60198222-DRG-30-TW6022	A	14/09/11	Temporary Traffic Management – Control MCE01 CH 5780 to CH 5932.897
60198222-DRG-30-TC5001	A	14/09/11	Traffic Control Devices – Legend and Notes
60198222-DRG-30-TC5004	A	14/09/11	Traffic Control Devices
60198222-SKE-20-RD0001	01	-	Site Plan – Tree Assessment – Sheet 1
60198222-SKE-20-RD0002	01	-	Site Plan – Tree Assessment – Sheet 2
60198222-SKE-20-RD0003	01	-	Site Plan – Tree Assessment – Sheet 3
60198222-SKE-20-RD0004	01	-	Site Plan – Tree Assessment – Sheet 4
60198222-SKE-20-RD0005	01	-	Site Plan – Tree Assessment – Sheet 5

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ABN 75 149 374 427

60198222-SKE-20-RD0006	01	-	Site Plan – Tree Assessment – Sheet 6
60198222-SKE-20-RD0007	01	-	Site Plan – Tree Assessment – Sheet 7
60198222-SKE-20-RD0008	01	-	Site Plan – Tree Assessment – Sheet 8
60198222-SKE-20-RD0009	01	-	Site Plan – Tree Assessment – Sheet 9
60198222-DRG-20-GE0002	A	13/05/11	Drawing Index and Locality Plan
60198222-DRG-20-GE0003	A	13/05/11	General Notes and Legend
60198222-DRG-20-RD1001	A	13/05/11	Site Plan - Control MCE01 CH2536.660 to CH 2700
60198222-DRG-20-RD1002	A	13/05/11	Site Plan - Control MCE01 CH 2700 to CH 3040
60198222-DRG-20-RD1003	A	13/05/11	Site Plan - Control MCE01 CH 3400 to CH 3380
60198222-DRG-20-RD1004	A	13/05/11	Site Plan - Control MCE01 CH 3380 to CH 3740
60198222-DRG-20-RD1005	A	13/05/11	Site Plan - Control MCE01 CH 3740 to CH 4080
60198222-DRG-20-RD1006	A	13/05/11	Site Plan - Control MCE01 CH 4080 to CH 4420
60198222-DRG-20-RD1007	A	13/05/11	Site Plan - Control MCE01 CH 4420 to CH 4760
60198222-DRG-20-RD1008	A	13/05/11	Site Plan - Control MCE01 CH 4760 to CH 5100
60198222-DRG-20-RD1009	A	13/05/11	Site Plan - Control MCE01 CH 5100 to CH 5440
60198222-DRG-20-RD1010	A	13/05/11	Site Plan - Control MCE01 CH 5440 to CH 5780
60198222-DRG-20-RD1011	A	13/05/11	Site Plan - Control MCE01 CH 5780 to CH 5954.909
60198222-DRG-20-RD1012	A	13/05/11	Site Plan – On Ramp from Parkes Way to Commonwealth Avenue
60198222-DRG-20-RD1401	A	13/05/11	Typical Cross Sections – Control MCE01 CH 2600 and CH 2800
60198222-DRG-20-RD1402	A	13/05/11	Typical Cross Sections – Control MCE01 CH 330 and CH 3600
60198222-DRG-20-RD1403	A	13/05/11	Typical Cross Sections – Control MCE01 CH 4050 and CH 4600
60198222-DRG-20-RD1404	A	13/05/11	Typical Cross Sections – Control MCE01 CH 5340 and CH 5720
60198222-DRG-20-DR3001 to 60198222-DRG-20-RD3022	A	13/05/11	Drainage and Services Plan – Sheet 1 to Sheet 22 inclusive

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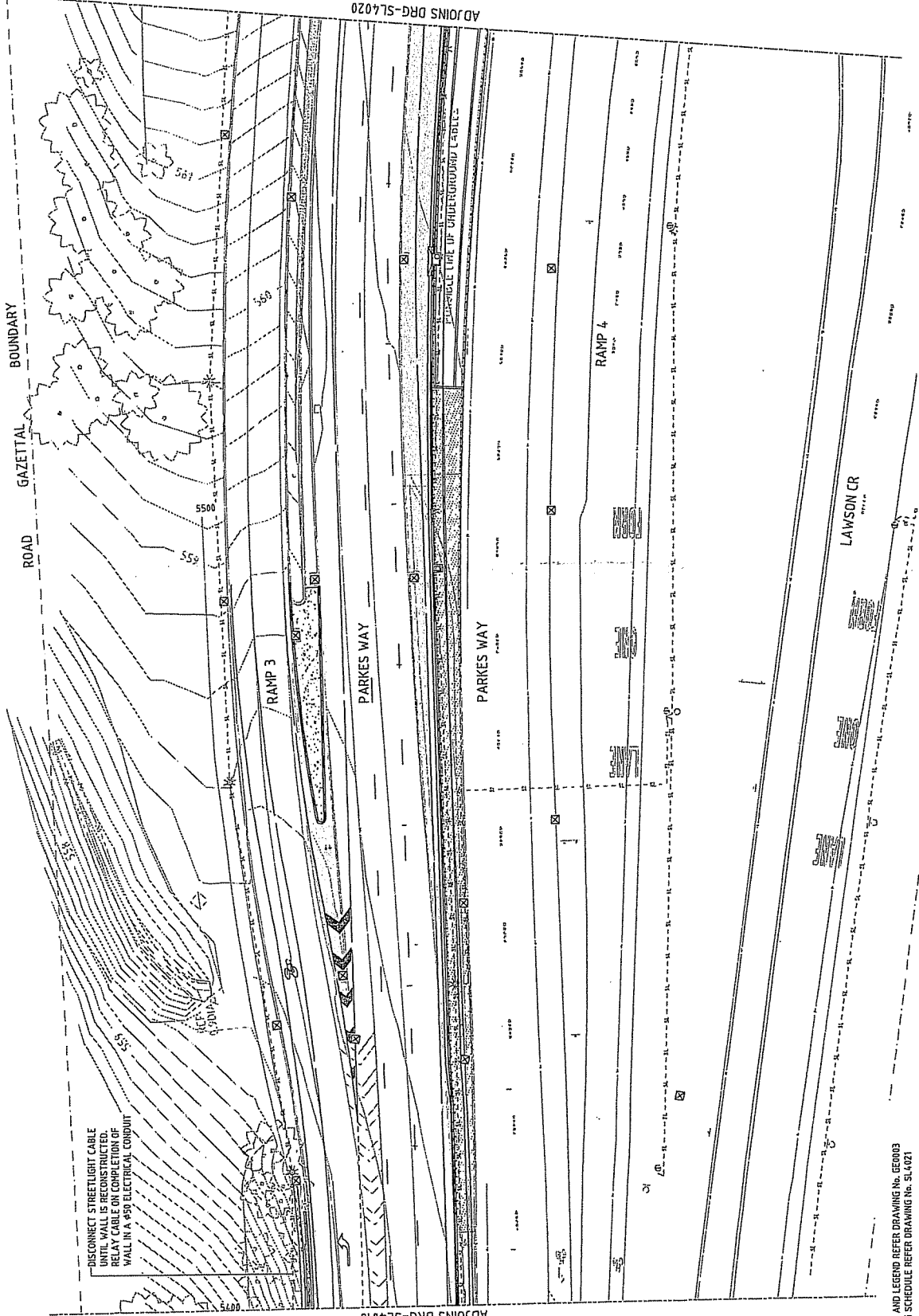
60198222-DRG-20-SL4002	A	13/05/11	Lighting Plan – Sheet 2
60198222-DRG-20-SL4003	A	13/05/11	Lighting Plan – Sheet 3
60198222-DRG-20-SL4004	A	13/05/11	Lighting Plan – Sheet 4
60198222-DRG-20-SL4005	A	13/05/11	Lighting Plan – Sheet 5
60198222-DRG-20-SL4006	A	13/05/11	Lighting Plan – Sheet 6
60198222-DRG-20-SL4021	A	13/05/11	Lighting Details – Sheet 1
60198222-DRG-20-EN7001	A	13/05/11	Environmental Management Plan – General Notes and Legend
60198222-DRG-20-EN7011 to 60198222-DRG-20-EN7021	A	13/05/11	Environmental Management Plan – Sheet 1 to Sheet 11 inclusive
60198222-DRG-20-EN7101	A	13/05/11	Environmental Management Plan – Typical Cross Sections Sheet 1
60198222-DRG-20-EN7102	A	13/05/11	Environmental Management Plan – Typical Cross Sections Sheet 2
60198222-DRG-20-RW8001	A	13/05/11	Adjustments to Retaining Wall No.11 Toe of Wall at Pavement – Plan and Elevation
60198222-DRG-20-RW8002	A	13/05/11	Adjustments to Retaining Wall No.11 - Typical Cross Section
60198222-DRG-BR-9101	A	-	Bridge Over Clunies Ross Street – Proposed Widening – General Arrangement – Sheet 1
60198222-DRG-BR-9102	A	-	Bridge Over Clunies Ross Street – Proposed Widening – General Arrangement – Sheet 2
60198222-DRG-BR-9201	A	-	Bridge Over Sullivans Creek – Proposed Widening – General Arrangement – Sheet 1
60198222-DRG-BR-9202	A	-	Bridge Over Sullivans Creek – Proposed Widening – General Arrangement – Sheet 2
EL001	T1	25/06/10	Acton Tunnel Lighting – Title Page, Locality Plan and Drawing List
EL002	T1	25/06/10	Acton Tunnel Lighting – Site Layout
EL100 to EL103	T1	25/06/10	Acton Tunnel Lighting – Lighting Layout Sheet 1 to Sheet 4 Inclusive
EL400	T1	25/06/10	Acton Tunnel Lighting – Main Switchroom Plan and Typical Cabling Arrangement
EL401	T1	25/06/10	Acton Tunnel Lighting – Tunnel Lighting Cable Ladder – General Arrangement
Redbox Design Group			
L-0878 D01	A	26/08/11	Parkes Way Widening – Landscape Plan West
L-0878 D02	A	26/08/11	Parkes Way Widening – Landscape Plan East

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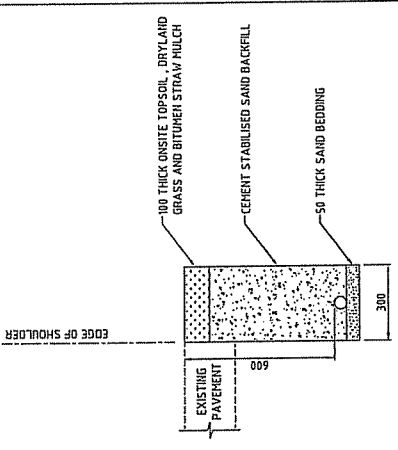


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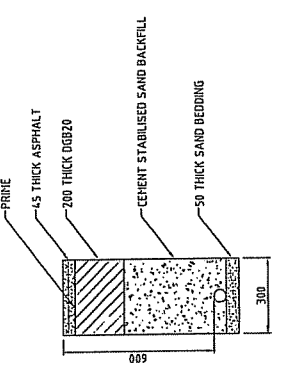
ADJOINS DRG-SL4018

- REFERENCES**
- FOR GENERAL NOTES AND LEGEND REFER DRAWING No. 55600
 - FOR STREET LIGHTING SCHEDULE REFER DRAWING No. 514021

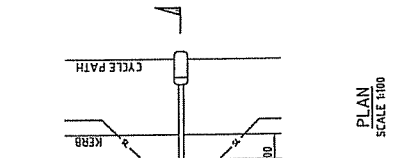
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THE DRAWING IS UNRELIABLE AND SHALL NOT BE USED FOR THE PURPOSES OF THIS PROJECT.		THE SCALE OF THIS TITLE BLOCK CORRESPONDS TO THE SCALE AND ORIENTATION OF THE PROJECT.																					
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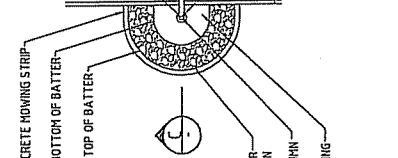
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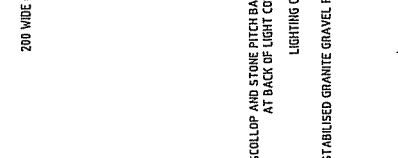
LIGHTING CONDUIT BACKFILL - WITHIN ROAD PAVEMENTS
SCALE 1:10



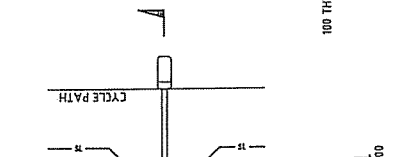
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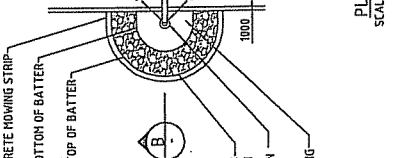
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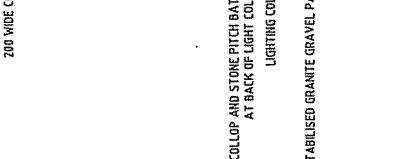
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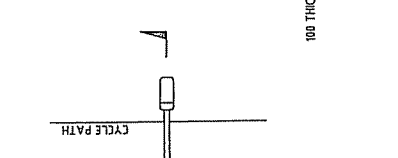
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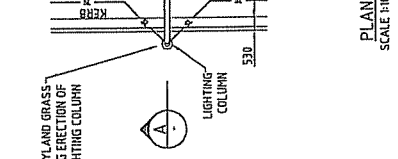
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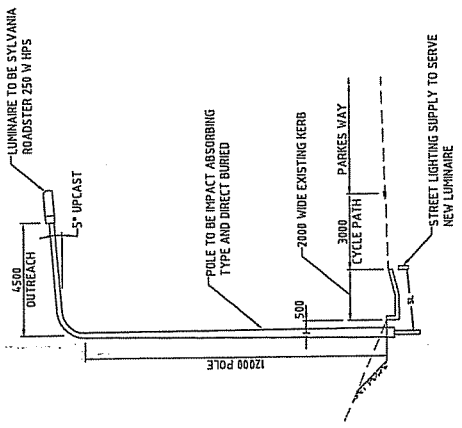
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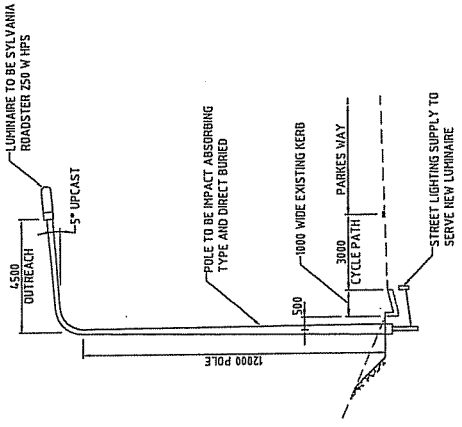
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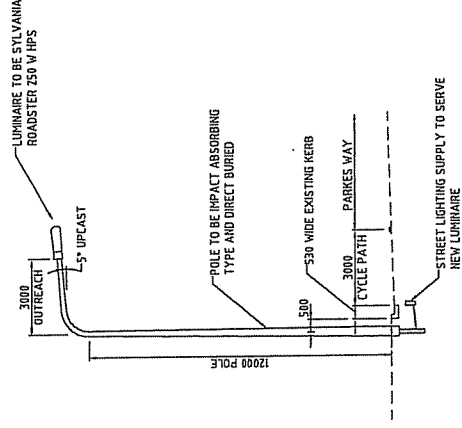
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SECTION C SCALE 1:100



SECTION B SCALE 1:100



SECTION A SCALE 1:100

NOTES
1. STONE PITCHING SHALL BE 50mm THICK HORTARATED STONE PITCHING ON 100 THICK HPS CONCRETE BED.

REVISIONS

No.	BY	DATE	REASON FOR REVISIONS	DESCRIPTION	EL	IP	APPD

SCALE: 1:100

CONTRACTOR: AECOM

CLIENT: PARKES WAY WIDENING

PROJECT: LIGHTING DETAILS

DATE: DR

PROJECT NO: 60198222-DRG-30-SL4031

SHEET NO: A

PROJECT: PARKES WAY WIDENING

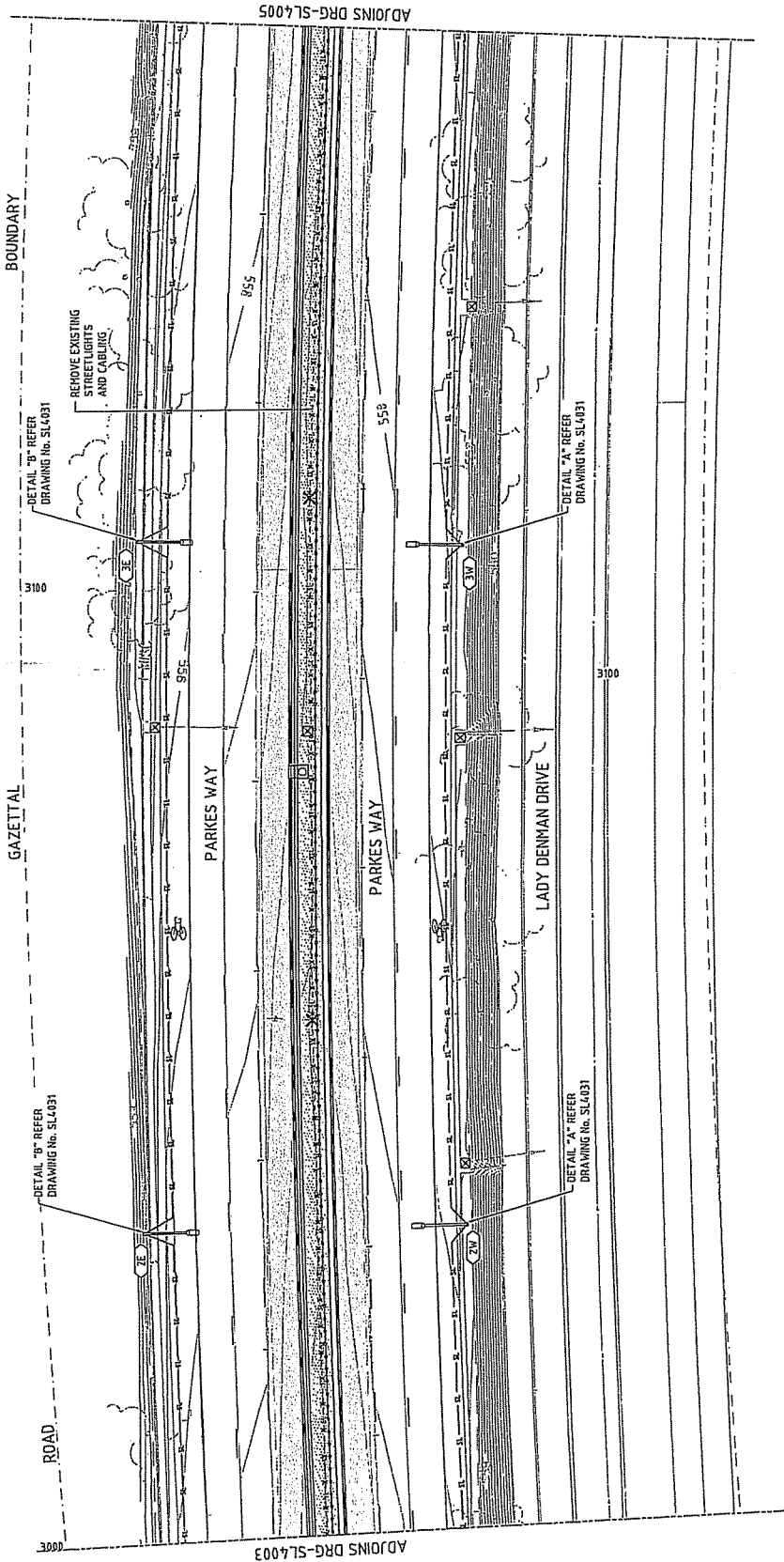
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DATE: DR

PROJECT NO: 60198222-DRG-30-SL4031

SHEET NO: A



ADJOINS DRG-SL4005

ADJOINS DRG-SL4003

- REFERENCES**
- FOR GENERAL NOTES AND LEGEND REFER DRAWING No. 600003
 - FOR STREET LIGHTING SCHEDULE REFER DRAWING No. SL4021

This drawing is confidential and shall not be used for the purposes of this project.

No.	BY	DATE	DESCRIPTION

SCALE: 1:250
 25m
 12.5m
 6.25m
 FULL SIZE: 1:1

REVISION	DATE	BY	DESCRIPTION

CONTRACTOR: AECOM

RECORD: AECOM Australia Pty Ltd ABN: 29 093 846 935



PROJECT: PARKES WAY WIDENING
 LIGHTING PLAN CONTROL MCE01
 CH 3000 TO CH 3060
 DRAWING No. 60198222-DRG-30-SL4004
 SHEET No. A

