

## 7.6 Interim road costings

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS  
SUMMARY SHEET  
CG130898

28 April 2015  
Version 13

Mid-Block Road Length Totals

**Clyde PSP - Road Per Metre**

**Interim works**

ITEM	DESCRIPTION	Interim Primary	Interim Secondary	Connector Road
A	Project and Program Management (5%)	\$ 164.11	\$ 162.96	\$ 217.72
B	Design and Investigation including Final Design (10%)	\$ 328.22	\$ 325.93	\$ 435.43
C	Construction	\$ 3,282.20	\$ 3,259.25	\$ 4,354.30
<b>TOTAL A - C</b>		<b>\$ 3,774.53</b>	<b>\$ 3,748.14</b>	<b>\$ 5,007.45</b>
<b>D CONTINGENCY</b>				
	Contingency (10% of C)	\$ 328.22	\$ 325.93	\$ 435.43
<b>E PROJECT BUDGET</b>				
	Total Estimate per linear metre	\$ 4,102.75	\$ 4,074.06	\$ 5,442.88

Road Number	Total Length
RD-53-01A	760
RD-53-01B	1100
RD-53-02	540
RD-53-03A	630
RD-54-01 #	1520
RD-54-02 #	1900
RD-54-03 **	1730
RD-54-04 *	1105
RD-54-05 *	357
RD-54-06 *	497
RD-54-07 *	975
RD-57.1-01	1000
RD-57.1-02	300

\* VALUES PROVIDED BY MPA\*  
\*\*ADDITIONAL 100m ADDED AT COUNCIL REQUEST FOR BALLARTO ROAD INTERFACE

**NOTES**

Ultimate costing assumes no interim works constructed  
Cost estimates reflect the construction of a road length of approximately 500m.  
CONNECTOR ROAD Connector road is the same in the interim and ultimate  
SUBSTATIONS No allowance for substations or undergrounding of the power

Author: Harrendran Mohan  
Date: 16/04/2015

REVIEWER: Rob Henry  
Date: 16/04/2015

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS  
CG130898

28 April 2015  
Version 13

Clyde PSP - Road Per Metre

Interim Primary					AMOUNT	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	per linear metre	
<b>A</b>	<b>Project and Program Management (5%)</b>					\$ 164.11
	<b>Project Management</b>		3.00%	0.00%	\$ 98.47	
	Project scoping, planning, scheduling, monitoring, reporting and commissioning					
	Management of preconstruction activities, development of tender documents and management of contracts					
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>		2.00%	0.00%	\$ 65.64	
<b>B</b>	<b>Design and Investigation including Final Design (10%)</b>					\$ 328.22
	Traffic Investigations		0.85%	0.00%	\$ 27.90	
	Cadastral and Engineering Survey		1.20%	0.00%	\$ 39.39	
	Geotechnical investigations Pavement Investigations and Design		1.20%	0.00%	\$ 39.39	
	Environmental Investigations			0.00%	\$ -	
	Landscape Design			0.00%	\$ -	
	Preliminary and Final design Design		4.25%	0.00%	\$ 139.49	
	Construction Management		2.50%	0.00%	\$ 82.06	
<b>C</b>	<b>Construction</b>				\$ 3,282.20	\$ 3,282.20
<b>1</b>	<b>PRELIMINARIES</b>					\$ 234.10
1.1	Site Establishment (2.5% of total construction cost)	1.0000	item	\$ 82.10	\$ 82.10	
1.2	Site Management & supervision including QA	0.0160	wks	\$ 2,500.00	\$ 40.00	
1.3	Provision for traffic	0.0020	item	\$ 56,000.00	\$ 112.00	
<b>2</b>	<b>DEMOLITION</b>					\$ 25.00
2.1	Kerb and channel	0.0000	m	\$ 40.00	\$ -	
2.2	Pavement (350mm)	0.0000	m <sup>3</sup>	\$ 15.00	\$ -	
2.3	Trees	0.0500	item	\$ 500.00	\$ 25.00	
<b>3</b>	<b>EARTHWORKS</b>					\$ 204.00
3.1	Stripping topsoil (100mm)	14.0000	m <sup>2</sup>	\$ 6.00	\$ 84.00	
3.2	Excavation and Removal	4.0000	m <sup>3</sup>	\$ 30.00	\$ 120.00	
3.4	Fill, Type A	0.0000	m <sup>3</sup>		\$ -	
<b>4</b>	<b>PAVEMENT</b>					\$ 1,417.10
4.1	Deep lift asphalt 195 mm	7.0000	m <sup>2</sup>	\$ 105.00	\$ 735.00	
4.2	Subbase course - 250 mm 3% CTCR	8.0000	m <sup>2</sup>	\$ 55.00	\$ 440.00	
4.3	Shoulder - Full Depth deep lift Pavement	1.0000	m <sup>2</sup>	\$ 160.00	\$ 160.00	
4.4	Subgrade Improvement (2.5% of total construction cost)	1.0000	item	\$ 82.10	\$ 82.10	
<b>5</b>	<b>DRAINAGE</b>					\$ 295.00
5.1	subsoil drains 100mm dia - screenings	1.0000	m	\$ 30.00	\$ 30.00	
5.2	subsoil drains 100mm dia - no fines conc	1.0000	m	\$ 45.00	\$ 45.00	
5.3	375 RCP (Class 2)	1.0000	m	\$ 170.00	\$ 170.00	
5.4	300 dia cross drain		m	\$ 135.00	\$ -	
5.5	Side entry pits	0.0200	No	\$ 2,500.00	\$ 50.00	
<b>6</b>	<b>CONCRETE WORKS</b>					\$ 273.33
6.1	Kerb & channel	1.0000	m	\$ 50.00	\$ 50.00	
6.3	Bike lane (3.0m wide, 125 mm CONC, 75 FCR- Residential, as per MPA)	3.0000	m <sup>2</sup>	\$ 65.00	\$ 195.00	
6.4	Laybacks and tactile pavers	0.0333	No	\$ 850.00	\$ 28.33	
6.5	Concrete island infill	0.0000	m <sup>2</sup>		\$ -	

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS  
CG130898

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Clyde PSP - Road Per Metre

Interim Primary					AMOUNT	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	per linear metre	
<b>7</b>	<b>LANDSCAPING WORKS</b>					\$ 17.00
7.1	Topsoiling	2.0000	m <sup>2</sup>	\$ 8.50	\$ 17.00	
<b>8</b>	<b>SIGNING</b>	0.0020	item	\$ 5,000.00	\$ 10.00	\$ 10.00
<b>9</b>	<b>LINEMARKING (Thermoplastic)</b>	1.0000	m	\$ 5.00	\$ 5.00	\$ 5.00
<b>10</b>	<b>SERVICE RELOCATION</b>					\$ 600.00
10.1	Water, Gas, Telstra (adopted allowance)	0.0020	item	\$ 150,000.00	\$ 300.00	
10.1	Overhead electricity (adopted allowance)	0.0020	item	\$ 150,000.00	\$ 300.00	
<b>11</b>	<b>LIGHTING</b>					\$ 201.67
11.1	light pole relocated		No		\$ -	
11.2	Light pole (1 way) and luminaire	0.0133	No	\$ 8,000.00	\$ 106.67	
11.3	Undergrounding and conduiting	0.0020	m	\$ 32,500.00	\$ 65.00	
11.4	Electrical connection	0.0020	item	\$ 15,000.00	\$ 30.00	
<b>12</b>	<b>MISCELLANEOUS</b>					\$ -
12.1	Driveway crossings		not included		\$ -	
12.2	Conduits		not included		\$ -	
<b>13</b>	<b>PROVISIONAL SUM - DAYWORK</b>		item		\$ -	\$ -
<b>TOTAL A - C</b>					\$ 3,774.53	\$ 3,774.53
<b>D</b>	<b>Contingency</b>					
	Contingency (10% of C)				0.10	\$ 328.22
<b>E</b>	<b>PROJECT BUDGET</b>					
	Total Estimate per linear metre					\$ 4,102.75

NOTES

SERVICES	No allowance for sewer
SUBSTATIONS	No allowance for substations or undergrounding of the power
SERVICE ROAD	No allowance made for 12m service road
PRELIMINARIES	based on nominal rates
SUB SOIL DRAIN	assume same as kerb and channel
SIDE ENTRY PITS	based on 50 m intervals
TACTILE PAVERS	assume hazard tgsi's (no directional)
SIGNING	nominal rate
LIGHT POLES	based on 75m intervals assume all single arm

Note:

1. Estimate could be reduced by salvaging components of existings road
2. Cost estimates reflect the construction of a road length of approximately 500m

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Clyde PSP - Road Per Metre

Interim Secondary					AMOUNT	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	per linear metre	
<b>A</b>	<b>Project and Program Management (5%)</b>					\$ 162.96
	<b>Project Management</b>		3.00%	0.00%	\$ 97.78	
	Project scoping, planning, scheduling, monitoring, reporting and commissioning					
	Management of preconstruction activities, development of tender documents and management of contracts					
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>		2.00%	0.00%	\$ 65.19	
<b>B</b>	<b>Design and Investigation including Final Design (10%)</b>					\$ 325.93
	Traffic Investigations		0.85%	0.00%	\$ 27.70	
	Cadastral and Engineering Survey		1.20%	0.00%	\$ 39.11	
	Geotechnical investigations Pavement Investigations and Design		1.20%	0.00%	\$ 39.11	
	Environmental Investigations			0.00%	\$ -	
	Landscape Design			0.00%	\$ -	
	Preliminary and Final design Design		4.25%	0.00%	\$ 138.52	
	Construction Management		2.50%	0.00%	\$ 81.48	
<b>C</b>	<b>Construction</b>				\$ 3,259.25	\$ 3,259.25
<b>1</b>	<b>PRELIMINARIES</b>					\$ 233.50
1.1	Site Establishment (2.5% of total construction cost)	1.0000	item	\$ 81.50	\$ 81.50	
1.2	Site Management & supervision including QA	0.0160	wks	\$ 2,500.00	\$ 40.00	
1.3	Provision for traffic	0.0020	item	\$ 56,000.00	\$ 112.00	
<b>2</b>	<b>DEMOLITION</b>					\$ 25.00
2.1	Kerb and channel	0.0000	m	\$ 40.00	\$ -	
2.2	Pavement (350mm)	0.0000	m <sup>3</sup>	\$ 15.00	\$ -	
2.3	Trees	0.0500	item	\$ 500.00	\$ 25.00	
<b>3</b>	<b>EARTHWORKS</b>					\$ 195.00
3.1	Stripping topsoil (100mm)	12.5000	m <sup>2</sup>	\$ 6.00	\$ 75.00	
3.2	Excavation and Removal	4.0000	m <sup>3</sup>	\$ 30.00	\$ 120.00	
3.4	Fill, Type A	0.0000	m <sup>3</sup>		\$ -	
<b>4</b>	<b>PAVEMENT</b>					\$ 1,416.50
4.1	Deep lift asphalt 195 mm	7.0000	m <sup>2</sup>	\$ 105.00	\$ 735.00	
4.2	Subbase course - 250 mm 3% CTCR	8.0000	m <sup>2</sup>	\$ 55.00	\$ 440.00	
4.3	Shoulder - Full Depth deep lift Pavement	1.0000	m <sup>2</sup>	\$ 160.00	\$ 160.00	
4.4	Subgrade Improvement (2.5% of total construction cost)	1.0000	item	\$ 81.50	\$ 81.50	
<b>5</b>	<b>DRAINAGE</b>					\$ 295.00
5.1	subsoil drains 100mm dia - screenings	1.0000	m	\$ 30.00	\$ 30.00	
5.2	subsoil drains 100mm dia - no fines conc	1.0000	m	\$ 45.00	\$ 45.00	
5.3	375 RCP (Class 2)	1.0000	m	\$ 170.00	\$ 170.00	
5.4	300 dia cross drain		m	\$ 135.00	\$ -	
5.5	Side entry pits	0.0200	No	\$ 2,500.00	\$ 50.00	
<b>6</b>	<b>CONCRETE WORKS</b>					\$ 273.33
6.1	Kerb & channel	1.0000	m	\$ 50.00	\$ 50.00	
6.3	Bike path (3.0m wide, 125 mm CONC, 75 FCR- Residential, as per MPA)	3.0000	m <sup>2</sup>	\$ 65.00	\$ 195.00	
6.4	Laybacks and tactile pavers	0.0333	No	\$ 850.00	\$ 28.33	
6.5	Concrete island infill	0.0000	m <sup>2</sup>		\$ -	

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Clyde PSP - Road Per Metre

Interim Secondary					AMOUNT	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	per linear metre	
<b>7</b>	<b>LANDSCAPING WORKS</b>					\$ 4.25
7.1	Topsoiling	0.5000	m <sup>2</sup>	\$ 8.50	\$ 4.25	
<b>8</b>	<b>SIGNING</b>	0.0020	item	\$ 5,000.00	\$ 10.00	\$ 10.00
<b>9</b>	<b>LINEMARKING (Thermoplastic)</b>	1.0000	m	\$ 5.00	\$ 5.00	\$ 5.00
<b>10</b>	<b>SERVICE RELOCATION</b>					\$ 600.00
10.1	Water, Gas, Telstra (adopted allowance)	0.0020	item	\$ 150,000.00	\$ 300.00	
10.1	Overhead electricity (adopted allowance)	0.0020	item	\$ 150,000.00	\$ 300.00	
<b>11</b>	<b>LIGHTING</b>					\$ 201.67
11.1	light pole relocated		No		\$ -	
11.2	Light pole (1 way) and luminaire	0.0133	No	\$ 8,000.00	\$ 106.67	
11.3	Undergrounding and conduiting	0.0020	m	\$ 32,500.00	\$ 65.00	
11.4	Electrical connection	0.0020	item	\$ 15,000.00	\$ 30.00	
<b>12</b>	<b>MISCELLANEOUS</b>					\$ -
12.1	Driveway crossings		not included		\$ -	
12.2	Conduits		not included		\$ -	
<b>13</b>	<b>PROVISIONAL SUM - DAYWORK</b>		item		\$ -	\$ -
<b>TOTAL A - C</b>					\$ 3,748.14	\$ 3,748.14
<b>D</b>	<b>Contingency</b>					
	Contingency (10% of C)				0.10	\$ 325.93
<b>E</b>	<b>PROJECT BUDGET</b>					
	Total Estimate per linear metre					\$ 4,074.06

#### NOTES

SERVICES	No allowance for sewer
SUBSTATIONS	No allowance for substations or undergrounding of the power
SERVICE ROAD	No allowance made for 13m service road
PRELIMINARIES	based on nominal rates
SUB SOIL DRAIN	assume same as kerb and channel
SIDE ENTRY PITS	based on 50 m intervals
TACTILE PAVERS	assume hazard tgsi's (no directional)
SIGNING	nominal rate
LIGHT POLES	based on 75m intervals assume all single arm

#### Note:

1. Estimate could be reduced by salvaging components of existings road
2. Cost estimates reflect the construction of a road length of approximately 500m

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS  
CG130898

28 April 2015  
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Clyde PSP - Road Per Metre

**Connector Road**

					AMOUNT	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	per linear metre	
<b>A</b>	<b>Project and Program Management (5%)</b>					\$ 217.72
	<b>Project Management</b>		3.00%	0.00%	\$ 130.63	
	Project scoping, planning, scheduling, monitoring, reporting and commissioning					
	Management of preconstruction activities, development of tender documents and management of contracts					
	Managing external interfaces, including community liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>		2.00%	0.00%	\$ 87.09	
<b>B</b>	<b>Design and Investigation including Final Design (10%)</b>					\$ 435.43
	Traffic Investigations		0.85%	0.00%	\$ 37.01	
	Cadastral and Engineering Survey		1.20%	0.00%	\$ 52.25	
	Geotechnical investigations Pavement Investigations and Design		1.20%	0.00%	\$ 52.25	
	Environmental Investigations			0.00%	\$ -	
	Landscape Design			0.00%	\$ -	
	Preliminary and Final design Design		4.25%	0.00%	\$ 185.06	
	Construction Management		2.50%	0.00%	\$ 108.86	
<b>C</b>	<b>Construction</b>				\$ 4,354.30	\$ 4,354.30
<b>1</b>	<b>PRELIMINARIES</b>					\$ 219.00
1.1	Site Establishment	1.0000	item	\$ 109.00	\$ 109.00	
1.2	Site Management & supervision including QA	0.0160	wks	\$ 2,500.00	\$ 40.00	
1.3	Provision for traffic	0.0020	item	\$ 35,000.00	\$ 70.00	
<b>2</b>	<b>DEMOLITION</b>					\$ 25.00
2.1	Kerb and channel	0.0000	m	\$ 40.00	\$ -	
2.2	Pavement (350mm)	0.0000	m <sup>3</sup>	\$ 15.00	\$ -	
2.3	Trees	0.0500	item	\$ 500.00	\$ 25.00	
<b>3</b>	<b>EARTHWORKS</b>					\$ 339.00
3.1	Stripping topsoil (100mm)	23.5000	m <sup>2</sup>	\$ 6.00	\$ 141.00	
3.2	Excavation and Removal	6.6000	m <sup>3</sup>	\$ 30.00	\$ 198.00	
3.4	Fill, Type A	0.0000	m <sup>3</sup>		\$ -	
<b>4</b>	<b>PAVEMENT</b>					\$ 2,011.00
4.1	Deep lift asphalt 195 mm	11.2000	m <sup>2</sup>	\$ 105.00	\$ 1,176.00	
4.2	Subbase course - 250 mm 3% CTCR	13.2000	m <sup>2</sup>	\$ 55.00	\$ 726.00	
4.3	Shoulder - Full Depth deep lift Pavement	0.0000	m <sup>2</sup>	\$ 160.00	\$ -	
4.4	Subgrade Improvement (2.5% of total construction cost)	1.0000	item	\$ 109.00	\$ 109.00	
<b>5</b>	<b>DRAINAGE</b>					\$ 365.80
5.1	subsoil drains 100mm dia - screenings	2.0000	m	\$ 30.00	\$ 60.00	
5.2	subsoil drains 100mm dia - no fines conc	0.0000	m	\$ 45.00	\$ -	
5.3	375 RCP (Class 2)	1.0200	m	\$ 170.00	\$ 173.40	
5.4	300 dia cross drain	0.2400	m	\$ 135.00	\$ 32.40	
5.5	Side entry pits	0.0400	No	\$ 2,500.00	\$ 100.00	
<b>6</b>	<b>CONCRETE WORKS</b>					\$ 518.33
6.1	Kerb & channel	2.0000	m	\$ 50.00	\$ 100.00	
6.2	Footpaths (1.5*2m wide, 125 mm CONC, 75 FCR, - Residential, as per MPA)	3.0000	m <sup>2</sup>	\$ 65.00	\$ 195.00	
6.3	Bike lane (3.0m wide, 125 mm CONC, 75 FCR- Residential, as per MPA)	3.0000	m <sup>2</sup>	\$ 65.00	\$ 195.00	
6.4	Laybacks and tactile pavers	0.0333	No	\$ 850.00	\$ 28.33	
6.5	Concrete island infill	0.0000	m <sup>2</sup>		\$ -	

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28 April 2015  
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Clyde PSP - Road Per Metre

Connector Road					AMOUNT	SUBTOTAL
ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	per linear metre	
<b>7</b>	<b>LANDSCAPING WORKS</b>					\$ 59.50
7.1	Topsoiling	7.0000	m <sup>2</sup>	\$ 8.50	\$ 59.50	
<b>8</b>	<b>SIGNING</b>	0.0020	item	\$ 5,000.00	\$ 10.00	\$ 10.00
<b>9</b>	<b>LINEMARKING (Thermoplastic)</b>	1.0000	m	\$ 5.00	\$ 5.00	\$ 5.00
<b>10</b>	<b>SERVICE RELOCATION</b>					\$ 600.00
10.1	Water, Gas, Telstra (adopted allowance)	0.0020	item	\$ 150,000.00	\$ 300.00	
10.1	Overhead electricity (adopted allowance)	0.0020	item	\$ 150,000.00	\$ 300.00	
<b>11</b>	<b>LIGHTING</b>					\$ 201.67
11.1	light pole relocated		No		\$ -	
11.2	Light pole (1 way) and luminaire	0.0133	No	\$ 8,000.00	\$ 106.67	
11.3	Undergrounding and conduiting	0.0020	m	\$ 32,500.00	\$ 65.00	
11.4	Electrical connection	0.0020	item	\$ 15,000.00	\$ 30.00	
<b>12</b>	<b>MISCELLANEOUS</b>					\$ -
12.1	Driveway crossings		not included		\$ -	
12.2	Conduits		not included		\$ -	
<b>13</b>	<b>PROVISIONAL SUM - DAYWORK</b>		item		\$ -	\$ -
<b>TOTAL A - C</b>					\$ 5,007.45	\$ 5,007.45
<b>D</b>	<b>Contingency</b>					
	Contingency (10% of C)				0.10	\$ 435.43
<b>E</b>	<b>PROJECT BUDGET</b>					
	Total Estimate per linear metre					\$ 5,442.88

#### NOTES

SERVICES	No allowance for sewer
SUBSTATIONS	No allowance for substations or undergrounding of the power
PAVEMENT	Parking bays have same pavement
Planting in parking bays	Without frequency or stds we ave allowed to run pavement through to provide a conservative estimate
PRELIMINARIES	based on nominal rates
SUB SOIL DRAIN	assume same as kerb and channel
SIDE ENTRY PITS	based on 50 m intervals - drainage has cross road drains at pits
TACTILE PAVERS	assume hazard tgsi's (no directional)
SIGNING	nominal rate
LIGHT POLES	based on 75m intervals assume all single arm

#### Note:

1. Cost estimates reflect the construction of a road length of approximately 500m



## 7.7 Interim culvert costings

CULVERT / BRIDGE CROSSINGS PER LINEAR METER  
 SUMMARY SHEET  
 CG130898  
 Clyde PSP  
 24 August 2015  
 Version 8

ITEM	DESCRIPTION	Culvert No.		BR-53-01		BR-53-02		BR-53-03		BR-53-04		BR-54-01		BR-54-04	
		Drawing No./issue		CG130898C57-P2		CG130898C58-P2		CG130898C59-P2		CG130898C66-P1		CG130898C56-P2		CG130898C64-P1	
		Melbourne Water No.		MW-002		MW-003		MW-004		MW-005		MW-007		MW-010	
		Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Total Cost (Complete Culvert Construction)	Total Cost (Complete Culvert Construction)	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter		
A	Project and Program Management	\$ 7,489	\$ 163	\$ 8,128	\$ 189	\$ 20,223	\$ 20,117	\$ 21,523	\$ 384	\$ 12,627	\$ 361				
B	Design and Investigation	\$ 14,977	\$ 326	\$ 16,257	\$ 378	\$ 40,446	\$ 40,235	\$ 43,047	\$ 769	\$ 25,254	\$ 722				
C	Construction including Final Design	\$ 111,686	\$ 2,536	\$ 121,955	\$ 2,919	\$ 347,470	\$ 350,170	\$ 373,021	\$ 7,133	\$ 201,224	\$ 5,638				
	<b>TOTAL A - C</b>	\$ 134,152	\$ 3,025	\$ 146,340	\$ 3,486	\$ 408,138	\$ 410,522	\$ 437,591	\$ 8,286	\$ 239,104	\$ 6,721				
D	<b>CONTINGENCY</b>														
	Contingency	\$ 26,830	\$ 605	\$ 29,268	\$ 697	\$ 81,628	\$ 82,104	\$ 87,518	\$ 1,657	\$ 47,821	\$ 1,344				
E	<b>PROJECT BUDGET</b>														
	Total Estimate	\$ 160,983	\$ 3,629	\$ 175,608	\$ 4,183	\$ 489,766	\$ 492,626	\$ 525,109	\$ 9,944	\$ 286,925	\$ 8,065				
		1500dia.		1650dia		1950dia		1950dia		2x2100dia.		3x1350dia.			

- Notes:**
- Services**
  - 1 Service relocation / alterations have not been allowed for in the estimate
  - Preliminaries**
  - 2 Based on nominal rates and 30% of total drainage line
  - Demolition**
  - 3 No allowance has been included for site demolition (ie: tree removal)
  - Construction**
  - 4 No allowance has been included for end walls and pits
  - 6 Construction to take place aside existing road prior to road extension
  - 7 Installation of culverts to be done prior or during road fill works
  - 8 Regrading of creek not included

AUTHOR: Kim Dinh  
 Date: 24/08/2015

REVIEWER: Rob Henry  
 Date: 24/08/2015

CULVERT / BRIDGE CROSSINGS PER LINEAR METER  
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 24 August 2015  
 Version 8

ITEM	DESCRIPTION	BR-54-05		BR-54-07		BR-54-11		BR-54-14		BR-54-15		BR-54-16	
		CG130898C65-P1		CG130898C62-P1		CG130898C55-P2		CG130898C52-P2		CG130898C51-P2		CG130898C52-P2	
		Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter	Partial works Total Cost	Cost Per Meter
	Culvert No. Drawing No./issue Melbourne Water No.												
A	Project and Program Management	\$ 15,792	\$ 322	\$ 14,716	\$ 368	\$ 20,591	\$ 429	\$ 12,647	\$ 294	\$ 7,748	\$ 149	\$ 18,954	\$ 431
B	Design and Investigation	\$ 31,584	\$ 645	\$ 29,432	\$ 736	\$ 41,182	\$ 858	\$ 25,293	\$ 588	\$ 15,496	\$ 298	\$ 37,907	\$ 862
C	Construction including Final Design	\$ 246,559	\$ 5,179	\$ 240,656	\$ 5,990	\$ 310,102	\$ 6,641	\$ 190,463	\$ 4,499	\$ 116,077	\$ 2,451	\$ 285,447	\$ 6,571
	<b>TOTAL A - C</b>	<b>\$ 293,935</b>	<b>\$ 6,146</b>	<b>\$ 284,804</b>	<b>\$ 7,094</b>	<b>\$ 371,875</b>	<b>\$ 7,928</b>	<b>\$ 228,403</b>	<b>\$ 5,382</b>	<b>\$ 139,321</b>	<b>\$ 2,898</b>	<b>\$ 342,308</b>	<b>\$ 7,863</b>
D	CONTINGENCY												
	Contingency	\$ 58,787	\$ 1,229	\$ 56,961	\$ 1,419	\$ 74,375	\$ 1,586	\$ 45,681	\$ 1,076	\$ 27,864	\$ 580	\$ 102,692	\$ 2,359
E	PROJECT BUDGET												
	Total Estimate	\$ 352,722	\$ 7,375	\$ 341,765	\$ 8,512	\$ 446,250	\$ 9,514	\$ 274,083	\$ 6,458	\$ 167,185	\$ 3,477	\$ 445,001	\$ 10,222
		3x900dia.		3x1500dia.		2x2100dia.		2x1500dia.		900 dia.		2x2100dia.	

- Notes:**
- Services**
  - 1 Service relocation / alterations have not been allowed for in the estimate
  - Preliminaries**
  - 2 Based on nominal rates and 30% of total drainage line
  - Demolition**
  - 3 No allowance has been included for site demolition (ie: tree removal)
  - Construction**
  - 4 No allowance has been included for end walls and pits
  - 6 Construction to take place aside existing road prior to road extension
  - 7 Installation of culverts to be done prior or during road fill works
  - 8 Regrading of creek not included

AUTHOR: Kim Dinh  
 Date: 24/08/2015

REVIEWER: Rob Henry  
 Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-002

Culvert Length, m: 46

BR-53-01, Partial Cost

PM %: 13.41%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 7,489</b>		<b>\$ 163</b>
	<b>Project Management</b>		3.00%	4.02%	\$ 4,493		\$ 97.68	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.68%	\$ 2,995		\$ 65.12	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 14,977</b>		<b>\$ 326</b>
	Traffic Investigations		0.85%	1.14%	\$ 1,273		\$ 27.68	
	Cadastral and Engineering Survey		1.20%	1.61%	\$ 1,797		\$ 39.07	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.61%	\$ 1,797		\$ 39.07	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.70%	\$ 6,365		\$ 138.38	
	Construction Management		2.50%	3.35%	\$ 3,744		\$ 81.40	
<b>C</b>	<b>Construction including Final Design</b>				<b>\$ 111,686</b>	<b>\$ 111,686</b>		<b>\$ 2,536</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 310</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 36.96	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 54.78	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 217.83	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 22,577</b>		<b>\$ 609</b>
2.1	Stripping topsoil (100mm)	106	m <sup>2</sup>	\$ 6.00	\$ 635		\$ 60.00	
2.2	Excavation and Removal	731	m <sup>3</sup>	\$ 30.00	\$ 21,942		\$ 548.55	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 74,870</b>		<b>\$ 1,618</b>
3.1	1500dia. RCP pipe, supply and lay	46	Lm	\$ 1,100.00	\$ 50,600		\$ 1,100.00	
3.2	150mm thick Class 2 CR under pipe	106	m <sup>2</sup>	\$ 12.00	\$ 1,270		\$ 18.00	
3.3	Backfill and compact FCR to trench	46	Lm	\$ 500.00	\$ 23,000		\$ 500.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>				<b>\$ 134,152</b>	<b>\$ 134,152</b>	<b>\$ 3,025</b>	<b>\$ 3,025</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 26,830	20%	\$ 605
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 160,983</b>		<b>\$ 3,629</b>

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-003

Culvert Length, m: 43

BR-53-02, Partial Cost

PM %: 13.33%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 8,128</b>		<b>\$ 189</b>
	<b>Project Management</b>		3.00%	4.00%	\$ 4,877		\$ 113.42	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.67%	\$ 3,251		\$ 75.61	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 16,257</b>		<b>\$ 378</b>
	Traffic Investigations		0.85%	1.13%	\$ 1,382		\$ 32.14	
	Cadastral and Engineering Survey		1.20%	1.60%	\$ 1,951		\$ 45.37	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.60%	\$ 1,951		\$ 45.37	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.67%	\$ 6,909		\$ 160.68	
	Construction Management		2.50%	3.33%	\$ 4,064		\$ 94.52	
<b>C</b>	<b>Construction including Final Design</b>				<b>\$ 121,955</b>	<b>\$ 121,955</b>		<b>\$ 2,919</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 331</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 39.53	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 58.60	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 233.02	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 29,025</b>		<b>\$ 770</b>
2.1	Stripping topsoil (100mm)	108	m <sup>2</sup>	\$ 6.00	\$ 645		\$ 60.00	
2.2	Excavation and Removal	946	m <sup>3</sup>	\$ 30.00	\$ 28,380		\$ 709.50	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 78,690</b>		<b>\$ 1,818</b>
3.1	1650dia. RCP pipe, supply and lay	43	Lm	\$ 1,300.00	\$ 55,900		\$ 1,300.00	
3.2	150mm thick Class 2 CR under pipe	108	m <sup>2</sup>	\$ 12.00	\$ 1,290		\$ 18.00	
3.3	Backfill and compact FCR to trench	43	Lm	\$ 500.00	\$ 21,500		\$ 500.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>				<b>\$ 146,340</b>	<b>\$ 146,340</b>	<b>\$ 3,486</b>	<b>\$ 3,486</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 29,268	20%	\$ 697
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 175,608</b>		<b>\$ 4,183</b>

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-004

Culvert Length, m: 45

BR-53-03, Total Cost

PM %: 11.64%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 20,223</b>
	<b>Project Management</b>		3.00%	3.49%	\$ 12,134	
	reporting and commissioning					
	of tender documents and management of contracts					
	liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>		2.00%	2.33%	\$ 8,089	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 40,446</b>
	Traffic Investigations		0.85%	0.99%	\$ 3,438	
	Cadastral and Engineering Survey		1.20%	1.40%	\$ 4,853	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.40%	\$ 4,853	
	Environmental Investigations			0.00%	\$ -	
	Landscape Design			0.00%	\$ -	
	Preliminary and Final Design		4.25%	4.95%	\$ 17,189	
	Construction Management		2.50%	2.91%	\$ 10,111	
<b>C</b>	<b>Construction including Final Design</b>				\$ 347,470	<b>\$ 347,470</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 97,800</b>
1.1	Site Establishment	1	item	\$ 8,000.00	\$ 8,000	
1.2	Site Management & supervision including QA	8	wks	\$ 850.00	\$ 6,800	
1.3	Provision for traffic	8	wks	\$ 6,000.00	\$ 48,000	
1.4	Diversion Works including: setup of bypass lines and pump system, installation of temporary 150dia PVC pipes and installation of bund walls at extent culvert works	1	item	\$ 35,000.00	\$ 35,000	
<b>2</b>	<b>DEMOLITION</b>					<b>\$ 36,750</b>
2.1	Trees	1	Item	\$ 2,000	\$ 2,000	
2.2	Fence removal	1	Item	\$ 1,000	\$ 1,000	
2.3	Excavation and removal of existing culvert	1	Item	\$ 33,750	\$ 33,750	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 32,400</b>
2.1	Stripping topsoil (100mm)	450	m <sup>2</sup>	\$ 6.00	\$ 2,700	
2.2	Excavation and Removal	990	m <sup>3</sup>	\$ 30.00	\$ 29,700	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 161,120</b>
3.1	1950dia. RCP pipe, supply and lay	45	Lm	\$ 1,800.00	\$ 81,000	
3.2	150mm thick Class 2 CR under pipe	135	m <sup>2</sup>	\$ 12.00	\$ 1,620	
3.3	Backfill and compact FCR to trench	45	Lm	\$ 500.00	\$ 22,500	
3.4	Humes precast endwall or equivalent	2	No.	\$ 20,000.00	\$ 40,000	
3.5	Rock beaching at ends of culvert	160	m <sup>2</sup>	\$ 100.00	\$ 16,000	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ 19,400</b>
4.1	Safety works under power lines (spotter)	2	weeks	\$ 3,400.00	\$ 6,800	
4.2	Installation of crash barrier	70	Lm	\$ 180.00	\$ 12,600	
	<b>TOTAL A - C</b>				\$ 408,138	<b>\$ 408,138</b>
<b>D</b>	<b>Contingency</b>					
	<b>Contingency (20% of C)</b>				20%	<b>\$ 81,628</b>
<b>E</b>	<b>PROJECT BUDGET</b>					
	<b>Total Estimate</b>					<b>\$ 489,766</b>

**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

- 2 Based on nominal rates and 30% of total drainage line

**Demolition**

- 3 We have only allowed to demolish the items shown above

**Construction**

- 4 Construction to take place aside existing road prior to road extension
- 5 Installation of culverts to be done prior or during road fill works
- 6 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS  
CG130898

24 August 2015  
Version 8

MW-005

Culvert Length, m: 45

BR-53-04, Total Cost

PM %: 11.49%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 20,117</b>
	<b>Project Management</b>		3.00%	3.45%	\$ 12,070	
	reporting and commissioning					
	of tender documents and management of contracts					
	liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>		2.00%	2.30%	\$ 8,047	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 40,235</b>
	Traffic Investigations		0.85%	0.98%	\$ 3,420	
	Cadastral and Engineering Survey		1.20%	1.38%	\$ 4,828	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.38%	\$ 4,828	
	Environmental Investigations			0.00%	\$ -	
	Landscape Design			0.00%	\$ -	
	Preliminary and Final Design		4.25%	4.88%	\$ 17,100	
	Construction Management		2.50%	2.87%	\$ 10,059	
<b>C</b>	<b>Construction including Final Design</b>				\$ 350,170	<b>\$ 350,170</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 97,800</b>
1.1	Site Establishment	1	item	\$ 8,000.00	\$ 8,000	
1.2	Site Management & supervision including QA	8	wks	\$ 850.00	\$ 6,800	
1.3	Provision for traffic	8	wks	\$ 6,000.00	\$ 48,000	
1.4	Diversion Works including: setup of bypass lines and pump system, installation of temporary 150dia PVC pipes and installation of bund walls at extent culvert works	1	item	\$ 35,000.00	\$ 35,000	
<b>2</b>	<b>DEMOLITION</b>					<b>\$ 36,750</b>
2.1	Trees	1	Item	\$ 2,000	\$ 2,000	
2.2	Fence removal	1	Item	\$ 1,000	\$ 1,000	
2.3	Excavation and removal of existing culvert	1	Item	\$ 33,750	\$ 33,750	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 35,100</b>
2.1	Stripping topsoil (100mm)	450	m <sup>2</sup>	\$ 6.00	\$ 2,700	
2.2	Excavation and Removal	1,080	m <sup>3</sup>	\$ 30.00	\$ 32,400	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 161,120</b>
3.1	1950dia. RCP pipe, supply and lay	45	Lm	\$ 1,800.00	\$ 81,000	
3.2	150mm thick Class 2 CR under pipe	135	m <sup>2</sup>	\$ 12.00	\$ 1,620	
3.3	Backfill and compact FCR to trench	45	Lm	\$ 500.00	\$ 22,500	
3.4	Humes precast endwall or equivalent	2	No.	\$ 20,000.00	\$ 40,000	
3.5	Rock beaching at ends of culvert	160	m <sup>2</sup>	\$ 100.00	\$ 16,000	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ 19,400</b>
4.1	Safety works under power lines (spotter)	2	weeks	\$ 3,400.00	\$ 6,800	
4.2	Installation of crash barrier	70	Lm	\$ 180.00	\$ 12,600	
	<b>TOTAL A - C</b>				\$ 410,522	<b>\$ 410,522</b>
<b>D</b>	<b>Contingency</b>					
	<b>Contingency (20% of C)</b>				20%	<b>\$ 82,104</b>
<b>E</b>	<b>PROJECT BUDGET</b>					
	<b>Total Estimate</b>					<b>\$ 492,626</b>

**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

- 2 Based on nominal rates and 30% of total drainage line

**Demolition**

- 3 We have only allowed to demolish the items shown above

**Construction**

- 4 Construction to take place aside existing road prior to road extension  
5 Installation of culverts to be done prior or during road fill works  
6 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-007

Culvert Length, m: 56

BR-54-01, Partial Cost

PM %: 11.54%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 21,523</b>		<b>\$ 384</b>
	<b>Project Management</b>		3.00%	3.46%	\$ 12,914		\$ 230.61	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.31%	\$ 8,609		\$ 153.74	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 43,047</b>		<b>\$ 769</b>
	Traffic Investigations		0.85%	0.98%	\$ 3,659		\$ 65.34	
	Cadastral and Engineering Survey		1.20%	1.38%	\$ 5,166		\$ 92.24	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.38%	\$ 5,166		\$ 92.24	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	4.90%	\$ 18,295		\$ 326.69	
	Construction Management		2.50%	2.89%	\$ 10,762		\$ 192.17	
<b>C</b>	<b>Construction including Final Design</b>					<b>\$ 373,021</b>		<b>\$ 7,133</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 254</b>
1.1	Site Establishment	1	item		\$ 1,700.00	\$ 1,700	\$ 30.36	
1.2	Site Management & supervision including QA	3	wks		\$ 840.00	\$ 2,520	\$ 45.00	
1.3	Provision for traffic	3	wks		\$ 3,340.00	\$ 10,020	\$ 178.93	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 69,754</b>		<b>\$ 1,761</b>
2.1	Stripping topsoil (100mm)	286	m <sup>2</sup>		\$ 6.00	\$ 1,714	\$ 60.00	
2.2	Excavation and Removal	2,268	m <sup>3</sup>		\$ 30.00	\$ 68,040	\$ 1,701.00	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 289,027</b>		<b>\$ 5,118</b>
3.1	2x2100dia. RCP pipe, supply and lay	112	Lm		\$ 2,050.00	\$ 229,600	\$ 4,100.00	
3.2	150mm thick Class 2 CR under pipe	286	m <sup>2</sup>		\$ 12.00	\$ 3,427	\$ 18.00	
3.3	Backfill and compact FCR to trench	112	Lm		\$ 500.00	\$ 56,000	\$ 1,000.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>					<b>\$ 437,591</b>	<b>\$ 8,286</b>	<b>\$ 8,286</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 87,518	20%	\$ 1,657
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 525,109</b>		<b>\$ 9,944</b>

Notes:

- Services**
- 1 Service relocation / alterations have not been allowed for in the estimate
- Preliminaries**
- 2 Based on nominal rates and 30% of total drainage line
- Demolition**
- 3 We have only allowed to demolish the items shown above
- Construction**
- 4 No allowance has been included for end walls and pits
  - 5 No allowance has been included for safety fencing
  - 6 Construction to take place aside existing road prior to road extension
  - 7 Installation of culverts to be done prior or during road fill works
  - 8 Regrading of creek not included

AUTHOR: Kim Dinh  
Date: 24/08/2015

REVIEWER: Rob Henry  
Date: 24/08/2015



## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-010

Culvert Length, m: 35

BR-54-04, Partial Cost

PM %: 12.55%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 12,627</b>		<b>\$ 361</b>
	<b>Project Management</b>		3.00%	3.77%	\$ 7,576		\$ 216.46	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.51%	\$ 5,051		\$ 144.31	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 25,254</b>		<b>\$ 722</b>
	Traffic Investigations		0.85%	1.07%	\$ 2,147		\$ 61.33	
	Cadastral and Engineering Survey		1.20%	1.51%	\$ 3,030		\$ 86.58	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.51%	\$ 3,030		\$ 86.58	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.33%	\$ 10,733		\$ 306.65	
	Construction Management		2.50%	3.14%	\$ 6,313		\$ 180.38	
<b>C</b>	<b>Construction including Final Design</b>					<b>\$ 201,224</b>		<b>\$ 5,638</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 407</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 48.57	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 72.00	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 286.29	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 27,258</b>		<b>\$ 714</b>
2.1	Stripping topsoil (100mm)	186	m <sup>2</sup>	\$ 6.00	\$ 1,113		\$ 60.00	
2.2	Excavation and Removal	872	m <sup>3</sup>	\$ 30.00	\$ 26,145		\$ 653.63	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 159,726</b>		<b>\$ 4,518</b>
3.1	3x1350dia. RCP pipe, supply and lay	105	Lm	\$ 1,000.00	\$ 105,000		\$ 3,000.00	
3.2	150mm thick Class 2 CR under pipe	186	m <sup>2</sup>	\$ 12.00	\$ 2,226		\$ 18.00	
3.3	Backfill and compact FCR to trench	105	Lm	\$ 500.00	\$ 52,500		\$ 1,500.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>					<b>\$ 239,104</b>	<b>\$ 6,721</b>	<b>\$ 6,721</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 47,821	20%	\$ 1,344
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 286,925</b>		<b>\$ 8,065</b>

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-011

Culvert Length, m: 49

BR-54-05, Partial Cost

PM %: 12.81%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 15,792</b>		<b>322</b>
	<b>Project Management</b>		3.00%	3.84%	\$ 9,475		\$ 193.37	
	reporting and commissioning							
	development of tender documents and management							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.56%	\$ 6,317		\$ 128.92	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 31,584</b>		<b>645</b>
	Traffic Investigations		0.85%	1.09%	\$ 2,685		\$ 54.79	
	Cadastral and Engineering Survey		1.20%	1.54%	\$ 3,790		\$ 77.35	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.54%	\$ 3,790		\$ 77.35	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.44%	\$ 13,423		\$ 273.94	
	Construction Management		2.50%	3.20%	\$ 7,896		\$ 161.14	
<b>C</b>	<b>Construction including Final Design</b>				\$ 246,559	<b>\$ 246,559</b>		<b>5,179</b>
<b>1</b>	<b>PRELIMINARIES</b>					\$ 14,240	\$ -	\$ 291
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 34.69	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 51.43	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 204.49	
<b>2</b>	<b>EARTHWORKS</b>					\$ 31,576		\$ 821
2.1	Stripping topsoil (100mm)	191	m <sup>2</sup>	\$ 6.00	\$ 1,147		\$ 60.00	
2.2	Excavation and Removal	1,014	m <sup>3</sup>	\$ 30.00	\$ 30,429		\$ 760.73	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					\$ 200,743		\$ 4,068
3.1	3x900dia. RCP pipe, supply and lay	147	Lm	\$ 850.00	\$ 124,950		\$ 2,550.00	
3.2	150mm thick Class 2 CR under pipe	191	m <sup>2</sup>	\$ 12.00	\$ 2,293		\$ 18.00	
3.3	Backfill and compact FCR to trench	147	Lm	\$ 500.00	\$ 73,500		\$ 1,500.00	
<b>4</b>	<b>MISCELLANEOUS</b>					\$ -		
	<b>TOTAL A - C</b>				\$ 293,935	<b>\$ 293,935</b>	\$ 6,146	<b>\$ 6,146</b>
<b>D</b>	<b>Contingency</b>							
	<b>Contingency (20% of C)</b>				20%	\$ 58,787	20%	\$ 1,229
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					\$ 352,722		\$ 7,375

**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate
- Preliminaries**
- 2 Based on nominal rates and 30% of total drainage line
- Demolition**
- 3 We have only allowed to demolish the items shown above
- Construction**
- 4 No allowance has been included for end walls and pits
  - 5 No allowance has been included for safety fencing
  - 6 Construction to take place aside existing road prior to road extension
  - 7 Installation of culverts to be done prior or during road fill works
  - 8 Regrading of creek not included

AUTHOR: Kim Dinh  
Date: 24/08/2015

REVIEWER: Rob Henry  
Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-013

Culvert Length, m: 40

BR-54-07, Partial Cost

PM %: 12.23%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER		
							RATE	TOTAL	
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 14,716</b>		<b>\$ 368</b>	
	<b>Project Management</b>		3.00%	3.67%	\$ 8,830		\$ 220.74		
	reporting and commissioning								
	of tender documents and management of contracts								
	liaison, environmental issues, traffic issues etc								
	Records management								
	<b>Program Administration</b>		2.00%	2.45%	\$ 5,886		\$ 147.16		
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 29,432</b>		<b>\$ 736</b>	
	Traffic Investigations		0.85%	1.04%	\$ 2,502		\$ 62.54		
	Cadastral and Engineering Survey		1.20%	1.47%	\$ 3,532		\$ 88.30		
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.47%	\$ 3,532		\$ 88.30		
	Environmental Investigations			0.00%	\$ -		\$ -		
	Landscape Design			0.00%	\$ -		\$ -		
	Preliminary and Final Design		4.25%	5.20%	\$ 12,509		\$ 312.72		
	Construction Management		2.50%	3.06%	\$ 7,358		\$ 183.95		
<b>C</b>	<b>Construction including Final Design</b>				<b>\$ 240,656</b>	<b>\$ 240,656</b>		<b>\$ 5,990</b>	
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 356</b>	
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 42.50		
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 63.00		
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 250.50		
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 31,536</b>		<b>\$ 816</b>	
2.1	Stripping topsoil (100mm)	216	m <sup>2</sup>	\$ 6.00	\$ 1,296		\$ 60.00		
2.2	Excavation and Removal	1,008	m <sup>3</sup>	\$ 30.00	\$ 30,240		\$ 756.00		
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 194,880</b>		<b>\$ 4,818</b>	
3.1	3x1500dia. RCP pipe, supply and lay	120	Lm	\$ 1,100.00	\$ 132,000		\$ 3,300.00		
3.2	150mm thick Class 2 CR under pipe	240	m <sup>2</sup>	\$ 12.00	\$ 2,880		\$ 18.00		
3.3	Backfill and compact FCR to trench	120	Lm	\$ 500.00	\$ 60,000		\$ 1,500.00		
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>			
<b>TOTAL A - C</b>						<b>\$ 284,804</b>	<b>\$ 284,804</b>	<b>\$ 7,094</b>	<b>\$ 7,094</b>
<b>D</b>	<b>Contingency</b>								
	Contingency (20% of C)				20%	\$ 56,961	20%	\$ 1,419	
<b>E</b>	<b>PROJECT BUDGET</b>								
	<b>Total Estimate</b>					<b>\$ 341,765</b>		<b>\$ 8,512</b>	

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-017

Culvert Length, m: 48

BR-54-11, Partial Cost

PM %: 13.28%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 20,591</b>		<b>\$ 429</b>
	<b>Project Management</b>		3.00%	3.98%	\$ 12,354		\$ 257.38	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.66%	\$ 8,236		\$ 171.59	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 41,182</b>		<b>\$ 858</b>
	Traffic Investigations		0.85%	1.13%	\$ 3,500		\$ 72.93	
	Cadastral and Engineering Survey		1.20%	1.59%	\$ 4,942		\$ 102.95	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.59%	\$ 4,942		\$ 102.95	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.64%	\$ 17,502		\$ 364.63	
	Construction Management		2.50%	3.32%	\$ 10,295		\$ 214.49	
<b>C</b>	<b>Construction including Final Design</b>				<b>\$ 310,102</b>	<b>\$ 310,102</b>		<b>\$ 6,641</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 297</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 35.42	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 52.50	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 208.75	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 48,125</b>		<b>\$ 1,226</b>
2.1	Stripping topsoil (100mm)	245	m <sup>2</sup>	\$ 6.00	\$ 1,469		\$ 60.00	
2.2	Excavation and Removal	1,555	m <sup>3</sup>	\$ 30.00	\$ 46,656		\$ 1,166.40	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 247,738</b>		<b>\$ 5,118</b>
3.1	2x2100dia. RCP pipe, supply and lay	96	Lm	\$ 2,050.00	\$ 196,800		\$ 4,100.00	
3.2	150mm thick Class 2 CR under pipe	245	m <sup>2</sup>	\$ 12.00	\$ 2,938		\$ 18.00	
3.3	Backfill and compact FCR to trench	96	Lm	\$ 500.00	\$ 48,000		\$ 1,000.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>				<b>\$ 371,875</b>	<b>\$ 371,875</b>	<b>\$ 7,928</b>	<b>\$ 7,928</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 74,375	20%	\$ 1,586
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 446,250</b>		<b>\$ 9,514</b>

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-017

Culvert Length, m: 43

BR-54-14, Partial Cost

PM %: 13.28%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 12,647</b>		<b>\$ 294</b>
	<b>Project Management</b>		3.00%	3.98%	\$ 7,588		\$ 176.47	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.66%	\$ 5,059		\$ 117.64	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 25,293</b>		<b>\$ 588</b>
	Traffic Investigations		0.85%	1.13%	\$ 2,150		\$ 50.00	
	Cadastral and Engineering Survey		1.20%	1.59%	\$ 3,035		\$ 70.59	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.59%	\$ 3,035		\$ 70.59	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.64%	\$ 10,750		\$ 249.99	
	Construction Management		2.50%	3.32%	\$ 6,323		\$ 147.05	
<b>C</b>	<b>Construction including Final Design</b>					<b>\$ 190,463</b>		<b>\$ 4,499</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 331</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 39.53	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 58.60	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 233.02	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 36,610</b>		<b>\$ 950</b>
2.1	Stripping topsoil (100mm)	168	m <sup>2</sup>	\$ 6.00	\$ 1,006		\$ 60.00	
2.2	Excavation and Removal	1,187	m <sup>3</sup>	\$ 30.00	\$ 35,604		\$ 890.10	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 139,612</b>		<b>\$ 3,218</b>
3.1	2x1500dia. RCP pipe, supply and lay	86	Lm	\$ 1,100.00	\$ 94,600		\$ 2,200.00	
3.2	150mm thick Class 2 CR under pipe	168	m <sup>2</sup>	\$ 12.00	\$ 2,012		\$ 18.00	
3.3	Backfill and compact FCR to trench	86	Lm	\$ 500.00	\$ 43,000		\$ 1,000.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>					<b>\$ 228,403</b>	<b>\$ 5,382</b>	<b>\$ 5,382</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 45,681	20%	\$ 1,076
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 274,083</b>		<b>\$ 6,458</b>

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-027

Culvert Length, m: 52

BR-54-15, Partial Cost

PM %: 13.35%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 7,748</b>		<b>\$ 149</b>
	<b>Project Management</b>		3.00%	4.01%	\$ 4,649		\$ 89.40	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.67%	\$ 3,099		\$ 59.60	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 15,496</b>		<b>\$ 298</b>
	Traffic Investigations		0.85%	1.13%	\$ 1,317		\$ 25.33	
	Cadastral and Engineering Survey		1.20%	1.60%	\$ 1,860		\$ 35.76	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.60%	\$ 1,860		\$ 35.76	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.67%	\$ 6,586		\$ 126.65	
	Construction Management		2.50%	3.34%	\$ 3,874		\$ 74.50	
<b>C</b>	<b>Construction including Final Design</b>				<b>\$ 116,077</b>	<b>\$ 116,077</b>		<b>\$ 2,451</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>	<b>\$ -</b>	<b>\$ 274</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 32.69	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 48.46	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 192.69	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 30,514</b>	<b>\$ -</b>	<b>\$ 809</b>
2.1	Stripping topsoil (100mm)	94	m <sup>2</sup>	\$ 6.00	\$ 562		\$ 60.00	
2.2	Excavation and Removal	998	m <sup>3</sup>	\$ 30.00	\$ 29,952		\$ 748.80	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 71,323</b>	<b>\$ -</b>	<b>\$ 1,368</b>
3.1	900dia. RCP pipe, supply and lay	52	Lm	\$ 850.00	\$ 44,200		\$ 850.00	
3.2	150mm thick Class 2 CR under pipe	94	m <sup>2</sup>	\$ 12.00	\$ 1,123		\$ 18.00	
3.3	Backfill and compact FCR to trench	52	Lm	\$ 500.00	\$ 26,000		\$ 500.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
	<b>TOTAL A - C</b>				<b>\$ 139,321</b>	<b>\$ 139,321</b>	<b>\$ 2,898</b>	<b>\$ 2,898</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (20% of C)				20%	\$ 27,864	20%	\$ 580
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 167,185</b>		<b>\$ 3,477</b>

**Notes: Services**

1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

2 Based on nominal rates and 30% of total drainage line

**Demolition**

3 We have only allowed to demolish the items shown above

**Construction**

4 No allowance has been included for end walls and pits

5 No allowance has been included for safety fencing

6 Construction to take place aside existing road prior to road extension

7 Installation of culverts to be done prior or during road fill works

8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

24 August 2015

CG130898

Version 8

MW-024

Culvert Length, m: 44

BR-54-16, Partial Cost

PM %: 13.28%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL	METER	
							RATE	TOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 18,954</b>		<b>\$ 431</b>
	<b>Project Management</b>		3.00%	3.98%	\$ 11,372		\$ 258.46	
	reporting and commissioning							
	of tender documents and management of contracts							
	liaison, environmental issues, traffic issues etc							
	Records management							
	<b>Program Administration</b>		2.00%	2.66%	\$ 7,581		\$ 172.31	
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 37,907</b>		<b>\$ 862</b>
	Traffic Investigations		0.85%	1.13%	\$ 3,222		\$ 73.23	
	Cadastral and Engineering Survey		1.20%	1.59%	\$ 4,549		\$ 103.38	
	Geotechnical investigations Pavement Investigations and Design		1.20%	1.59%	\$ 4,549		\$ 103.38	
	Environmental Investigations			0.00%	\$ -		\$ -	
	Landscape Design			0.00%	\$ -		\$ -	
	Preliminary and Final Design		4.25%	5.64%	\$ 16,111		\$ 366.15	
	Construction Management		2.50%	3.32%	\$ 9,477		\$ 215.38	
<b>C</b>	<b>Construction including Final Design</b>					<b>\$ 285,447</b>		<b>\$ 6,571</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 14,240</b>		<b>\$ 324</b>
1.1	Site Establishment	1	item	\$ 1,700.00	\$ 1,700		\$ 38.64	
1.2	Site Management & supervision including QA	3	wks	\$ 840.00	\$ 2,520		\$ 57.27	
1.3	Provision for traffic	3	wks	\$ 3,340.00	\$ 10,020		\$ 227.73	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 44,114</b>		<b>\$ 1,129</b>
2.1	Stripping topsoil (100mm)	224	m <sup>2</sup>	\$ 6.00	\$ 1,346		\$ 60.00	
2.2	Excavation and Removal	1,426	m <sup>3</sup>	\$ 30.00	\$ 42,768		\$ 1,069.20	
<b>3</b>	<b>DRAINAGE, PIPES AND CULVERTS</b>					<b>\$ 227,093</b>		<b>\$ 5,118</b>
3.1	2x2100dia. RCP pipe, supply and lay	88	Lm	\$ 2,050.00	\$ 180,400		\$ 4,100.00	
3.2	150mm thick Class 2 CR under pipe	224	m <sup>2</sup>	\$ 12.00	\$ 2,693		\$ 18.00	
3.3	Backfill and compact FCR to trench	88	Lm	\$ 500.00	\$ 44,000		\$ 1,000.00	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>		
	<b>TOTAL A - C</b>					<b>\$ 342,308</b>	<b>\$ 7,863</b>	<b>\$ 7,863</b>
<b>D</b>	<b>Contingency</b>							
	Contingency (30% of C)				30%	\$ 102,692	30%	\$ 2,359
<b>E</b>	<b>PROJECT BUDGET</b>							
	<b>Total Estimate</b>					<b>\$ 445,001</b>		<b>\$ 10,222</b>

**Notes:** There was no design currently for this structure. It has been based on a culvert with a similar design flow and an adopted length as it crossing an identical road. (30% used as a contingency for this culvert)

**Services**

- 1 Service relocation / alterations have not been allowed for in the estimate

**Preliminaries**

- 2 Based on nominal rates and 30% of total drainage line

**Demolition**

- 3 We have only allowed to demolish the items shown above

**Construction**

- 4 No allowance has been included for end walls and pits
- 5 No allowance has been included for safety fencing
- 6 Construction to take place aside existing road prior to road extension
- 7 Installation of culverts to be done prior or during road fill works
- 8 Regrading of creek not included

AUTHOR: Kim Dinh

Date: 24/08/2015

REVIEWER: Rob Henry

Date: 24/08/2015

## 7.8 Interim desalination crossing costings



**PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS**
**CG130898**
**Protective Bridging structure**
**Hardies Rd**
**Intrim road pavement width Length, m: 10**
**BR-53-05**
**PM %: 13.41%**

ITEM	DESCRIPTION	QUANTITY	UNIT
<b>A</b>	<b>Project and Program Management</b>		
	<b>Project Management</b>		3.00%
	reporting and commissioning		
	of tender documents and management of contracts		
	liaison, environmental issues, traffic issues etc		
	Records management		
	<b>Program Administration</b>		2.00%
			5.00%
<b>B</b>	<b>Design and Investigation</b>		
	Traffic Investigations		0.85%
	Cadastral and Engineering Survey		1.20%
	and Design		1.20%
	Environmental Investigations		
	Landscape Design		
	Preliminary and Final Design		4.25%
	Construction Management		2.50%
			10.00%
<b>C</b>	<b>Construction including Final Design</b>		
<b>1</b>	<b>PRELIMINARIES</b>		
1.1	Site Establishment	1	item
1.2	Site Management & supervision including QA	1	item
1.3	Provision for traffic	1	item
<b>2</b>	<b>EARTHWORKS</b>		
2.1	Excavation of slab	23	m <sup>2</sup>
2.2	Excavation Service duct	6	Lm
<b>3</b>	<b>ROAD STRUCTURE</b>		
3.1	Bore 600mm dia 3.5m depth pair Concrete and cage reo at 2m cts	12	item
3.2	Reinforced Edge beam	20	lm
3.3	250mm Reinforced conc slab	50	m <sup>2</sup>
3.4	Kerb upstands	20	lm
3.5	2m edge ramps in the pavement each side of slab	40	m <sup>2</sup>
3.6	40mm Asphalt pavement	50	m <sup>2</sup>
<b>4</b>	<b>SERVICE DUCTS</b>		
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm
4.2	900mm*300mm Conc lids	10	Lm
<b>4</b>	<b>MISCELLANEOUS</b>		
	<b>TOTAL A - C</b>		
<b>D</b>	<b>Contingency</b>		
	<b>Contingency (20% of C)</b>		

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E	PROJECT BUDGET		
	<b>Total Estimate</b>		

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**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpats
- 4 Allowed ramping with conc and paving each side of the road slab

*AUTHOR: Harrendran Mohan*

*Date: 12/09/2014*

*REVIEWER: Rob Henry*

*Date: 12/09/2014*

**12 September 2014  
Version 1**

Meter

Verge 1  
lane 3.5  
lane 3.5  
Sholder 1  
Verge 1  
10

RATE	AMOUNT	SUBTOTAL
		<b>\$ 6,713</b>
4.02%	\$ 4,028	
2.68%	\$ 2,685	

		<b>\$ 13,426</b>
1.14%	\$ 1,141	
1.61%	\$ 1,611	
1.61%	\$ 1,611	
0.00%	\$ -	
0.00%	\$ -	
5.70%	\$ 5,706	
3.35%	\$ 3,357	

	\$ 100,123	<b>\$ 100,123</b>
		\$ 43,500
\$ 6,000.00	\$ 6,000	
\$ 2,500.00	\$ 2,500	
\$ 35,000.00	\$ 35,000	
		\$ 1,463
\$ 45.00	\$ 1,013	
\$ 45.00	\$ 450	
		\$ 39,160
\$ 1,350.00	\$ 16,200	
\$ 100.00	\$ 2,000	
\$ 220.00	\$ 11,000	
\$ 75.00	\$ 1,500	
\$ 174.00	\$ 6,960	
\$ 30.00	\$ 1,500	
		\$ 16,000
\$ 1,350.00	\$ 13,500	
\$ 250.00	\$ 2,500	
		\$ -

	\$ 120,262	<b>\$ 120,262</b>
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	20%	\$ 24,052
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		\$ 144,315

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**PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS**  
CG130898

12 September 2014  
Version 1

Protective Bridging structure

Hardies Rd

road pavement width Length, m: 40

BR-53-05

PM %: 13.41%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 14,093</b>
	<b>Project Management</b>			3.00%	4.02%	\$ 8,456
	reporting and commissioning					
	of tender documents and management of contracts					
	liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>			2.00%	2.68%	\$ 5,637
				5.00%		
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 28,186</b>
	Traffic Investigations			0.85%	1.14%	\$ 2,396
	Cadastral and Engineering Survey			1.20%	1.61%	\$ 3,382
	and Design			1.20%	1.61%	\$ 3,382
	Environmental Investigations				0.00%	\$ -
	Landscape Design				0.00%	\$ -
	Preliminary and Final Design			4.25%	5.70%	\$ 11,979
	Construction Management			2.50%	3.35%	\$ 7,047
				10.00%		
<b>C</b>	<b>Construction including Final Design</b>				\$ 210,190	<b>\$ 210,190</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 43,500</b>
1.1	Site Establishment	1	item	\$ 6,000.00	\$ 6,000	
1.2	Site Management & supervision including QA	1	item	\$ 2,500.00	\$ 2,500	
1.3	Provision for traffic	1	item	\$ 35,000.00	\$ 35,000	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 4,500</b>
2.1	Excavation of slab	90	m <sup>2</sup>	\$ 45.00	\$ 4,050	
2.2	Excavation Service duct	6	Lm	\$ 45.00	\$ 450	
<b>3</b>	<b>ROAD STRUCTURE</b>					<b>\$ 146,190</b>
3.1	Bore 600mm dia 3.5m depth pair Concrete and cage reo at 2m cts	40	item	\$ 1,350.00	\$ 54,000	
3.2	Reinforced Edge beam	82	lm	\$ 100.00	\$ 8,200	
3.3	250mm Reinforced conc slab	200	m <sup>2</sup>	\$ 220.00	\$ 44,000	
3.4	Kerb upstands	82	lm	\$ 75.00	\$ 6,150	
3.5	2m edge ramps in the pavement each side of slab	160	m <sup>2</sup>	\$ 174.00	\$ 27,840	
3.6	40mm Asphalt pavement	200	m <sup>2</sup>	\$ 30.00	\$ 6,000	
<b>4</b>	<b>SERVICE DUCTS</b>					<b>\$ 16,000</b>
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm	\$ 1,350.00	\$ 13,500	
4.2	900mm*300mm Conc lids	10	Lm	\$ 250.00	\$ 2,500	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>
	<b>TOTAL A - C</b>				\$ 252,470	<b>\$ 252,470</b>
<b>D</b>	<b>Contingency</b>					
	<b>Contingency (20% of C)</b>				20%	<b>\$ 50,494</b>
<b>E</b>	<b>PROJECT BUDGET</b>					
	<b>Total Estimate</b>					<b>\$ 302,964</b>

**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpats
- 4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan

Date: 12/09/2014

REVIEWER: Rob Henry

Date: 12/09/2014

## PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS

12 September 2014

CG130898

Version 1

Protective Bridging structure

Bell Rd

road pavement width Length, m: 41

BR-53-06

PM %: 13.41%

ITEM	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT	SUBTOTAL
<b>A</b>	<b>Project and Program Management</b>					<b>\$ 14,231</b>
	<b>Project Management</b>			3.00%	4.02%	\$ 8,538
	reporting and commissioning					
	of tender documents and management of contracts					
	liaison, environmental issues, traffic issues etc					
	Records management					
	<b>Program Administration</b>			2.00%	2.68%	\$ 5,692
				5.00%		
<b>B</b>	<b>Design and Investigation</b>					<b>\$ 28,461</b>
	Traffic Investigations			0.85%	1.14%	\$ 2,419
	Cadastral and Engineering Survey			1.20%	1.61%	\$ 3,415
	Geotechnical investigations Pavement Investigations and Design			1.20%	1.61%	\$ 3,415
	Environmental Investigations				0.00%	\$ -
	Landscape Design				0.00%	\$ -
	Preliminary and Final Design			4.25%	5.70%	\$ 12,096
	Construction Management			2.50%	3.35%	\$ 7,115
				10.00%		
<b>C</b>	<b>Construction including Final Design</b>					<b>\$ 212,237</b>
<b>1</b>	<b>PRELIMINARIES</b>					<b>\$ 43,500</b>
1.1	Site Establishment	1	item	\$ 6,000.00	\$ 6,000	
1.2	Site Management & supervision including QA	1	item	\$ 2,500.00	\$ 2,500	
1.3	Provision for traffic	1	item	\$ 35,000.00	\$ 35,000	
<b>2</b>	<b>EARTHWORKS</b>					<b>\$ 4,601</b>
2.1	Excavation of slab	92	m <sup>2</sup>	\$ 45.00	\$ 4,151	
2.2	Excavation Service duct	6	Lm	\$ 45.00	\$ 450	
<b>3</b>	<b>ROAD STRUCTURE</b>					<b>\$ 148,136</b>
3.1	Bore 600mmdia 3.5m depth pair Concrete and cage reo at 2m cts	40	item	\$ 1,350.00	\$ 54,000	
3.2	Reinforced Edge beam	82	m <sup>2</sup>	\$ 100.00	\$ 8,200	
3.3	250mm Reinforced conc slab	205	m <sup>2</sup>	\$ 220.00	\$ 45,100	
3.4	Kerb upstands	82	lm	\$ 75.00	\$ 6,150	
3.5	2m edge ramps in the pavement each side of slab	164	m <sup>2</sup>	\$ 174.00	\$ 28,536	
3.6	40mm Asphalt pavement	205	m <sup>2</sup>	\$ 30.00	\$ 6,150	
<b>4</b>	<b>SERVICE DUCTS</b>					<b>\$ 16,000</b>
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm	\$ 1,350.00	\$ 13,500	
4.2	900mm*300mm Conc lids	10	Lm	\$ 250.00	\$ 2,500	
<b>4</b>	<b>MISCELLANEOUS</b>					<b>\$ -</b>
	<b>TOTAL A - C</b>				\$ 254,929	<b>\$ 254,929</b>
<b>D</b>	<b>Contingency</b>					
	Contingency (20% of C)				20%	\$ 50,986
<b>E</b>	<b>PROJECT BUDGET</b>					
	<b>Total Estimate</b>					<b>\$ 305,915</b>

**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpaths
- 4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan

Date: 12/09/2014

REVIEWER: Rob Henry

Date: 12/09/2014

**PRELIMINARY ESTIMATE OF DEVELOPMENT COSTS**
**CG130898**
**Protective Bridging structure**
**Bell Rd**
**Intrim road pavement width Length, m: 10**
**BR-53-06**
**PM %: 13.41%**

ITEM	DESCRIPTION	QUANTITY	UNIT
<b>A</b>	<b>Project and Program Management</b>		
	<b>Project Management</b>		3.00%
	reporting and commissioning		
	of tender documents and management of contracts		
	liaison, environmental issues, traffic issues etc		
	Records management		
	<b>Program Administration</b>		2.00%
			5.00%
<b>B</b>	<b>Design and Investigation</b>		
	Traffic Investigations		0.85%
	Cadastral and Engineering Survey		1.20%
	and Design		1.20%
	Environmental Investigations		
	Landscape Design		
	Preliminary and Final Design		4.25%
	Construction Management		2.50%
			10.00%
<b>C</b>	<b>Construction including Final Design</b>		
<b>1</b>	<b>PRELIMINARIES</b>		
1.1	Site Establishment	1	item
1.2	Site Management & supervision including QA	1	item
1.3	Provision for traffic	1	item
<b>2</b>	<b>EARTHWORKS</b>		
2.1	Excavation of slab	23	m <sup>2</sup>
2.2	Excavation Service duct	6	Lm
<b>3</b>	<b>ROAD STRUCTURE</b>		
3.1	Bore 600mm dia 3.5m depth pair Concrete and cage reo at 2m cts	12	item
3.2	Reinforced Edge beam	20	m <sup>2</sup>
3.3	250mm Reinforced conc slab	50	m <sup>2</sup>
3.4	Kerb upstands	20	lm
3.5	2m edge ramps in the pavement each side of slab	40	m <sup>2</sup>
3.6	40mm Asphalt pavement	50	m <sup>2</sup>
<b>4</b>	<b>SERVICE DUCTS</b>		
4.1	900mm*300mm Conc duct on 75mm bedding	10	Lm
4.2	900mm*300mm Conc lids	10	Lm
<b>4</b>	<b>MISCELLANEOUS</b>		
	<b>TOTAL A - C</b>		
<b>D</b>	<b>Contingency</b>		
	<b>Contingency (20% of C)</b>		

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E	PROJECT BUDGET		
	<b>Total Estimate</b>		

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**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpaths
- 4 Allowed ramping with conc and paving each side of the road slab

*AUTHOR: Harrendran Mohan*

*Date: 12/09/2014*

*REVIEWER: Rob Henry*

*Date: 12/09/2014*



12 September 2014  
Version 1

RATE	AMOUNT	SUBTOTAL
		\$ 6,713
4.02%	\$ 4,028	
2.68%	\$ 2,685	

	Meter	
Verge		1
lane		3.5
lane		3.5
Sholder		1
Verge		1
		10

		\$ 13,426
1.14%	\$ 1,141	
1.61%	\$ 1,611	
1.61%	\$ 1,611	
0.00%	\$ -	
0.00%	\$ -	
5.70%	\$ 5,706	
3.35%	\$ 3,357	

	\$ 100,123	\$ 100,123
		\$ 43,500
\$ 6,000.00	\$ 6,000	
\$ 2,500.00	\$ 2,500	
\$ 35,000.00	\$ 35,000	
		\$ 1,463
\$ 45.00	\$ 1,013	
\$ 45.00	\$ 450	
		\$ 39,160
\$ 1,350.00	\$ 16,200	
\$ 100.00	\$ 2,000	
\$ 220.00	\$ 11,000	
\$ 75.00	\$ 1,500	
\$ 174.00	\$ 6,960	
\$ 30.00	\$ 1,500	
		\$ 16,000
\$ 1,350.00	\$ 13,500	
\$ 250.00	\$ 2,500	
		\$ -

	\$ 120,262	\$ 120,262
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	20%	\$ 24,052
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		\$ 144,315

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**Protective Bridging structure**

**SUMMARY SHEET**

CG130898

Clyde PSP

12 September 2014

Version 1

ITEM	DESCRIPTION	Interim		Interim	
		BR-53-06	BR-53-06	BR-53-05	BR-53-05
		Bell Rd	Bell Rd	Hardies Rd	Hardies Rd
		Total Cost	Total Cost	Total Cost	Total Cost
A	Project and Program Management	\$ 6,713	\$ 14,231	\$ 6,713	\$ 14,093
B	Design and Investigation	\$ 13,426	\$ 28,461	\$ 13,426	\$ 28,186
C	Construction including Final Design	\$ 100,123	\$ 212,237	\$ 100,123	\$ 210,190
<b>TOTAL A - C</b>		<b>\$ 120,262</b>	<b>\$ 254,929</b>	<b>\$ 120,262</b>	<b>\$ 252,470</b>
D	<b>CONTINGENCY</b>				
	Contingency	\$ 24,052	\$ 50,986	\$ 24,052	\$ 50,494
E	<b>PROJECT BUDGET</b>				
	Total Estimate	\$ 144,315	\$ 305,915	\$ 144,315	\$ 302,964

**Notes: Services**

- 1 Service relocation / alterations have not been allowed for in the estimate
- 2 no Allowance for any Demolition
- 3 no footpaths
- 4 Allowed ramping with conc and paving each side of the road slab

AUTHOR: Harrendran Mohan  
Date: 12/09/2014

REVIEWER: Rob Henry  
Date: 12/09/2014

## 7.9 Sports field detailed plans

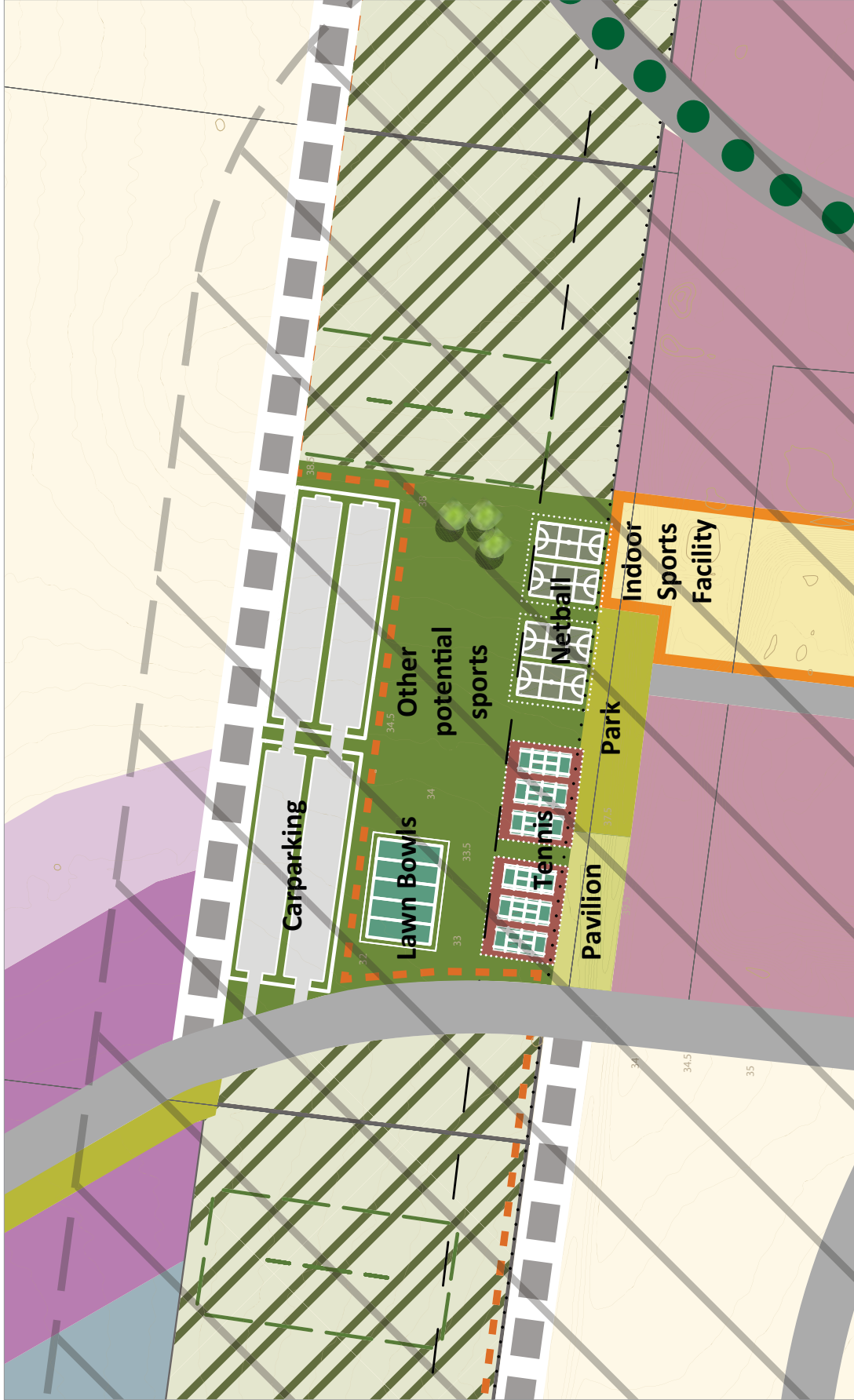


**Local Sports Field Indicative Configuration LS-53-01 - 8.91ha**  
 clyde creek precinct structure plan

Date: October 2014



- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- 0.18m Offset



- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Shared path
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- Commercial Area
- 0.5m Contours
- 0.18m Offset

Local Sports Field Indicative Configuration LS-53-02 - 4.02ha  
 clyde creek precinct structure plan  
 Date: October 2014





- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- 0.18m Offset

Local Sports Field Indicative Configuration LS-53-03 - 13.0ha  
 clyde creek precinct structure plan  
 Date: October 2014



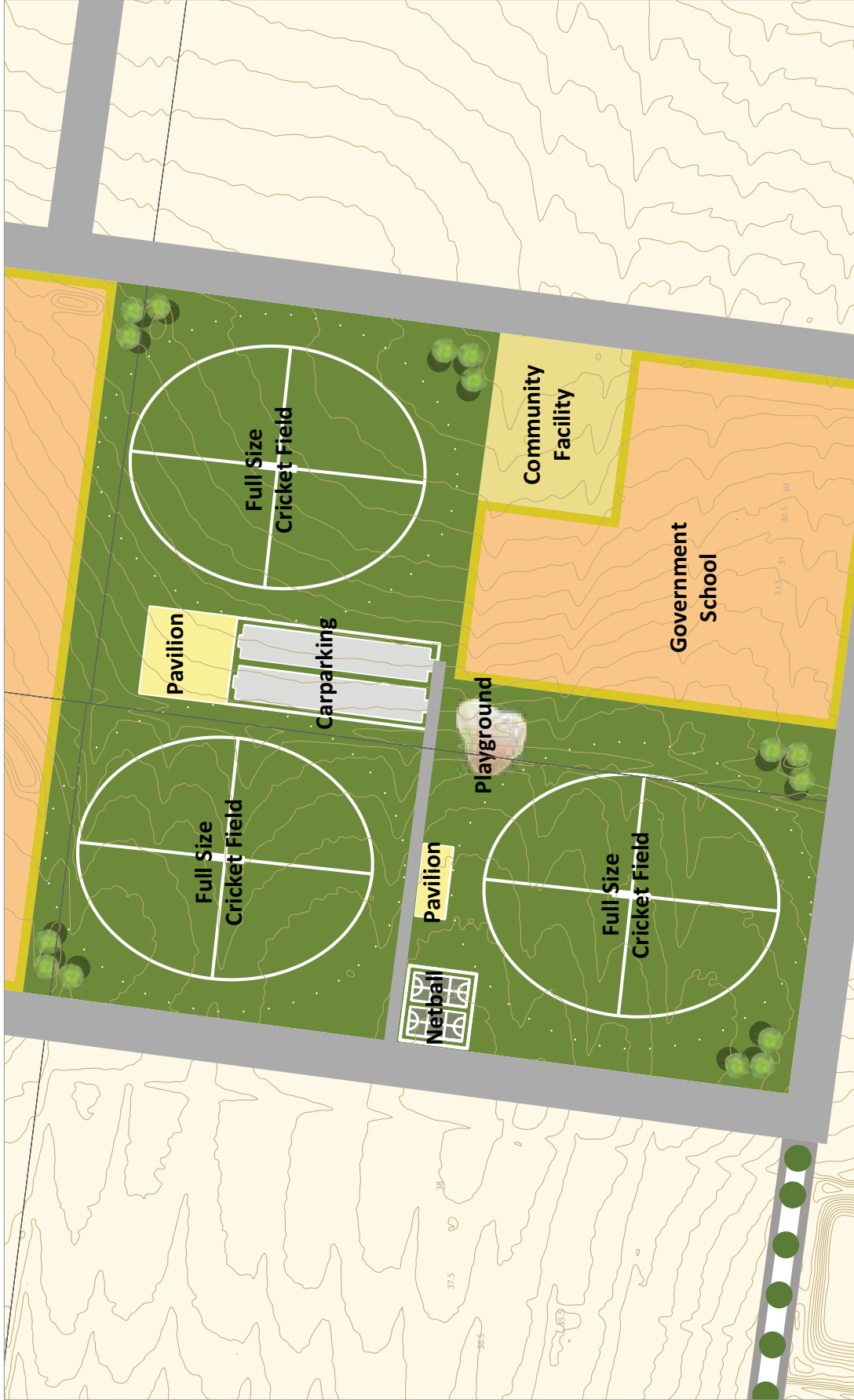


- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- 0.18m Offset

Local Sports Field Indicative Configuration LS-54-01 - 9.08ha  
 clyde creek precinct structure plan  
 Date: October 2014







- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- 0.18m Offset

Local Sports Field Indicative Configuration LS-54-02 - 13.2ha  
 clyde creek precinct structure plan  
 Date: October 2014





**Local Sports Field Indicative Configuration LS-54-03 - 14.05ha**  
 clyde creek precinct structure plan  
 Date: October 2014

- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- 0.18m Offset



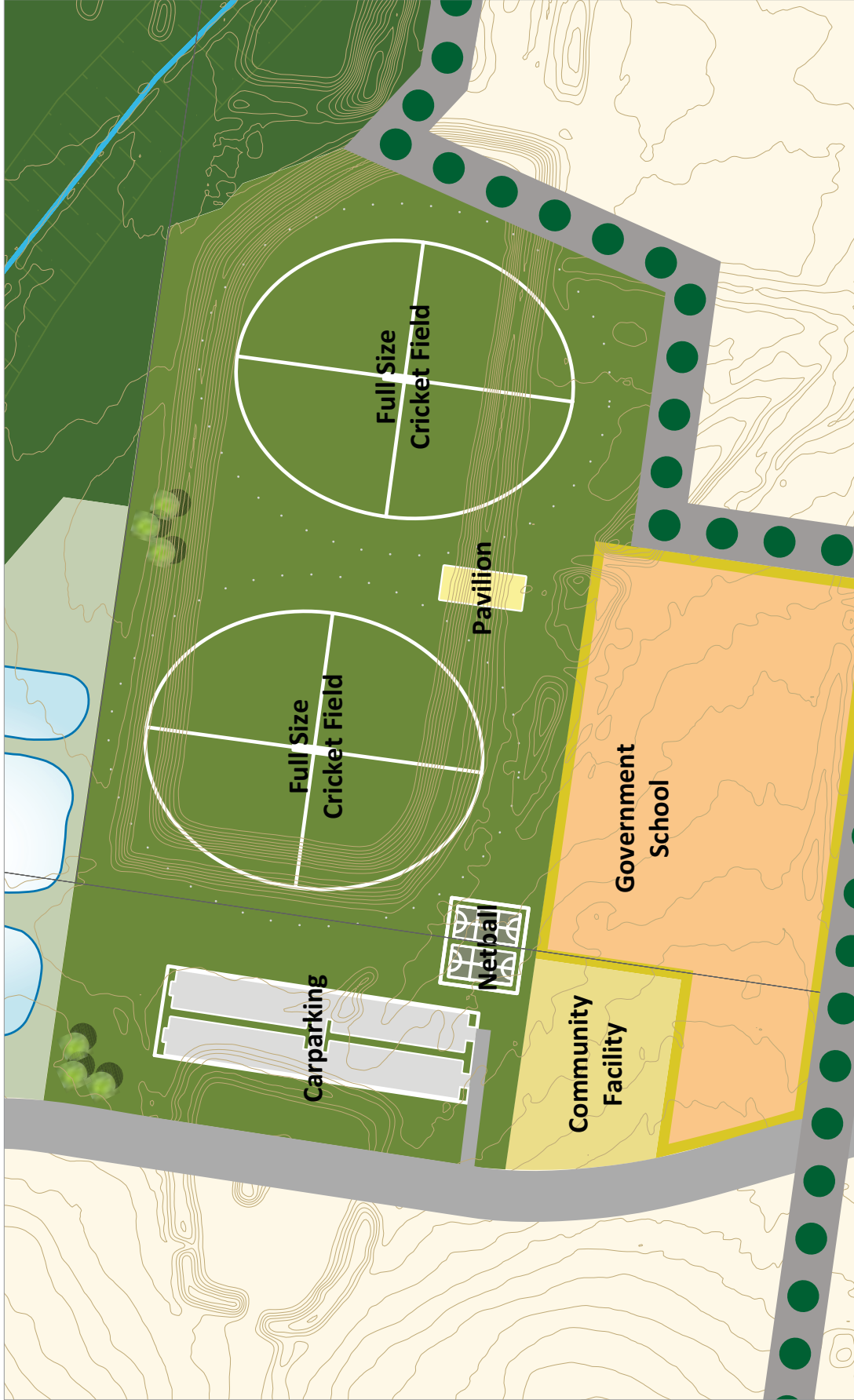
- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- Pedestrian Access
- 0.18m Offset

**Local Sports Field Indicative Configuration LS-54-04 - 8.36ha**

clyde creek precinct structure plan

Date: October 2014





- 6 Lane Arterial Road
- 4 Lane Arterial Road
- Connector Street
- Level 2 Access - Green
- Level 2 Access - Street
- High Street
- Property Boundary
- Drainage
- Local Park
- Community Facility
- Government School
- 0.5m Contours
- 0.18m Offset

Local Sports Field Indicative Configuration LS-54-05 - 10.80ha  
 clyde creek precinct structure plan  
 Date: October 2014



## 7.10 Sports field costing sheets



15 October 2014

Ref: 9838-04

Metropolitan Planning Authority  
Level 29, 35 Collins Street  
Melbourne VIC 3000

Attention: Ms. Alexandra Malishev

Dear Alexandra,

**RE: CLYDE DCP – ACTIVE RECREATION PROJECTS  
MPA REFERENCE NO: COR/13/9502**

As requested, we have prepared a cost study for the Development Contribution Plan for the above project, based on information received by us up to 15 October 2014.

Our estimate of the anticipated total cost is \$56,534,443 for a fixed price contract at July 2014 cost levels and a summary follows:

Playing Fields

AR_53_01A Thompsons Road Precinct – AOS1	\$	4,230,904
AR_53_02A Thompsons Road Precinct – AOS2	\$	3,322,104
AR_53_03A Thompsons Road Precinct – AOS3	\$	6,479,827
AR_54_01A Clyde Creek Precinct – AOS1	\$	4,252,802
AR_54_02A Clyde Creek Precinct – AOS2	\$	6,462,530
AR_54_03A Clyde Creek Precinct – AOS3	\$	5,479,052
AR_54_04A Clyde Creek Precinct – AOS4	\$	4,071,846
AR_54_05A Clyde Creek Precinct – AOS5	\$	7,290,832

Pavilions

AR_53_01B Thompsons Road Precinct – AOS1 – Pavilion	\$	1,435,896
AR_53_02B Thompsons Road Precinct – AOS2 – Pavilion	\$	1,435,896
AR_53_03B Thompsons Road Precinct – AOS3 – Pavilion	\$	2,122,313
AR_54_01B Clyde Creek Precinct – AOS1 – Pavilion	\$	1,435,896
AR_54_02B Clyde Creek Precinct – AOS2 – Pavilion	\$	3,520,440
AR_54_03B Clyde Creek Precinct – AOS3 – Pavilion	\$	2,122,313
AR_54_04B Clyde Creek Precinct – AOS4 – Pavilion	\$	1,435,896
AR_54_05B Clyde Creek Precinct – AOS5 – Pavilion	\$	1,435,896

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<b>Anticipated Total Project Cost (Excluding GST)</b> (Fixed Price Contract – July 2014)	<b>\$</b>	<b>56,534,443</b>
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Allowances for the following have been included in our estimate:

- Preliminaries and Design variable
- Cost escalation to a tender date of July 2014
- Cost escalation during construction
- Competitive tendering
- Design fees (5% as advised)
- Project management and supervision (10% as advised)
- Contingency (20% as advised)

Allowances for the following have been excluded from our estimate:

- Goods & Services Tax
- Cost escalation to tender after July 2014
- Authority contribution and headwork charges
- Adverse market conditions and rock excavation
- Abnormal ground conditions
- Loose furniture and equipment
- Hazardous material removal

This estimate is based on preliminary information. Assumptions have been made and these assumptions will require confirmation when further documentation becomes available.

We have attached the following documents for your information:

- Appendix A: Explanatory Notes (Ref G)
- Appendix B: Stage A Cost Plans (Ref G)

Yours faithfully

**PROWSE QUANTITY SURVEYORS PTY LTD**



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**EXPLANATORY NOTES:**

Definition of Measurement of Building Area

- Fully Enclosed Covered Area (FECA)

The sum of all such areas at all building floor levels, including basement (except unexcavated portions), floored roof spaces and attics, garages, penthouses, enclosed porches and attached enclosed covered way alongside buildings, equipment rooms, lift shafts, vertical ducts, staircases and any other fully enclosed spaces and usable area 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 way 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 taken to the edge of the paving or to 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.

- Gross Floor Area (GFA)

The sum of the "Fully Enclosed Area" and "Unenclosed Covered Area" as defined.

- Building Area (BA)

The total enclosed and unenclosed area of the building at all building floor levels measured between the normal outside face of any enclosing walls, balustrades and supports.



**EXPLANATORY NOTES (Cont'd)**

Building Costs per square meter

- The estimates provided are all-up estimates of the construction costs, they include allowance for labours, material, equipment, builder's preliminaries and overheads and profits.
- We have assumed the compliance of current building codes and Australian Standards would be the minimum requirement of the development. The development should achieve Council's expectation of standard quality and finishes of similar public assets.
- We have assumed the tender procurement for each development is through a competitive tendering process with no less than three selected tenderers to participate.
- We have assumed the form of contracting is an Australian Standard lump sum contract, such as AS4000.
- We have allowed for cost escalation to an anticipated tender date as noted. The estimates include cost escalation during the construction period of the development.
- A 5% of "Design Fees" has been allowed for in our cost estimates as per MPA's instruction
- A 10% of "Project Management & Supervision" cost has been allowed for in our cost estimates as per MPA's instruction.
- A 20% of "Contingency" has been allowed for in our cost estimates as per MPA's instruction.
- The estimates exclude Goods and Services Tax (G.S.T)
- The estimates exclude cost associated with utilities connection, authority contribution and headworks charges
- The estimates exclude cost associated with working in significant sloping site, rock excavation and site decontamination.
- The estimates exclude allowance for loose furniture and equipment.
- The estimates are prepared based on the previous DCP costing that PQS involved in, such as Armstrong Creek East DCP, Armstrong Creek West DCP, Armstrong Creek Horseshoe Bend DCP, Ballarat West DCP, and also cost plans prepared for various local councils including City of Boroondara, Melton City Council, City of Port Phillip, Frankston City Council etc.



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**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**Summary**

DATE 15/10/2014

REF 9838/G  
 Page 1

ELEM	DESCRIPTION	UNIT	NETT COST	ON COST	TOTAL COST
	<b><u>Playing Fields</u></b>				
AR_53_01A	Thompsons Road Precinct - AOS1	ITEM	3,052,600	1,178,304	4,230,904
AR_53_02A	Thompsons Road Precinct - AOS2	ITEM	2,396,900	925,204	3,322,104
AR_53_03A	Thompsons Road Precinct - AOS3	ITEM	4,675,200	1,804,627	6,479,827
AR_54_01A	Clyde Creek Precinct - AOS1	ITEM	3,068,400	1,184,402	4,252,802
AR_54_02A	Clyde Creek Precinct - AOS2	ITEM	4,662,720	1,799,810	6,462,530
AR_54_03A	Clyde Creek Precinct - AOS3	ITEM	3,953,140	1,525,912	5,479,052
AR_54_04A	Clyde Creek Precinct - AOS4	ITEM	2,937,840	1,134,006	4,071,846
AR_54_05A	Clyde Creek Precinct - AOS5	ITEM	5,260,340	2,030,492	7,290,832
AR_51.1_01A	<i>Not Applicable</i>	NOTE			-
	<b><u>Pavilions</u></b>				
AR_53_01B	Thompsons Road Precinct - AOS1 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_53_02B	Thompsons Road Precinct - AOS2 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_53_03B	Thompsons Road Precinct - AOS3 - Pavilion	ITEM	1,531,250	591,063	2,122,313
AR_54_01B	Clyde Creek Precinct - AOS1 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_54_02B	Clyde Creek Precinct - AOS2 - Pavilion	ITEM	2,540,000	980,440	3,520,440
AR_54_03B	Clyde Creek Precinct - AOS3 - Pavilion	ITEM	1,531,250	591,063	2,122,313
AR_54_04B	Clyde Creek Precinct - AOS4 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_54_05B	Clyde Creek Precinct - AOS5 - Pavilion	ITEM	1,036,000	399,896	1,435,896
AR_51.1_01B	<i>Not Applicable</i>	NOTE			-
	<b>Total of Active Recreation Projects (Excl GST)</b> (Fixed Price Contract - July 2014)				<b>56,534,443</b>

**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

DATE

15/10/2014

**Active Recreation Projects****AR-53-01 Part A - Playing Fields**

REF

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-53-01 Part A - Playing Fields</b>				
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			120,000
	- Site trimming, benching and cut and fill	M2	89,100	2	178,200
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 100 cars)	M2	4,200	60	252,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	46,550	8	372,400
	<b>External Services</b>				
	External stormwater drainage	ITEM			160,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			50,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			30,000
	External light & power	ITEM			130,000
	External communications	ITEM			30,000

**SUB-TOTAL**\$ **3,052,600**

PRELIMINARIES (Included Above)	- %	\$	-
COST ESCALATION TO TENDER (Included Above)	- %	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$	-
DESIGN FEES (As Advised)	5.00 %	\$	152,630
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$	320,523
CONTINGENCY (As Advised)	20.00 %	\$	705,151
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$	-

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)**\$ **4,230,904**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

DATE

15/10/2014

**Active Recreation Projects**

**AR-53-02 Part A - Playing Fields**

REF

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-53-02 Part A - Playing Fields</b>					
	Netball courts (Per Court), incl goal ring posts	NO	4	70,000	280,000
	- Playing lights (Per Court) (Conduits only)	NO	4	10,000	40,000
	Tennis Court - Synthetic surface (In 6 no.)	M2	3,250	130	422,500
	- Playing field fencing (3.6m high)	M	300	180	54,000
	- Bench seats & shelters	NO	6	2,500	15,000
	- Lighting (Conduits only)	NO	6	5,000	30,000
	Bowling Green	No	1	180,000	180,000
	Playing lights (Per green)	No	1	50,000	50,000
	- Shelters				
	- Perimeter fencing				
	- Perimeter footpath				
<b>Site Works</b>					
	Site preparation & demolition	ITEM			90,000
	- Site trimming, benching and cut and fill	M2	40,200	2	80,400
	Roads, footpaths and paved areas	ITEM			50,000
	- Gravel Carpark (in approx 120 cars)	M2	8,710	60	522,600
	Boundary walls, fences and gates	ITEM			50,000
	Outbuildings and covered ways	ITEM			30,000
	Landscaping and Improvements	M2	22,800	8	182,400
<b>External Services</b>					
	External stormwater drainage	ITEM			120,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			40,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			20,000
	External light & power	ITEM			100,000
	External communications	ITEM			20,000

**SUB-TOTAL** \$ **2,396,900**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 119,845
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 251,675
CONTINGENCY (As Advised)	20.00 %	\$ 553,684
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **3,322,104**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-53-03 Part A - Playing Fields**

DATE 15/10/2014

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-53-03 Part A - Playing Fields</b>					
	Football / Cricket Ovals (173x143m)	NO	3	670,000	2,010,000
	Training lights (1 No ovals) - (Conduits only)	NO	3	80,000	240,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Netball courts (Per Court), incl goal ring posts	NO	2	70,000	140,000
	- Playing lights (Per Court) (Conduits only)	NO	2	10,000	20,000
<b>Site Works</b>					
	Site preparation & demolition	ITEM			190,000
	- Site trimming, benching and cut and fill	M2	130,000	2	260,000
	Roads, footpaths and paved areas	ITEM			120,000
	- Gravel Carpark (in approx 180 cars)	M2	5,400	60	324,000
	Boundary walls, fences and gates	ITEM			120,000
	Outbuildings and covered ways	ITEM			70,000
	Landscaping and Improvements	M2	67,650	8	541,200
<b>External Services</b>					
	External stormwater drainage	ITEM			240,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			80,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			40,000
	External light & power	ITEM			200,000
	External communications	ITEM			40,000

**SUB-TOTAL** \$ **4,675,200**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 233,760
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 490,896
CONTINGENCY (As Advised)	20.00 %	\$ 1,079,971
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **6,479,827**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-54-01 Part A - Playing Fields**

DATE 15/10/2014

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-54-01 Part A - Playing Fields</b>				
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			120,000
	- Site trimming, benching and cut and fill	M2	90,800	2	181,600
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 100 cars)	M2	4,200	60	252,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	48,100	8	384,800
	<b>External Services</b>				
	External stormwater drainage	ITEM			160,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			50,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			30,000
	External light & power	ITEM			130,000
	External communications	ITEM			30,000

**SUB-TOTAL** \$ **3,068,400**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 153,420
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 322,182
CONTINGENCY (As Advised)	20.00 %	\$ 708,800
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **4,252,802**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

DATE

15/10/2014

**Active Recreation Projects****AR-54-02 Part A - Playing Fields**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-54-02 Part A - Playing Fields</b>				
	Football / Cricket Ovals (173x143m)	NO	3	670,000	2,010,000
	Training lights (1 No ovals) - (Conduits only)	NO	3	80,000	240,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Netball courts (Per Court), incl gold ring posts	NO	2	70,000	140,000
	- Playing lights (Per Court) (Conduits only)	NO	2	10,000	20,000
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			190,000
	- Site trimming, benching and cut and fill	M2	130,200	2	260,400
	Roads, footpaths and paved areas	ITEM			120,000
	- Gravel Carpark (in approx 180 cars)	M2	5,400	60	324,000
	Boundary walls, fences and gates	ITEM			120,000
	Outbuildings and covered ways	ITEM			70,000
	Landscaping and Improvements	M2	66,040	8	528,320
	<b>External Services</b>				
	External stormwater drainage	ITEM			240,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			80,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			40,000
	External light & power	ITEM			200,000
	External communications	ITEM			40,000

**SUB-TOTAL**\$ **4,662,720**

PRELIMINARIES (Included Above)	- %	\$	-
COST ESCALATION TO TENDER (Included Above)	- %	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$	-
DESIGN FEES (As Advised)	5.00 %	\$	233,136
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$	489,586
CONTINGENCY (As Advised)	20.00 %	\$	1,077,088
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$	-

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)**\$ **6,462,530**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-54-03 Part A - Playing Fields**

DATE 15/10/2014

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-54-03 Part A - Playing Fields</b>					
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Netball courts (Per Court), incl gold ring posts	NO	2	70,000	140,000
	- Playing lights (Per Court) (Conduits only)	NO	2	10,000	20,000
<b>Site Works</b>					
	Site preparation & demolition	ITEM			130,000
	- Site trimming, benching and cut and fill (New site)	M2	107,400	2	214,800
	- E/O site benching, incl fill (over existing dams)	M3	28,100	15	421,500
	- E/O site benching, incl fill (over existing ovals)	M3	11,000	15	165,000
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 130 cars)	M2	3,900	60	234,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	47,230	8	377,840
<b>External Services</b>					
	External stormwater drainage	ITEM			200,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			70,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			30,000
	External light & power	ITEM			170,000
	External communications	ITEM			30,000

**SUB-TOTAL** \$ **3,953,140**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 197,657
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 415,080
CONTINGENCY (As Advised)	20.00 %	\$ 913,175
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **5,479,052**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

DATE

15/10/2014

**Active Recreation Projects**

**AR-54-04 Part A - Playing Fields**

REF

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-54-04 Part A - Playing Fields</b>				
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			120,000
	- Site trimming, benching and cut and fill	M2	83,600	2	167,200
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 100 cars)	M2	3,000	60	180,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	43,830	8	350,640
	<b>External Services</b>				
	External stormwater drainage	ITEM			150,000
	External sewer drainage	ITEM			10,000
	External water supply	ITEM			50,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			30,000
	External light & power	ITEM			130,000
	External communications	ITEM			30,000

**SUB-TOTAL**

\$ **2,937,840**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 146,892
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 308,473
CONTINGENCY (As Advised)	20.00 %	\$ 678,641
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)**

\$ **4,071,846**

(Fixed Price Contract - July 2014)

**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

DATE

15/10/2014

**Active Recreation Projects****AR-54-05 Part A - Playing Fields**

REF

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-54-05 Part A - Playing Fields</b>				
	Football / Cricket Ovals (173x143m)	NO	2	670,000	1,340,000
	Training lights (1 No ovals) - (Conduits only)	NO	2	80,000	160,000
	<i>Including the following:</i>				
	- 4m run off				
	- Goals & perimeter fencing (1.2m h)				
	- Central cricket pitch (all-weather surface)				
	- Interchange shelters				
	- Cricket practice training nets				
	- Irrigation system				
	- Council approved turf				
	Netball courts (Per Court), incl gold ring posts	NO	2	70,000	140,000
	- Playing lights (Per Court) (Conduits only)	NO	2	10,000	20,000
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			130,000
	- Site trimming, benching and cut and fill	M2	108,000	2	216,000
	- Additional site balancing, incl imported fill	M3	96,300	15	1,444,500
	Roads, footpaths and paved areas	ITEM			80,000
	- Gravel Carpark (in approx 130 cars)	M2	6,000	60	360,000
	Boundary walls, fences and gates	ITEM			80,000
	Outbuildings and covered ways	ITEM			50,000
	Landscaping and Improvements	M2	63,730	8	509,840
	<b>External Services</b>				
	External stormwater drainage	ITEM			270,000
	External sewer drainage	ITEM			20,000
	External water supply	ITEM			90,000
	External gas reticulation	ITEM			20,000
	External fire protection	ITEM			50,000
	External light & power	ITEM			230,000
	External communications	ITEM			50,000

**SUB-TOTAL**\$ **5,260,340**

PRELIMINARIES (Included Above)	- %	\$	-
COST ESCALATION TO TENDER (Included Above)	- %	\$	-
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$	-
DESIGN FEES (As Advised)	5.00 %	\$	263,017
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$	552,336
CONTINGENCY (As Advised)	20.00 %	\$	1,215,139
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$	-

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)**\$ **7,290,832**

(Fixed Price Contract - July 2014)

**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

Active Recreation Projects

AR-53-01 Part B - Pavilion

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-53-01 Part B - Pavilion</b>				
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			34,000
	Roads, footpaths and paved areas	ITEM			9,000
	Boundary walls, fences and gates	ITEM			9,000
	Outbuildings and covered ways	ITEM			4,000
	Landscaping and Improvements	ITEM			26,000
	<b>External Services</b>				
	External stormwater drainage	ITEM			31,000
	External sewer drainage	ITEM			16,000
	External water supply	ITEM			8,000
	External gas reticulation	ITEM			7,000
	External fire protection	ITEM			7,000
	External light & power	ITEM			23,000
	External communications	ITEM			5,000

**SUB-TOTAL** \$ **1,036,000**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 108,780
CONTINGENCY (As Advised)	20.00 %	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **1,435,896**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-53-02 Part B - Pavilion**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-53-02 Part B - Pavilion</b>				
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			34,000
	Roads, footpaths and paved areas	ITEM			9,000
	Boundary walls, fences and gates	ITEM			9,000
	Outbuildings and covered ways	ITEM			4,000
	Landscaping and Improvements	ITEM			26,000
	<b>External Services</b>				
	External stormwater drainage	ITEM			31,000
	External sewer drainage	ITEM			16,000
	External water supply	ITEM			8,000
	External gas reticulation	ITEM			7,000
	External fire protection	ITEM			7,000
	External light & power	ITEM			23,000
	External communications	ITEM			5,000

**SUB-TOTAL** \$ **1,036,000**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 108,780
CONTINGENCY (As Advised)	20.00 %	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **1,435,896**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-53-03 Part B - Pavilion**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-53-03 Part B - Pavilion</b>					
<u>Oval Pavilion</u>					
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
<u>Netball Pavilion</u>					
	Change rooms (FECA)	M2	60	2,300	138,000
	Toilet facilities (FECA)	M2	40	2,300	92,000
	Meeting / function room (FECA)	M2	40	2,200	88,000
	Storage facilities (FECA)	M2	45	1,800	81,000
	Verandas & canopies (UCA)	M2	15	750	11,250
<b>Site Works</b>					
	Site preparation & demolition	ITEM			51,000
	Roads, footpaths and paved areas	ITEM			13,000
	Boundary walls, fences and gates	ITEM			13,000
	Outbuildings and covered ways	ITEM			6,000
	Landscaping and Improvements	ITEM			38,000
<b>External Services</b>					
	External stormwater drainage	ITEM			46,000
	External sewer drainage	ITEM			24,000
	External water supply	ITEM			11,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			10,000
	External light & power	ITEM			35,000
	External communications	ITEM			7,000

**SUB-TOTAL** \$ **1,531,250**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 76,563
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 160,781
CONTINGENCY (As Advised)	20.00 %	\$ 353,719
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **2,122,313**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-54-01 Part B - Pavilion**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-54-01 Part B - Pavilion</b>					
<u>Oval &amp; Soccer Pavilion</u>					
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
<b>Site Works</b>					
	Site preparation & demolition	ITEM			34,000
	Roads, footpaths and paved areas	ITEM			9,000
	Boundary walls, fences and gates	ITEM			9,000
	Outbuildings and covered ways	ITEM			4,000
	Landscaping and Improvements	ITEM			26,000
<b>External Services</b>					
	External stormwater drainage	ITEM			31,000
	External sewer drainage	ITEM			16,000
	External water supply	ITEM			8,000
	External gas reticulation	ITEM			7,000
	External fire protection	ITEM			7,000
	External light & power	ITEM			23,000
	External communications	ITEM			5,000

**SUB-TOTAL** \$ **1,036,000**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 108,780
CONTINGENCY (As Advised)	20.00 %	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **1,435,896**

(Fixed Price Contract - July 2014)





**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-54-02 Part B - Pavilion**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-54-02 Part B - Pavilion</b>				
	<u>Oval &amp; Soccer Pavilion</u>				
	Change rooms (FECA)	M2	350	2,300	805,000
	Umpires change room (FECA)	M2	50	2,300	115,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	60	2,700	162,000
	Meeting / function room (FECA)	M2	200	2,200	440,000
	Storage facilities (FECA)	M2	100	1,800	180,000
	Office / first aid (FECA)	M2	40	2,200	88,000
	Internal / external toilets (FECA)	M2	60	2,400	144,000
	Verandas & canopies (UCA)	M2	100	750	75,000
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			84,000
	Roads, footpaths and paved areas	ITEM			21,000
	Boundary walls, fences and gates	ITEM			21,000
	Outbuildings and covered ways	ITEM			11,000
	Landscaping and Improvements	ITEM			63,000
	<b>External Services</b>				
	External stormwater drainage	ITEM			76,000
	External sewer drainage	ITEM			39,000
	External water supply	ITEM			18,000
	External gas reticulation	ITEM			16,000
	External fire protection	ITEM			16,000
	External light & power	ITEM			58,000
	External communications	ITEM			12,000

**SUB-TOTAL** \$ **2,540,000**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 127,000
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 266,700
CONTINGENCY (As Advised)	20.00 %	\$ 586,740
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **3,520,440**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
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**AR-54-03 Part B - Pavilion**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-54-03 Part B - Pavilion</b>					
<u>Oval Pavilion</u>					
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
<u>Netball Pavilion</u>					
	Change rooms (FECA)	M2	60	2,300	138,000
	Toilet facilities (FECA)	M2	40	2,300	92,000
	Meeting / function room (FECA)	M2	40	2,200	88,000
	Storage facilities (FECA)	M2	45	1,800	81,000
	Verandas & canopies (UCA)	M2	15	750	11,250
<b>Site Works</b>					
	Site preparation & demolition	ITEM			51,000
	Roads, footpaths and paved areas	ITEM			13,000
	Boundary walls, fences and gates	ITEM			13,000
	Outbuildings and covered ways	ITEM			6,000
	Landscaping and Improvements	ITEM			38,000
<b>External Services</b>					
	External stormwater drainage	ITEM			46,000
	External sewer drainage	ITEM			24,000
	External water supply	ITEM			11,000
	External gas reticulation	ITEM			10,000
	External fire protection	ITEM			10,000
	External light & power	ITEM			35,000
	External communications	ITEM			7,000

**SUB-TOTAL** \$ **1,531,250**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 76,563
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 160,781
CONTINGENCY (As Advised)	20.00 %	\$ 353,719
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **2,122,313**

(Fixed Price Contract - July 2014)

**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**

Active Recreation Projects

AR-54-04 Part B - Pavilion

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
	<b>AR-54-04 Part B - Pavilion</b>				
	<u>Oval &amp; Soccer Pavilion</u>				
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
	<b>Site Works</b>				
	Site preparation & demolition	ITEM			34,000
	Roads, footpaths and paved areas	ITEM			9,000
	Boundary walls, fences and gates	ITEM			9,000
	Outbuildings and covered ways	ITEM			4,000
	Landscaping and Improvements	ITEM			26,000
	<b>External Services</b>				
	External stormwater drainage	ITEM			31,000
	External sewer drainage	ITEM			16,000
	External water supply	ITEM			8,000
	External gas reticulation	ITEM			7,000
	External fire protection	ITEM			7,000
	External light & power	ITEM			23,000
	External communications	ITEM			5,000

**SUB-TOTAL** \$ **1,036,000**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 108,780
CONTINGENCY (As Advised)	20.00 %	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **1,435,896**

(Fixed Price Contract - July 2014)



**CLYDE DEVELOPER CONTRIBUTION PLAN COSTING**  
**Active Recreation Projects**  
**AR-54-05 Part B - Pavilion**

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ELEM	DESCRIPTION	UNIT	QUANTITY	RATE	TOTAL COST
<b>AR-54-05 Part B - Pavilion</b>					
<u>Oval &amp; Soccer Pavilion</u>					
	Change rooms (FECA)	M2	120	2,300	276,000
	Umpires change room (FECA)	M2	20	2,300	46,000
	Toilet facilities (FECA)	M2	40	2,400	96,000
	Canteen (FECA)	M2	20	2,700	54,000
	Meeting / function room (FECA)	M2	60	2,200	132,000
	Storage facilities (FECA)	M2	80	1,800	144,000
	Office / first aid (FECA)	M2	10	2,200	22,000
	Internal / external toilets (FECA)	M2	30	2,400	72,000
	Verandas & canopies (UCA)	M2	20	750	15,000
<b>Site Works</b>					
	Site preparation & demolition	ITEM			34,000
	Roads, footpaths and paved areas	ITEM			9,000
	Boundary walls, fences and gates	ITEM			9,000
	Outbuildings and covered ways	ITEM			4,000
	Landscaping and Improvements	ITEM			26,000
<b>External Services</b>					
	External stormwater drainage	ITEM			31,000
	External sewer drainage	ITEM			16,000
	External water supply	ITEM			8,000
	External gas reticulation	ITEM			7,000
	External fire protection	ITEM			7,000
	External light & power	ITEM			23,000
	External communications	ITEM			5,000

**SUB-TOTAL** \$ **1,036,000**

PRELIMINARIES (Included Above)	- %	\$ -
COST ESCALATION TO TENDER (Included Above)	- %	\$ -
COST ESCALATION DURING CONSTRUCTION (Included Above)	- %	\$ -
DESIGN FEES (As Advised)	5.00 %	\$ 51,800
PROJECT MANAGEMENT & SUPERVISION (As Advised)	10.00 %	\$ 108,780
CONTINGENCY (As Advised)	20.00 %	\$ 239,316
LOOSE FURNITURE & EQUIPMENT (Excluded)	ITEM	\$ -

**ANTICIPATED TOTAL PROJECT COST (Excluding GST)** \$ **1,435,896**

(Fixed Price Contract - July 2014)