

## **Quantity Surveyor's Report – Capital Investment Value**

Shepherds Bay Urban Renewal Meadowbank	
for	
Holdmark Property Group	
	1
Reviewed by: Stephen Ngai	Job No. 2325.CMS00
Reviewed by: Stephen Ngai ISSUE SCHEDULE	

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Estimate of Capital Investment Value

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#### A. Cost Estimate Summary

B. Definitions of Areas

Estimate of Capital Investment Value

#### 1 Introduction

Altus Page Kirkland was requested by Holdmark Property Group to prepare a Quantity Surveyor's Report on the Capital Investment Value for the proposed re-development of the precinct at Shepherds Bay, Meadowbank, bound by Constitution Road, Belmore Street, Rothesay Avenue and Bowden Street to the west, as well as a signature building bound by Church Street, Well Street Parsonage Street to the west and a Loop Road to the south.

#### 2 Executive Summary

The estimated Capital Investment Value as at 2<sup>nd</sup> July 2012 is **\$713,472,640 excluding GST.** 

#### 3 Project Scope

This Capital Investment Value Estimate is prepared for the proposed residential redevelopment at the Shepherds Bay, Meadowbank site and comprises the following:

- 1. Residential Apartment blocks varying from low rise to high rise buildings with a total Gross Floor Area of 245,778m2.
- 2. The residential apartment blocks produce a total of between 2,005 units based on the following apartment mix:
  - 1 bed 10%
  - 2 bed 75%
  - 3 bed 15%
- 3. Commercial spaces with a total Gross Floor Area of 10,003m2.
- 4. A total of 2,957 undercover car spaces including 400 visitor carparking and 250 commercial carparking.

#### 4 Basis of the Estimate

The Cost Estimate for the Capital Investment Value of the proposed development has been based on the following information:

- Shepherds Bay Preferred Project Concept Plan and Staging Plan prepared by Robertson + Marks Architects dated June 2012.
- Development Statistics : Summary prepared by Robertson + Marks Architects received on 26 June 2012.
- Landscape Concept Master Plan dated January 2011 prepared by Place Design Group, together with a Landscape Plan (Figure 28) Revision L dated January 2012.

Estimate of Capital Investment Value

- Civil scope of works in accordance with the Preferred Master Plan dated June 2012 with typical civil details interpreted from the Civil Layout General Arrangement Plan dated September 2010 prepared by BG&E.
- > Trunk drainage concept design dated 5 March 2012 prepared by Cardno.

The cost estimate is priced at market rates as at today's date on the basis of competitive lump sum tenders.

Considering that this estimate is based on concept planning stage development information instead of full detailed design information, we recommend that a more detailed cost plan should be prepared once detailed design is developed including, but not limited to, structural, services, geotechnical, environmental including development consent conditions.

#### 5 Exclusions

- 1. Land costs and land acquisition costs
- 2. Interest, finance, legal fees
- 3. Marketing costs
- 4. Council Contributions
- 5. Diversion and amplification of existing services
- 6. Removal of contaminants and hazardous materials
- 7. Extreme geotechnical conditions
- 8. Upgrade and Widening of Constitution Road and Well Street
- 9. Seawall remediation works
- 10. Works outside site boundaries
- 11. Loose fitments and furniture
- 12. Staging of Development
- 13. GST
- 14. Escalation from date of this estimate to actual date of commencement of construction

Capital Investment Value Cost Estimate

# Appendix A





#### SHEPHERDS BAY URBAN RENEWAL, MEADOWBANK

#### INDICATIVE ESTIMATE OF CAPITAL INVESTMENT VALUE

	No. of Units/ Element Qty	Element Unit	Total Area (GFA) *	Unit Cost	Total Cost (Excl. GST)	Total Cost (Excl. GST)
			m2			
New Built Elements						
Residential Apartments	2,005	No	245,778	1,950	479,267,100	
Residential and Non-Residential Carparking (Basement)	2,957	No		35,000	103,495,000	
Commercial Spaces			10,003	2,200	22,006,600	
Sub-Total						604,768,700
Demolition & Site Preparation Works						
Demolition of existing buildings (approx. area)	62,562	m2		85	5,317,770	
Sub-Total						5,317,770
Infrastructure						
Civil/ Infrastructure Works per APK/consultants assessment						
(see attached detailed cost estimate)	1	Item		45,636,170	45,636,170	
Sub-Total						45,636,170
External Works and Landscaping						
External Works/ Open Space Works /Landscaping Incl. Deep						
Soil Planting	14,000	<i>m</i> 2		350	4,900,000	
Sub-Total						4,900,000
Total Construction Cost						660,622,640
Design, Professional & Authorities Fees						
Design, Professional & Authorities Fees (8%)					52,850,000	
Sub-Total					,-50,000	52,850,000
Total GFA			255.781			
Total Estimated Capital Investment Value					713,472,640	713,472,640

Notes: Preliminaries & Builder's Margin Included Escalation during construction included Escalation from date of estimate to actual commencement of construction excluded

\* See definitions of GFA in Appendix B



ltem	Description	Quantity	Unit	Rate	Subtotal	Factor	Total	Total
	ROADWORKS AND PUBLIC FOOTPATHS Street lighting separately included		Note					
1	BELMORE STREET Site preparation including minor cut and fill	1,289	m2	50.00	64,450.00		64,450	
	Road pavement complete (assume asphalt pavement)	591		300.00	177,300.00		177,300	
	Kerb and gutter	197		100.00	19,690.00		19,690	
	Footpath (assume RC footpath)	443 591		110.00 20.00	48,745.40 11,820.00		48,745 11,820	
	Road marking, signage and sundries Grass verge along road	255		65.00	16,605.55		16,606	
	Tree incl. tree pit	16		1,200.00	19,200.00		19,200	
	Subsoil drain under kerb including trench excavation, filter material and backfill	197	m	65.00	12,805.00		12,805	
	Gully pit (say each per 30m) and pipe connection to existing main (say 8m long)		No	7,500.00	60,000.00		60,000	
	Allow for traffic management (10%)	1	Item	43,061.60	43,061.60	Sub-total	43,062 473,678	
	BOWDEN STREET Site preparation including minor cut and fill	2,108		50.00	105,400.00		105,400	
	Road pavement complete (assume asphalt pavement)	996		300.00	298,800.00		298,800	
	Kerb and gutter Footpath (assume RC footpath)	332 661		100.00 110.00	33,224.00 72,734.20		33,224 72,734	
	Road marking, signage and sundries	996		20.00	19,920.00		19,920	
	Grass verge along road	451		65.00	29,335.80		29,336	
	Tree incl. tree pit	25	No	1,200.00	30,000.00		30,000	
	Subsoil drain under kerb including trench excavation, filter material and backfill	332	m	65.00	21,580.00		21,580	
	Gully pit (say each per 30m) and pipe connection to existing main (say 8m long)	11	No	7,500.00	82,500.00		82,500	
	Allow for traffic management (10%)	1	Item	69,349.40	69,349.40	Sub-total	69,349 762,843	
	CONSTITUTION ROAD (Footpath, Kerb and Gutter Works Only)							
	Road widening of Constitution Road (assumed by Council)		Item				Excl	
	Site preparation including minor cut and fill	2,850		50.00	142,500.00		142,500	
	Road pavement complete (assume asphalt pavement) Kerb and gutter	1,257 419		300.00 100.00	377,100.00 41,864.00		377,100 41,864	
	Footpath (assume RC footpath)	988		110.00	108,717.40		108,717	
	Road marking, signage and sundries	2,991		20.00	59,820.00		59,820	
	Installation of left in only (right turn from Constitution banned) at the	1	Item				Incl	
	intersection of Constitution Road and Hamilton Crescent) Grass verge along road	605	m2	65.00	39,312.65		39,313	
	Tree incl. tree pit	35		1,200.00	42,000.00		42,000	
	Subsoil drain under kerb including trench excavation, filter material and backfill	419	m	65.00	27,211.60		27,212	
	Gully pit (say each per 30m) and pipe connection to existing main (say 8m long)	14		7,500.00	105,000.00		105,000	
	Allow for traffic management (10%)	1	Item	94,352.57	94,352.57	Sub-total	94,353 1,037,878	
	HAMILTON CRESCENT WEST (Roundabout to Constitution Road)							
	Site preparation including minor cut and fill	1,793		25.00	44,825.00		44,825	
	Road pavement complete (assume asphalt pavement)	881 373		300.00 100.00	264,177.00 37,280.00		264,177	
	Kerb and gutter Footpath (assume RC footpath)	414		110.00	45,584.00		37,280 45,584	
	Road marking, signage and sundries	881		20.00	17,620.00		17,620	
	Pedestrian crossing decks including post and footing, approx 3m wide x 2m		No	3,000.00	24,000.00		24,000	
	length							
	Grass area along road	498 19		45.00 1,200.00	22,410.00 22,800.00		22,410 22,800	
	Tree incl. tree pit Subsoil drain under kerb including trench excavation, filter material and	373		65.00	22,800.00		22,800	
	backfill Gully pit (say each per 30m) and pipe connection to existing main (say 8m	6	No	4,500.00	27,000.00		27,000	
	long) Main stormwater pipe	95		650.00	61,750.00		61,750	
	Manhole (each per 50m)		No	6,000.00	12,000.00		12,000	
	Allow for associated retaining walls and earthwork		Item	80,000.00	80,000.00		80,000	
	Allow for street furniture		Item	20,000.00	20,000.00		20,000	
	Allow for traffic management to existing road	1	Item	10,000.00	10,000.00	Sub-total	10,000 713,691	
	NANCARROW AVENUE (Roundabout to Belmore Street) Site preparation including minor cut and fill	2,051	m2	25.00	51,275.00		51,275	
	Road pavement complete (assume asphalt pavement)	1,252		300.00	375,627.00		375,627	
	Kerb and gutter	338	m	100.00	33,840.00		33,840	
	Footpath (assume RC footpath)	579		110.00	63,691.10		63,691	
	Road marking, signage and sundries	1,252		20.00	25,040.00		25,040	
	Grass verge along road	220		65.00	14,288.95 18,000.00		14,289	
	Tree incl. tree pit Subsoil drain under kerb including trench excavation, filter material and	15 338		1,200.00 65.00	21,970.00		18,000 21,970	
	backfill Gully pit (say each per 30m) and pipe connection to existing main (say 8m		No	4,500.00	22,500.00		22,500	
	long) Main stormwater nine							
	Main stormwater pipe Manhole (each per 50m)	153	m No	650.00 6,000.00	99,450.00 18,000.00		99,450 18,000	
	Retaining walls (say 4m high)	126		2,350.00	295,465.50		295,466	
	Allow for street furniture		Item	20,000.00	20,000.00		20,000	
	Allow for traffic management to existing road		Item	10,000.00	10,000.00	Sub-total	10,000	
	NANCARROW AVENUE (Roundabout to Bowden Street)		m?	25.00	96,875.00	- 10 10101	96,875	
	Site preparation including minor out and fill			25.00	30,075.00		90,675	
	Site preparation including minor cut and fill Road pavement (assume asphalt pavement)	3,875 1,961		300.00	588.252.00		588.252	
	Site preparation including minor cut and fill Road pavement (assume asphalt pavement) Kerb and gutter	3,875 1,961 537	m2	300.00 100.00	588,252.00 53,701.00		588,252 53,701	
	Road pavement (assume asphalt pavement) Kerb and gutter Footpath (assume RC footpath)	1,961 537 1,042	m2 m m2	100.00 110.00	53,701.00 114,637.60		53,701 114,638	
	Road pavement (assume asphalt pavement) Kerb and gutter	1,961 537	m2 m m2 m2	100.00	53,701.00		53,701	



	Description	Quantity	Unit	Rate	Subtotal	Factor	Total	Total
	Tree incl. tree pit	32	No	1,200.00	38,400.00		38,400	
	Subsoil drain under kerb including trench excavation, filter material and	537	m	65.00	34,905.00		34,905	
	backfill Gully pit (say each per 30m) and pipe connection to existing main (say 8m			4 500 00	~~~~~		00.000	
	long)		No	4,500.00	36,000.00		36,000	
	Main stormwater pipe	240		650.00	156,000.00		156,000	
	Manhole (each per 50m) Allow for street furniture		No Item	6,000.00 28,000.00	30,000.00 28,000.00		30,000 28,000	
	Allow for traffic management to existing road		Item	10,000.00	10,000.00		10,000	
						Sub-total	1,282,657	
	NANCARROW AVENUE (Roundabout) Round about works complete	1	Item	450,000.00	450,000.00		450,000	
	Road pavement (assume asphalt pavement)	412	m2	0.00	0.00		Incl.	
	Kerb and gutter	77 412		0.00 0.00	0.00 0.00		Incl.	
	Road marking, signage and sundries Subsoil drain under kerb including trench excavation, filter material and						Incl.	
	backfill	77	m	0.00	0.00		Incl.	
	Gully pit and pipe connection to new main (say 30m per no and each 8m long)	6	No	0.00	0.00		Incl.	
	Main stormwater pipe	23	m	0.00	0.00		Incl.	
	Manhole (50m per no)		No	0.00	0.00		Incl.	
	Allow for traffic management	1	Item	0.00	0.00	Sub-total	Incl. 450,000	
	ROTHESAY AVENUE (to Belmore Street)					Gub total	400,000	
	Site preparation including minor cut and fill	2,877	m2	25.00	71,925.00		71,925	
	Road pavement comprising Porphyry stone with 30mm mortar bedding on, laid on 180mm reinforced concrete pavement and 100mm compacted	1,834	m2	500.00	916,995.00		916,995	
	thickness fine crushed rock base			000.00			0.0,000	
	Kerb and gutter	484		100.00	48,353.00		48,353	
	Footpath/cycle track Road marking, signage and sundries	765 1,834		110.00 20.00	84,170.90 36,680.00		84,171 36,680	
	Grass verge along road	278	m2	65.00	18,068.70		18,069	
	Footpath (assume RC footpath)	16	No	350.00	5,600.00		5,600	
	Subsoil drain under kerb including trench excavation, filter material and backfill	484	m	65.00	31,460.00		31,460	
	Gully pit (say each per 30m) and pipe connection to existing main (say 8m	10	No	4 500 00	45 000 00		45.000	
	long)			4,500.00	45,000.00		45,000	
	Main stormwater pipe Manhole (each per 50m)	160 3	m No	650.00 6,000.00	104,000.00 18,000.00		104,000 18,000	
	Allow for street furniture		Item	20,000.00	20,000.00		20,000	
	Allow for traffic management to existing road (assume not required)	1	Item		0.00	<u> </u>	Excl	
	ELIMINATION OF ON-SITE PARKING					Sub-total	1,400,253	
	Allow for elimination of on-site parking in Belmore Street and Parsonage							
	Street between Rothsay Avenue and Porter Street including signage and	1	Item	80,000.00	80,000.00		80,000	
	road marking modification works, barrier, etc (assume retain existing kerb line)							
						Sub-total	80,000	
	LOOP ROAD INTO PORTER STREET							
	Allow for banning of the right turn movement from the Loop Road into Porter	1	Item	30,000.00	30,000.00		30,000	
	Street including signage and road marking modification works, barrier, etc					- · · ·		
	ROTHESAY AVENUE (to Bowden Street under 146 Bowden Street					Sub-total	30,000	
	development) - By others							
	WELL STREET ROAD WIDENING - By others							
	Chront Lighting to Bolmore Chront Douglan Street Constitution Bood and							
.1	Street Lighting to Belmore Street, Bowden Street, Constitution Road and Formal Entry							
	Street lighting for Nancarrow Avenue, Rothesay Avenue and part Bowden							
			Note					
2	Street separately included in Electrical Services budget		Note					
.2	Street separately included in Electrical Services budget BELMORE STREET	210			0.00	Ass	ume existing	
.2	Street separately included in Electrical Services budget		m		0.00 0.00	Ass	ume existing	
	Street separately included in Electrical Services budget <b>BELMORE STREET</b> Street lighting (cable, conduit and pit) Street lighting pole (say 20m per pole)	210	m					
	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget)	210 10 240	m No m		0.00	Ass	ume existing 0 Included	
	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit)	210 10 240 105	m No m m	650.00	0.00 0.00 68,250.00	Ass	ume existing 0 Included 68,250	
	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget)	210 10 240 105	m No m	650.00 15,000.00	0.00	Ass Sub-total	ume existing 0 Included 68,250 45,000	
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole CONSTITUTION ROAD	210 10 240 105 3	m No m Mo	15,000.00	0.00 68,250.00 45,000.00	Ass	ume existing 0 Included 68,250 45,000 113,250	
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole CONSTITUTION ROAD Street lighting (cable, conduit and pit)	210 10 240 105 3 440	m No m No m	15,000.00 650.00	0.00 0.00 68,250.00 45,000.00 286,000.00	Ass Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000	
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole CONSTITUTION ROAD	210 10 240 105 3	m No m No m	15,000.00	0.00 68,250.00 45,000.00	Ass Sub-total	ume existing 0 Included 68,250 45,000 113,250	
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting pole (say 20m per pole) BOWDEN STREET Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole HAMILTON CRESCENT WEST (FORMAL ENTRY)	210 10 240 105 3 440 15	m No m No No	15,000.00 650.00 15,000.00	0.00 0.00 68,250.00 45,000.00 286,000.00 225,000.00	Ass Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000 225,000 511,000	
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (street lighting pole CONSTITUTION ROAD Street lighting (cable, conduit and pit) Street lighting pole HAMILTON CRESCENT WEST (FORMAL ENTRY) Street lighting (cable, conduit and pit)	210 10 240 105 3 440 15	m No m M No m No	15,000.00 650.00 15,000.00 650.00	0.00 0.00 68,250.00 45,000.00 286,000.00 225,000.00 117,000.00	Ass Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000 225,000 511,000 117,000	
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.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (street lighting pole CONSTITUTION ROAD Street lighting (cable, conduit and pit) Street lighting pole HAMILTON CRESCENT WEST (FORMAL ENTRY) Street lighting (cable, conduit and pit)	210 10 240 105 3 440 15	m No m M No m No	15,000.00 650.00 15,000.00 650.00	0.00 0.00 68,250.00 45,000.00 286,000.00 225,000.00 117,000.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000 225,000 511,000 117,000 60,000	8,101
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole	210 10 240 105 3 440 15	m No m M No m No	15,000.00 650.00 15,000.00 650.00	0.00 0.00 68,250.00 45,000.00 286,000.00 225,000.00 117,000.00 60,000.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000 225,000 511,000 117,000 60,000	8,101
3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole HAMILTON CRESCENT WEST (FORMAL ENTRY) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH	210 10 240 105 3 440 15 180 4	m No Mo Mo Mo	15,000.00 650.00 15,000.00 650.00 15,000.00	0.00 0.00 68,250.00 45,000.00 225,000.00 117,000.00 60,000.00 <b>8,101,397.26</b>	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000 225,000 511,000 117,000 60,000 177,000	8,101
3	Street ighting (cable, conduit and pit) Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH Site preparation including minor cut and fill	210 10 240 105 3 440 15 180 4 3,678	m No Mo Mo Mo m No	15,000.00 650.00 15,000.00 15,000.00 50.00	0.00 0.00 68,250.00 45,000.00 225,000.00 117,000.00 60,000.00 <b>8,101,397.26</b> 183,885.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 225,000 225,000 511,000 117,000 1177,000 1177,000	8,101
3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH Site preparation including minor cut and fill Pedestrian axis	210 10 240 105 3 440 15 180 4 3,678 841	m No Mo Mo No Mo Mo Mo Mo	15,000.00 650.00 15,000.00 650.00 15,000.00 50.00 150.00	0.00 0.00 68,250.00 45,000.00 226,000.00 225,000.00 117,000.00 60,000.00 <b>8,101,397.26</b> 183,885.00 126,123.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 113,250 286,000 225,000 511,000 117,000 60,000 177,000 183,885 126,123	8,101
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH Site preparation including minor cut and fill Pedestrian axis Extra over for stairs Riparian water body including landscape	210 10 240 105 3 440 15 180 4 3,678 841 3 287	m No M No M No M No M M M M M M M M M M	15,000.00 650.00 15,000.00 15,000.00 15,000 150.00 10,000.00 1,000.00	0.00 0.00 68,250.00 45,000.00 225,000.00 117,000.00 60,000.00 8,101,397.26 183,885.00 126,123.00 30,000.00 286,640.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 225,000 511,000 511,000 117,000 1177,000 1177,000 183,885 126,123 30,000 286,640	8,101
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH Site preparation including minor cut and fill Pedestrian axis Extra over for stairs	210 10 240 105 3 440 15 180 4 3,678 841 3	m No M No M No M No M M M M M M M M M M	15,000.00 650.00 15,000.00 15,000.00 50.00 150.00 10,000.00	0.00 0.00 68,250.00 45,000.00 226,000.00 117,000.00 60,000.00 <b>8,101,397.26</b> 183,885.00 126,123.00 30,000.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 113,250 286,000 225,000 511,000 117,000 60,000 177,000 183,885 126,123 30,000	8,101
.3	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH Site preparation including minor cut and fill Pedestrian axis Extra over for stairs Riparian water body including landscape	210 10 240 105 3 440 15 180 4 3,678 841 3,287 85	m No M No M No M No M M M M M M M M M M	15,000.00 650.00 15,000.00 15,000.00 15,000 150.00 10,000.00 1,000.00	0.00 0.00 68,250.00 45,000.00 225,000.00 117,000.00 60,000.00 8,101,397.26 183,885.00 126,123.00 30,000.00 286,640.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 225,000 511,000 511,000 117,000 1177,000 1177,000 183,885 126,123 30,000 286,640	8,101
2.2 2.3 2.4 2.5	Street separately included in Electrical Services budget BELMORE STREET Street lighting (cable, conduit and pit) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) (incl electrical budget) Street lighting (cable, conduit and pit) Street lighting pole TOTAL ROADWORKS AND PUBLIC FOOTPATHS PUBLIC OPENSPACE WORKS UPPER RIPARIAN FORESHORE AND PEDESTRIAN SPINE NORTH Site preparation including minor cut and fill Pedestrian axis Extra over for stairs Riparian water body including landscape Water surrounding building edge pool	210 10 240 105 3 440 15 180 4 3,678 841 3,287 85	m No m m No m No m No m No m 2 m 2 No m 2 m 2 m 2 ltem m 2	15,000.00 650.00 15,000.00 15,000.00 15,000 10,000.00 1,000.00 1,000.00	0.00 0.00 68,250.00 45,000.00 225,000.00 117,000.00 60,000.00 8,101,397.26 183,885.00 126,123.00 30,000.00 286,640.00 84,930.00	Ass Sub-total Sub-total Sub-total	ume existing 0 Included 68,250 45,000 225,000 511,000 511,000 1177,000 1177,000 183,885 126,123 30,000 286,640 84,930	8,101,



ltem	Description	Quantity	Unit	Rate	Subtotal	Factor	Total	Total
	Open lawn (part deep soil zone)	620 m	n2	250.00	154,917.50		154,918	
	Stepping stones set in turf	68 m	n2	300.00	20,493.00		20,493	
	Private open space	385 m					Excl.	
	Sculptural public art	1 N		10,000.00	10,000.00		10,000	
	Allowance for retaining walls	1 Ite		40,000.00	40,000.00		40,000	
	Allowance for street furniture/playground equipment	1 Ite		50,000.00	50,000.00		50,000	
	Allowance for stormwater	3,678 m		40.00	147,120.00		147,120	
	Allowance for irrigation	1,878 m		18.00	33,804.00		33,804	
	Allowance for lighting (measured length of path)	246 m	n	1,200.00	295,200.00	Cub total	295,200	
	LOWER RIPARIAN FORESHORE AND PEDESTRIAN SPINE SOUTH					Sub-total	2,244,226	
	Site preparation including minor cut and fill	6,191 m	n2	50.00	309,569.00		309,569	
	Pedestrian axis	2,259 m		150.00	338,869.50		338,870	
	Extra over for stairs	4 N	lo	10,000.00	40,000.00		40,000	
	Riparian water body including landscape	245 m	n2	1,000.00	245,370.00		245,370	
	Pedestrian bridge including post and footing	175 m	n2	1,200.00	209,748.00		209,748	
	Water feature path	85 m	n2	800.00	68,032.00		68,032	
	Allowance for pump, equipment, pipework and accessories for water feature	1 Ite	em	50,000.00	50,000.00		50,000	
	path							
	Dry creek/riparian zone	493 m		650.00	320,443.50		320,444	
	Deep soil zone including planting	1,253 m		400.00	501,200.00		501,200	
	Open lawn (part deep soil zone)	1,332 m		250.00	332,902.50		332,903	
	Planter wall with seating edge (say 1m high)	47 m		650.00	30,550.00		30,550	
	Private open space	349 m					Excl.	
	Sculptural public art	2 N		20,000.00	40,000.00		40,000	
	Allowance for retaining walls	130 m		1,800.00	234,000.00		234,000	
	Allowance for sundries walls	1 Ite		20,000.00	20,000.00		20,000	
	Allowance for street furniture/playground equipment	1 Ite		60,000.00	60,000.00		60,000	
	Allowance for stormwater	6,191 m		40.00	247,640.00		247,640	
	Allowance for irrigation	2,934 m		18.00	52,812.00		52,812	
	Allowance for lighting (measured length of path)	185 m	n	1,200.00	222,000.00		222,000	
						Sub-total	3,323,137	
	UPPER EASTERN PEDESTRIAN LINK							
	Site preparation including minor cut and fill	2,973 m		50.00	148,647.50		148,648	
	Formal pathway with feature paving	753 m		320.00	240,908.80		240,909	
	Extra over for stairs	2 N		10,000.00	20,000.00		20,000	
	Central water feature pool	102 m	n2	1,000.00	102,100.00		102,100	
	Allowance for pump, equipment, pipework and accessories for bubble jets	1 Ite	em	50,000.00	50,000.00		50,000	
	Deep soil zone including planting	572 m		400.00	228,800.00		228,800	
	Open lawn (part deep soil zone)	62 m		250.00	15,600.00		15,600	
	Raised planter beds	574 m		400.00	229,624.00		229,624	
	Planter wall with seating edge (say 1m high)	196 m		650.00	127,263.50		127,264	
	Private open space	910 m					Excl.	
	Allowance for retaining walls	1 Ite		30,000.00	30,000.00		30,000	
	Allowance for street furniture/playground equipment	1 Ite		35,000.00	35,000.00		35,000	
	Allowance for stormwater	2,973 m		40.00	118,920.00		118,920	
	Allowance for irrigation	1,208 m		18.00	21,744.00		21,744	
	Allowance for lighting (measured length of path)	91 m	n	1,200.00	109,200.00	Sub-total	109,200	
	CENTRAL SPINE, CENTRAL FORESHORE PLAZA AND UPPER LEVEL							
	PUBLIC SQUARE Site preparation including minor cut and fill	5.007 m	.2	50.00	250.351.50		250.352	
	Pedestrian path with feature paving	5,007 m 3,222 m		50.00 525.00	1,691,550.00		250,352 1,691,550	
		3,222 m 221 m		2.000.00	442,740.00		442.740	
	Extra over for steps Market plaza space with feature paving	240 m		525.00	125,800.50		125,801	
	Timber terrace with sitting edge	196 m		600.00	117,390.00		117,390	
		76 m		1,000.00	75,940.00		75,940	
	Central feature water path pool Allowance for pump, equipment, pipework and accessories for bubble jets	1 lte		50,000.00	50,000.00		50,000	
	Main axis water feature with bubble jets (3 nos)	30 m		1,000.00	29,710.00		29,710	
	Allowance for pump, equipment, pipework and accessories for bubble jets	1 lte		50,000.00	50,000.00		50,000	
	Linear water channel and wall with bubble jets, approx 19m long x 4m high	88 m		1,700.00	150,416.00		150,416	
	(plan area measured)							
	Allowance for pump, equipment, pipework and accessories for bubble jets	1 lte		50,000.00	50,000.00		50,000	
	Water feature pop jet and interactive play	23 m	n2	1,000.00	23,180.00		23,180	
	Allowance for pump, equipment, pipework and accessories for bubble jets	1 Ite	tem	30,000.00	30,000.00		30,000	
		278 m	~?	400.00				
	Screen planting Level turf space	278 m 175 m		400.00	111,328.00 21.018.00		111,328 21,018	
	Green wall against building	21 m		500.00	10,455.00		10,455	
	Raised shrub beds with specimen tree planting to creat avenue	436 m		400.00	174,360.00		174,360	
	Planter wall with seating edge (say 1m high)	98 m		650.00	63,531.00		63,531	
	Tree including individual tree bed (public area)	35 N		1,200.00	42,000.00		42,000	
	Allow for sundry soft landscaping	1 Ite		40,000.00	40,000.00		40,000	
	Private open space	243 m			.,		Excl.	
	Bollards (Upper level public square)	81 N		600.00	48,600.00		48,600	
	Sculptural public art	1 N		40,000.00	40,000.00		40,000	
	Retaining walls (say 3m high)	57 m		1,800.00	102,312.00		102,312	
	Allowance for sundry retaining walls	1 Ite		20,000.00	20,000.00		20,000	
	Allowance for street furniture/playground equipment	1 Ite		60,000.00	60,000.00		60,000	
	Allowance for stormwater	5,007 m		40.00	200,280.00		200,280	
	Allowance for irrigation	889 m		18.00	16,002.00		16,002	
	Vertical lighting columns including cable and conduit	12 N		5,000.00	60,000.00		60,000	
	Allowance for lighting (measured length of path)	103 m		1,800.00	185,400.00	0	185,400	
						Sub-total	4,282,364	
	LOWER EASTERN PEDESTRIAN LINK (STAGE 1)							
	Site preparation including minor cut and fill	1,958 m		50.00	97,891.50		97,892	
	Site preparation including minor cut and fill Pedestrian path	916 m	n2	320.00	293,120.00		293,120	
	Site preparation including minor cut and fill		n2 n2					



ltem	Description	Quantity	Unit	Rate	Subtotal	Factor	Total	Total
	Linear water channel and wall with bubble jets, approx 9m long x 2m high (plan area measured)	60	m2	1,200.00	72,372.00		72,372	
	Allowance for pump, equipment, pipework and accessories for bubble jets	1	Item	40,000.00	40,000.00		40,000	
	Raised planter beds	982 (	m2	400.00	392,880.00		392,880	
	Planter wall with seating edge (say 1m high)	467		650.00	303,745.00		303,745	
	Allowance for retaining walls		ltem	20,000.00	20,000.00		20,000	
	Allowance for street furniture/playground equipment	1   1,958	ltem	20,000.00	20,000.00		20,000 78,320	
	Allowance for stormwater Allowance for irrigation	982 1		40.00 18.00	78,320.00 17,676.00		17,676	
	Allowance for lighting (measured length of path)	96		1,200.00	115,200.00		115,200	
	TOTAL PUBLIC OPENSPACE WORKS				12,973,334.40	Sub-total	1,645,800	12,973,
	SERVICE INFRASTRUCTURE							
	Hydraulic (Estimate cost per Floth) Water Services	1	Item	1,075,635.00	1,075,635.00		1,075,635	
	Sewer Drainage		Item	1,184,815.00	1,184,815.00		1,184,815	
	Gas Services		Item	505,302.00	505,302.00		505,302	
	Associated builders works		ltem	200,000.00	200,000.00		200,000	
	Developer Contribution		ltem	500,000.00	500,000.00		500,000	
	Contingency (10%)	1	ltem	346,575.20	346,575.20	Sub-total	346,575 3,812,327	
	Say \$3,850,000				37,673		37,673	
	Electrical and Comms (Estimated cost per Floth)					Total	3,850,000	
	HV/LV Conduits & Street Lights		Item	1,526,262.20	1,526,262.20		1,526,262	
	HV Mains		ltem	355,047.00	355,047.00 413,082.00		355,047 413,082	
	Comms Conduits HV Feeders from Zone Substation		ltem Item	413,082.00 5,300,000.00	413,082.00 5,300,000.00		413,082 5,300,000	
	Associated builders works		ltem	350,000.00	350,000.00		350,000	
						Sub-total	7,944,391	
	Say \$8,000,000				55,609	Total	55,609 8,000,000	
	Stormwater Services		14	1 500 000 00	1 500 000 00	Total		
	Allowance for Stormwater Services Amplications	1	Item	1,500,000.00	1,500,000.00	Total	1,500,000 1,500,000	
	TOTAL SERVICE INFRASTRUCTURE				13,350,000.00			13,350
	FLOOD PATH AND TRUNK DRAINAGE (EXCLUDING UPSTREAM WORKS AT CONSTITUTION ROAD AND BEYOND)							
	Trunk Drainage Estimate							
	Connection to existing surface inlet pit in Ann Thron Park	1	ltem	25,000.00	25,000.00		25,000	
	Connection existing street drainage network to proposed trunk drainage	1	Item	25,000.00	25,000.00		25,000	
	Connection to existing box culvert including demolish existing headwall	1	No	50,000.00	50,000.00		50,000	
	Existing oil pipeline prior for construction Allow for verified the oil pipeline prior for construction	1	Item	2,000.00	2,000.00		2,000	
	Allow for upholding and support existing pipeline Outlet to Parramatta River (including remove existing seawall, new seawall,		Item	20,000.00	20,000.00		20,000	
	outlet and modification Remove existing seawall	1	Item	80,000.00	80,000.00		80,000	
	New outlet (pipe measured separately)	1	Item	50,000.00	50,000.00		50,000	
	New seawall	1	ltem	100,000.00	100,000.00		100,000	
	Proposed Stormwater Pits TD2 & TD4 - internal chamber 900 x 3600mm	2	No	40,000.00	80,000.00		80,000	
	TD2 a TD4 - Internal chamber 900 x 3000mm	1		38,000.00	38,000.00		38,000	
	TD5 - internal chamber 3000 x 3000mm	1		59,000.00	59,000.00		59,000	
	TD6 - internal chamber 1500 x 4100mm	1		54,000.00	54,000.00		54,000	
	Gross pollutant trap and overflow chamber	1	No	100,000.00	100,000.00		100,000	
	Proposed stormwater pipe and depth not exceeding 4.0m depth 2100 RCP class 3 (Constitution Road) (measured separately)	41 (	m			Incl	uded in below	
	2250 RCP class 3	97		6,600.00	640,200.00		640,200	
	2250 RCP class 3 (Nancarrow Avenue) (measured separately)	7 1			· · · · · · · · · · · · · · · · · · ·	Inclu	uded in below	
	2400 RCP class 3	130		7,100.00	923,000.00		923,000	
	3.2 x 1.2m box culvert 3.2 x 1.2m box culvert (BG&E design)	21 i 50 i		9,000.00 9,000.00	189,000.00 450,000.00		189,000 450,000	
	Proposed emergency overland flow path	353 1		200.00	70,600.00		70,600	
						Sub-total	2,955,800	
	Allow for traffic management 10%		ltem	295,580.00	295,580.00		295,580	
	Allow for preliminaries and margin 20%		ltem	650,276.00	650,276.00	0	650,276	
	Allow for contingency 10% Allow for design and professional fees 8%		ltem Item		0.00 0.00		ately Included ately Included	
	ALLOWANCE FOR BORING AND TUNNELLING WORKS					Total	3,901,656	
	Pipework including boring /tunnelling under Constitution Road for trunk drain work							
	2100RCP class 3 (included in above)	41		6,400.00	262,400.00		262,400	
	Allow for pit for both end for boring/tunnelling	2		40,000.00	80,000.00		80,000	
	Allow for boring and tunnelling including support and upholding utilities Allow for service division Pipework including boring /tunnelling under Nancarrow Avenue for trunk drain	41	m Item	14,000.00 102,500.00	574,000.00 102,500.00		574,000 102,500	
	work	_						
	2250RCP class 3 (included in above)	7 1		6,400.00	44,800.00		44,800	
	Allow for pit for both end for boring/tunnelling	2 1	No m	40,000.00 14,000.00	80,000.00 98,000.00		80,000 98,000	
	Allow for boring and tunnelling including support and unholding utilities			17,500.00	17,500.00		17,500	
	Allow for boring and tunnelling including support and upholding utilities Allow for service division		ltem	17,500.00	17,000.00			
	Allow for service division	1				Sub-total	1,259,200	
		1	ltem Item Item	0.00 251,840.00	0.00 251,840.00	Sub-total		
	Allow for service division Allow for traffic management (assumed not required)	1   1   1   1	Item	0.00	0.00	Separa	1,259,200 0	



item	Description	Quantity	Unit	Rate	Subtotal	Factor	Total	Total
	TOTAL FLOOD PATH AND TRUNK DRAINAGE (EXCLUDING UPSTREAM WORKS AT CONSTITUTION ROAD AND BEYOND)				5,412,696.00			5,412,696
5	TRAFFIC SIGNALS							
	Allow for traffic signals at the intersection of Constitution Road and Bowden Street including excavation, conduit, cable, pits, post, traffic light, traffic management, etc	1	item	600,000.00	600,000.00		600,000	
	Allow for traffic signals at the intersection of Belmore Street and Nancarrow Avenue including excavation, conduit, cable, pits, post, traffic light, traffic management, etc	1	item	500,000.00	500,000.00		500,000	
	Allow for traffic signals at the intersection of Parsonage Street, Porter Street and Loop Road including excavation, conduit, cable, pits, post, traffic light, traffic management, etc	1	item	550,000.00	550,000.00		550,000	
	TOTAL TRAFFIC SIGNALS				1,650,000.00			1,650,000
	Contingency (10%) Design & Professional Fees			Total	Sub-total Cost (excl GST)		Sep	41,487,428 4,148,743 arately Included 45,636,170
	EXCLUSIONS: Land Costs, Finance and Interest Authorities Fees, DA and CC Costs Design and Professional Fees Legal fees Archeological and heritage conservation assessment and works Contribution and charges Hard and soft landscape works within landscaped podiums Constitution Road Regarding (assume Council will reconstruct road to meet new development levels) Widening of Constitution Road and Well Street Foreshore landscaping outside site boundaries Flood strategy works upstream of Constitution Road Carbon tax impact							
	Escalation from date of estimate to actual date of commencement of works							
	GST							

Capital Investment Value Cost Estimate

### Appendix B

### **Definitions of Areas**

The term **Gross Floor Area (GFA)** used in this document is the sum of the "Fully Enclosed Covered Area" and "Unenclosed Covered Area" as defined below.

#### Fully Enclosed Covered Area (FECA)

The sum of all such areas at all building floor levels, including basements (except unexcavated portions), floored roof spaces and attics, garages, penthouses, enclosed porches and attached enclosed covered ways alongside buildings, equipment rooms, lift shafts, vertical ducts, staircases and any other fully enclosed spaces and usable areas of the building, computed by measuring from the normal inside face of exterior walls but ignoring any projections such as plinths, columns, piers and the like which project from the normal inside face of exterior walls.

It shall not include open courts, light wells, connecting or isolated covered ways and net open areas of upper portions of rooms, lobbies, halls, interstitial spaces and the like which extend through the storey being computed.

#### Unenclosed Covered Area (UCA)

The sum of all such areas at all building floor levels, including roofed balconies, open verandahs, porches and porticos, attached open covered ways alongside buildings, undercrofts and usable space under buildings, unenclosed access galleries (including ground floor) and any other trafficable covered areas of the building which are not totally enclosed by full height walls, computed by measuring the areas between the enclosing walls or balustrade (ie from the inside face of the UCA excluding the wall or balustrade thickness). When the covering element (ie roof or upper floor) is supported by columns, is cantilevered or is suspended, or any combination of these, the measurements shall be taken to the edge of the paving or the edge of the cover, whichever is the lesser.

UCA shall not include eaves overhangs, sun shading, awnings and the like where these do not relate to clearly defined trafficable covered areas, nor shall it include connecting or isolated covered ways which are elements of external works or outbuildings.

The definitions of FECA and UCA above are consistent with the definitions in the Australian Cost Management Manual published by the Australian Institute of Quantity Surveyors.

It should be noted that local councils or authorities may adopt other definitions for Gross Floor Area for the purposes of floor space ratio calculations or the likes.