

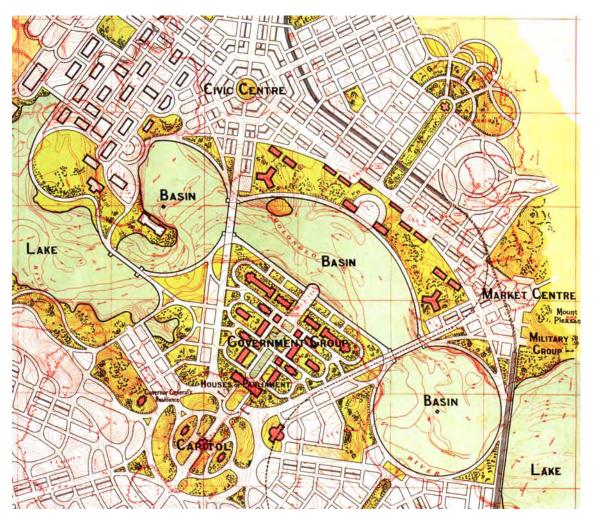
## BRIDGING OF KINGS AVENUE OVER PARKES WAY AT THE RUSSELL ROUNDABOUT, CANBERRA, AC.T.

Parliamentary Standing Committee on Public Works

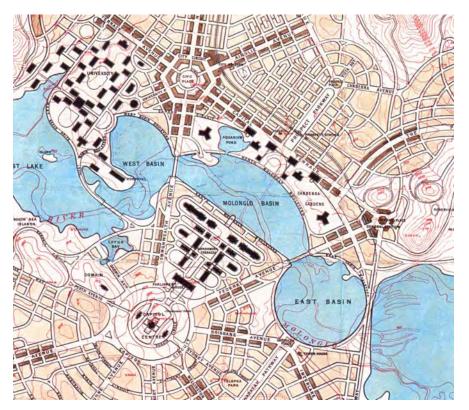
Public Hearing Parliament House, Canberra

6 August 2008

Professor James Weirick, President Walter Burley Griffin Society Inc. 140 Edinburgh Road Castlecrag, NSW 2068



NCA, Griffin Legacy, 2004, p.45 (detail)

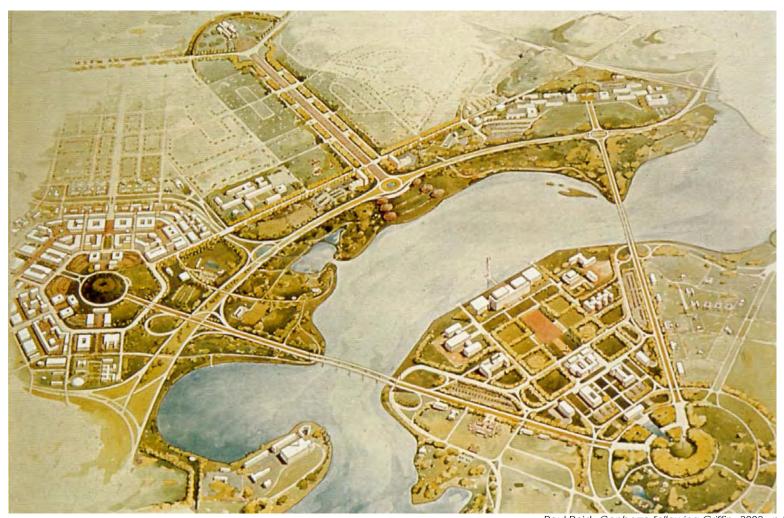




NCA, Griffin Legacy, 2004, pp.110-111

Griffin Plan 1918

2004 streets overlaid on Griffin Plan 1918



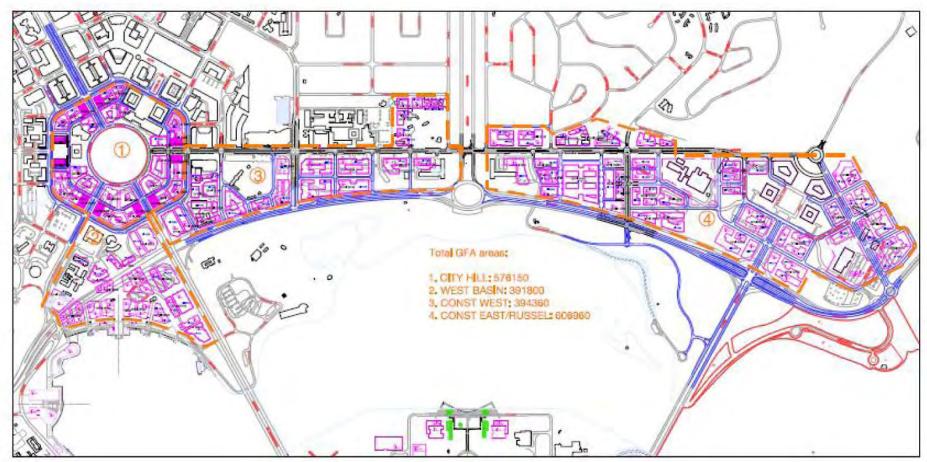
Paul Reid, Canberra following Griffin, 2002, p.269

National Capital Development Commission, Parkes Way, 1958-1963



NCA, Griffin Legacy, 2004, p.176

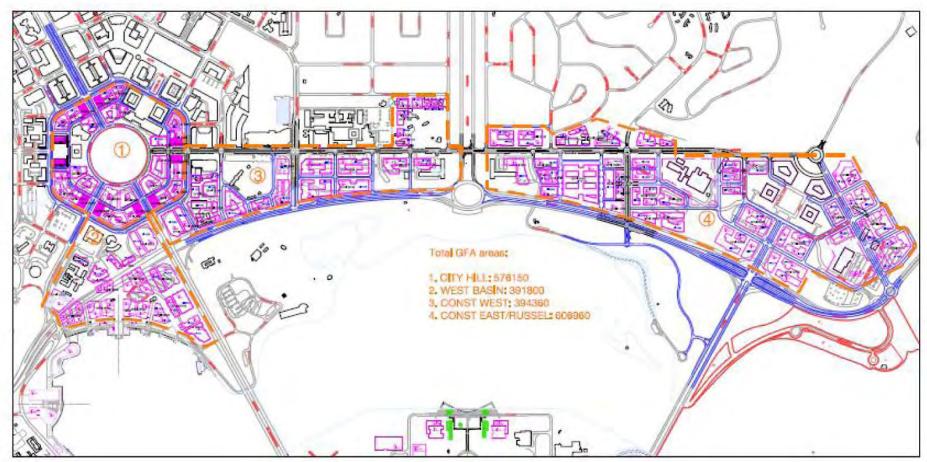
NCA Central National Area Redevelopment, 2004 to date



Maunsell AECOM, Griffin Legacy Implementation Traffic Analysis, 2006, p.2, 14

### NCA Central National Area Redevelopment, 2031

Commercial GFA 934,000 sq m Residential GFA 675,000 sq m Other 236,000 sq m Total 1,845,000 sq m



Maunsell AECOM, Griffin Legacy Implementation Traffic Analysis, 2006, p.2, 14

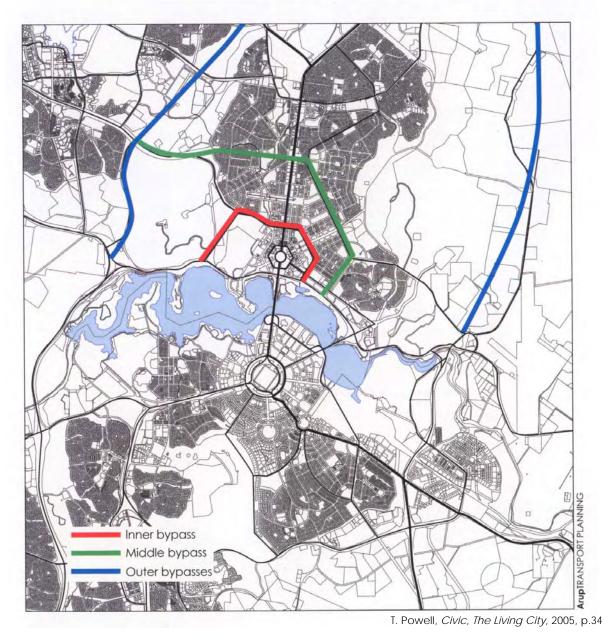
### Constitution Avenue East & West Redevelopment, 2031

Commercial GFA 613,000 sq m Residential GFA 343,000 sq m Other 73,000 sq m Total 1,029,000 sq m



NCA website

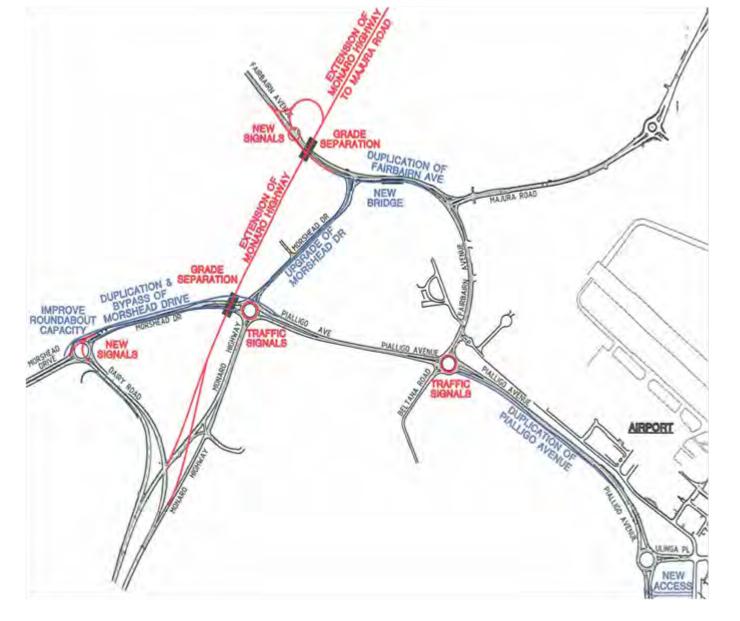
NCA Central National Area Redevelopment



Principal Entry Points to Civic



Civic - Canberra Airport Connection



Canberra Airport Roads Upgrade, 2006 to date

Stage One – Changes

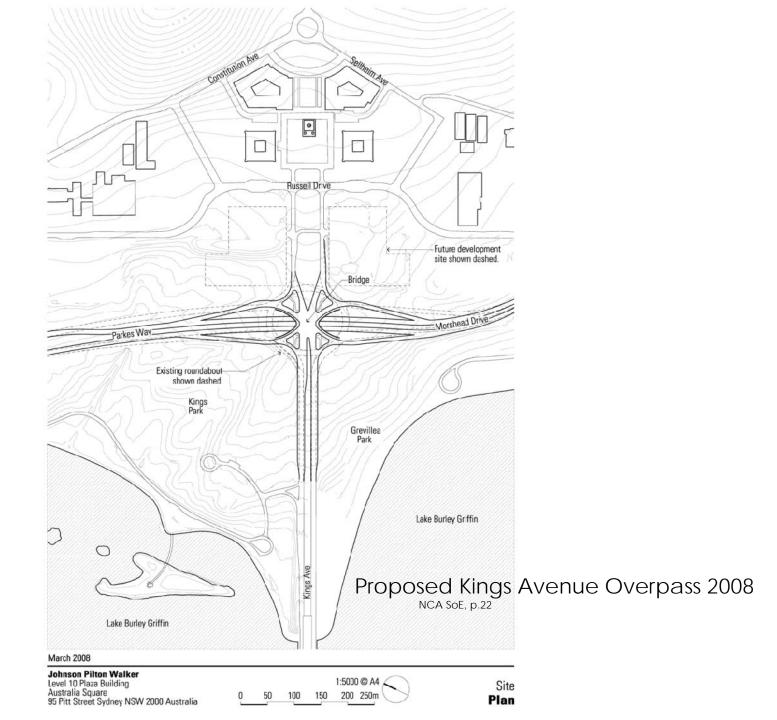
Stage Two - Changes

Canberra Airport Roads Working Group, Report, 2006, p.6

NCA, SoE, p.22 overlaid on Amendment 60 to the National Capital Plan: Constitution Avenue, 2006, p.16



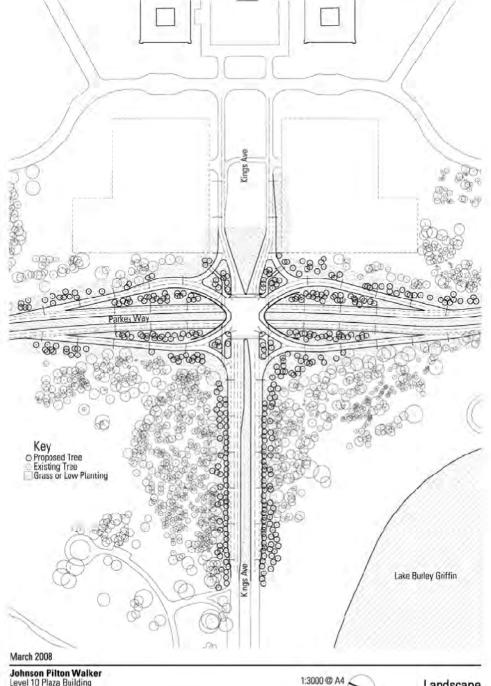
NCA Central National Area Redevelopment





NCA, Griffin Legacy, 2004, p.176

NCA Central National Area Redevelopment, 2004

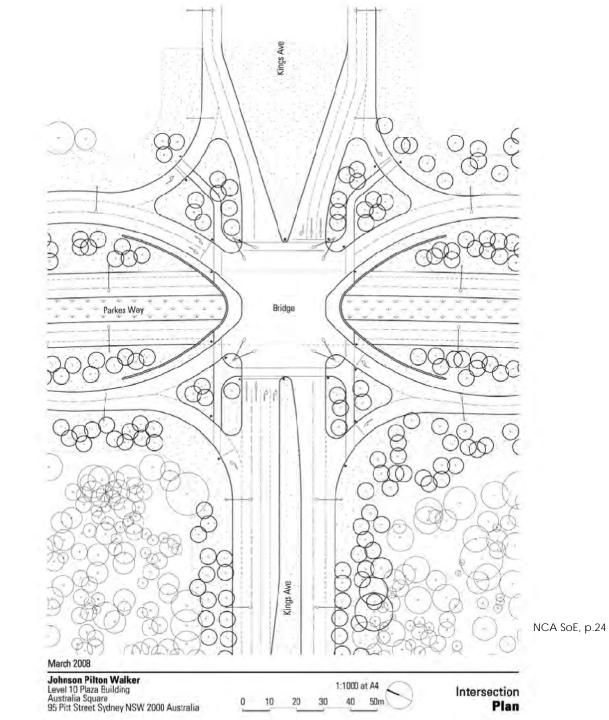


NCA SoE, p.23

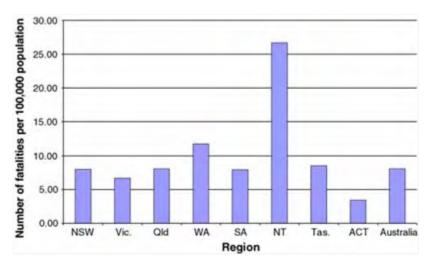
Johnson Pilton Walker Level 10 Plaza Building Australia Square 95 Pitt Street Sydney NSW 2000 Australia

30 60 90

1:3000 @ A4 120 150m Landscape Plan







1800 1600 1400 Cost per capita 1200 1000 800 200 Vic. Qld WA SA NT Tas. ACT Australia NSW Region

Fig. 1. Number of road traffic crash fatalities per 100000 population: Australia, states and territories, 2003.

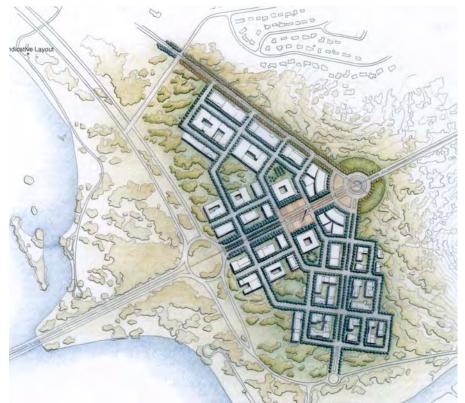
Fig. 2. Total cost per capita (AUD, 2003) of road traffic crashes: Australia, states and territories.

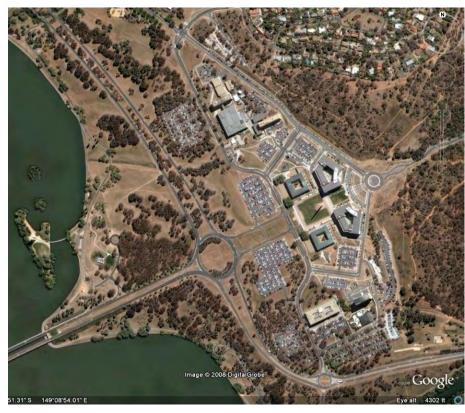
# Canberra - higher motor vehicle use and markedly lower accident rate than the rest of Australia

Motor Vehicle Registrations and Kilometres Travelled. 2000

Witter venicle registrations and renometres travened. 2000					
Data	ACT	Aust	Source		
		Average			
Total Registrations of Passenger Vehicles per 000 population	524	499	ABS: Survey of Motor Vehicle Use. Cat:9208.0. 2000		
Average Kilometres per vehicle per annum.	16,200	14,300	ABS: Survey of Motor Vehicle Use. Cat:9208.0. 2000		

NCPA, Draft Russell Master Plan Explanatory Report, 1994, p.2





NCPA Russell Master Plan 1994

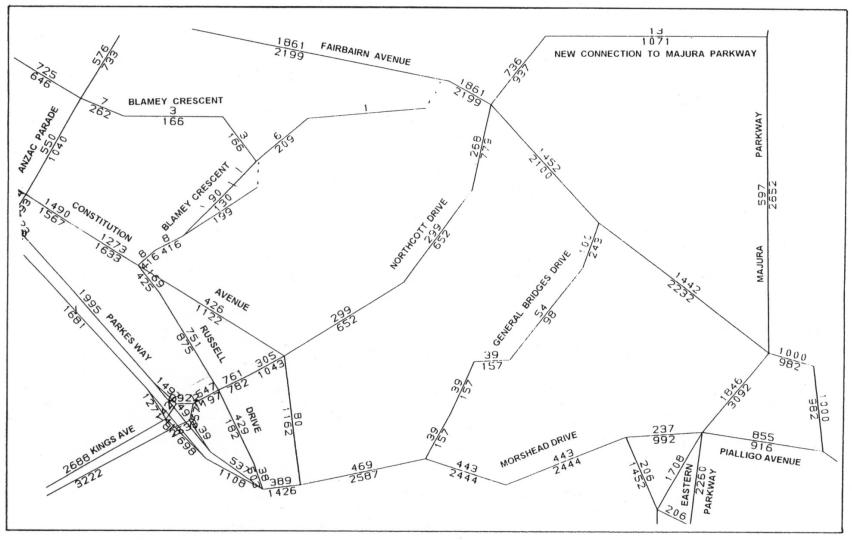
Russell Defence Precinct 2008

NCA, Amendment 60 NCP: Constitution Avenue, 2006, p.16

NCA Russell Master Plan 2006

Russell Defence Precinct 2008

Figure 3.1 Traffic flow estimates 2016

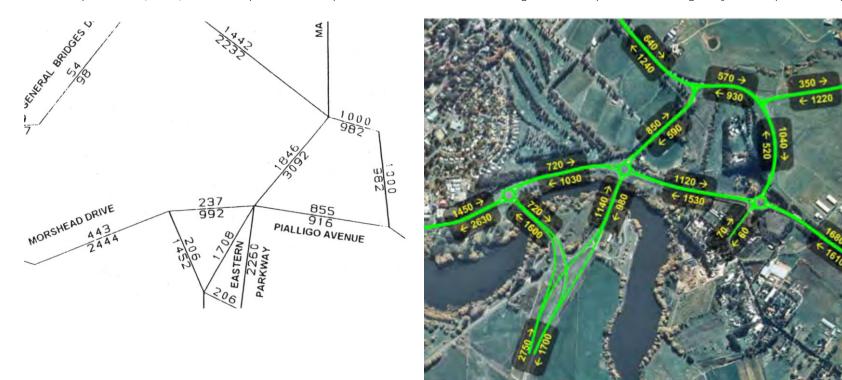


JSCNET, Report: Draft Amendment no.12 (Russell) of the National Capital Plan, 1995, p.27

NCPA 1994 Traffic Flow Estimates, Russell - Canberra Airport, AM Peak, 2016

JSCNET, Report: DA.12 (Russell) National Capital Plan, 1995, p.27

SMEC, Pialligo Avenue Duplication Modelling Study, Draft Report, 2006, Appendix C



1994 AM Peak Estimate for 2016

2006 AM Peak Traffic Count

Figures based on intersection traffic counts performed on Tue 28/2/2006 Counts at each end of the link are averaged and rounded to the nearest 1

eastward flow on Morshead Drive - 327% increase on 1994 estimate



COMMONWEALTH and ACT GOVERNMENT (ACT)

GRIFFIN LEGACY FORUM

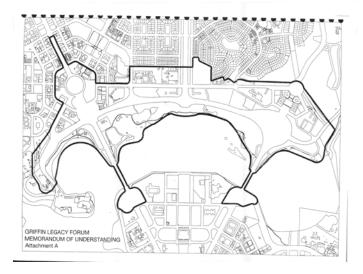
**GRIFFIN 21C PROJECT** 

MEMORANDUM OF UNDERSTANDING

November 2006

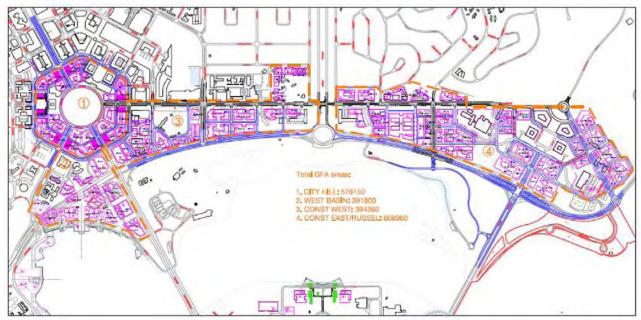
ge 1 of 7





#### 4.0 STATEMENT OF MUTUAL BENEFITS

- 4.1 The *Griffin Legacy* Propositions and Strategic Initiatives deliver benefits to the Commonwealth Government, ACT Government and the Canberra community including:
  - (a) increased land value with a high rate of return on public investment to both the Australian and ACT Governments (a catalyst for economic and community growth in the Territory);
  - (b) focused growth along the Constitution Avenue corridor, consolidating the 'great triangle' with people and commerce, and delivering a compact and vibrant city with a more efficient use of existing infrastructure;
  - (c) reinforcing City Hill as the heart of the City and as an important ceremonial space for the capital;
  - (d) extending the city to the lake at West Basin to create a new urban waterfront esplanade to celebrate our nation's diversity and to link the National Museum to the city and Parliamentary areas; and
  - (e) making Russell Defence Headquarters more secure through rationalising land management and consolidation of control of civil infrastructure.



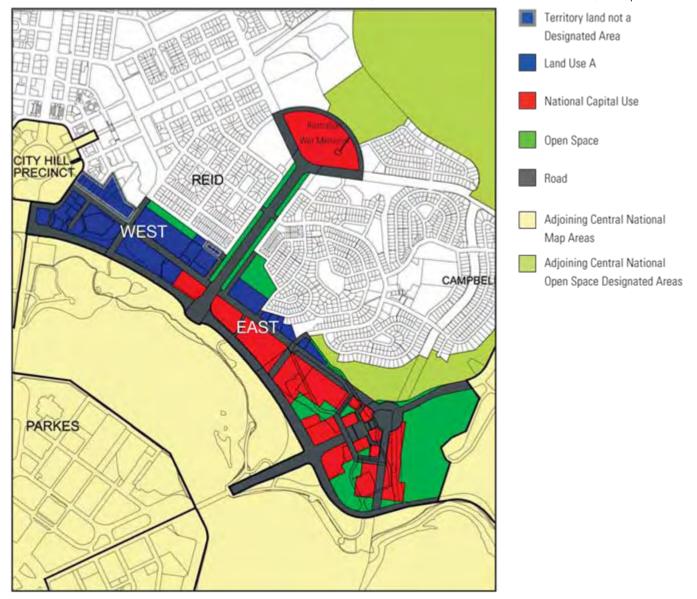
Maunsell ALCOM, Grittin Legacy Implementation Irattic Analysis, 2006, p.2, 14

## NCA Central National Area Redevelopment - Trunk Infrastructure

Total \$1	00 - \$150 millio
400m wide Landbridge, Acton	?
Constitution Avenue Overpass	?
Corranderk St Roundabout Reconst	. ?
West Basin Landfill/Reclamation	?
Constitution Avenue Duplication	46.5 million
Kings Avenue Overpass	26.6 million



JSCNET, Report: DA12 NCP, 2005, p.107



NCA Central National Area Redevelopment - Land Use Zoning

## CONSTITUTION EAST - PARKES URBAN DESIGN GUIDELINES

Detailed conditions of planning design and development in accordance with the National Capital Plan.

These guildelines are consistent with The Griffin Legacy -Canberra the Nation's Capital in the 21st Century.



Version 3 - 11 May 2006



AERIAL PHOTOGRAPH (April 2004)

#### NCA website

- Reinforce and enhance the geometry of Constitution Avenue and Parise Way with sportcylate built form.
- Contribute to the national significance of Constitution Avenue's at the base of the 'Great Triangle' as a diverse and active 'high street' of the city.
- Develop-Conetitution Avenue and Perker Way as a prestigious setting for national capital uses, related employment and amerities.
- Rainforce the 3 dimensional structure based on the City's topography and the landscape containment of the inner hills.
- Ensure off-site infrastructure capacity supports proposed and projected develops (p. to 7,000 in Constitution East precinct).
- Maximise development opportunities for Constitution East by setablishing a robust subdivision pattern that allows for staged development and growth.
- 7. Ensure conveniently located parking in a manner that does not dominate the public
- 8. Integrate perimeter security with streetscape elements that enhance the public
- 9. Ensure pedestrian accessibility to Lake Burley Griffin and Kings Park.
- 10 Printinsia impacts to the heritage values of the adjacent Commonwealth Heritage listed Parliament House Valus, particularly the aesthetic values for the Value which neiste to the designed associated that the particular forms of through this, patterns and tentures of erchitectural massing accentuated by planned open spaces, water planes and tree.
- 11./Entmise the visual impact of new building development on the important perklands identified as part of the Commonwealth Heritage listing for the Parliament House Vista, in particular Kinga Park.

**OBJECTIVES** 







NCA, Griffin Legacy, 2004, p.176



NCA website

Block Area (m2)		GFA 4:1 (m2)	GFA 6:1 (m2)	1/20m2 (QFA 4:1)
Anzaic Park East	16	10,000		500
1	5,300 (approx)	21,200	31,800	1060
2	3,150	12,600	18,900	630
3	1,300	5,200	7,800	260
4	2.560	10,240	15.360	512
5	24,800	65,000 (stage 18.7)	65,000 (stage 15.2)	3,250
- 6	2,520	10,080	15,120	504
7	2.860	11,440	17,160	572
	2,780	11,120	16,680	556
Sub Total	39,970	91,880	132,820	7,844
9	2.520	10,080	15,120	504
10.	2,750	11,000	16,500	550
-11	2,440	9,760	14,640	480
12	2,440	9,760	14,640	488
13	2,670	10.680	16,020	534
Total	58,090	143,160	209,740	10,408

**TABLE** 

Commercial GFA 40,000 sq m

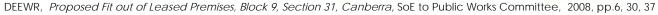
Staff 2550

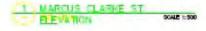
Density 15.5 sq m per person



Department of Education, Employment & Workplace Relations (DEEWR), Block 9, Section 31, Canberra





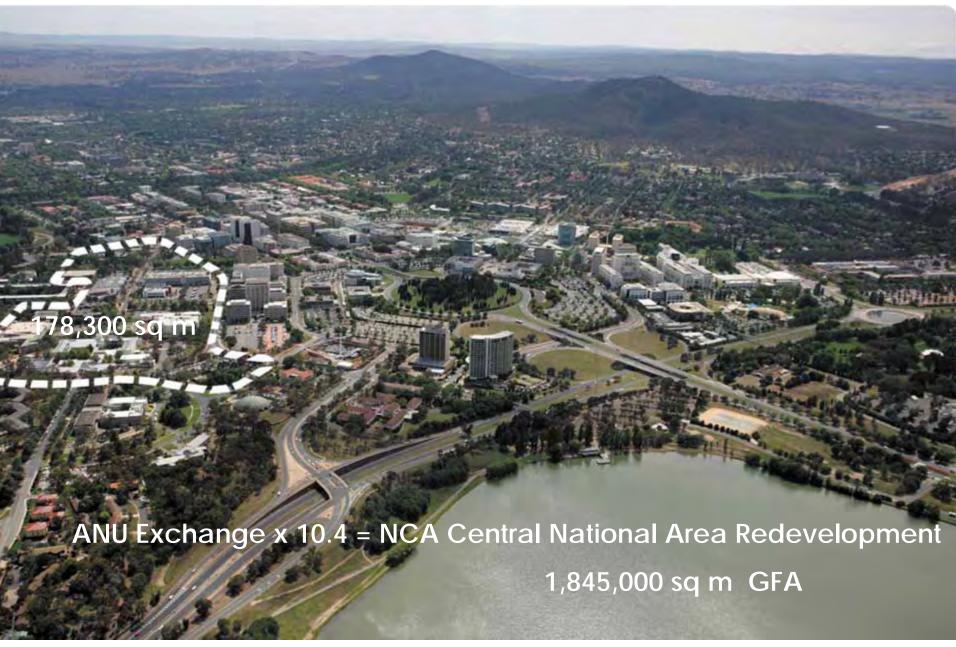


## DEEWR x 4.5 = ANU Exchange



ACTPLA, ANU Exchange Master Plan & Implementation Plan, 2006, pp.15, 36.

ANU Exchange Master Plan, City West, Canberra



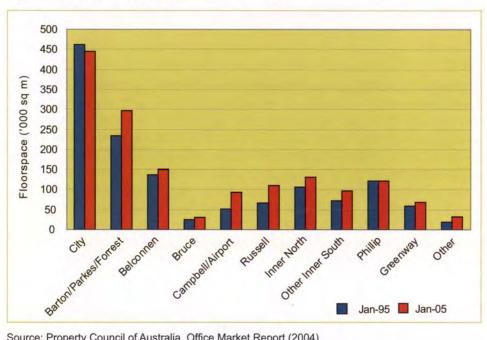


Figure 1: Office Floorspace Distribution 1995 and 2004

Source: Property Council of Australia, Office Market Report (2004)

ACTPLA, Residential, Commercial & Community Land Supply Strategy, 2005-2006 to 2009-2010, 2005, p4.

NCA Central National Area Redevelopment 2031 -Commercial Floor Space, 913,000 sq m

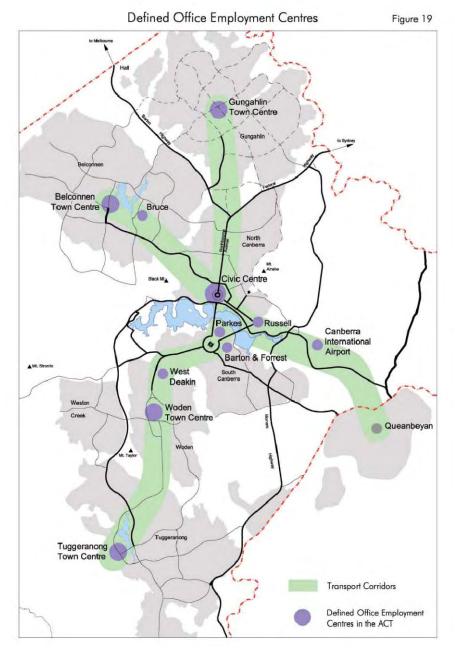
- = combined total of all Commercial Floor Space in City, Russell, Airport, Belconnen and Phillip (Woden) in 2004
  - = 45,000 workers @ 1/20 sq m



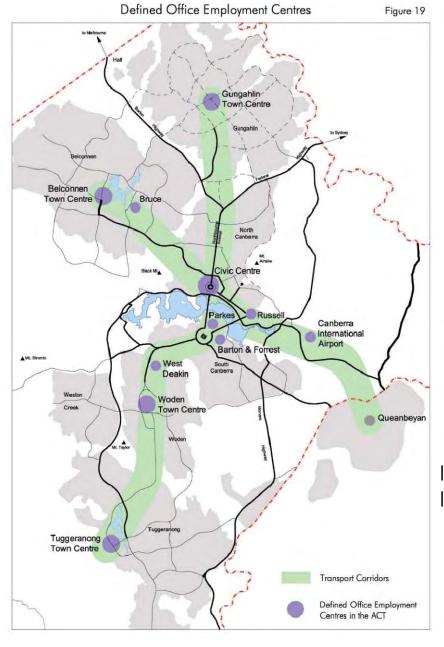
Maunsell AECOM, Grittin Legacy Implementation Irattic Analysis, 2006, p.2, 14

NCA Central National Area Redevelopment 2031 - Residential Floor Space, 675,000 sq m

= 14,000 residents, equivalent to the combined population of Campbell, Reid, Ainslie, Turner and City in 2006



NCA Amendment 44, National Capital Plan - Office Employment Location 2005



Integrated Transport Information System (ITIS)

NCA Amendment 44, National Capital Plan - Office Employment Location 2005



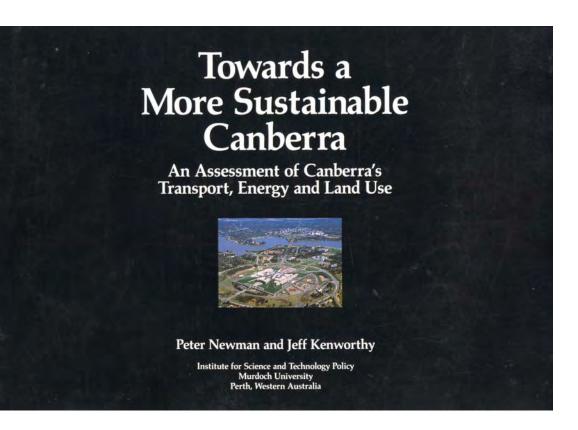
Civic - Canberra Airport Connection

NCA Central National Area Redevelopment



Indicative Public transport route

NCA Central National Area Redevelopment



Newman & Kenworthy, Sustainable Canberra, 1991

Newman & Kenworthy, Sustainable Canberra, 1991, p.xv



Light Rail Avenue, Zurich



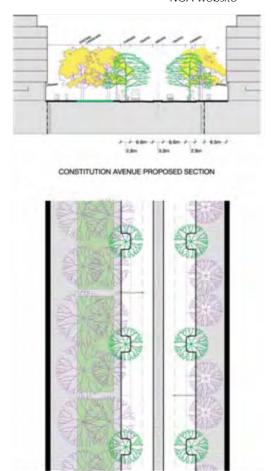


NCA analysis: Griffin's Light Rail Avenues

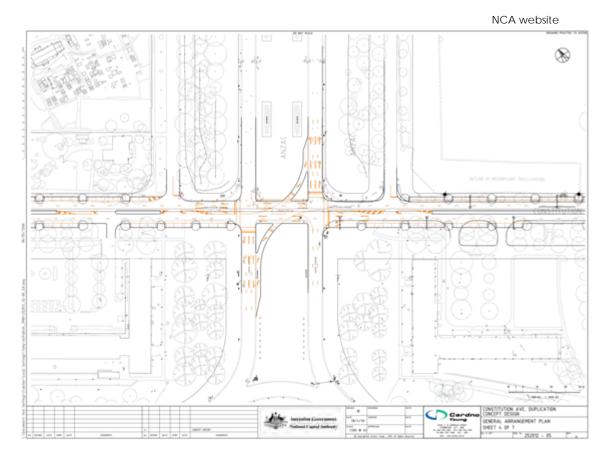


## Griffin Avenue Section

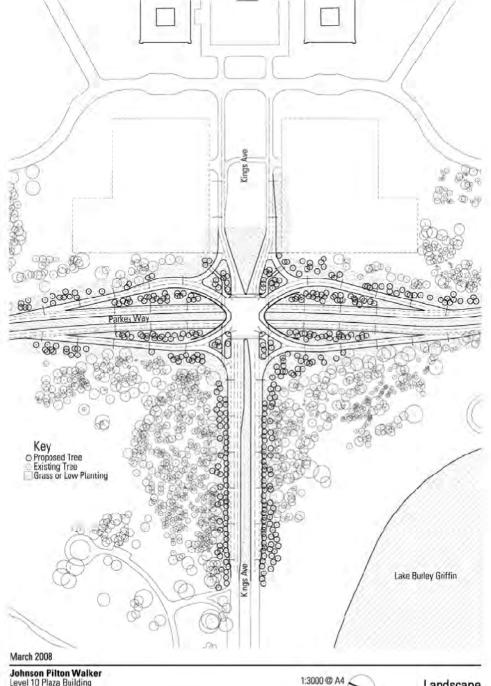
NCA website



NCA Avenue Section



NCA Constitution Avenue Duplication Project, 2007



NCA SoE, p.23

Johnson Pilton Walker Level 10 Plaza Building Australia Square 95 Pitt Street Sydney NSW 2000 Australia

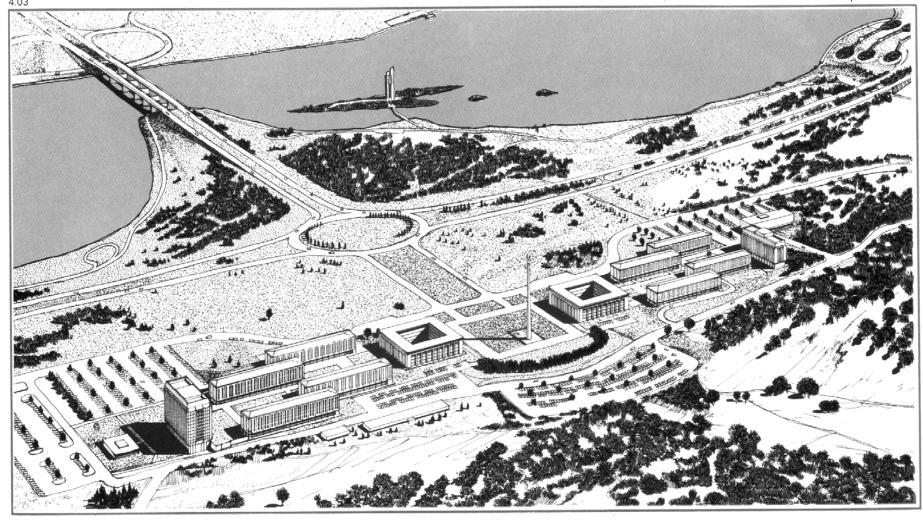
0 30 60 90 12

1:3000 @ A4 120 150m Landscape Plan

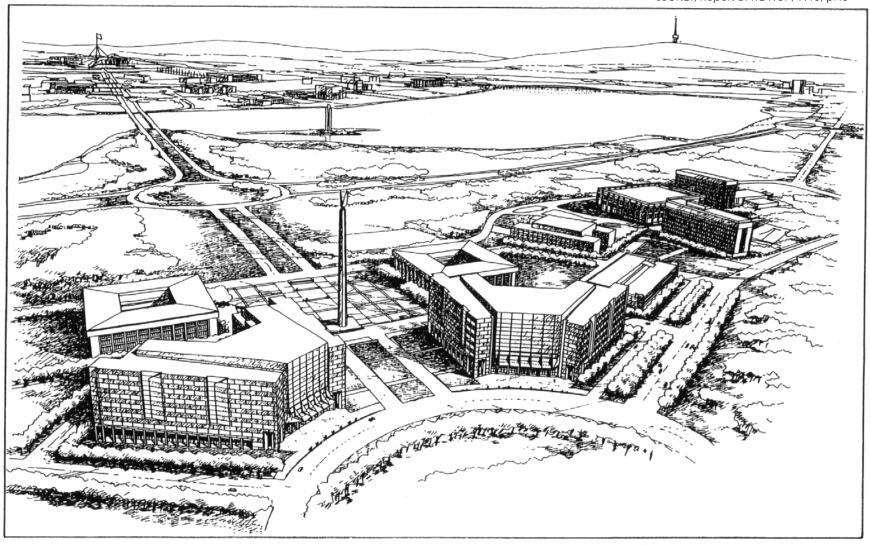


## NCA Central National Area Redevelopment, 2031

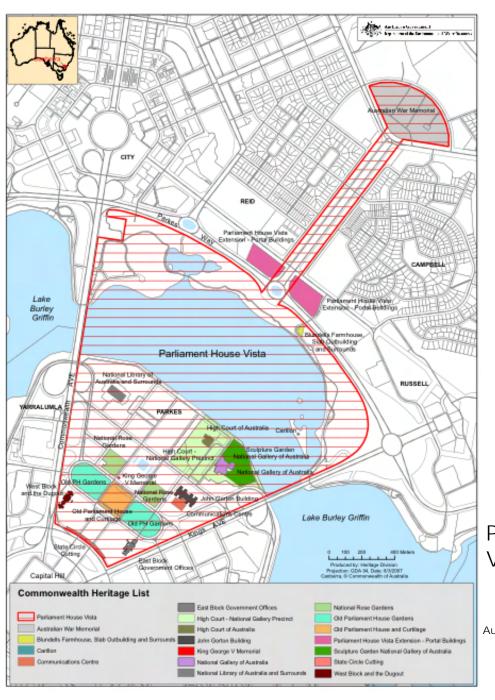
Commercial GFA 934,000 sq m Residential GFA 675,000 sq m Other 236,000 sq m Total 1,845,000 sq m



NCDC Russell Defence Precinct, 1958-1963



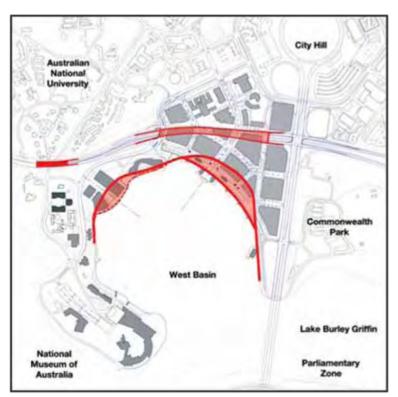
NCPA Russell Defence Precinct, 1994



## Parliament House Vista

Australian Heritage Database website



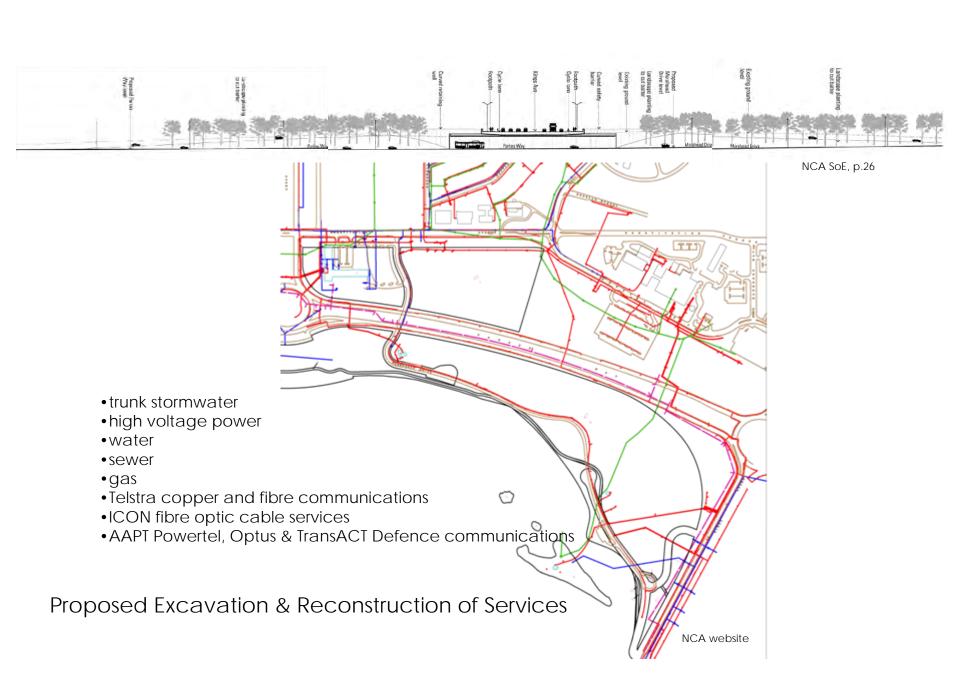








ACTPLA, ANU Exchange Master Plan & Implementation Plan, 2006, p.7.







NCA website