

**Report No. 1** 

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Ordinary Council Meeting - 17 July 2023



## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

#### **Table of Contents**

1	Revision Schedule1
2	Purpose2
3	Development Contribution Area2
4	Period of the plan2
5	Operation of the DCP2
6	Application requirements
7	Items included in the plan
8	Estimated Costs
9	Land4
9.1	Land Valuation4
9.2	Land for Infrastructure (Roads and District Open Space)5
9.3	Land for Public Open Space and/or Drainage5
10	Roads to be constructed or upgraded7
10. Ro	
10.	2 Taylor Road (Integrator B) upgrade between Bishop Road and Keirnan Street:8
10. Тау	Town Centre Distributor Road (Whitby New Road) (Integrator B) construction between Ior Road and South Western Highway:
10.	<ul> <li>North-South Road (Integrator B) construction between Watkins Road and Galvin Road:</li> <li>10</li> </ul>
10. Dis	5 Skyline Boulevard (Neighbourhood Connector A) construction between Town Centre ributor Road (Whitby New Road) and Tinspar Avenue:
10. Bo	6 Tinspar Avenue (Neighbourhood Connector A) construction between Skyline llevard and South Western Highway:
11	District Open Space to be constructed or upgraded12
11.	Whitby High School District Sporting Space (Shared project with the CIDCP)
11.	2 Keirnan Park Stage 3 District Sporting Space (Shared project with the CIDCP) 13
11.	3 Taylor Road / Scott Road Primary School Neighbourhood Open Space
12	Water Monitoring
13	Administration costs
14	Method of calculating contributions16
14.	Cost Share Apportionment - Land16



## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

14.2	Cost Share Apportionment – Roads to be constructed or upgraded
14.3	Cost Share Apportionment – District Open Space to be constructed or upgraded 16
14.4	Cost Share Apportionment – Water Monitoring
14.5	Cost Share Apportionment – Administration17
14.6	Calculating the Lot/Dwelling Potential17
14.7	Calculating the Contribution Rate between Cost Reviews
14.8	Calculating the Contribution liability for Landowners/Developers
15 Pri	ority and timing of infrastructure delivery21
16 Pa	yment of contributions21
16.1	Form of Contributions
16.2	Exemptions
17 DC	22 Credits
17.1	DCP Credits to offset Contributions
17.2	Credits for DCP Land Ceded
17.3	Credits for Pre-Funding of DCP Infrastructure
17.3.1	Pre-Funding Agreement23
17.3.2	2 Acceptance of Works
17.3.3	Principles for Cost Recoupment23
17.4	Repayment of DCP Credit Balance24
18 Re	view24
18.1	Major Review (5 Yearly)24
18.2	Annual (Minor) Review24
18.2.1	Updates to Infrastructure Cost Estimates25
18.2.2	2 Cost Review Reconciliation25
19 Fig	jures27
	1 – Development Contribution Area 3 (DCA3) Boundary27
Figure	2 – Mundijong District Structure Plan 202028
Figure	3 – Roads to be constructed/upgraded29
Figure	4 – District Open Space to be constructed/upgraded
Appendic	
••	dix A: Cost Apportionment Schedule

Appendix B: Example Calculations

Appendix C: Capital Expenditure Plan



## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

Appendix D: Infrastructure Designs Appendix E: Schedule of Costs - Land for Infrastructure (Roads & District Open Space) Appendix F: Schedule of Costs - Land for Public Open Space & Drainage Appendix G: Schedule of Costs - Infrastructure to be constructed/upgraded Appendix H: Schedule of Costs - Administration Appendix I: Schedule of Costs - Water Monitoring Appendix J: Cost Review Reconciliation Adjustment Appendix K: Lots Completed and Remaining Appendix L: Land Valuation Appendix M: Infrastructure Delivery Status Report Appendix N: DCP Dashboard Summary Appendix O: Infrastructure Costings – full breakdown



## **1** Revision Schedule

No.	Date	Details	Author
1	<mark>Xx/xx/</mark> 2023	Council Adopted DCP 1	Sally Murphy



### 2 Purpose

The purpose of this development contribution plan (DCP) report is to:

- enable the application of infrastructure contributions for the development of new, and the upgrade of existing infrastructure which is required as a result of increased demand generated in the Development Contribution Area (DCA)
- provide for the equitable sharing of the costs of infrastructure and administrative items between owners
- ensure that cost contributions are reasonably required as a result of the subdivision and development of land in the DCA
- coordinate the timely provision of infrastructure.

The following documents are relevant documents which coordinate the timely provision of the community infrastructure items:

- The Shire of Serpentine Jarrahdale Community Infrastructure Public Open Space Strategy adopted December 2016
- The Shire of Serpentine Jarrahdale Community Infrastructure Public Open Space Strategy 2020 (Draft)
- The Mundijong District Structure Plan 2020
- The Shire of Serpentine Jarrahdale Local Planning Strategy Number 3 (LPS 3) (Draft)
- The Shire of Serpentine Jarrahdale Strategic Community Plan 2017 2027
- The Shire of Serpentine Jarrahdale Corporate Business Plan 2020 24, and
- The Shire of Serpentine Jarrahdale Long Term Financial Plan 2020 2030.

## **3** Development Contribution Area

The DCA for this DCP is shown on the scheme map as DCA 3. A map is included in Figure 1.

#### 4 Period of the plan

15 years, from 23 May 2023 to 23 May 2038.

## 5 Operation of the DCP

The Development Contribution plan and associated report have been prepared in accordance with State Planning Policy 3.6 - Infrastructure Contributions (SPP 3.6).

This DCP came into effect on the date of gazettal of Amendment 209 to Town Planning Scheme No. 2 (TPS2) to incorporate the plan.



The plan will operate in accordance with the provisions of Amendment 209, and Section 9 and Appendix 10 of TPS2.

## 6 Application requirements

Where an application for subdivision, strata subdivision, development or an extension of land use is lodged which relates to land to which this plan applies, the local government shall take the provisions of the plan into account in making a recommendation on, or determining, that application.

## 7 Items included in the plan

This section of the DCP Report identifies the infrastructure, land and other items for which development contributions will be collected in the DCA. These items include:

- District distributor roads and local roads playing a district function
- District Open Space facilities
- Land for public and district open space, and drainage
- Water monitoring costs, and
- Administration costs.

Infrastructure items included in the DCP reflect the provisions of the latest Mundijong District Structure Plan (see <u>Figure 2</u>) and are incorporated into this DCP through Amendment 209 to the Town Planning Scheme No. 2.

## 8 Estimated Costs

The costs allocated to this DCP have been derived based on the capital investment required for facilities generated by additional development in the DCA.

Initial cost estimates are undertaken by a suitably qualified professional and will be reviewed by a suitably qualified professional at each <u>Major Review</u> (as a minimum).

At each <u>Minor Review</u> the costs may be indexed using the previous year's annual escalation rate for "Road and Bridge Construction" in latest WALGA Quarterly Economic Briefing available at the time the DCP Report is adopted. Where deemed pertinent, some items may be reviewed by a suitably qualified professional.

The methodology applied for each item is detailed within <u>Appendix O</u>.

The associated costs for each DCP item *exclude*:

- Ongoing maintenance costs
- Demand for infrastructure that is generated by the current population



- Demand created by external usage (the proportion of the use drawn from outside the DCA
- Future usage (the proportion of usage that will be generated by future development outside the development contribution plan timeframe).

Due to the fragmented nature of the Mundijong-Whitby Urban area, and the uncertainty around where development will occur first, a consistent "per lot" rate is applied across the DCA.

This means that all new lots and qualifying new development within DCA3 will be required to contribute equally towards the identified DCP items.

Details of the cost apportionment can be seen in the Cost Apportionment Schedule in <u>Appendix</u>.

Designs associated with the Infrastructure Items to be Constructed or Upgraded (where available) are included in <u>Appendix D</u>.

The cost breakdown (Schedule of Costs) are included in the appendices as follows:

- Appendix E: Land for Infrastructure (Roads and District Open Space)
- Appendix F: Land for Public Open Space and Drainage
- <u>Appendix G</u>: Infrastructure (summary)
- Appendix H: Administration Costs
- Appendix I: Water Monitoring
- Appendix O: Infrastructure Costing full break down

The Cost Review Reconciliation, which adjusts future costs based on historic development, is included in <u>Appendix J</u>.

An extract from the current Land Valuation which informs the land costs above, is available in <u>Appendix L</u>.

Note: Grants or other external Funding shall be shown as a deduction against the applicable item in the Cost Apportionment Schedule (<u>Appendix A</u>).

## 9 Land

#### 9.1 Land Valuation

Many traditional infrastructure items include a land component. To determine the total cost of the items, an estimate of land value therefore needs to be identified.

Land to be acquired may be required for areas which can be categorised (through the land use zoning) as residential or non-residential. There is therefore a requirement for two separate rates; one for 'Residential' and one for 'Mixed Use/Non-Residential'.

#### Standard Residential/Non-Standard Residential

This rate is based on current valuation advice for an indicative R25 zoned 5 hectares with no servicing constraints within the Development Contribution Area.



#### Non-Residential/Mixed Use

This rate is based on a Mixed Use R60 zoned area within the planned commercial/town centre precinct. It has been assumed the typical land parcel is a regular shaped 5-hectare area with no major servicing constraints and no major geotechnical/environmental issues.

Pursuant to Clause 9.3.11 of TPS 2, the estimated land value will be reviewed at least annually.

The net land value is to be determined in accordance with the definition of "value" in TPS 2 s.9.3.12 and having general regard to the International Valuation Standards Committee's definition of market value as adopted by the Australian Property Institute. To account for the direct transfer of land, the fair market value should be discounted by standard marketing costs including fees, commissions and advertising cost.

The rate for residential and non-residential land is included in <u>Appendix L</u>.

#### 9.2 Land for Infrastructure (Roads and District Open Space)

The DCP takes responsibility for acquiring land for District Open Space and Road Reserves (such as road widening or for new roads) associated with DCP infrastructure items.

The associated value of this land is credited to the DCP account of the landowner at the time of ceding. In respect of land for road reserves, DCP Credits only apply to the area in excess of the standard 20m. For example, if the road is 30m wide, only 10m width will be compensated for through this Development Contribution Plan.

This approach ensures transparency, equity (particularly in instances of fragmented ownership) and simplicity of calculation.

All land included within the DCP for Infrastructure Items (Roads and District Open Space), is detailed in <u>Appendix E</u>.

#### 9.3 Land for Public Open Space and/or Drainage

A significant amount of land will be provided within the DCA for:

- A mix of multiple-use corridors with a dual drainage and recreation function, as well as land required for drainage only;
- Local and neighbourhood parks;
- Larger district-level playing fields including where provided to complement school playing fields.
- All land required for Public Open Space and Drainage (as prescribed within Liveable Neighbourhoods) is included within the Development Contribution Plan.

The associated value of this land is credited to the DCP account of the landowner at the time of ceding.

This approach ensures transparency, equity (particularly in instances of fragmented ownership) and simplicity of calculation.



#### How the amount of land for Public Open Space and Drainage is determined

Some detailed planning is in progress in the form of approved and draft LSPs. This level of planning allows for the specific identification of land areas required for drainage and/or Public Open Space. In such cases, data from the draft/adopted LSPs has been used to inform the calculations for land requirements.

There are however several areas within the DCA which have not yet been subject to the preparation of LSPs. To ensure that appropriate funds are collected to allow for the future purchase of land required for POS and drainage within these areas, it has been necessary to determine an estimated amount for some LSPs.

The following methodology has been applied:

- 1. A review of LSPs and spatial data has been undertaken to identify the total amount of land covered by each LSP and the total amount of land required for Public Open Space and drainage.
- 2. From these totals, the percentage of land required for Public Open Space and drainage has been calculated.
- 3. Spatial data has been used to identify the total land area of areas in the DCA for which LSPs have yet to be prepared.
- 4. The percentage identified in step 2 has then been applied to the total identified in step 3 to generate an estimated amount of land required for Public Open Space and drainage in these areas.
- 5. The Public Open Space and drainage land areas identified in steps 1 and 4 are then added to identify a total estimate of land required for POS and drainage within the DCA.

Appendix F details the calculations for Public Open Space and Drainage land.

#### POS Items not included

State Policy provides a clear indication that the development of POS to a minimum standard, and maintenance for a minimum period, is at the developer's expense. As such, the development and initial maintenance of Public Open Space is not included within the Development Contribution Plan and will be the responsibility of the subdivider.

In addition, land identified as having conservation value, for example Bush forever sites or protected Wetlands, is excluded from the Development Contribution Plan.

While the Development Contribution Plan includes land for drainage purposes, it does not include drainage works themselves (i.e. earthworks, drainage infrastructure such as piping, pits, mechanical treatments, water sensitive urban design treatments or similar). These are considered subdivisional works, generally required by local water management strategies and urban water management plans.

Such drainage works are very difficult to calculate given the varying nature of drainage infrastructure and developers may treat drainage works in various ways to benefit their development. The requirement to provide optimal certainty in costing Development Contribution Plan items to achieve equity between developers, reinforces the need to exclude drainage works.



The drainage works contained within the proposed road infrastructure costings *are* permitted to be included, in accordance with SPP3.6.

## 10 Roads to be constructed or upgraded

Figure 3 shows the locations and extent of the Road Upgrades included in the DCP.

It is noted that costs associated with land to be acquired for infrastructure items within this DCP are costed separately to the construction costs, due to different indexation rates applied to the Construction component and the Land Value component.

#### Road Reserve Improvements Not Included

The amenity of urban areas can be substantially enhanced through public realm improvement works such as vegetation, hard landscaping, public art and higher design standards of infrastructure. Road reserves provide significant opportunities for amenity enhancement, especially in the case of wider reserves such as distributor roads and in the instance of splitcarriageways. There is, however, not a clear nexus between development in a new urban area and its associated increase in traffic, and the need for general road reserve improvements.

Nonetheless, it should be noted that most developers undertake works to provide attractive streetscapes as a marketing feature, especially in the context of distributor and connector roads leading into new estates. As such, road reserve improvements, such as hard and soft landscaping and higher design standards of infrastructure, are not included in the DCP.

## 10.1 Bishop Road (East) (Integrator B) upgrade between Tonkin Highway reserve and Bett Road:

The road currently exists, but will require changes in width, alignment and configuration to support development envisaged under the Mundijong District Structure Plan. The road is also proposed to provide a direct connection to the future extension of Tonkin Highway. The width of Bishop Road will be 30 metres.

The following items are included in the Development Contribution Plan for Bishop Road (East):

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
  - Taylor Road (Roundabout)
  - Hopkinson Road (Roundabout)
  - Soldiers Road (Roundabout)
  - o Bett Road (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B



standard;

- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for Bishop Road (East):

- Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement;
- Any works carried out between Kargotich Road and the Tonkin Highway. This section of the road upgrade will be borne by the West Mundijong Industrial Development Contribution Plan; and
- Any intersection treatment with Tonkin Highway.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

#### 10.2 Taylor Road (Integrator B) upgrade between Bishop Road and Keirnan Street:

The road currently exists, but will require changes in width, alignment and configuration to support development envisaged under the Mundijong District Structure Plan. The width of Taylor Road will be 30m.

The following items are included in the Development Contribution Plan for Taylor Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
  - Keirnan Street (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.



The following items are not included in the Development Contribution Plan for Taylor Road:

• Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

## 10.3 Town Centre Distributor Road (Whitby New Road) (Integrator B) construction between Taylor Road and South Western Highway:

The road does not currently exist and will be required to support the development envisaged under the Mundijong District Structure Plan. The width of New Whitby Road will be 30 metres.

The following items are included in the Development Contribution Plan for New Whitby Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
  - Taylor Road (Roundabout)
  - Soldiers Road (Roundabout)
  - South Western Highway (Channelised Intersection)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Construction of one at-grade rail crossing;
- Costs associated with one rail crossing closure (Keirnan Street);
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for New Whitby Road:

• Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.



<u>Note:</u> The construction of the at-grade crossing is subject to agreement between the Road Manager and Rail Infrastructure Manager. The Local Government is responsible to manage communications between all stakeholders, obtain the required approvals and arrange for an Australian Level Crossing Assessment Model (ALCAM) Report and a Rail Safety Report to be undertaken.

Construction of the at-grade crossing should not be considered prior to the freight rail being realigned away from the Mundijong Urban area.

In the event that an at-grade rail crossing is not approved, the local government is to apply any funds already collected to an approved alternate crossing or if no crossing is approved any collected funds shall be applied to the Town Centre Distributor Road item generally or other items in the DCP.

## 10.4 North-South Road (Integrator B) construction between Watkins Road and Galvin Road:

The road does not currently exist and will be created through subdivision to support the development envisaged under the Mundijong District Structure Plan. The width of the North–South Road will be 30 metres.

The following items are included in the Development Contribution Plan for North-South Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections;
  - Watkins Road (Roundabout)
  - o Galvin Road (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Integrator B standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for North-South Road:

• Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.



## 10.5 Skyline Boulevard (Neighbourhood Connector A) construction between Town Centre Distributor Road (Whitby New Road) and Tinspar Avenue:

This is a new road that will be required to support the development envisaged under the Mundijong District Structure Plan. The width of Skyline Boulevard will be 25 metres.

The following items are included in the Development Contribution Plan for Skyline Boulevard:

- Land required in excess of a standard 20m reserve, to achieve a 25m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections:
  - New Whitby Road (Roundabout)
  - o Tinspar Avenue (Roundabout)
- Earthworks for the whole road reserve;
- Complete road construction based on the Liveable Neighbourhoods Connector A standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for Skyline Boulevard:

• Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

## 10.6 Tinspar Avenue (Neighbourhood Connector A) construction between Skyline Boulevard and South Western Highway:

This is a new road which will be required to support the development envisaged under the Mundijong District Structure Plan. The width of Tinspar Avenue will be 25 metres.

The following items are included in the Development Contribution Plan for Tinspar Avenue:

- Land required in excess of a standard 20m reserve, to achieve a 25m wide road reserve, plus additional land where necessary to accommodate channelization and/or roundabout construction at the following intersections:
  - o Keirnan Street (Seagull Intersection)
  - o South Western Highway (Channelised Intersection)



- Earthworks for the whole road reserve
- Complete road construction based on the Liveable Neighbourhoods Connector A standard;
- Associated drainage works including water sensitive urban design measures;
- Traffic control devices including intersection treatments and associated works;
- Shared paths;
- Utility removal, relocation and insertion; and
- Associated costs including design, administration and management.

The following items are not included in the Development Contribution Plan for Tinspar Avenue:

 Minor intersections treatments into the adjoining subdivisional road network. These will be subject to a standard truncation requirement.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

## **11** District Open Space to be constructed or upgraded

The Shire's Community Infrastructure and Public Open Space Strategy (CIPOS) outlines the general approach and philosophy in planning for community infrastructure and public open space in the Shire of Serpentine Jarrahdale. It provides a guiding document for current and future development relevant to this purpose.

The types of community infrastructure include sport, recreation, community, emergency, tourism and Shire administration requirements. These facilities are to cater for the growing pressures on local clubs, community groups and service providers, where the increasing population increases service delivery requirements. As part of the investigations of CIPOS, it has been identified that the Mundijong Urban area will require increased provision of District Open Space to support population growth.

The scope of construction of District Open Space included in this Development Contribution Plan is confined to land and below surface works including drainage, irrigation and grassing. Further above ground works are included within the Shire's Community Infrastructure Development Contribution Plan (CIDCP).

Figure 4 provides a graphical representation of District Open Space projects included in this DCP.

It is noted that costs associated with land to be acquired for infrastructure items within this DCP are costed separately, due to different indexation rates applied to the Construction component and the Land Value component.

#### 11.1 Whitby High School District Sporting Space (Shared project with the CIDCP)

The Community Infrastructure and Open Space Strategy identifies a district sports oval to be colocated with the planned high school site in Precinct A of the Mundijong District Structure Plan. A



shared-use agreement is anticipated between the Department of Education and the Shire for the use of the oval established on the High School site, to facilitate the District function.

All community buildings and clubroom facilities are funded separately through the CIDCP.

The single playing field is to be designed to a minimum dimension of 205m x 175m (3.6 hectares).

- Earthworks;
- Grassing;
- Irrigation; and
- Associated costs relating to construction including design and management.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

#### 11.2 Keirnan Park Stage 3 District Sporting Space (Shared project with the CIDCP)

At this DCP revision, it is anticipated that enough grant funds will be available for the construction of the first oval. This has been reflected within the costs.

The Community Infrastructure and Open Space Strategy identifies Reserve 4395 along Keirnan Street, Mundijong, as being suitable to be developed as a Sporting Complex.

The Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan includes for two senior-sized playing fields on site, as this will support a District function. The playing fields are to have a minimum dimension of 205m x 175m each (7.2 hectares).

The following items were included in the Development Contribution Plan:

- Earthworks;
- Grassing;
- Irrigation; and
- Associated costs relating to construction including design and management.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>.

#### 11.3 Taylor Road / Scott Road Primary School Neighbourhood Open Space

The Community Infrastructure Open Space Strategy identifies that this sporting space will be a senior sized AFL field. A shared use agreement is anticipated with the Department of Education.

The playing field will be accommodated wholly within a future Shire reserve, funded by the Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan.

The single playing field is to be designed to a minimum dimension of 205m x 175m (3.6 hectares).



The following items are included in the Development Contribution Plan

- Earthworks;
- Grassing;
- Irrigation; and
- Associated costs relating to construction including design and management.

A detailed breakdown of the costing for this project is provided in <u>Appendix G</u>. The value of land associated with each project is included separately in <u>Appendix E</u>..

### **12 Water Monitoring**

The Mundijong Whitby District Water Management Strategy (DWMS) establishes a framework for water management in new urban development. This ensures that water quantity and quality design objectives can be achieved, and the concerns and risks identified by the Department of Water and Environmental Regulation (DWER) and the Water Corporation can be addressed. The DWMS reinforces the Shire's commitment to ensuring that water sensitive urban design principles are incorporated into new urban development.

The Shire will implement water quality and quantity monitoring within developments and wetlands guided by a Sampling and Analysis Plan that will be prepared on commencement of the program to confirm sampling and analysis arrangements.

It is proposed that monitoring will be carried out over 10 years with reports prepared annually and provided to stakeholders for review.

This approach will allow longer-term trends in water quality and quantity to be identified and monitored as the DCA3 is fully developed. Suitable remediation works or structural controls may be implemented to rectify any identified problems.

The monitoring program will include:

- 20 groundwater monitoring wells
- 10 surface water quality sampling sites
- 7 surface water level/flow monitoring sites
- 10 sediment sampling sites

Monitoring will be carried out at the following frequencies:

Year	Groundwater levels	Groundwater quality	Surface water flows /levels	Surface water quality	Sediment
1	Monthly	4 x per year: 4 x per year:			1 x per
2-10	Quarterly	Mar, Jun, Sep & Dec	Mar (baseline), May (1 <sup>st</sup> flush), Sep & Oct (winter).		year



Water quality and sediment sampling will include the following parameters:

Group	Frequency	Groundwater	Surface water	Sediment
In-situ	All events	DO, Redox potential (Eh), EC, Temperature, pH		n/a
Physio-chemical	All events	n/a	Total Dissolved Solids (TDS)	n/a
Anions and nutrients	All events	TKN, NH4, NO3, DON, TN, TP and PO4 (FRP)		n/a
Metals	One annual event	Al, As, Cd, Cr,	Hg	
Hydrocarbons	One annual event	TRH, BTEX and PAH		

It is likely that subdivision and development would not be approved within the Mundijong Whitby area without the approval and ongoing implementation of the Mundijong Whitby DWMS. As such, it is considered reasonable that the costs of, and associated with, the required water monitoring be funded by developers within DCA3.

The DCP will assume funding responsibility for the post development water-monitoring program required by the Mundijong Whitby DWMS.

District level sampling is anticipated to commence in 2028.

Appendix I gives a detailed breakdown of the costs associated with Water Monitoring.

## **13 Administration costs**

All expended and estimated future costs associated with administration, planning, review and development of the District Structure Plan, District Water Management Plan/s, preparation and implementation of the Mundijong Urban Development Contribution Plan and any technical documents necessary for the implementation of the above, including:

- Planning studies;
- Traffic studies;
- Drainage studies;
- Road design costs where not allocated to specific road items under the DCP;



- Other related technical and professional studies;
- Legal costs;
- Valuations;
- Borrowing costs (including loan repayments); and
- Scheme management costs (including administration and management of the DCP).

In general, Administration costs of the DCP are broken down into Legal Expenses, expenses associated with advertising & consultancy, and proportional salary allocations for overhead personnel whose are involved in the general operation of the DCP(s). This allocation is reflective of the percentage of time the employee is expected to spend on work associated with the general running of the DCP. This does <u>not</u> include time spent on specific DCP funded infrastructure projects, which is captured within the individual project costings).

The Technical Specialist Infrastructure Contributions (previously titled "DCP Coordinator") is the only employee whose cost is 100% allocated across the DCPs.

It is noted that staff may also be required to spend time on specific DCP funded projects as part of the design and/or project delivery phase. Any such time/cost allocation is recorded separately and where allowable under the scope/costing for the project, will be recovered under those project costings.

A detailed breakdown of the administrative costs is provided in Appendix H.

#### **14 Method of calculating contributions**

#### 14.1 Cost Share Apportionment - Land

The cost of land associated with road widening, public open space and district open space is shared equally across the DCA.

#### 14.2 Cost Share Apportionment – Roads to be constructed or upgraded

The costs associated with construction and/or upgrade of roads are shared equally across the DCA.

#### 14.3 Cost Share Apportionment – District Open Space to be constructed or upgraded

The costs associated with construction and/or upgrade of District Open Space are shared equally across the DCA.

#### 14.4 Cost Share Apportionment – Water Monitoring

The costs associated with Water Monitoring within the DCA are shared equally across the DCA. Water Monitoring is a necessary enabler to subdivision and development.



#### 14.5 Cost Share Apportionment – Administration

The costs associated with Administration Costs for this DCP are shared equally across the DCA, as the staff time and related activities which make up these costs are necessary for the preparation and ongoing management of the DCP.

#### 14.6 Calculating the Lot/Dwelling Potential

The development contribution methodology is based on a per lot/dwelling basis (whichever is greater). Therefore, it is necessary to estimate the potential number of additional lots/dwellings to be created in the DCA. This estimate will be used to determine the development contribution rates per lot/dwelling for standard/non-standard residential, non-residential and mixed-use development.

The following methodology has been applied:

- A review of LSPs and spatial data has been undertaken to identify the estimated total lot/dwelling yield for each area covered by an approved or draft LSP, or approved subdivision/development application.
- The estimates for greenfield areas not yet subject to LSPs have been determined through identifying the total land area, deducting 40 percent (accounting for land required for public purposes such as roads, POS and drainage), and then determining the subdivision/development potential of the remaining land area based on its residential density coding.
- The lot/dwelling estimates for infill sites (i.e. existing urban) not yet subject to LSPs were determined through manual calculations of the development potential of each landholding based on the relevant residential density.
- By adding the lot/dwelling yields calculated in steps 1-3, the total estimated lot/dwelling yield for the Development Contribution Plan area has been identified.
- A 'Parent lot' deduction has been included within the total lot count. Parent lots do not generate a contribution requirement in the Development Contribution Plan.

As lots extinguish their liability to pay contributions, and/or an LSP is revised, the future lot count is updated accordingly at the next DCP Report Review.

The yield estimate calculated for mixed development is based on 15 lots per gross hectare to provide for infrastructure of subdivision works such as roads and drainage facilities to be transferred to the state / local government. Where individual lots do not require land to be transferred to the state / local government, 20 lots per gross hectare has been applied.

There are some instances where an LSP is not prepared for an area within the DCA. In those areas, the following approach has been taken to assess the lot yield and public open space considerations:

• Land for public purposes (i.e. Roads, Public Open Space, drainage and similar) is expected to be provided within non-structure planned areas. As such, a 40 percent deduction has been applied to the total site area of each precinct.



• In the absence of finalised (or draft) LSPs depicting residential densities, an R25 code has been utilised to determine the lot/dwelling estimates for the non-structure planned areas.

See <u>Appendix K</u> for details on lots completed and remaining at this DCP Report revision.

The Total Cost allocated to the DCA and dividing this figure by the estimated number of future lots, gives the Contribution Per Lot Value for the DCA.

Allocated Cost / number of anticipated additional lots/dwellings = Contribution per Lot Value

The "Cost Apportionment Schedule" shows the split of costs by item and shows the total Contribution Per Lot value – See <u>Appendix A</u>.

#### 14.7 Calculating the Contribution Rate between Cost Reviews

To ensure costs are current during the time between cost reviews, all costs will be escalated daily, calculated from the number of days since the last cost review (being the latest adopted DCP revision), using an annual escalation rate.

The annual escalation rates for Administration and Infrastructure reflect the forecasts in latest WALGA Quarterly Economic Briefing (the LGCI Forecasts table) available at the time the DCP Report is adopted. The Administration index reflects the LGCI Component "Employee Costs" and the Infrastructure index reflects the LGCI Component "Road and Bridge Construction". The Land Value index is provided as part of the independent Land Valuation (see Appendix L).

Escalation rates will separately apply to infrastructure costs, land costs and administration costs. The escalation rates will be set at each cost review. Given that the contribution rate entails items with different escalation rates, it is necessary to calculate a weighted escalation rate as follows:

 $ER = (\%IC/TC \times IER) + (\%LV/TC \times LVER) + (\%AC/TC \times AER)$ , where:

- ER is the weighted Escalation Rate;
- DER is the daily escalation rate (ER/365);
- IC is the estimated Infrastructure Cost;
- LV is the estimated Land Value;
- AC is the estimated administration Cost, including water monitoring;
- TC is the Total Cost being IC + LV + AC;
- IER is the Infrastructure Escalation Rate;
- LVER is the Land Value Escalation Rate;
- AER is the Administration Escalation Rate; and
- D is the number of days since the last cost review.



The daily indexing of costs described above, means that at any point in time, the Contribution per Lot/m2 value will vary according to the number of days since the last Cost Review.

#### 14.8 Calculating the Contribution liability for Landowners/Developers

The Mundijong Whitby Urban DCA is depicted on Plan 10C of Appendix 10 within the Shire of Serpentine Town Planning Scheme No. 2.

The Cost Contribution rate is to be calculated on a m2 basis based on the remaining developable land in the DCP Area identified in Plan 10C. The remaining DCP cost is shared proportionally across the remaining developable land in the DCP Area as follows:

(Remaining Cost / Remaining Developable land = \$ contribution rate per m2).

For simplicity of calculation, all Residential lots/dwellings will be calculated as an average R25 (350m2) lot. For Non-Residential subdivision or development, the actual lot area is used for the calculation.

A cost review is to be undertaken at least annually, at which time the Contribution rate will be established based on:

- Road Upgrades and Construction
- District Open Space Improvements
- Land required for Roads, POS, Drainage and DOS
- Water monitoring costs
- Administration Costs
- Yields and Lots completed and expected
- Escalation Rates

To ensure costs remain current between Cost Reviews, all costs will be calculated daily based upon an annual escalation rate to be established through the Cost Review. The start date for daily escalation is the approval date for the prevailing Cost Review.

The Contribution Rate is to be applied as follows where DER is the daily escalation rate, D is the number of days since the last cost review:

#### *(i)* Standard residential subdivision or development

The number of additional dwellings/lots being created at the time of subdivision/development multiplied by the applicable development contribution rate.

(Contribution rate per lot/dwelling x DER x D) x number of additional lots or dwellings being created = Required development contribution



## (ii) Non-standard residential subdivision or development (e.g. Lifestyle village, retirement village, caravan park, park home estate or similar).

The number of additional dwellings, residential units or similar created at the time of subdivision/development multiplied by the applicable development contribution rate.

(Contribution rate per lot/dwelling x DER x D) x number of additional lots or dwellings being created = Required development contribution

#### (iii) Non-residential subdivision or development

A development contribution is required for the creation of non-residential lots based on the actual size and number of lots created (minus the equivalent of one lot), multiplied by the applicable development contribution rate. Where a subdivision creates a lot that accommodates an existing approved non-residential development, that lot shall be exempt from the requirement for a development contribution to be made. For clarity purposes, the area of the lot accommodating the existing approved non-residential development is to be subtracted from the overall subdivision area, before calculating the development contribution for the remaining balance of the subdivision area.

New non-residential development (including alterations and additions to existing nonresidential development) will not be required to make a development contribution unless the new non-residential development results in increased traffic to the subject land, as identified by the information provided by the applicant in support of the development application for that new non-residential development. Where increased traffic is identified to occur, the applicable development contribution is to be calculated as follows:

Square metre rate x square metre size of land being developed (including alterations and additions) = Required development contribution

For new private education establishments and associated development, provided a shared use agreement for public access to district open space is agreed to the satisfaction of the Local Government, development contributions shall be levied at 0.3 percent of the total development costs of the site, as agreed with the Local Government based on the building licence application.

#### (iv) Mixed-use development

The R25 subdivision/development potential of the site, or the actual number of lots/dwellings being created at the time of subdivision/development, whichever is the greater (minus the equivalent of one lot or dwelling), multiplied by the applicable development contribution rate.

Based on the R25 site calculation:

(Contribution rate per lot/dwelling x DER x D) x (R25 subdivision/development potential of the site - the equivalent of one lot or one dwelling) = Required contribution rate

Based on the number of dwellings



(Contribution rate per lot/dwelling x DER x D) x (actual number of residential lots/dwellings being created - the first dwelling being created) = Required development contribution

Appendix B gives examples of the respective calculations.

#### Future Subdivision/Development Potential

It is acknowledged that land within the DCA may be developed to a residential density lower than that envisaged within the yield calculations. Such development may however allow for additional subdivision and/or development in the future.

Contributions will be required for the creation of additional lots/dwellings post-initial development at the time that those additional lots/dwellings are created. Such additional contributions will be required in accordance with the Development Contribution Plan.

where lt important to note that the land use non-residential. is is the DCP liability will be incurred only once on any site area (footprint) provided the liability discharged is based on the full development potential of the lot. Subsequent non-residential development will not be liable for additional DCP contributions.

For example, multilevel non-residential development or ongoing development on the nonresidential site will be exempt from further DCP liability; liability is based on the non-residential land "footprint". However, should there be subsequent *residential* development above the nonresidential development footprint; additional contribution liability will be incurred for the additional residential dwellings.

## **15 Priority and timing of infrastructure delivery**

Details of the priority/timing of infrastructure items can be seen in the Capital Expenditure Plan in Appendix C.

Timelines are based on the forecast rate of development and expected DCP funds from forecast contributions to be paid. This is reviewed annually and may be adjusted depending upon the rate of development and available DCA3 funds.

<u>Appendix M</u> contains the Infrastructure Delivery Status Report, in line with SPP 3.6 requirements, which details the planned timelines and any variation to these from the previous DCP revision.

#### **16 Payment of contributions**

An owner's liability to pay the owner's cost contribution to the local government arises on the earlier of:

- the local government recommending its approval on the deposited plan or survey strata plan of the subdivision of the owner's land within the development contribution area (subdivision/strata clearance);
- the commencement of any development on the owner's land within the development contribution area (typically triggered at Building Permit application); or
- the approval of a change or extension of use by the local government on the owner's



land within the development contribution area.

Where a subdivision is staged, the development contribution is payable only on those stages being cleared.

#### **16.1 Form of Contributions**

Pursuant to Clause 9.3.14 of TPS 2, conditions relating to development contribution requirements can, to the satisfaction of the Shire, be satisfied by:

- Cheque or cash
- Transferring to the local government or a public authority land in satisfaction of the cost contribution
- The provision of physical infrastructure
- Some other method acceptable to the local government, or
- Any combination of these methods.

#### 16.2 Exemptions

Clause 9.3.13.3 of TPS 2 details specific exemptions for which a development contribution is not required.

## **17 DCP Credits**

#### **17.1 DCP Credits to offset Contributions**

A landowner may gain DCP credits for provision of DCP infrastructure items (known as "Pre-Funding") and/or land ceded for road widening, POS/Drainage, and DOS.

DCP Credits can be used to offset DCP Contributions (within the same DCA). Credits must be "banked" (through ceding land or completion of pre-funded infrastructure), before they can be used to offset a Contribution liability.

DCP Credits will always be allocated to the registered landowner, as likewise, the liability for DCP Contributions is a liability of the landowner. Credits do not transfer upon sale of the land, unless a legal agreement between the seller, purchaser and the Shire is in place to enable this.

#### 17.2 Credits for DCP Land Ceded

Credits are applicable for land included in the DCP for POS/Drainage, DOS and Road Reserves. The land value applied to credits, will be the land value published in the DCP Report Revision at the time the land is ceded (i.e. Subdivision Clearance).



#### 17.3 Credits for Pre-Funding of DCP Infrastructure

#### 17.3.1 Pre-Funding Agreement

The Shire will support pre-funding and delivery of the infrastructure, provided there are good reasons for doing so and in instances where:

- The works are necessary for the progression of an approved subdivision, or
- The Developer wishes to undertake works specified in the DCP and the Shire does not hold enough DCP funds to undertake the works and/or has not prioritised such works.

By way of an exchange of letters, the Shire and the Developer will agree the extent, composition and timing of the infrastructure works to be pre-funded. Once agreed, the works become the Approved Works. The Approved Works must be identified sufficiently to ensure the cost and quantities of completed and remaining works in that item can be quantified.

#### 17.3.2 Acceptance of Works

The Developer shall ensure the works are:

- Undertaken in a proper and workmanlike manner
- In accordance with plans and specifications constituting the Approved Works, and
- Completed within the agreed period.

Following written notification from the Developer, that the Approved Works are complete as above, the Shire will confirm the delivery of the Approved Works to its satisfaction.

The Shire can modify, accept or reject the claim where justified, following review of standard and cost. Referral to the Mundijong Industry Reference Group for comment should be made where rejection of the claim is proposed.

#### **17.3.3 Principles for Cost Recoupment**

The recoup is to be based on the current Cost Estimate in accordance with the latest revision of the DCP Report whereby:

- The current cost estimate (excluding contingency allowance) as described in the prevailing DCP Report shall constitute the maximum claimable amount for the completed Approved Works
- If the actual cost of the works exceeds the escalated cost estimate, the developer may claim an additional amount, not exceeding the contingency allowance provided for this item of work. Such a claim shall be independently substantiated to the satisfaction of the Shire
- The cost estimate will be subject to escalation at the rate prescribed from time to time in the DCP Report, up to the time of agreed practical completion of the works.

Once Approved, costs claimed by the Developer/Landowner for the pre-funded works will be independently verified as reasonable and in line with DCP inclusions/exclusions.

DCP credits will only be allocated once agreement is reached on the final claim value for such works after the independent review has occurred.

The value of DCP Credits allocated is *exclusive* of GST.



## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

#### **17.4 Repayment of DCP Credit Balance**

Where a developer or landowner has completed all their developments within the DCA and has no further holdings in the DCA, any resulting credit balance amount is held by the local government as a credit to the developer or landowner until sufficient funds are available in the DCP fund to cover the credited amount, taking consideration of planned or committed expenditure at that time.

All credit balance repayment requests during the operation of the DCP, and which qualify for consideration (as per above), will be subject to a council report, and determined by Council. The credit is then reimbursed to the developer or landowner as soon as circumstances permit.

Requests for repayment of a credit balance, once development and landholdings applicable to that developer/landowner within the DCA are complete, should be made in writing to <u>developmentcontributions@sjshire.wa.gov.au</u>.

At the completion of the DCP, all credit balances are to be repaid no later than 90 days from the end date of the DCP.

#### 18 Review

#### 18.1 Major Review (5 Yearly)

In addition to the Annual Review provisions identified below, the Development Contribution Plan will be reviewed five years from the date of gazettal of the local planning scheme, or amendment to the local planning scheme to incorporate or amend the plan, or earlier should the local government consider it appropriate, having regard to the rate of development in the area and the degree of development potential still existing.

There is a statutory obligation for the Shire to advertise and seek comment on a major review of a DCP report. In addition to the statutory provisions, the Shire will consult with the Mundijong Industry Reference Group (MIRG).

#### 18.2 Annual (Minor) Review

The DCP Report which accompanies the Plan, is to be reviewed at least annually. The following contribution rate inputs will be revised as part of this review:

- Remaining infrastructure costs
- Remaining land acquisition costs
- Remaining water monitoring costs
- Future administration Costs
- Remaining lots, and
- Cost Review Reconciliation\* surplus or deficit to date.

\*The Cost Review Reconciliation is an adjustment made in each revision to adjust for any overcollection or under-collection of DCP contributions versus DCP expenditure. DCP contributions



are always based on an estimate of future costs, whereas DCP expenditure is based on actual values. Any variance at the end of the prevailing DCP Report revision, is therefore adjusted on the "Reconciliation" line in the Cost Apportionment Spreadsheet, to assist the DCP in achieving the ultimate goal of breaking-even at its closure.

There is no statutory obligation for the Shire to advertise or seek comment on the minor annual review of a DCP report, however where the costing and details of the DCP Report are:

- revised based on accounting for completed works
- revised based on construction cost increases/decreases
- revised based on land value increases/decreases
- revised based on revisions to the anticipated undeveloped lot yield; and
- not subject to other material change

the Shire will consult with the Mundijong Industry Reference Group (MIRG).

It is noted that SPP 3.6 requires an Annual Status Report to be prepared by the local government providing an overview of progress of the delivery of infrastructure specified in the DCP, which is to be published on the local government's website, within 6 months of Financial Year End. It therefore does not form part of this DCP Report.

The Annual Report will be available on the Shire's website for each respective DCP, by no later than end December of each Financial Year: <u>Infrastructure Contributions » Shire of Serpentine</u> <u>Jarrahdale (sjshire.wa.gov.au)</u>

#### **18.2.1 Updates to Infrastructure Cost Estimates**

Cost estimates will be updated annually.

For the purposes of the cost reviews, infrastructure costs may be reviewed in full by an appropriately qualified person or may be indexed based on the Building Cost Index or other appropriate index.

The Cost of Land will be updated annually, in accordance with section 9.1 of this report.

The Cost Apportionment Schedule will identify and adjust/apportion any funding received/required from non-DCP sources (e.g. grants or any "Shire-Share" portion of costs).

#### 18.2.2 Cost Review Reconciliation

The Cost Review Reconciliation is an adjustment made in each revision to adjust for any overcollection or under-collection of DCP contributions versus DCP expenditure. DCP contributions are always based on an estimate of future costs, whereas DCP expenditure is based on actual values. Any variance at the end of the prevailing DCP Report revision, is therefore adjusted on the "Reconciliation" line in the Cost Apportionment Spreadsheet, to assist the DCP in achieving the ultimate goal of breaking-even at its closure.

At each Cost Review, the net balance of contributions and expenditure will be calculated.



This net balance accounts for all contributions due from development in the previous development periods (no account is taken of contributions paid, i.e. cash received) and all expenditure (including credits earnt, whether reimbursed or held on account).

A Cost Review can result in a surplus or deficit at the date of review. A surplus means the total contributions arising from development has exceeded the total costs incurred at the review date. A deficit means that the total contributions arising from development were less than the total costs incurred at the review date.

Future Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan contribution rates account for this surplus or deficit, as well as future costs and lots yet to be developed.

Over the life of the Development Contribution Plan, the methodology employed should see the annual surpluses and deficits cancel out, to result in a break-even position for the DCP at the end of its lifespan.

<u>Appendix J</u> details the annual cost review outcomes from the latest review and any adjustment required for the following DCP Report period.

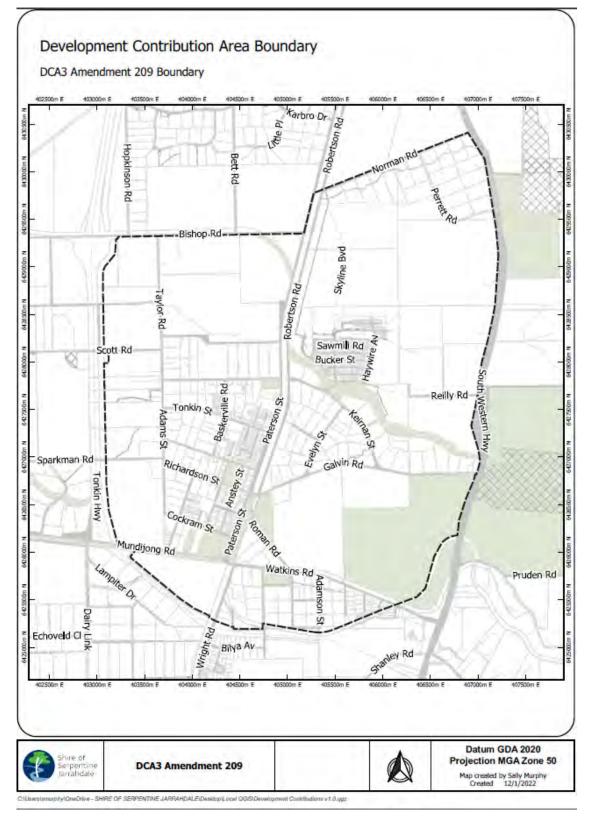
Appendix N contains the DCP Dashboard Summary for the DCP to date.



## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

#### **19 Figures**

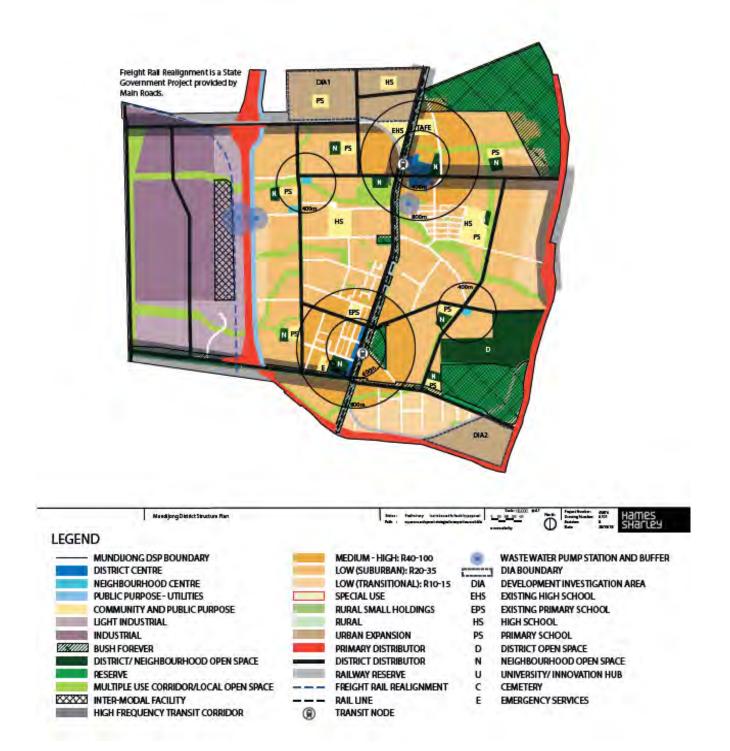
#### Figure 1 – Development Contribution Area 3 (DCA3) Boundary





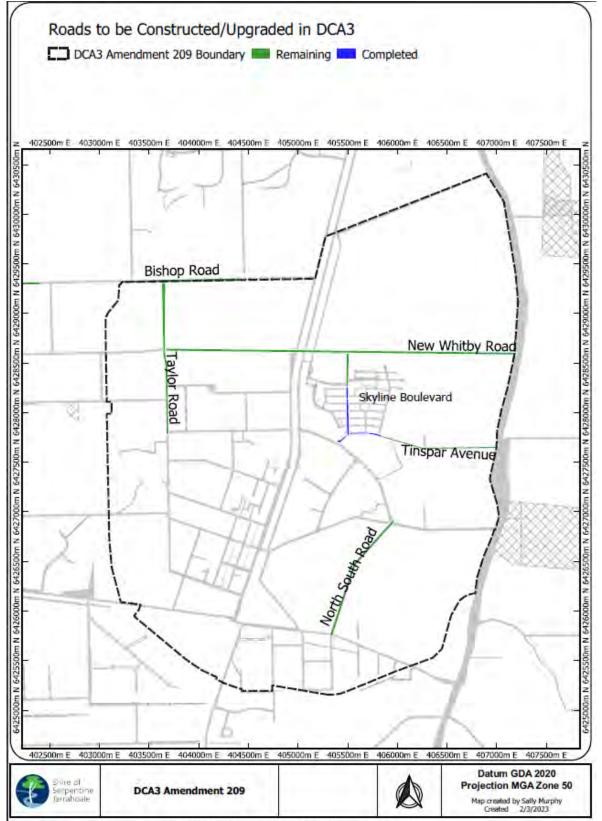
## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

#### Figure 2 – Mundijong District Structure Plan 2020



#### 10.1.9 - Attachment 3 Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

#### Figure 3 – Roads to be constructed/upgraded

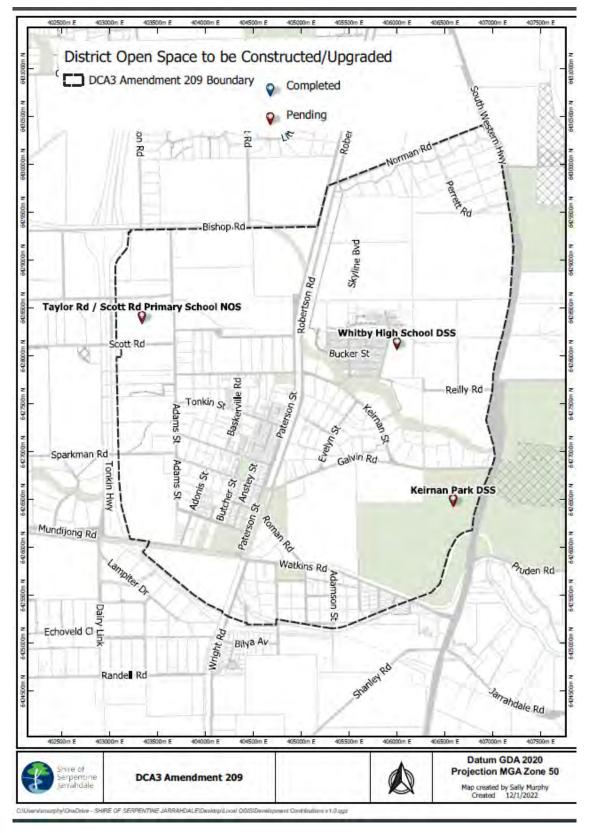


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## Mundijong-Whitby Urban Traditional Infrastructure Development Contribution Plan Report

#### Figure 4 – District Open Space to be constructed/upgraded



# **Appendices**

Shire of Serpentine Jarrahdale

Appendix A: Cost Apportionment Schedule

#### Previous Revision

Variance prev rev

Cost Apportionment Sche			А	В	с	D	E	F	G
<b>Revision Number</b>	1	Residential - Starting Contribution Per Lot	\$11,217.16						
Revision Date		Residential Daily Index Value	\$0.8446						
Ave Res Lot Size		Non-Res - Starting Contribution per m2	\$32.05						
Status	Final	Non-Res Daily Index Value	\$0.0024						

Index values:	FC IER	2.80%
WALGA Economic Briefing - March	FC LVER	2.50%
2023	FC AER	3.80%

	Land	l Value	LVDER
Residential	\$	30.00	\$0.002
Non Residential	\$	30.00	\$0.002

			<i>\$610024</i>							4								
		Infrastruct	ure Plan Estimates						Dwelling Yields		Contribution Breakdown per Lot							
item Name	Escalation Category	Completion_Date	Total Project Cost	Less Grants / Other	Less Shire Share	Completed To Date	Remaining Project Cost this DCP Rev	Contributing Precincts	Total Contributing Lots	Remaining Contributing Lots	By Item	Precinct A			·			
						-												
Reconciliation	n/a		\$0				\$0	A	8459	8459	\$0.00	\$0.00						
Land_LSP (POS)	LVER		\$19,325,850	\$0		\$0		A	8459	8459	\$2,284.57	\$2,284.57						
Land_Infra (DOS_Roads)	LVER		\$5,165,670	\$0				A	8459	8459	\$610.65	\$610.65						
Administration	AER		\$1,400,472	\$0		\$0		A	8459	8459	\$165.55	\$165.55						
Water Monitoring	AER	2038	\$1,031,650	\$0		\$0		A	8459	8459	\$121.95	\$121.95					L	1
Whitby High School DSS (Reilly Rd)	IER	2035	\$4,328,000	\$0		\$0		A	8459	8459	\$511.63	\$511.63					L	4
Taylor Rd/Scott Rd Primary School NOS	IER	2033	\$4,328,000	\$0		\$0		A	8459	8459	\$511.63	\$511.63					<b> </b>	
Keirnan Park DSS - 1b: Ovals	IER	2034	\$4,295,984	-\$1,288,290 \$0	\$0	\$0		A	8459	8459	\$355.55 \$1,349.52	\$355.55					<b> </b>	<u> </u>
Bishop Road East	IER	2028	\$11,415,959 \$11,692,334	\$0 \$0	\$0	\$0		A	8459 8459	8459 8459	\$1,349.52	\$1,349.52					<b>I</b>	
Taylor Road Town Centre Distributor Road		2027 2028		\$0		\$0 \$0		A	8459	8459 8459	\$1,382.19 \$2,067.05	\$1,382.19 \$2,067.05					<b>I</b>	
North South Road	IER	2028	\$17,485,755 \$6,822,168	\$0				A	8459	8459 8459	\$2,067.05 \$806.47	\$2,067.05 \$806.47					<b>I</b>	
Skyline Boulevard	IER	2031	\$6,822,168 \$2,734,156	\$0		\$0 \$0		A	8459	8459 8459	\$323.21	\$806.47 \$323.21					<u> </u>	
Tinspar Avenue	IER	2033 2036	\$2,734,156 \$6,151,575	\$0 \$0		\$0 \$0		A	8459	8459 8459	\$323.21 \$727.20	\$323.21 \$727.20					<u> </u>	
Tinspar Avenue	IER	2036	\$0,151,575	ŞU	ŞU	ŞU	\$0,151,575	A	8459	6459	\$727.20	\$727.20					<u> </u>	
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# Appendix B: Example Calculations

EXAMPLE CALCULATIONS: Note, for simplicity, daily indexing has not been applied to the below examples.

DCA:	DCA3_
Report Revision:	1

Example 1

A residential subdivision creating 50 lots within Precinct A, with one existing parent lot:

Precinct	Development Contribution Rate per lot/dwelling	Number of additional lots/dwellings	Total development contribution	Calculation
А	\$11,217.16	49	\$549,640.61	\$11,217.16 x (50 - 1) = \$549,640.61

### Example 2

A residential subdivision in Precinct A, creating 50 lots, with one existing parent lot AND providing 10,000 m2 of creditable public open space / drainage residential land)

Note: creditable land must be cleared before, or at the same time, as the lot clearance in order to be offset against contributions due. Credits that are not yet earnt/cleared cannot be used to offset Contributions due.

Precinct	Development Contribution Rate per lot/dwelling	Number of additional lots/dwellings	Total development contribution	Calculation
А	\$11,217.16	49	\$549,640.61	\$11,217.16 x (50 - 1) = \$549,640.61
Public open space credit	m2 of land being provided	Land value per m2	Credit amount	Calculation
	10,000	\$30.00	\$300,000.00	\$10,000.00 x 30 = \$300,000.00
		Total net development contribution	\$249,640.61	\$549,640.61 - \$300,000.00 = \$249,640.61

### Example 3

A non-residential subdivision creating a 4000m<sup>2</sup> lot within Precinct A

Precinct	Development Contribution Rate per m2	Parent Lot Discount	Total development contribution	Calculation
А	\$32.05	N/A	\$128,196.06	(\$32.05 x 4,000m2)= \$128,196.06
		#REF!		

# Appendix C: Capital Expenditure Plan

Program Schedule		DCA3_	View Year	2023																								
Mundijong Whitby Urban Trad	litional DCP						Legend T	odey																				
Revision Number:		1					0	(P End																				
Note: Commencement date is reflectiv	ve of commencing design stage, not construct	tion stage.					DCP Year	a.a?s		2023	2024	202	2021	6	2027	2028	2029	2090	1021	205	22	2022	2034	2015	2036	2097	2038	2039
		AIRCNED	Amendment Time Inc. (%n)	17467 B				Raise.																				
Keiman Park Dili - 11: Ovak	First Oval	12 Dig	14			425 5	1,208,077																			و بد بد بد بد بد بد	د بر ادر این این این این این ا	
Town Centre Distributor Road	aka Whitby New Rd	Developer					18,547,355	2,5																				
Taylor Road	and writing new No	Developer	610	hills in		10016 6	454,500	1.5																				
Skyline Boulevard	Sapwood Gr to Heartwood Mud	Developer	610	San Hi bu	426	34% 4	678,565																					
Rishop Road East		Developer	1.6	half in		100% 4	11,786,459	1.2																				
North South Road		Developer					7,224,168	1.0																				
Taylor Rd/Scott Rd Primary School NOS		Developer	11.15	in 22 h		100% 5	5.528.000	40.0																				
Skyline Boulevard	Heartwood Blvd to New Whitby Rd	Developer	610	540.27 bi	420 3	26% \$	2.111.091		**																			
Tinspar Avenue		Developer	610		n ki s	100% 5	6,327,075	1.1	-																			
Whitby High School DSS (Reilly Rd)	Shared with CIDCP	Developer	11.15	h.(22) IN			5.512.420	29.5																				
Keiman Park DSS - 18: Ovak	Second Oval	Shire	11-15	M23 M	424 4	67% <b>5</b>	1.804.616																					
Water Monitoring	Year 0 (2027)- set up	Shire		Feb 27 Ja	- 18		216,250																					
Water Manitaring	Year 1	Shire		Feb 28 Jac			82,040																					
Water Manitoring	Tear 2	Shire		Feb 29	n 22		82,040																					
Water Monitoring	Year 3	Shire		Feb 20 Jac	e 25	5	82,040																					
Water Monitoring	Tear 4	Shire		Feb 21 Jac	n 22	5	82,040																					
Water Monitoring	Year S	Shire		Feb 22 Jac	n 22	5	82,040																					
Water Monitoring	Tear 6	Shire		Feb 22 Jac		5	82,040																					
Water Manitaring	Tear 7	Shire		Feb 24 Jan	n 25	5	82,040																					
Water Manitaring	Year 8	Shire		Feb 25 Ja	n 16	5	82,040																					
Water Manitaring	Year 9	Shire		Feb 26 Ja	n 27	5	82,040																					
Water Manitaring	Year 10	Shire		Feb 27 Ja	n 28	5	77,040																					
interl new cases ABCME this are																												

# Appendix D: Infrastructure Designs

Not applicable

# Appendix E: Schedule of Costs - Land for Infrastructure (Roads & District Open Space)

### Infrastructure Land - Estimated and Completed

DCA:	DCA3_	Residential Land Value (this revision):	\$30.00
Report Revision:	1	Non-Residential Land Value (this revision):	\$30.00

		ESTIMATED TOTA	L Infra Land m2			COMPLETE	D Infra Land m2		REMAINING Infra Land m2				ESTIMAT	ED TOTAL Land \$			COMPLE	TED Land \$			REMAININ	G Land \$		
Infrastructure Item:	Residential	Non-Residential		Var previous Revision	Residential	Non- Residential	Total	Var previous Revision	Residential	Non- Residential	Total	Var previous Revision	Residential	Non- Residential	Total	Var previous Revision	Residential	Non- Residential	Total	Var previous Revision	Residential	Non- Residential	p	Var previous Revision
Totals:	172,189	-	172,189	172,189	-	-	-	-	172,189	-	172,189	172,189	\$5,165,6	70 \$	i0 \$5,165,67	\$5,165,670	\$0	\$0	\$	D \$0	\$5,165,670	\$0	\$5,165,670	\$5,165,670
Whitby High School DSS (Reilly Rd	39,514	-	39,514		-	-	-	0	39,514.00	-	39,514		\$1,185,4	20 \$	0 \$1,185,42		\$0	\$0	\$	D \$0	\$1,185,420	\$0	\$1,185,420	
Taylor Rd/Scott Rd Primary Schoo	40,000	-	40,000	40,000	-	-	-	0	40,000	-	40,000	40,000	\$1,200,0	)0 \$	i0 \$1,200,00	\$1,200,000	\$0	\$0	\$	D \$0	\$1,200,000	\$0	\$1,200,000	\$1,200,000
Keirnan Park DSS - 1b: Ovals	-	-	-	0	-	-	-	0	-	-	-	0		50 Ş	i0 \$I	\$0	\$0	\$0	) \$	D \$0	\$0	\$0	\$0	\$0
Bishop Road East	12,450	-	12,450	12,450	-	-	-	0	12,450	-	12,450	12,450	\$373,5	)0 \$	0 \$ <b>373,50</b>	\$373,500	\$0	\$0	\$	D \$0	\$373,500	\$0	\$373,500	\$373,500
Taylor Road	15,000		15,000		-	-	-	0	15,000	-	15,000		\$450,0	)0 \$	0 \$450,00		\$0	\$0	\$		\$450,000	\$0	\$450,000	
Town Centre Distributor Road	36,150	-	36,150	36,150	-	-	-	0	36,150	-	36,150	36,150	\$1,084,5	)0 \$	i0 \$1,084,50	\$1,084,500	\$0	\$0	\$	D \$0	\$1,084,500	\$0	\$1,084,500	\$1,084,500
North South Road	13,000	-	13,000	13,000	-	-	-	-	13,000	-	13,000	13,000	\$390,0	)0 \$	i0 \$390,00	\$390,000	\$0	\$0	) \$	D \$0	\$390,000	\$0	\$390,000	\$390,000
Skyline Boulevard	7,800	-	7,800		-	-	-	0	7,800	-	7,800		\$234,0	)0 \$	0 \$234,00	\$234,000	\$0	\$0	\$	D \$0	\$234,000	\$0	\$234,000	
Tinspar Avenue	8,275	-	8,275	8,275	-	-	-	0	8,275	-	8,275	8,275	\$248,2	50 \$	i0 \$248,25	\$248,250	\$0	\$0	\$	D \$0	\$248,250	\$0	\$248,250	\$248,250
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# Appendix F: Schedule of Costs - Land for Public Open Space & Drainage

#### POS Completed and Remaining

DCA:	DCA3_	Residential Land Value (this revision):	\$30.00
Report Revision:	1	Non-Residential Land Value (this revision):	\$30.00

		ESTIMATED TO	OTAL Land m2			COMPLETE	D Land m2			REMAININ	IG Land m2		Г		ESTIMATED	TOTAL Land \$			COMPLE	TED Land \$			REMAINING	i Land \$	
													Г				Var				Var				Var
		Non-		Var previous				Var previous		Non-		Var previous		1	Non-		previous		Non-		previous		Non-		previous
Structure Plan Areas	Residential	Residential	Total	Revision	Residential	Non-Residential	Total	Revision	Residential	Residential	Total	Revision	F	Residential	Residential	Total	Revision	Residential	Residential	Total	Revision	Residential	Residential T	otal	Revision
Totals:	644,195		644,195	644,195	-	-	-	-	644,195	-	644,195	644,195	Г	\$19,325,850	\$0	\$19,325,850	\$19,325,850	\$0	\$0	\$	\$0	\$19,325,850	\$0	\$19,325,850	\$19,325,850
	-	-											Г												

	ESTIMATED TOTAL Land m2	COMPLETED Land m2
		Non-Residential Land Value (this revision):
Previous DCP Revision Comparison	DCP 0	Residential Land Value (this revision):

		ESTIMATED T	OTAL Land m2		COMPLETE	D Land m2		REMAININ	G Land m2			ESTIMATE	D TOTAL Land S			COMPLE	TED Land \$			REMAINI	ING Land Ş	
		Non-						Non-		F		Non-				Non-				Non-		
Structure Plan Areas	Residential	Residential	Total	Residential	Non-Residential	Total	Residential	Residential	Total		Residential	Residential	Total		Residential	Residential	Total		Residential	Residential	Total	_   I
Totals:	-	-	-		-	-	-	-	-		\$	0 \$	D	\$0	ŞI	\$0	\$0	D	\$	0 \$	0	\$0

# Appendix G: Schedule of Costs – Infrastructure to be constructed/upgraded

### Infrastructure Construction - Estimated and Completed

	ESTIMATED TO	AL Infra Cost this	DCP Revision	Var previous	
Infrastructure Item:	Completed	Remaining	Total	Revision	% change
Totals:	\$0	\$67,965,640	\$67,965,640	\$67,965,640	
Whitby High School DSS (Reilly Rd)	\$0	\$4,328,000	\$4,328,000	\$4,328,000	
Taylor Rd/Scott Rd Primary School NOS	\$0	\$4,328,000	\$4,328,000	\$4,328,000	
Keirnan Park DSS - 1b: Ovals	\$0	\$3,007,693	\$3,007,693	\$3,007,693	
Bishop Road East	\$0	\$11,415,959	\$11,415,959	\$11,415,959	
Taylor Road	\$0		\$11,692,334	\$11,692,334	
Town Centre Distributor Road	\$0	\$17,485,755	\$17,485,755	\$17,485,755	
North South Road	\$0	\$6,822,168	\$6,822,168	\$6,822,168	
Skyline Boulevard	\$0	\$2,734,156	\$2,734,156	\$2,734,156	
Tinspar Avenue	\$0	\$6,151,575	\$6,151,575	\$6,151,575	

# Appendix H: Schedule of Costs – Administration

Fiscal Year	2023				
	0000				
Report Revision	1	DCP Stort	Date this Revision	DCP End	
ADMINISTRATION COSTS Budget FY 2023	DCA3_			23/05/2038	

Mundijong-Whitby Urban Traditional Infrastructure DCP	2023	Remaining	Spend	(See Table 4)	Spend
Legal Expenses	\$4,000.00	14.85	\$59,400.00		
Advertising, Promotion & Consultancy	\$3,000.00	14.85	\$44,550.00		
DWMS Review	\$0.00	14.85	\$0.00		
Wages Totals (See Table 1)	\$40,325.60	14.85	\$598,835.19		
Sub Total	\$47,325.60	14.85	\$702,785.19	\$697,686.87	\$1,400,472.06
Change from previous year (see Tables 2 and 3)	\$1,513	-\$0	\$15,599	\$697,687	\$713,286

Table 1 - Budget allocations current FY
---

Budget FY 2023	DCA1_	DCA2_	DCA3_	DCA4_	Totals
Legal Expenses	\$4,000	\$4,000	\$4,000	\$4,000	\$16,000
Advertising, Promotion & Consultancy	\$3,000	\$3,000	\$3,000	\$3,000	\$12,000
DWMS Review	\$0	\$0	\$0	\$0	\$0
Wages Totals (see below allocations)	\$80,651	\$13,441	\$40,326	\$134,418	\$268,836
Sub Totals	\$87,651	\$20,441	\$47,326	\$141,418	\$296,836
Change from previous year	-\$48,723	-\$25,370	\$1,513	\$80,972	\$8,391
Salary allocations	30% of FTE	5% of FTE	15% of FTE	50 % of FTE	Total FTE
Technical Specialist Infrastructure Contributions (DCP Coordinator)	0.30	0.050	0.150	0.500	1.000
Director Development Services	0.03	0.005	0.015	0.050	0.100
Coordinator Strategic Planning	0.02	0.003	0.008	0.025	0.050
Manager Strategic Planning	0.03	0.005	0.015	0.050	0.100
Manager Engineering Services	0.01	0.001	0.003	0.010	0.020
Engineering Development Lead	0.01	0.002	0.005	0.015	0.030
Engineering Design Lead	0.01	0.001	0.003	0.010	0.020
Infrastructure Projects Lead	0.01	0.001	0.003	0.010	0.020
Manager Major Projects	0.01	0.001	0.003	0.010	0.020
Senior Project Engineer	0.01	0.001	0.003	0.010	0.020
Manager Finance	0.03	0.005	0.015	0.050	0.100
Management Accountant	0.03	0.005	0.015	0.050	0.100
Einancial Accountant	0.06	0.010	0.030	0.100	0.200

Table 4	
DCA	DCA3_
Developer	(All)
Development Name	Administration
Report Revision	(All)
Row Labels	Administration spend to date
2022	-\$651,874.87
Setup Costs	-\$652,295.42
Up to end FY21/22	\$420.55
2023	-\$45,812.00
Set up costs - Admin costs (budget) 2022/23 - TBC	-\$45,812.00
Grand Total	-\$697,686.87

No Match

Table 2 - Administration Costs Previous FY					
ADMINISTRATION COSTS	DCA3_				
Report Revision	0				
Fiscal Year	2022				
				Spent to Date (See	Total Forecast
Mundijong-Whitby Urban Traditional Infrastructure DCP	Budget FY 2022	Years Remaining			Total Forecast Spend
Mundijong-Whitby Urban Traditional Infrastructure DCP Legal Expenses	Budget FY 2022 \$4,000.00		Remaining Spend	Table 3)	
		15.00	Remaining Spend \$60,000.00	Table 3)	

Table 3 - Budget allocations previous FY			4		
Budget FY 2022-23	DCA1	DCA2	DCA3	DCA4	Totals
Legal Expenses	\$4,000	\$4,000	\$4,000	\$4,000	\$16,000
Advertising, Promotion & Consultancy	\$3,000	\$3,000	\$3,000	\$0	\$9,000
DWMS Review	\$0	\$0	\$0	\$0	\$0
Wages Totals (see below allocations)	\$129,375	\$38,812	\$38,812	\$56,446	\$263,445
Sub Totals	\$136,375	\$45,812	\$45,812	\$60,446	\$288,445
Salary allocations	Total FTE	50% of FTE	15% of FTE	15% of FTE	20 % of FTE
Technical Specialist Infrastructure Contributions (DCP Coordinator)	1.00	0.50	0.150	0.150	0.200
Director Development Services	0.10	0.05	0.015	0.015	0.020
Coordinator Strategic Planning	0.05	0.03	0.008	0.008	0.010
Manager Strategic Planning	0.10	0.05	0.015	0.015	0.020
Manager Engineering Services	0.02	0.01	0.003	0.003	0.004
Engineering Development Lead	0.03	0.02	0.005	0.005	0.006
Engineering Design Lead	0.02	0.01	0.003	0.003	0.004
Manager Project Delivery	0.02	0.01	0.003	0.003	0.004
Infrastructure Projects Lead	0.02	0.01	0.003	0.003	0.004
Senior Project Engineer	0.02	0.01	0.003	0.003	0.004
Manager Finance	0.10	0.05	0.015	0.015	0.020
Management Accountant	0.10	0.05	0.015	0.015	0.020
Financial Accountant	0.20	0.10	0.030	0.030	0.040

# Appendix I: Schedule of Costs – Water Monitoring

## Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong-Whitby Urban Traditional Infrastructure

Our Ref: E23/7712

		DCP1	
Summary of Costs:	Costed by	Date	Cost
Water Monitoring	Urbaqua	Jun-22	\$1,031,650
TOTAL (excl. GST)			\$1,031,650

## WATER MONITORING COSTS

Mundijong Whitby Urban Development Contribution Plan

Description	Hours Qty		-	Sample No. Qty	Sample runs/yr Qty	Cost Per Sample \$		Rate \$	Cost	Contingency 25%	Annual Cost (GST Excl)	Years	Total Cost (GST Excl)
Sampling Program Management													
Preparation of the RFQ/Tender, Tender Brief, Scope and Specification	120	1	\$200						\$24,000	\$6,000	\$30,000	1	\$30,000
Preparation of Sample and Analysis Plan (SAP)	20	1	\$100						\$2,000	\$500	\$2,500	1	\$2,500
Program management (incl updates to SAP as required)	50	1	\$200						\$10,000	\$2,500	\$12,500	10	\$125,000
Data Management (site and program registration, data entry, validation)	40	1	\$100						\$4,000	\$1,000	\$5,000	10	\$50,000
Preparation / assistance with report (Annual Report)	50	2	\$100						\$10,000	\$2,500	\$12,500	10	\$125,000
Total - Sampling Program Management									\$50,000	\$12,500	\$62,500		\$332,500
											-		
Water Analysis (20 GW & 10 SW sites)						T			• • • • •	<b>.</b>	•••••		• • • • • • •
Nitrogens (TN, TKN, NH4, NOx-N (NO3+NO2)) + TP + FRP				32	6		30		\$3,840	\$960		10	\$48,000
Dissolved Organic Nitrogen, DON				32	6		30		\$9,600	\$2,400	\$12,000	10	\$120,000
Total Dissolved Solids, TDS				32	6	25	30		\$4,800	\$1,200	\$6,000	10	\$60,000
Metals Set-up (Filtered)				32	1	12	30		\$384	\$96		10	\$4,800
Heavy Metals (Al, As, Cd, Cr, Cu, Fe, Pb, Ni, Zn & Hg)				32 32	1	70	30 30		\$2,240 \$1,280	\$560 \$320	\$2,800 \$1,600	10 10	\$28,000 \$16,000
Total Recoverable Hydrocarbons (TRH) Polycyclic Aromatic Hydrocarbons and BTEX				32	1	40 90	30 30		\$1,280	\$320 \$720		10	\$16,000 \$36,000
Total - Water Analysis	<u> </u>		<u> </u>	52		90	30		\$2,000 \$25,024	\$6,256	. ,	10	\$30,000 \$312,800
Total - Water Analysis									Ψ <b>Ζ</b> Ϳ,0Ζ4	φ0,230	φ31,200		<b>\$312,000</b>
Sediment Analysis (10 sites)						-							
Total Recoverable Hydrocarbons (TRH) & BTEX				12	1	40	10		\$480	\$120		10	\$6,000
Polycyclic Aromatic Hydrocarbons (PAH)				12	1	90	10		\$1,080	\$270		10	\$13,500
Metals Set-up				12	1	14	10		\$168	\$42		10	\$2,100
Heavy Metals (Al, As, Cd, Cr, Cu, Fe, Pb, Ni, Zn & Hg)				12	1		10		\$840	\$210			\$10,500
Moisture (no charge with metals)				12	1	0	10		\$0	\$0	ų -	10	\$0
Total - Sediment Analysis									\$2,568	\$642	\$3,210		\$32,100
Analysis - Other													
Troll 9500 Profiler XP (in-situ analysis)	<u> </u>				1	<b>I</b>	1	\$20,000	\$20,000	\$5,000	\$25,000	1	\$25,000
Consumables (incl. nitrile Gloves)					6			<u>φ20,000</u> \$100	\$600	<u>\$150</u>		10	\$7,500
Equipment hire (pumps etc)					6			\$300		\$450		10	\$22,500
Courier fees					6			\$40	\$240	\$60		10	\$3,000
Total - Analysis - Other						<u>.</u>		• ·	\$22,640	\$5,660	\$28,300		\$58,000
Superficial Groundwater Monitoring (20 sites)			_				_						
Installation of monitoring wells for superficial aquifer monitoring (average 3m depth, includes survey & development)							20	\$4,000	\$80,000	\$20,000	\$100,000	1	\$100,000
Monitor local superficial aquifer groundwater levels (Monthly) - Labour incl travel between sites	0.25	1	200		12		20		\$12,000	\$3,000	\$15,000	1	\$15,000
Monitor local superficial aquifer groundwater quality (Quarterly) -			0.0.5		<u> </u>				<b>*</b> • • • •	<b>*</b> · -			<b>A-------------</b>
Labour incl travel between sites	0.25	1	200		4		20		\$4,000	\$1,000	\$5,000	10	\$50,000
Monitor local superficial aquifer groundwater levels (Quarterly) - Labour incl travel between sites	0.25	1	200		4		20		\$4,000	\$1,000	\$5,000	9	\$45,000
Total - Superficial Groundwater Monitoring									\$100,000	\$25,000	\$125,000		\$210,000
									. ,				
Surface Water Monitoring													
Purchase & installation of surface water level loggers - 7 sites							7	\$5,000	\$35,000	\$8,750		1	\$43,750
Monitor flows in Multiple Use Corridors - labour - 7 sites	0.25	1	200		4		7		\$1,400	\$350		10	\$17,500
Monitor quality in Multiple Use Corridors - labour - 10 sites	0.25	1	200		4		10		\$2,000	\$500	. ,	10	\$25,000
Total - Surface Water Level Monitoring									\$38,400	\$9,600	\$48,000		\$86,250
									<b>\$600</b>				<b>#4 004 070</b>
Total - Water Quality Management									\$238,632	\$59,658	\$298,290		\$1,031,650

# Appendix J: Cost Review Reconciliation Adjustment

### **Cost Review Reconciliation**

DCA: Report Revision:

DCA3\_

1

Lots Cleared	-
Gross Contributions	\$0
Land for Roads/DOS settled	\$0
Land for POS settled	\$0
Works settled	\$0
Administration Costs incurred	\$0
Total Costs	\$0
Net Contribution Surplus/Deficit for Review Period	\$0

This data reflects up to the end of the previous revision, does not include data from current revision or lots carried over (cleared under a pending Amendment) - see Appendix K for more details on lots carried over

The DCP is intended to be "break-even" at its ultimate closure, i.e. the net contribution at the end of the DCP life should be zero (monies collected equal monies expended). In order to support this end target of zero, the Surplus or Defecit present at the end of each revision, is used to adjust the contribution values in the next revision.

For example, a Surplus at the end of a revision would result in a "credit" (or cost reduction) in the next DCP Report revision - thus reducing the contribution value. Likewise a defecit would result in a cost increase (cost addition) to the next DCP Report, for the equivalent value - thus increasing the contribution value.

This can be seen in the Cost Apportionment Schedule, referenced as "Reconciliation".

### The Net Contribution for this revision represents a SURPLUS in the DCP

This means that the Contributions collected for the DCP so far, have exceeded the monies spent (at the closure of the last DCP Revision).

This surplus value is included in the Cost Apportionment Schedule as a CREDIT to the costs of the DCP (i.e. a cost reduction) in the "Reconciliation" line, in order to bring the balance back towards zero.

# Appendix K: Lots Completed and Remaining

### Lots Completed and Remaining

DCA:	DCA3_
Report Revision:	1

_	ESTIMATED TOTAL LOTS	COMPLETED LOTS	ESTIMATED REMAINING LOTS	Lots Cleared under Amendment (to be carried over into the this next revision)
Totals:	8,459	-	8,459	429
Whitby Estate - Precinct A	2,512	-	2,512	425
Keirnan Street - Precinct B	-	-	-	-
Watkins Road North - Precinct C	-	-	-	-
Watkins Road South - Precinct D	-	-	-	-
Taylor Road / Adams Street - Precinct E1	1,261	-	1,261	-
L50 Cockram St & L119 Sparkman Rd - Precinct E2	574	-	574	-
L9503 Mundijong Road - Precinct E3	-	-	-	-
Mundijong Town Centre - Precinct F	-	-	-	4
Mundijong North - Precinct G1	2,945	-	2,945	-
Keirnan Street - Precinct G2	230	-	230	-
Lang Road - Precinct G3	-	-	-	-
Area A Adjustment	937	-	937	-

# Appendix L: Land Valuation



### **Executive Summary**

Property Address:	Mundijong-Whitby Traditional Infrastructure DCP – Development Contribution Area 3 (DCA3).						
General Description:	<ol> <li>The subject of our valuation comprises notional englobo landholdings zoned as follows:</li> <li>"Residential R25"</li> <li>"Mixed Use / R60"</li> </ol>						
	Both scenarios assume the land comprises a 5.0ha parcel that requires servicing but is within close proximity to services so there are no major servicing constraints and no major geotechnical/environmental issues.						
Purpose of Valuation:	Annual Scheme Contribution purposes.						
Valuation:	"Residential R25" Land Rate - \$30.00/m <sup>2</sup>						
	"Mixed Use / R60 Land Rate - \$30.00/m <sup>2</sup>						
	The above values assume the land comprises a 5ha parcel that requires servicing but is within close proximity to services so there are no major servicing constraints and no major geotechnical/environmental issues.						
	The above values are stated <b>inclusive of GST</b> and have considered a discount of 2.5% including GST, being an allowance for selling costs (sales commission, marketing and legal costs).						
	Our valuation has assumed that there is no significant change in market conditions between the date of inspection and the date of valuation.						
Date of Inspection:	25 November 2022.						
Date of Valuation:	1 February 2023.						
Senior Valuer:	<u>David Molony</u> AAPI, B.Com (Property & Finance) Certified Practising Valuer Licensed Valuer No. 44387 Western Australia						

This Executive Summary is a brief synopsis of the property and our assessment of market value.

It is designed to provide a brief overview and must not be read in isolation, separate from our formal valuation report.

### Definition of "Market Value":

The International Valuation Standards Council (and as adopted by the Australian Property Institute) defines Market Value in the *International Valuation Standards 2022* as:

"The estimated amount for which an asset or liability should exchange on the valuation date between a willing buyer and a willing seller in an arm's length transaction, after proper marketing and where the parties had each acted knowledgeably, prudently and without compulsion."

### Assumptions, Conditions and Limitations:

The market is being impacted by the uncertainty caused by the COVID-19 pandemic. As at the date of valuation we consider that there is market uncertainty resulting in significant valuation uncertainty.

This valuation is therefore reported on the basis of 'significant valuation uncertainty'. As a result, less certainty exists than normal and a higher degree of caution should be attached to our valuation than normally would be the case. Given the unknown future impact that COVID-19 might have on markets, we recommend that the user(s) of this report review this valuation periodically.

This valuation is current at the date of valuation only. The value assessed herein may change significantly and unexpectedly over a relatively short period of time (including as a result of factors that the valuer could not reasonably have been aware of as at the date of valuation). We do not accept responsibility or liability for any losses arising from such subsequent changes in value.



- The planning and cadastral details obtained from the Department of Planning, Lands & Heritage, Main Roads Western Australia, Landgate and Local Authority websites are current and correct.
- Adjoining land owners or community groups do not impede or restrain development as foreseen.
- We are not aware of any Notices currently issued against the property and we have made no enquiries in this regard.
- Our valuation assumes there is no asbestos contamination.

We must point out however, that we are not experts in the detection or quantification of asbestos problems and accordingly, have not carried out a detailed investigation. Therefore, this valuation is made on the assumption that there are no actual or potential asbestos contamination issues affecting the subject property.

Should a subsequent investigation undertaken by a suitably qualified expert show that the site is contaminated, we reserve the right to amend our valuation accordingly.

The value and utility of land can be adversely affected by the presence of Aboriginal sacred sites and/or sites of Aboriginal heritage significance. We have made no investigations in this regard, as Aboriginal requirements can only be determined by the appointment of an appropriate expert.

Under these circumstances, we cannot warrant that there are no such sites on the land and if it is subsequently determined that the realty is so affected, we reserve the right to review this valuation.

- The land is assumed to comprise topsoils which are relatively free draining, however as no geotechnical investigations have been either undertaken or commissioned, we are unable to report on the underlying nature of the site.
- This market valuation assumes there is no environmental contamination of the property.
- This market valuation assumes there is no encroachment of adjoining buildings onto the subject property.
- This market valuation assumes an unencumbered fee simple title to the property.
- If there are any encumbrances, encroachments, restrictions, leases or covenants which are not noted in this report, they may affect the assessment of market value. If any such matters are known or discovered, we should be advised and asked as to whether they affect our assessment of market value.
- We have assumed that all information supplied in conducting this market valuation consists of a full and accurate disclosure of all information that is relevant.
- It is assumed that no significant event occurs between the date of inspection and the date of valuation that would impact on the market value of the subject property.
- We have not obtained a Property Interest Report in providing our advice. A property-specific report will provide detailed information of property interests not listed on the Certificate of Title that may affect the use and enjoyment of the land.

A report can be obtained from Landgate for a charge of \$54.95 (incl. GST). If a subsequent Property Interest Report reveals any aspects of the property that may impact on its value, we reserve the right to review our market valuation.

If there is any variance/contradiction in any of the above assumptions, then we reserve the right to review this market valuation accordingly.

\*\*\*\*\*\*\*



### 16.0 VALUATION CONCLUSIONS

In considering suitable lands rate for the subject hypothetical parcels, we are of the opinion the following factors require due regard in this instance.

- > The properties comprise notional parent parcels of 5.00ha.
- It is assumed the land requires servicing but is within close proximity to services so there are no major servicing constraints.
- It is assumed there are no major geotechnical/environmental issues.
- > The DCP Area is within its infant stages with limited urban development in the local area.
- > The first scenario assumes a relatively low notional density coding of "Residential R25".
- The second scenario assumes a broader scope for development as "Mixed Use / R60".
- Whilst finished lot values have generally appreciated in recent years, civil development costs have escalated rapidly which is having an associated negative impact on project feasibility.
- The "Mixed Use / R60" product is untested in the subject location and in our opinion offers no significant premium above and beyond traditional residential densities. We anticipate this could change as the area develops and the catchment matures.

### Value per m<sup>2</sup> for Standard Residential/Non-Standard Residential:

Based on our analysis we have adopted a rate of **\$30.00/m<sup>2</sup>** including GST. This takes into consideration the 2.5% discount applicable for selling costs (sales commission, marketing and legal costs).

The above rate is current as at 1 February 2023.

Our valuation has assumed that there is no significant change in market conditions between the date of inspection and the date of valuation

### Value per m<sup>2</sup> for Non-Residential:

Based on our analysis we have adopted a rate of **\$30.00/m<sup>2</sup>** including GST. This takes into consideration the 2.5% discount applicable for selling costs (sales commission, marketing and legal costs).

The above rate is current as at 1 February 2023.

Our valuation has assumed that there is no significant change in market conditions between the date of inspection and the date of valuation

### Land Value Escalation Rate:

Based on current market conditions, we believe an indicative growth rate of **2.5%** is reasonable for the next 12 months.

David Molony AAPI, B. Com (Property & Finance) Certified Practising Valuer Licensed Valuer No. 44387 Western Australia

# Appendix M: Infrastructure Delivery Status Report

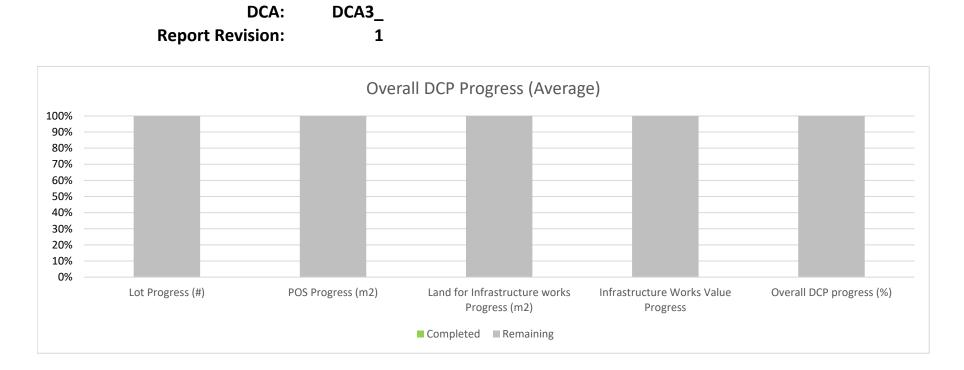
Development Contribution Area:	DCA3_	Infrastructure Delivery Status Report
Report Revision:	1	
Name of DCP:	Mundijong-Whitby Urban Traditional Infra	istructure DCP

This report reflects the estimated completion dates for infrastructure items. Delivery may be staged, and works may be ongoing throughout the life of the DCP.

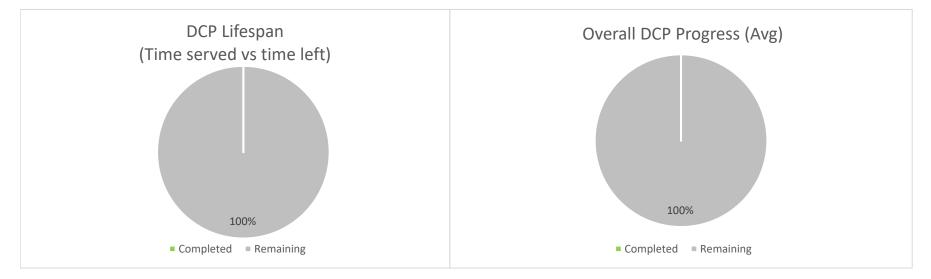
#### Summary of delivery of infrastructure

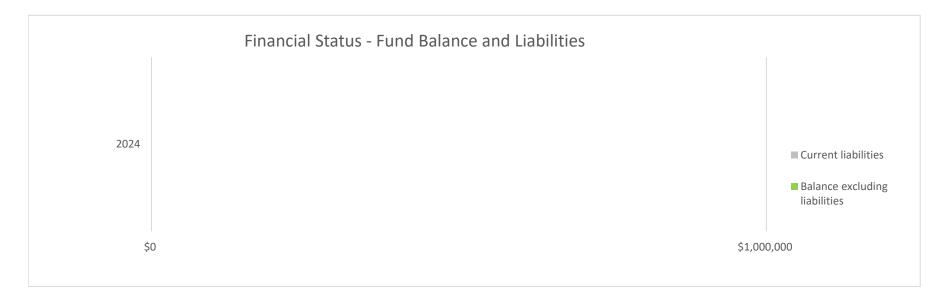
	Scheduled delivery Progress/status (%				% detail of fun	ding		% detail of funding			
Item of infrastructure	priority in previous DCP Revision	complete by \$ value)	Expected delivery	Grants	Shire		DCP	Grants	Shire	DCP	Notes (Highlighted Cells)
Whitby High School DSS (Reilly Rd)		0%	2035	\$-	\$ -	\$	4,328,000	0%	0%	100%	
Taylor Rd/Scott Rd Primary School NOS		0%	2033	\$-	\$-	\$	4,328,000	0%	0%	100%	
Keirnan Park DSS - 1b: Ovals		0%	2034	\$ 1,288,290	\$-	\$	3,007,693	30%	0%	70%	
Bishop Road East		0%	2028	\$-	\$ -	\$	11,415,959	0%	0%	100%	
Taylor Road		0%	2027	\$ -	\$-	\$	11,692,334	0%	0%	100%	
Town Centre Distributor Road		0%	2028	\$-	\$ -	\$	17,485,755	0%	0%	100%	
North South Road		0%	2031	\$-	\$-	\$	6,822,168	0%	0%	100%	
Skyline Boulevard		0%	2033	\$-	\$-	\$	2,734,156	0%	0%	100%	
Tinspar Avenue		0%	2036	\$ -	\$ -	\$	6,151,575	0%	0%	100%	

Appendix N: DCP Dashboard Summary



## **DCP Progress Summary Dashboard Report**





Ordinary Council Meeting - 17 July 2023

# Appendix O: Infrastructure Costings – full breakdown

## Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong-Whitby Urban Traditional Infrastructure

Our Ref: E22/14032

	DCP1							
Summary of Costs:	Costed by	Date	Cost					
Bishop Road (East) – Integrator B	Rawlinsons	Jun-23	\$11,415,959					
Taylor Road – Integrator B	Rawlinsons	Jun-23	\$11,692,334					
New Whitby Road (aka Town Centre Distributor								
Road) – Integrator B	Rawlinsons	Jun-23	\$17,485,755					
North-South Road – Integrator B	Rawlinsons	Jun-23	\$6,822,168					
Skyline Boulevard – Neighbourhood Connector A	Rawlinsons	Jun-23	\$2,734,156					
Tinspar Avenue – Neighbourhood Connector A	Rawlinsons	Jun-23	\$6,151,575					
Whitby High School District Sporting Space	Rawlinsons	Jun-23	\$4,328,000					
Taylor Road / Scott Road Primary School								
Neighbourhood Open Space	Rawlinsons	Jun-23	\$4,328,000					
	Shire 2021							
	Indexed 18% 2022							
Keirnan Park DOS Ovals	Indexed 5.1% 2023	Jun-23	\$3,007,693					
TOTAL (excl. GST)			\$67,965,640					



### Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section	Section Total	Road/ DOS Total
Code	Description	Quantity	UOM	Rate	Subtotal	Total	Section Lotal	Road/ DOS Total
A	ROAD - BISHOP ROAD (EAST)							
<u>A.A</u>	Road Construction							
<u>A.A.A</u>	Road Works							
	Earthworks and Site Preparation			<b>•</b> •	\$0			
A.A.A.1	Site Clearance (based on light shrubs)	37,761	m2	\$4	\$132,919			
	Removal of topsoil 150mm and stockpile for later re-	07 704		¢o	¢00.705			
A.A.A.2 A.A.A.3	use Cut to Fill - General Earthworks	37,761 17,843	m2 m3	\$2 \$8	\$60,795 \$146,848			
	Detailed excavation - mill and profile	14,161	m2	<del>ه</del> ۵ \$19	\$140,848 \$268,776			
A.A.A.5	Imported Fill	0	m3	\$30	Excl.			
	Form swale	7,553	m2	\$4	\$28,626			
	Subgrade Preparation	-			\$0			
A.A.A.7	Preparation, trim and compact	29,786	m2	\$6	\$163,823			
	Sub Base and Base Course				\$0			
	100mm thick crushed rock base course	32,853	m2	\$8	\$270,052			
A.A.A.9	250mm thick compacted limestone sub base	32,853	m2	\$17	\$574,270			
	Road Paving				\$0			
A A A 10	50mm thick (AC14)	28,321	m2	\$31	\$884,748			
A.A.A. 10		20,521	1112	\$31	4004, <i>1</i> 40			
A.A.A.11	Extra over for 2% red oxide	5,665	m2	\$6	\$35,293			
		-,		<b>+</b> -	+,			
A.A.A.12	Primer seal	28,321	m2	\$4	\$114,417			
	Kerbing				\$0			
A.A.A.13	Mountable Kerb (MK)	3,777	m	\$25	\$96,087			
				<b>A</b>				
A.A.A.14	Kerb openings	189	no	\$350	\$66,150			
	Carrai Mauratak la Karik (CNIK)	0 777		<b>\$</b> 20	¢111.000			
A.A.A.15	Semi Mountable Kerb (SMK)	3,777	m	\$30	\$111,988 \$0			
	Line Marking and Furniture				<b>Ф</b> О			
A.A.A.16	Line marking	7,553	m	\$6	\$47,886			
/	Landscaping	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ΨŬ	\$0			
					<b>+</b> -			
A.A.A.17	Soft landscaping	10,699	m2	\$0	Excl.			
A.A.A.18	Landscape mix	2,675	m3	\$90	\$240,750			
			_	<b>A</b>				
A.A.A.19	Rock pitching	630	m2	\$155	\$97,808			
A A A 20	Brainage laver	11 220	m2	\$0	Excl.			
A.A.A.20	Drainage layer Other	11,329	m2	<b>\$</b> 0	EXCI.			
A.A.A.21	Allow for connection to existing road		Item		\$10,000			
	TOTAL Road Works		Item		<i><b>↓</b>,</i>	\$3,351,235		
						, , , , , , , , , , , , , , , , , , , ,		
<u>A.A.B</u>	Shared Paths							
	Earthworks and Site Preparation							
A.A.B.1	Site Clearance (based on light shrubs)	4,721	m2	\$4	\$16,618			
	Removal of topsoil 150mm and stockpile for later re-							
A.A.B.2	use	4,721	m2	\$2	\$7,601			
	Cut to Fill - General Earthworks	1,417	m3	\$8	\$11,662			
A.A.B.4	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
A.A.B.5	Preparation, trim and compact	4,721	m2	\$6	\$25,966			
A.A.D.3	Pathway	4,721	1112	φΟ	\$25,900			
A.A.B.6	100 thick concrete footpath with broomed finish	4,721	m2	\$71	\$334,436			
	Sand fill below concrete footpath (100mm)	4,721	m2	\$5	\$25,777			
	TOTAL Shared Paths		Item		. ,	\$422,058		
<u>A.A.C</u>	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light			<b>A</b>	<b>A</b>			
A.A.C.1	cabling, excavation, and related overheads	98	no	\$3,442	\$337,289			
	6.5 DOR Street Light Pole incl. all conduits, light	49	20	\$5,111	¢250 429			
A.A.C.2	cabling, excavation, and related overheads TOTAL Street Lighting	49	no Item	φο, 111	\$250,438	\$587,727		
1			item			ψυσι,121		
A.A.D	Road Drainage							
<u> D</u>	450dia reinforced concrete pipe including excavation							
A.A.D.1	and backfill	1,709	m	\$233	\$398,282			
	150dia slotted PVC subsoil drainage pipe including							
A.A.D.2	aggregate, geofabric and porous sand	1,709	m	\$189	\$322,317			
								-



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
A.A.D.3	Side entry pits including liner, cover, excavation, and associated works	0	no	\$2,667	CESP mesured at intersections, RAB's			
4.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	57	no	\$3,021	\$172,173			
<u> A.A.E</u>	TOTAL Road Drainage Preliminaries and Project Costs		Item			\$892,773		
A.A.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$5,253,793	\$262,690			
A.A.E.2	Construction Costs) Project Owner's Cost (Planning and Design Costs)	15.0000 7.5000	%	\$5,253,793 \$5,253,793	\$788,069 \$394,034			
A.A.E.3 A.A.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs <b>TOTAL Road Construction</b>	10.0000	% Item	\$5,233,793 \$6,698,586	\$394,034 \$669,859	\$2,114,652	\$7,368,444	
<b>4.В</b> 4.В.А	<u>Hopkinson Road (T-Junction)</u> <u>Road Works</u> Earthworks and Site Preparation				¢0			
A.B.A.1	Site Clearance (based on light shrubs) Removal of topsoil 150mm and stockpile for later re-	1,611	m2	\$4	\$0 \$5,671			
A.B.A.2	use	1,611	m2	\$2	\$2,594			
А.В.А.З	Cut to Fill - General Earthworks	484	m3	\$8	\$3,983			
A.B.A.4	Imported Fill	0	m3	\$30	\$0			
A.B.A.5	Subgrade Preparation Preparation, trim and compact	1,611	m2	\$6	\$0 \$8,861			
A.B.A.6	Sub Base and Base Course 100mm thick crushed rock base course	1,563	m2	\$8	\$0 \$12,848			
4.B.A.7	250mm thick compacted limestone sub base	1,563	m2	\$17	\$27,321			
	Road Paving				\$0			
A.B.A.8 A.B.A.9	50mm thick (AC14) Extra over for 2% red oxide	1,371 180	m2 m2	\$31 \$6	\$42,830 \$1,121			
A.B.A.10	Primer seal Kerbing	1,371	m2	\$4	\$5,539 \$0			
A.B.A.11	Mountable Kerb (MK)	24	m	\$25	\$611			
A.B.A.12	Semi Mountable Kerb (SMK) Line Marking and Furniture	101	m	\$30	\$2,995 \$0			
A.B.A.13	Line marking	140	m	\$6	\$888			
A.B.A.14	Street sign post	1	no	\$122	\$122			
	Street name plate	2	no	\$199	\$398			
	Chevron sign	0	no	\$613	\$0			
A.B.A.17	Traffic sign Landscaping	2	no	\$450	\$900 \$0			
A.B.A.18	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
A.B.A.19	Trees (100I)	0	no	\$506	\$0			
A.B.A.20	Soft landscaping	0	m2	\$0	\$0			
	Landscape mix	83	m3	\$90	\$7,470			
	Rock pitching	15	m2	\$155	\$2,329			
ч.В.А.23	Drainage layer Other	0	m2	\$O	\$0			
A.B.A.24	Allowed for connection to Hopskins Road TOTAL Road Works		item Item		\$10,000	\$136,479		
<u>A.B.B</u> A.B.B.1	<u>Shared Paths</u> Earthworks and Site Preparation Site Clearance (based on light shrubs) Removal of topsoil 150mm and stockpile for later re-	252	m2	\$4	\$887			
A.B.B.2	use	252	m2	\$2	\$406			
A.B.B.3	Cut to Fill - General Earthworks	76	m3	\$8	\$625			
A.B.B.4	Detailed excavation - mill and profile	0	m3	\$19 \$20	\$0 \$0			
A.B.B.5 A.B.B.6	Imported Fill Subgrade Preparation Preparation, trim and compact	0 252	m3 m2	\$30 \$6	\$0 \$1,386			
	Pathway							
A.B.B.7	100 thick concrete footpath with broomed finish	252	m2	\$71	\$17,852	I I		I



ALB.B. ALB.B.Same file body correction (control : (control : ) in the marking122n08513 - 20A.B.D. 0 in the marking0n05830.465A.B.D.20 in the marking0n05850A.B.D.20 in the marking0n05850A.B.D.20 in the marking0n051050A.B.D.20 in the marking0n051050A.B.D.20 in the marking0n051050A.B.D.20 in the marking0n051050A.B.D.20 in the marking0n050050A.B.D.20 in the marking0n050050A.B.D.20 in the marking0n0500500A.B.D.20 in the marking0n0500500A.B.D.20 in the marking0n0500500A.B.D.20 in the marking0n0500500A.B.D.20 in the marking100n0500500A.B.D.20 in the marking server serve		QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
Let Muting and Fundame         Image         Fm         Fm         Fm         S0         A0           AB.B.11         Line matricing         0         nm         58         30         400           AB.B.12         Stored rains plate         0         nm         310         300         400           AB.B.12         Stored rains plate         0         nm         3100         3100         400           AB.B.13         Stored rains plate         0         nm         3100         300         300           AB.B.13         Stored rains plate         0         nm         3100         300         300           AB.B.13         Stored rains rains         0         nm         3100         300         325,827           Control         Stored rains         Stored rains         Stored rains         Stored rains         Stored rains           AB.B.13         Stored rains         Stored rains         Stored rains         Stored rains         Stored rains           Control         Stored rains         Sto									
A.B.B.12       Street same plate       0       no       3122       10         A.B.B.13       Street same plate       0       no       3192       30         A.B.B.14       Chorvern sign       0       no       3101       100         A.B.B.15       Tindie sign       33       no       3402       51,850         A.B.B.16       Matchine planter boxes (2m x 2m)       0       no       3508       30         A.B.B.16       Matchine planter boxes (2m x 2m)       0       no       3508       30         A.B.B.16       Matchine planter boxes (2m x 2m)       0       no       3508       30         A.B.C.1       A.S.D.16       Matchine planter boxes (2m x 2m)       4       no       81.422       113.707         A.B.C.1       A.S.D.16       Matchine planter boxes (2m x 2m)       120       mo       82.422       113.707       133.70         A.B.D.1       Matchine planter boxes (2m x 2m)       120       mo       82.23       127.966       133.707         A.B.D.2       Base Matchine planter boxes (2m k2m)       120       mo       82.23       127.966       133.707         A.B.D.2       Base Matchine planter boxes (2m k2m)       120       mo       120	A.B.B.10		2	no	\$973	\$1,945			
A.B.513       Buest name glaise       0       no       5189       50         A.B.514       Dreven sign       0       no       5513       50         A.B.515       Traffe sign       3       no       5413       50         A.B.515       Traffe sign       3       no       5420       51.500         A.B.515       Traffe sign       0       no       506       50         A.B.515       Traffe sign       0       no       506       50         A.B.515       Traffe sign       0       no       506       50         A.B.515       Traffe sign       0       no       500       50         A.B.515       Traffe sign       0       no       510       50         A.B.515       Traffe sign       0       no       510       50         A.D.       Traffe sign       0       no       513       52       513.767       513.767         S.B.500       S.B.500       no       15.000       no       52.877       53.33       53.209         A.D.       Traffe sign front control sign front motion control sign front motion control sign front motion control sign front motion control sign front motin control control sign front motin control control sig	A.B.B.11	Line marking	0	m	\$6	\$0			
A.B.B.14       Chevron sign       0       no       501       50         A.B.B.15       Triffe sign Landscapping       3       no       6450       51.00         A.B.B.16       Much to planter baxes (Dm Xm)       0       no       505       50         A.B.B.16       Soft indicapping       0       no       505       50       30         A.B.B.15       Soft indicapping       0       no       502       50       30         A.B.C.       Soft indicapping       0       no       50.4       510,767       511,767         A.B.C.       Soft indicapping       0       n       518       50,766       50         A.B.C.       Soft indicapping indicating exceenation, indicating exceenation, indicating exceenation, indicating exceenation, indicating exceenation, and porce sand soft indication indicatin indication indication indin indication indica	A.B.B.12	Street sign post	0	no	\$122	\$0			
A.B.B.15       Traffic sign Landscapping       3       no       \$400       \$1.300         A.B.B.15       MuOn to gleater boxes (2m x 2m)       0       m2       \$16       30         A.B.B.17       Trees (100)       0       m2       \$10       30       \$25,827         A.B.B.35       Set Instructions (107AL Street Lighting)       0       m2       \$0       \$0       \$25,827         A.B.C.       Section and Peak and Lil conduits, light A.B.C.       A       no       \$3,442       \$13,767       \$13,767         A.B.D.       Trees (100)       0       m       \$20       \$27,966       \$13,767         A.B.D.       Trees (100)       0       m       \$2,867       \$5,333       \$33,229         A.B.D.       Trees (100)       50       \$2,867       \$5,333       \$33,229         A.B.D.       Tree	A.B.B.13	Street name plate	0	no	\$199	\$0			
Landossping         Landossping         Landossping         Landossping         Landossping           AB.B.16         Much to primer boxes (2m x 2m)         0         no         150         50         50           AB.B.17         Trees (100)         0         no         702         800         50         50           AB.8.18         Soft Index sping         0         no         702         813.707         813.707           AB.2         Concentration of the spin bioluling excession         120         rm         8233         827.966         813.707           AB.2         State Proteined conners pipe including excession         nm         8109         813.707         813.707           AB.2         Read Drainage (per including excession         nm         8233         827.966         933.209           AB.2         State entry statinchuling iner, cover, excession, and and state entry statinchuling iner, cover, excession, and state entry state inclusion for the state	A.B.B.14	Chevron sign	0	no	\$613	\$0			
A.B.B.17       Trees (100)       0       no       5506       50         A.B.B.16       Soft landscoping       0       m2       50       50       50         A.B.       Soft landscoping       0       m2       50       50       50         A.B.       Status of three Light of the consults. (pht as 500 Since Light option and consults. (pht as 500 Since Light option and consults. (pht as 510 Since Light option and consult option Consults. (pht as 510 Since Light option and	A.B.B.15	-	3	no	\$450	\$1,350			
AB B 18       Soft indicaciping TOTAL. Shared Parts       0       nn2       30       S0       325,827         AB.C. AS.CO. Street Lighting to SOFT Street Lighting AB.C. 1       Soft indica contents light AB.C. 1       Soft indica contents light AB.D. 1       Soft indica content light AB.D. 1       Soft indica contents light AB.D. 1	A.B.B.16	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
Item         Item         Item         Set	A.B.B.17	Trees (100l)	0	no	\$506	\$0			
A.B.C. 1       cb:SOR Street Light Pole incl. all conducts, light A.B.C. 1       4       no       S3.442       \$13.767       \$13.767         A.B.D. 1       Boad Data methods exclusion       120       m       \$233       \$27.966         A.B.D. 2       Solid methods and damage poleholic attrop spie including exclusion       0       m       \$233       \$27.966         A.B.D. 3       Solid anterior of correct spie including exclusion       0       m       \$233       \$27.966         A.B.D. 3       Solid anterior of correct spie including incr, cover, excavation, and       0       m       \$266.77       \$55.333         A.B.D. 3       Solid anterior of cover so and       0       m       \$209.372       \$10.469         TOTAL Kead Dramage layer measured with indisciping TOTAL Read Dramage Teleninaries (indirect       5.0000       %       \$209.372       \$31.466         B.B.2       Project Costs       7.5000       %       \$209.372       \$31.466       \$247.27         A.B.5.2       Continues of Allowing and Design Costs in ToTAL Hopkinson Road (T-Juncion)       1.611       m2       \$4       \$5.671         A.B.6.2       Continues of Allowing and Design Costs in ToTAL Hopkinson Road (T-Juncion)       1.611       m2       \$24.925       \$24.946         A.B.6.2       India de Project Cost	A.B.B.18		0		\$O	\$0	\$25,827		
AB.0.1         450dia reinforced concrete pipe including 150dia solted PVC subsolit drainage pipe including AB.0.2         2323 approximate Side entry pits including incer, cover, excavation, and AB.0.3         20 motion         m         \$223 bit         \$27,966 bit         \$27,966 bit           AB.0.4         addressel works Drainage layer measured with landscaping TOTAL Road Drainage International Project Costs AB.E.1         5.0000         %         \$209,372         \$10,469           AB.E.2         Preliminaries and Project Costs Traffic Management         5.0000         %         \$209,372         \$31,466           AB.E.2         Orgen Amore Project Costs         7.5000         %         \$209,372         \$31,466           AB.E.4         Office Costs TOTAL Hopeinturities and Project Costs         7.5000         %         \$209,372         \$31,406           AB.E.4         Office Costs TOTAL Hopeinturities and Preliminaries (Indirect TOTAL Hopeinturities and Preliminaries (Indirect TOTAL Hopeinturities and Preliminaries and Preliminaries (Indirect TOTAL Hopeinturities andirect (Indirect TOTAL Hopeinturities and Preliminaries (Indirec		6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	4		\$3,442	\$13,767	\$13,767		
A.B.D.1       and backfill       120       m       \$233       \$27,966         A.B.D.2       aggregate, geolobic and porous sand Side entry bit including incre, cover, exevation, and associated works       0       m       \$189       \$0         A.B.D.3       associated works       0       m       \$189       \$0         A.B.D.4       bit indicaciping       0       m       \$189       \$0         A.B.D.3       associated works       0       m       \$2.677       \$5.333         A.B.E.1       Triffic Management       5.0000       %       \$2.08,372       \$10.469         A.B.E.2       Construction Costs       15.0000       %       \$2.08,372       \$15.703         A.B.E.2       Construction Costs       15.0000       %       \$2.08,372       \$15.703         A.B.E.2       Construction Costs       10.0000       %       \$2.08,372       \$15.703         A.B.E.4       Triffic Management       5.0000       %       \$2.08,372       \$15.703         A.B.E.2       Construction Costs       10.0000       %       \$2.86,949       \$2.66,71         A.C.A       Taylor Road (T-Junction)       1.611       m2       \$2.85,671       \$2.03,644         A.C.A       Station File	<u>A.B.D</u>								
A.B. 0.2       aggregate, gedefabric and porous saind associated works       0       m       \$189       \$0         A.B. 0.3       Drainage layer messured with landscaping TOTAL Road Drainage layer messured with landscaping TOTAL Road Drainage layer messured with landscaping to the second same default in the second	A.B.D.1	and backfill	120	m	\$233	\$27,966			
A.B.D.3         associated works Dringe layer measured with handscaping TOTAL Road Drainage         2         no         \$22,667         \$5,333         \$33,299           A.B.E.         Preliminaries and Project Costs A.B.E.1         Project Owerfs Costs (Plenning and Design Costs)         15,0000         %         \$209,372         \$31,406           A.B.E.3         Project Owerfs Cost (Plenning and Design Costs)         15,0000         %         \$209,372         \$31,406           A.B.E.4         Totation Costs)         7,5000         %         \$209,372         \$31,706           A.B.E.4         Totation Costs)         7,5000         %         \$209,372         \$31,706           A.B.E.5         Totat Hopkinson Road (T-Junction)         %         \$206,693         \$266,693         \$28,693           A.C.A.1         Site Ceannee (based on light shrubs)         1,611         m2         \$4         \$56,671           A.C.A.2         Resenree (based on light shrubs)         1,611         m2         \$2         \$2,584           A.C.A.3         Site Ceannee (based on light shrubs)         1,611         m2         \$2         \$2,549           A.C.A.4         Site Camerae (based on light shrubs)         1,611         m2         \$2         \$2,549           A.C.A.5         Preparation,	A.B.D.2	aggregate, geofabric and porous sand	0	m	\$189	\$0			
A.B.E.1         Traffic Management         5.000         %         \$209.372         \$10.469         Image: Construction Costs           A.B.E.2         Construction Costs         15.0000         %         \$209.372         \$31.406           A.B.E.3         Project Owners's Cast (Planning and Design Costs) TOTAL Preliminaries and Project Costs         7.5000         %         \$266.993         \$26.695         \$84.272         \$233,644           A.G.C. A.G.C. A.G.C. A.G.A. Road (T-Junction)         Taylor Road (T-Junction)         %         \$266.993         \$26.993         \$245.991         \$84.272         \$233,644           A.C.A. ISinc Charance (hased on light shrubs)         1.611         m2         \$4         \$5.671         \$84.272         \$233,644           A.C.A. ISinc Charance (hased on light shrubs)         1.611         m2         \$4         \$5.671         \$6           A.C.A. ISinc Charance (hased on light shrubs)         1.611         m2         \$2         \$2.594         \$6	A.B.D.3	associated works Drainage layer measured with landscaping	2	Note	\$2,667	\$5,333	\$33,299		
Project Overheads and Preliminaries (indirect A.B.E.2 Construction Costs)         15.0000         % \$209,372         \$31,406           A.B.E.3 A.B.E.4 Rick Cortifigency Allowance A.B.E.4 Reak Cortifigency Allowance TOTAL Hopkinson Road (T-Junction)         7.5000         % % term         \$209,372         \$31,406           A.C. A.B.E.4 Reak Cortifigency Allowance TOTAL Hopkinson Road (T-Junction)         7.5000         % % term         \$26,693         \$26,693         \$26,695           A.C. A.C. A.C. A.C. A.C. A.C. A.C. A.C.					<b>4</b>	<b>A</b> 10 100			
A.B.E.2       Construction Costs)       15.0000       %       \$209,372       \$31,406         A.B.E.3       Project Owner's Cost (Planning and Design Costs)       7.5000       %       \$209,372       \$15,703       \$24,773         A.B.E.4       ToTAL Proliminanies and Project Costs       10.0000       %       \$209,372       \$15,703       \$24,695         A.C.A       Taylor Road (T-Junction)       10.0000       %       \$209,492       \$26,695       \$24,672         A.C.A       Removal of topsoli 150mm and stockpile for later re-latitworks and Site Preparation       1.611       m2       \$2       \$2,594         A.C.A.2       Use Forenation       1.611       m2       \$2       \$2,594       \$3,983         A.C.A.4       Stocharole (Till works)       1.611       m2       \$2       \$2,594       \$2,724         A.C.A.3       Cuto Fill - General Eattworks       484       m3       \$8       \$3,983       \$3,083	A.B.E.1		5.0000	%	\$209,372	\$10,469			
A.B.E.4       Risk Contingency Allowance       10.0000       %, Item       \$26,6949       \$26,695       \$84,272       \$233,644         A.C.A       Taylor Read (T-Junction)       Read Works       50       50       50       50         A.C.A.1       Ste Clearance (based on light shrubs)       1,611       m2       \$4       \$5,671         Removal of topsoil 150mm and stockpile for later re- use       1,611       m2       \$2       \$2,594         A.C.A.3       Ste Clearance (based on light shrubs)       1,611       m2       \$2       \$2,594         A.C.A.4       Imported Fill       0       m3       \$30       \$0         Subgrade Preparation, tim and compact       1,611       m2       \$4       \$1,248         C.A.A.5       Preparation, tim and compact       1,611       m2       \$2       \$2,594         A.C.A.4       Imported Fill       0       m3       \$30       \$0         A.C.A.5       Preparation, tim and compact       1,613       m2       \$1,248         C.A.A       Boom thick compacted limestone sub base       1,563       m2       \$17       \$27,321         S.C.A.6       formm thick compacted limestone sub base       1,563       m2       \$11       \$2,955	A.B.E.2		15.0000	%	\$209,372	\$31,406			
A.C.A. Earthworks and Site Preparation       1.611       m2       \$4       \$5.671         A.C.A.1       Site Clearance (loased on light shrubs)       1.611       m2       \$2       \$2,594         A.C.A.2       use       1.611       m2       \$2       \$2,594         A.C.A.3       Cut to Fill - General Earthworks       484       m3       \$8       \$3,983         A.C.A.4       Imported Fill       0       m3       \$30       \$0         Sub Base and Base Course       1.611       m2       \$6       \$8,861         A.C.A.4       Imported Fill       0       m3       \$30       \$0         A.C.A.5       Preparation       1.611       m2       \$6       \$8,861         A.C.A.5       Preparation       1.611       m2       \$6       \$8,861         A.C.A.5       Preparation, tim and compact       1.663       m2       \$17       \$27,321         Road Paving       1.371       m2       \$31       \$42,830       \$1,121         A.C.A.6       100mm thick crushed rock base       1.371       m2       \$6       \$1,121         A.C.A.10       Primer seal       1.371       m2       \$4       \$5,539       \$0         A.C.A.10 <td></td> <td>Risk Contingency Allowance TOTAL Preliminaries and Project Costs</td> <td></td> <td>%</td> <td></td> <td></td> <td>\$84,272</td> <td>\$293,644</td> <td></td>		Risk Contingency Allowance TOTAL Preliminaries and Project Costs		%			\$84,272	\$293,644	
Earthworks and Site Preparation       1,611       m2       \$4       \$5,671         A.C.A.1       Site Clearance (based on light shrubs)       1,611       m2       \$2       \$2,594         A.C.A.2       use       Cut to Fill - General Earthworks       444       m3       \$8       \$3,983         A.C.A.3       Cut to Fill - General Earthworks       444       m3       \$8       \$3,983         A.C.A.4       Imported Fill       0       m3       \$30       \$0         Sub Base and Base Course       1,611       m2       \$8       \$8,861         Sub Base and Base Course       1,563       m2       \$17       \$27,321         Road Paving       1,371       m2       \$1       \$42,430         A.C.A.8       Somm thick (AC14)       1,371       m2       \$1       \$22,539         A.C.A.9       Extra over for 2% red oxide       180       m2       \$6       \$1,121         A.C.A.10       Primer seal Kerbing       1,371       m2       \$4       \$5,539       \$0         A.C.A.10       Ine marking and Furniture       1       101       m       \$20       \$6       \$1,121         A.C.A.10       Ine marking and Furniture       1       no       \$2,995<									
A.C.A.2       use       1.611       m2       \$2       \$2.594         A.C.A.3       Cut to Fill - General Earthworks       484       m3       \$8       \$3.983         A.C.A.4       Imported Fill       0       m3       \$30       \$0         A.C.A.5       Preparation, trim and compact       1.611       m2       \$6       \$8.861         Sub Base and Base Course       1.653       m2       \$17       \$27.321         Road Paving       1.371       m2       \$6       \$11.21         A.C.A.8       Som thick compacted limestone sub base       1.663       m2       \$17       \$27.321         Road Paving       1.371       m2       \$6       \$11.21       \$1.248         A.C.A.8       Som thick compacted limestone sub base       1.663       m2       \$16       \$1.24.830         A.C.A.9       Extra over for 2% red oxide       180       m2       \$6       \$1.121         A.C.A.10       Primer seal       1.371       m2       \$4       \$5.539       \$0         A.C.A.11       Mountable Kerb (MK)       24       m       \$25       \$611       \$0         A.C.A.12       Semi Mountable Kerb (SMK)       101       m       \$3.0       \$2.995		Earthworks and Site Preparation Site Clearance (based on light shrubs)	1,611	m2	\$4				
A.C.A.4       Imported Fill       0       m3       \$30       \$0         A.C.A.5       Preparation, tim and compact       1,611       m2       \$6       \$8,861         Sub Base and Base Course       1,613       m2       \$8       \$12,848         A.C.A.6       100mm thick crushed rock base course       1,563       m2       \$17       \$27,321         Road Paving       1,371       m2       \$31       \$42,830       \$0         A.C.A.8       50mm thick (AC14)       1,371       m2       \$31       \$42,830         A.C.A.9       Extra over for 2% red oxide       180       m2       \$6       \$1,121         A.C.A.10       Primer seal       1,371       m2       \$4       \$5,539       \$0         A.C.A.10       Berting       101       m       \$20,995       \$0       \$0       \$1,121         A.C.A.12       Semi Mountable Kerb (MK)       101       m       \$30       \$2,995       \$0         A.C.A.13       Line marking and Furniture       140       m       \$6       \$888       \$888       \$1         A.C.A.14       Street sign post       1       no       \$122       \$122       \$122       \$122       \$122       \$122			1,611	m2		\$2,594			
A.C.A.5       Preparation, trim and compact Sub Base Course       1,611       m2       \$6       \$8,861 \$0         A.C.A.6       Momm thick compacted limestone sub base Road Paving       1,563       m2       \$17       \$27,321 \$0         A.C.A.8       Som thick (AC14)       1,371       m2       \$31       \$42,830         A.C.A.10       Primer seal Kerbing       1,371       m2       \$6       \$1,121         A.C.A.11       Mountable Kerb (MK)       24       m       \$25,539 \$0       \$0         A.C.A.12       Semi Mountable Kerb (SMK) Line Marking and Fumiture       101       m       \$25       \$611         A.C.A.13       Line marking       140       m       \$30       \$2,995 \$0       \$0         A.C.A.14       Street sign post       1       no       \$122       \$122         A.C.A.16       Chevron sign       0       no       \$613       \$0									
A.C.A.6       100mm thick crushed rock base course       1,563       m2       \$8       \$12,848         A.C.A.7       250mm thick compacted limestone sub base       1,563       m2       \$17       \$27,321         Road Paving       1,371       m2       \$31       \$42,830         A.C.A.8       50mm thick (AC14)       1,371       m2       \$6       \$1,121         A.C.A.8       50mm thick (AC14)       1,371       m2       \$6       \$1,121         A.C.A.10       Primer seal Kerbing       1,371       m2       \$4       \$5,539         A.C.A.11       Mountable Kerb (MK)       24       m       \$25       \$611         A.C.A.12       Semi Mountable Kerb (SMK) Line Marking and Fumiture       101       m       \$30       \$2,995         A.C.A.13       Line marking       140       m       \$6       \$888         A.C.A.14       Street sign post       1       no       \$122       \$122         A.C.A.15       Street name plate       2       no       \$199       \$398         A.C.A.16       Chevron sign       0       no       \$613       \$0	A.C.A.5	Preparation, trim and compact	1,611	m2	\$6	\$8,861			
A.C.A.8 A.C.A.9Somm thick (AC14) Extra over for 2% red oxide1,371 180m2 m2\$31 m2\$42,830 \$6A.C.A.10Primer seal Kerbing1,371m2\$4\$5,539 \$0A.C.A.11Mountable Kerb (MK)24m\$25\$611A.C.A.12Semi Mountable Kerb (SMK) Line Marking and Furniture101m\$30\$2,995 \$0A.C.A.13Line marking140m\$6\$888A.C.A.14Street sign post1no\$122\$122A.C.A.15Street name plate2no\$199\$398A.C.A.16Chevron sign0no\$613\$0		100mm thick crushed rock base course 250mm thick compacted limestone sub base				\$12,848 \$27,321			
KerbingImage: Serbing		50mm thick (AC14)				\$42,830			
A.C.A.12Semi Mountable Kerb (SMK) Line Marking and Furniture101m\$30\$2,995 \$0A.C.A.13Line marking140m\$6\$888A.C.A.14Street sign post1no\$122\$122A.C.A.15Street name plate2no\$199\$398A.C.A.16Chevron sign0no\$613\$0			1,371	m2	\$4				
Line Marking and FurnitureImage: Construction of the second o	A.C.A.11	Mountable Kerb (MK)	24	m	\$25	\$611			
A.C.A.14Street sign post1no\$122\$122A.C.A.15Street name plate2no\$199\$398A.C.A.16Chevron sign0no\$613\$0	A.C.A.12		101	m	\$30				
A.C.A.15Street name plate2no\$199\$398A.C.A.16Chevron sign0no\$613\$0	A.C.A.13	Line marking	140	m	\$6	\$888			
A.C.A.16 Chevron sign 0 no \$613 \$0	A.C.A.14	Street sign post	1	no	\$122	\$122			
	A.C.A.15	Street name plate	2	no	\$199	\$398			
A.C.A.17 Traffic sign 2 no \$450 \$900	A.C.A.16	Chevron sign	0	no	\$613	\$0			
	A.C.A.17	Traffic sign	2	no	\$450	\$900			



1.0	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
	Landscaping				\$0			
A.C.A.18	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
A.C.A.19	Trees (100l)	0	no	\$506	\$0			
A.C.A.20	Soft landscaping	0	m2	\$0	\$0			
A.C.A.21	Landscape mix	83	m3	\$90	\$7,470			
A.C.A.22	Rock pitching	15	m2	\$155	\$2,329			
A.C.A.23	Drainage layer	0	m2	\$0	\$0			
A C A 24	Other		item		\$10.000			
A.C.A.24	Allowed for connection to Taylor Road TOTAL Road Works		item Item		\$10,000	\$136,479		
<u>A.C.B</u>	<u>Shared Paths</u> Earthworks and Site Preparation							
A.C.B.1	Site Clearance (based on light shrubs) Removal of topsoil 150mm and stockpile for later re-	252	m2	\$4	\$887			
A.C.B.2	use	252	m2	\$2	\$406			
A.C.B.3 A.C.B.4	Cut to Fill - General Earthworks Detailed excavation - mill and profile	76 0	m3 m3	\$8 \$19	\$625 \$0			
A.C.B.5	Imported Fill Subgrade Preparation	0	m3	\$30	\$0			
A.C.B.6	Preparation, trim and compact Pathway	252	m2	\$6	\$1,386			
A.C.B.7	100 thick concrete footpath with broomed finish	252	m2	\$71	\$17,852			
A.C.B.8 A.C.B.9	Sand fill below concrete footpath (100mm) Pram ramp	252 0	m2 no	\$5 \$670	\$1,376 \$0			
A.C.B.10	Pram ramp including tactile	2	no	\$973	\$1,945			
	Line Marking and Furniture	_		<b>*</b> ••••	<i><b>↓</b> .,<b>0</b> . <b>0</b></i>			
A.C.B.11	Line marking	0	m	\$6	\$0			
A.C.B.12	Street sign post	0	no	\$122	\$0			
A.C.B.13	Street name plate	0	no	\$199	\$0			
A.C.B.14	Chevron sign	0	no	\$613	\$0			
A.C.B.15	Traffic sign Landscaping	3	no	\$450	\$1,350			
A.C.B.16	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
A.C.B.17	Trees (100l)	0	no	\$506	\$0			
A.C.B.18	Soft landscaping TOTAL Shared Paths	0	m2 Item	\$0	\$0	\$25,827		
<u>A.C.C</u>	<u>Street Lighting</u> 6.5 SOR Street Light Pole incl. all conduits, light							
A.C.C.1	cabling, excavation, and related overheads	4	no	\$3,442	\$13,767	<b>\$40 707</b>		
	TOTAL Street Lighting		Item			\$13,767		
<u>A.C.D</u>	Road Drainage 450dia reinforced concrete pipe including excavation				<b>•</b> • • •			
A.C.D.1	and backfill 150dia slotted PVC subsoil drainage pipe including	120	m	\$233	\$27,966			
A.C.D.2	aggregate, geofabric and porous sand Side entry pits including liner, cover, excavation, and	0	m	\$189	\$0			
A.C.D.3	associated works Drainage layer measured with landscaping	2	no Note	\$2,667	\$5,333			
	TOTAL Road Drainage		Item			\$33,299		
<u>A.C.E</u> A.C.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$209,372	\$10,469			
A.C.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$209,372	\$31,406			
	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$209,372	\$15,703			
A.C.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs	10.0000	% Item	\$266,949	\$26,695	\$84,272		
	TOTAL Taylor Road (T-Junction)						\$293,644	
<u>A.D</u> A.D.A	Bett Road (Roundabout) Road Works							
A.D.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
ľ,		2,004		ΨΤ	ψ0,01 <del>4</del>	I		ı I



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS						
	Removal of topsoil 150mm and stockpile for later re-		1				1
A.D.A.2	use	2,504	m2	\$2	\$4,031		
A.D.A.3	Cut to Fill - General Earthworks	752	m3	\$8 \$20	\$6,189		
A.D.A.4	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.		
.D.A.5	Preparation, trim and compact Sub Base and Base Course	2,504	m2	\$6	\$13,772		
.D.A.6	100mm thick crushed rock base course	1,983	m2	\$8	\$16,300		
A.D.A.7	250mm thick compacted limestone sub base	1,983	m2	\$17	\$34,663		
	Road Paving	4 5 4 9		<b>A</b> O 4	<b>• • • • • • • • • •</b>		
	50mm thick (AC14) Primer seal	1,518 1,518	m2 m2	\$31 \$4	\$47,422 \$6,133		
A.D.A.9	Brick Paving	1,516	Item	Φ4	\$0,133 \$0		
A.D.A.10	80 thick brick pavers	333	m2	\$100	\$33,333		
A.D.A.11	30 thick compacted sand bed	180	m2	\$2	\$295		
A.D.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335		
A D A 13	170mm thick compacted limestone	180	m2	\$11	\$2,047		
		100		Ψ···	φ2,041		
A.D.A.14	250mm thick compacted limestone sub base	153	m2	\$17	\$2,674		
	Kerbing						
A.D.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781		
A.D.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240		
	Barrier Kerb (BK)	54	m	\$53	\$2,869		
<b>.</b>	Line Marking and Furniture	54		φυσ	ψ2,009		
A.D.A.18	Line marking	53	m	\$6	\$336		
	Street sign post	1	no	\$122	\$122		
ч. <b>р</b> .н.тэ	oneer sign post		110	ΨΙΖΖ	ψτΖΖ		
4.D.A.20	Street name plate	2	no	\$199	\$398		
	Chevron sign	1		\$613	\$613		
A.D.A.21	Chevron sign	1	no	φ <b>0</b> 13	φυισ		
A.D.A.22	Traffic sign	3	no	\$450	\$1,350		
	Landscaping				\$0		
	Soft landscaping	227	m2	\$0	Eval		
A.D.A.23	Son landscaping	221	mz	фU	Excl.		
A.D.A.24	Landscape mix	57	m3	\$90	\$5,130		
	TOTAL Road Works		Item			\$192,847	
A.D.B	Shared Paths						
<u>A.D.D</u>	Earthworks and Site Preparation						
A.D.B.1	Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253		
	Removal of topsoil 150mm and stockpile for later re-						
A.D.B.2	use	356	m2	\$2	\$573		
A.D.B.3	Cut to Fill - General Earthworks	107	m3	\$8 \$20	\$881 \$5.240		
4.D.B.4	Imported Fill Subgrade Preparation	178	m3	\$30	\$5,340		
4.D.B.5	Preparation, trim and compact	356	m2	\$6	\$1,958		
	Pathway						
A.D.B.6	100 thick concrete footpath with broomed finish	356	m2	\$71	\$25,219		
4.D.B.7	Sand fill below concrete path (100mm)	356	m2	\$5 \$670	\$1,944		
4.D.B.8	Pram ramp Pram ramp including tactile	6	no no	\$670 \$973	\$5,836		
4.D.B.9	Tactile paving	10	m2	\$325	\$3,250 \$3,250		
	Line Marking and Furniture	10		<del>Q</del> 020	<i><b>\$0,200</b></i>		
	Tartin allow	-		<b>*</b>	<b>Aa</b> = -		
ч.D.B.10	Traffic sign Landscaping	2	no	\$450	\$900		
	TOTAL Shared Paths		Item			\$47,154	
<u> A.D.C</u>	Street Lighting						
4.D.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	4	no	\$3,442	\$13,767		
	TOTAL Street Lighting		Item	Ψ <b>0,</b> ΤΤΖ	φ10,101	\$13,767	
4.D.D	Road Drainage						
4.D.D.1	450dia reinforced concrete pipe including excavation and backfill	130	m	\$233	\$30,297		
	Side entry pits including liner, cover, excavation, and	130		ψ200	ψ30,∠31		
A.D.D.2	associated works	4	no	\$2,667	\$10,666		
	TOTAL Road Drainage		ltem			\$40,963	
		l					
A.D.E	Preliminaries and Project Costs						

Shire of Serpentine Jarrahdale DCP
DCA 3 - Mundijong-Whitby Urban

	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
A.D.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$294,730	\$44,210			
A.D.E.3 A.D.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs <b>TOTAL Bett Road (Roundabout)</b>	7.5000 10.0000	% % Item	\$294,730 \$375,781	\$22,105 \$37,578	\$118,629	\$413,359	
<u>А.Е</u> <u>А.Е.А</u> А.Е.А.1	<u>Utilitities</u> <u>Power and Lighting (Western Power)</u> Relocate 1120m of Overhead Power underground - Provisional Sum TOTAL Power and Lighting (Western Power)	1	PS Item	\$1,777,985	\$1,777,985	\$1,777,985		
<u>A.E.B</u> A.E.B.1	Communications (NBN / Telstra / Westnet / etc.) Relocate 1120m road length of communications related infrastructure about 20m from the current location - Provisional Sum TOTAL Communications (NBN / Telstra / Westnet / etc.)	1	PS Item	\$352,692	\$352,692	\$352,692		
<u>A.E.C</u>	Water and Sewer (Water Corporation) No allowance has been made for Water Corporation diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
<u>A.E.D</u>	Gas (ATCO) No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		
<u>A.E.E</u> A.E.E.1 A.E.E.2	<u>Preliminaries and Project Costs</u> Traffic Management Project Overheads and Preliminaries (Indirect Construction Costs)	10.0000 15.0000	%	\$2,130,677 \$2,130,677	\$213,068 \$319,602			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs <b>TOTAL Utilitities</b>	5.0000 10.0000	% % Item	\$2,130,677 \$2,769,880	\$106,534 \$276,988	\$916,191	\$3,046,868	
A.A.A.7 A.A.A.5	Estimated Imported Fill Total m3 of Cut to Fill - General Earthworks Less Cut to Fill costed	6,750 21,239 0	m3 m3 m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)				end of these co	ostings.	\$0	
	TOTAL Road - Bishop Road (East)		ltem					\$11,415,959

Rawlinsons (W.A.)



## Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
в	ROAD - TAYLOR ROAD							
<u>B.A</u>	Road Construction							
<u>B.A.A</u>	Road Works							
	Earthworks and Site Preparation				\$0			
B.A.A.1	Site Clearance (based on light shrubs)	25,275	m2	\$4	\$88,968			
	Removal of topsoil 150mm and stockpile for later re-	05 075		¢o	¢ 40,000			
B.A.A.2 B.A.A.3	use Cut to Fill - General Earthworks	25,275 12,566	m2 m3	\$2 \$8	\$40,693 \$103,418			
B.A.A.4	Detailed excavation - mill and profile	12,500	m2	\$0 \$19	\$103,418 \$205,610			
B.A.A.5	Imported Fill	0	m2 m3	\$30	Excl.			
B.A.A.6	Form swale	5,778	m2	\$4	\$21,899			
	Subgrade Preparation				\$0			
B.A.A.7	Preparation, trim and compact	36,107	m2	\$6	\$198,589			
	Sub Base and Base Course				\$0			
B.A.A.8	100mm thick crushed rock base course	25,131	m2	\$8	\$206,577			
B.A.A.9	250mm thick compacted limestone sub base	25,131	m2	\$17	\$439,290			
	Road Paving				\$0			
	50 mm thick (AC1.4)	21.665		¢04	¢676.945			
B.A.A.10	50mm thick (AC14)	21,665	m2	\$31	\$676,815			
B.A.A.11	Extra over for 2% red oxide	4,333	m2	\$6	\$26,995			
0		1,000		ψŬ	<i>\</i> 20,000			
B.A.A.12	Primer seal	21,665	m2	\$4	\$87,527			
	Kerbing				\$0			
B.A.A.13	Mountable Kerb (MK)	2,889	m	\$25	\$73,496			
B.A.A.14	Kerb openings	145	no	\$350	\$50,750			
<b>.</b>		0.000		<b>\$</b> \$\$\$	<b>*</b> 25.050			
B.A.A.15	Semi Mountable Kerb (SMK)	2,889	m	\$30	\$85,659			
	Line Marking and Furniture				\$0			
B A A 16	Line marking	5,778	m	\$6	\$36,633			
D.A.A. 10	Landscaping	5,776		ψΟ	\$0 \$0			
	p							
B.A.A.17	Soft landscaping	8,184	m2	\$0	Excl.			
B.A.A.18	Landscape mix	2,046	m3	\$90	\$184,140			
		100		<b>A</b>				
B.A.A.19	Rock pitching	482	m2	\$155	\$74,831			
B A A 20	Drainage layer	8,666	m2	\$0	Excl.			
D.A.A.20	TOTAL Road Works	0,000	Item	φU	Exci.	\$2,601,887		
			nom			φ2,001,007		
B.A.B	Shared Paths							
	Earthworks and Site Preparation							
B.A.B.1	Site Clearance (based on light shrubs)	9,441	m2	\$4	\$33,232			
	Removal of topsoil 150mm and stockpile for later re-							
B.A.B.2	use	9,441	m2	\$2	\$15,200			
B.A.B.3	Cut to Fill - General Earthworks	2,833	m3	\$8	\$23,316			
B.A.B.4	Imported Fill	0	m3	\$30	Excl.			
D A D -	Subgrade Preparation			<b>^</b>	<b>654 000</b>			
B.A.B.5	Preparation, trim and compact	9,441	m2	\$6	\$51,926			
B.A.B.6	Pathway 100 thick concrete footpath with broomed finish	9,441	m2	\$71	\$668,800			
B.A.B.7	Sand fill below concrete footpath (100mm)	9,441 9,441	m2	\$71 \$5	\$000,000 \$51,548			
		3,771		ΨŬ	Ψ <b>Ο</b> Τ, <b>Ο</b> ΤΟ			
					Included with			
B.A.B.8	Pram ramp		no	\$670	intersections			
	TOTAL Shared Paths		Item			\$844,022		
<u>B.A.C</u>	Street Lighting							
BACA	6.5 SOR Street Light Pole incl. all conduits, light	0.0	~~	¢0 440	\$20F 600			
B.A.C.1	cabling, excavation, and related overheads	83	no	\$3,442	\$285,663			
B.A.C.2	6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	42	no	\$5,111	\$214,661			
J.A.V.Z	ousing, cheavation, and related overheads	72		ψυ, ΠΠ	Ψ217,001	<b>A-------------</b>		
	TOTAL Street Lighting		Item			\$500,324		



#### Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
	ROAD – TOWN CENTRE DISTRIBUTOR RD (NEW							
С <u>С.А</u>	WHITBY ROAD) Road Construction							
<u>C.A.A</u> C.A.A	Road Works							
<u>0.A.A</u>	Earthworks and Site Preparation				\$0			
C.A.A.1	Site Clearance (based on light shrubs)	83,385	m2	\$4	\$293,515			
C.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	83,385	m2	\$2	\$134,250			
	Cut to Fill - General Earthworks	29,018	m3	\$8	\$238,818			
C.A.A.4	Imported Fill	0	m3	\$30	Excl.			
C.A.A.5	Form swale	13,342	m2	\$4	\$50,566			
	Subgrade Preparation							
C.A.A.6	Preparation, trim and compact Sub Base and Base Course	83,385	m2	\$6	\$458,618			
C.A.A.7	100mm thick crushed rock base course	58,036	m2	\$8	\$477,056			
	250mm thick compacted limestone sub base	58,036	m2	\$17	\$1,014,469			
	Road Paving				\$0			
C.A.A.9	50mm thick (AC14)	50,031	m2	\$31	\$1,562,968			
C.A.A.10	Extra over for 2% red oxide	10,007	m2	\$6	\$62,344			
	Primer seal	50,031	m2	\$4	\$202,125			
	Kerbing				<b>\$</b> 0			
C.A.A.12	Mountable Kerb (MK)	6,671	m	\$25	\$169,710			
C.A.A.13	Kerb openings	334	no	\$350	\$116,900			
C.A.A.14	Semi Mountable Kerb (SMK)	6,671	m	\$30	\$197,795			
C.A.A.15	Concrete flush edge beam Line Marking and Furniture		m	\$67	\$0 \$0			
C.A.A.16	Line marking Landscaping	13,342	m	\$6	\$84,588 \$0			
C.A.A.17	Soft landscaping	18,881	m2	\$0	Excl.			
C.A.A.18	Landscape mix	4,721	m3	\$90	\$424,890			
C.A.A.19	Rock pitching	1,112	m2	\$155	\$172,638			
C A A 20	Drainage layer	20,013	m2	\$0	Excl.			
0.7 (.7 (20	TOTAL Road Works	20,010	Item	ΨŬ	Ext.	\$5,661,251		
<u>C.A.B</u>	Shared Paths							
	Earthworks and Site Preparation							
C.A.B.1	Site Clearance (based on light shrubs)	16,677	m2	\$4	\$58,703			
	Demonstration and the standard for later we use	10.077		¢.	<b>\$00.050</b>			
	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	16,677 5,004	m2 m3	\$2 \$8	\$26,850 \$41,183			
	Imported Fill	0 0	m3	\$8 \$30	541,183 Excl.			
0.71.0.4	Subgrade Preparation	0	mo	φõõ	Exol.			
C.A.B.5	Preparation, trim and compact	16,677	m2	\$6	\$91,724			
C.A.B.6	Pathway 100 thick concrete footpath with broomed finish	16,677	m2	\$71	\$1,181,399			
C.A.B.7	Sand fill below concrete footpath (100mm) TOTAL Shared Paths	16,677	m2 Item	\$5	\$91,056	\$1,490,915		
<u>C.A.C</u>	Street Lighting							
C.A.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	188	no	\$3,442	\$647,043			
	6.5 DOR Street Light Pole incl. all conduits, light cabling,							
C.A.C.2	excavation, and related overheads TOTAL Street Lighting	94	no Item	\$5,111	\$480,432	\$1,127,475		
C.A.D	Road Drainage							
	450dia reinforced concrete pipe including excavation							
C.A.D.1	and backfill	3,276	m	\$233	\$763,472			
C.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	3,276	m	\$189	\$617,854			



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS				I	1	1	
	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	110	no	\$3,021	\$332,264			
C.A.D.4	2500x800mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$4,203	\$126,103			
	Remove existing culvert in preparation for new culvert (approximatley 3m wide)	1	LS	\$4,210	\$4,210			
C.A.D.5	TOTAL Road Drainage	I	Item	<b>Φ</b> 4,210	<b>⊅</b> 4,210	\$1,843,902		
	Preliminaries and Project Costs							
C.A.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$10,123,543	\$506,177			
C.A.E.2	Construction Costs)	15.0000	%	\$10,123,543	\$1,518,532			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance	7.5000 10.0000	% %	\$10,123,543 \$12,907,518	\$759,266 \$1,290,752			
0.7	TOTAL Preliminaries and Project Costs TOTAL Road Construction	10.0000	Item	ф12,007,010	ψ1,200,702	\$4,074,726	¢14 109 270	
							\$14,198,270	
<u>С.В</u> <u>С.В.А</u>	Taylor Road (Roundabout) Road Works							
C.B.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
C.B.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,504	m2	\$2	\$4,031			
C.B.A.3	Cut to Fill - General Earthworks	752	m3	\$8	\$6,189			
	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
	Preparation, trim and compact Sub Base and Base Course	2,504	m2	\$6	\$13,772			
	100mm thick crushed rock base course 250mm thick compacted limestone sub base	1,983 1,983	m2 m2	\$8 \$17	\$16,300 \$34,663			
	Road Paving							
C.B.A.9	50mm thick (AC14) Primer seal	1,518 1,518	m2 m2	\$31 \$4	\$47,422 \$6,133			
	Brick Paving		Item		\$0			
C.B.A.10	80 thick brick pavers	333	m2	\$100	\$33,333			
C.B.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
C.B.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
C.B.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674			
C.B.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
C.B.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240			
	Barrier Kerb (BK)	54	m	\$53	\$2,869			
	Line Marking and Furniture							
C.B.A.18	Line marking	53	m	\$6	\$336			
C.B.A.19	Street sign post	1	no	\$122	\$122			
C.B.A.20	Street name plate	2	no	\$199	\$398			
C.B.A.21	Chevron sign	1	no	\$613	\$613			
	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
C.B.A.23	Soft landscaping	227	m2	\$0	Excl.			
C.B.A.24	Landscape mix TOTAL Road Works	57	m3 Item	\$90	\$5,130	\$192,847		
	Shared Paths							
	Earthworks and Site Preparation Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253			
	Removal of topsoil 150mm and stockpile for later re-use	356	m2	\$2	\$573			
C.B.B.3	Cut to Fill - General Earthworks	107	m3	\$8	\$881			
	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
	Preparation, trim and compact Pathway	356	m2	\$6	\$1,958			
•	· · ·		•	. 1	I	•	1	1



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
	100 thick concrete footpath with broomed finish	356	m2	\$71	\$25,219			
C.B.B.7	Sand fill below concrete path (100mm)	356 6	m2	\$5 \$072	\$1,944 \$5,826			
	Pram ramp including tactile Tactile paving	ь 10	no m2	\$973 \$325	\$5,836 \$3,250			
	Line Marking and Furniture							
C.B.B.10	Traffic sign	2	no	\$450	\$900			
	TOTAL Shared Paths		Item			\$41,814		
C.B.C	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling,							
C.B.C.1	excavation, and related overheads	4	no	\$3,442	\$13,767	¢40.707		
	TOTAL Street Lighting		ltem			\$13,767		
<u>C.B.D</u>	Road Drainage							
C.B.D.1	450dia reinforced concrete pipe including excavation and backfill	130	m	\$233	\$30,297			
0.0.0.1	Side entry pits including liner, cover, excavation, and	100		Ψ200	<i>\\</i> 00,207			
C.B.D.2	associated works	4	no	\$2,667	\$10,666	¢40.062		
	TOTAL Road Drainage		ltem			\$40,963		
C.B.E	Preliminaries and Project Costs	5 0000		<b>*</b> ~~~~~~~	<b>•</b> • • • <b>• •</b>			
C.B.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$289,390	\$14,470			
C.B.E.2	Construction Costs)	15.0000	%	\$289,390	\$43,409			
C.B.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$289,390	\$21,704			
	Risk Contingency Allowance	10.0000	%	\$269,390 \$368,973	\$36,897			
	TOTAL Preliminaries and Project Costs		Item			\$116,480	<b>•</b> • • <b>•</b> • <b>•</b> • •	
	TOTAL Taylor Road (Roundabout)						\$405,870	
<u>C.C</u>	Soldiers Road (Roundabout)							
<u>C.C.A</u>	Road Works Earthworks and Site Preparation							
C.C.A.1	Site Clearance (based on light shrubs)	2,728	m2	\$4	\$9,603			
	Demoval of tennesil 450mm and stackaile for later re-use	0.700		¢o	¢4 202			
	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	2,728 819	m2 m3	\$2 \$8	\$4,392 \$6,740			
C.C.A.4	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation Preparation, trim and compact	2,728	m2	\$6	\$15,004			
0.0.A.J	Sub Base and Base Course	2,720	1112	φO	φ13,004			
	100mm thick crushed rock base course	2,139	m2	\$8	\$17,583			
C.C.A.7	250mm thick compacted limestone sub base Road Paving	2,139	m2	\$17	\$37,390			
	50mm thick (AC14)	1,672	m2	\$31	\$52,233			
	Primer seal Brick Paving	1,672	m2 Item	\$4	\$6,755 \$0			
C.C.A.10	80 thick brick pavers	393	m2	\$100	\$39,339			
C.C.A.11	30 thick compacted sand bed	240	m2	\$2	\$394			
C.C.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
C.C.A.13	170mm thick compacted limestone	240	m2	\$11	\$2,729			
C.C.A.14	250mm thick compacted limestone sub base	153	m2	\$17	\$2,674			
	Kerbing							
C.C.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
C.C.A.16	Semi Mountable Kerb (SMK)	146	m	\$30	\$4,329			
C.C.A.17	Barrier Kerb (BK)	54	m	\$53	\$2,869			
	Line Marking and Furniture							
C.C.A.18	Line marking	70	m	\$6	\$444			
				<b>#400</b>	¢400			
C.C.A.19	Street sign post	1	no	\$122	\$122			
C.C.A.20	Street name plate	2	no	\$199	\$398			
C.C.A 21	Traffic sign	4	no	\$450	\$1,800			
0.0.7.21	Landscaping	-T		ΨΤΟΟ	\$1,800 \$0			
	Soft landscaping	227	m2	\$0	Excl.			
0.0.4.22	on andoaping	221	1112	ΨΟ				
	Landscape mix	57	m3	\$90	\$5,130			
I	Other		I		l	l	I	I



C.B.2       Removal of topoid 150mm and stockills for later re-use C.B.3       394       m2       S2       5586         C.B.4       Imported Fill       394       m3       S30       Exc.1         S.B.5       Subgrade Preparation       304       m2       S6       S2,002         C.B.5       Preparation       364       m2       S71       S25,786         C.B.6       100 inkic concrete pain (100mm)       364       m2       S71       S25,786         C.B.6       100 inkic concrete pain (100mm)       84       no       S323       S4,321         C.C.B.8       Premaring inducing facility       13       m2       S325       S4,225         C.C.B.10       Traitic sign       13       m2       S324       S1,800       S46,354         C.C.B.9       Traitic sign       13       m2       S323       S3,422       S13,767       S13,767         C.C.10       Exact Lighting inder Concrete pipe including excervation and eladored active	•••	QUANIET SURVETORS & CONSTRUCTION COST CONSULTANTS	1	1		I	1	I	1
C.B. Bill Elements (and S) or Properties         364         n.2         51         51         51         51           C.E.D. Consert Strong (and strong the interiors) in properties Fill interiors).         364         n.2         54         52         52         54         52 <td>C.C.A.24</td> <td></td> <td></td> <td></td> <td></td> <td>\$20,000</td> <td>\$232,043</td> <td></td> <td></td>	C.C.A.24					\$20,000	\$232,043		
C.B. Bill Elements (and S) or Properties         364         n.2         51         51         51         51           C.E.D. Consert Strong (and strong the interiors) in properties Fill interiors).         364         n.2         54         52         52         54         52 <td>C.C.B</td> <td>Shared Paths</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	C.C.B	Shared Paths							
C.B.B.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         Statuse Presentation         Statuse Presentation           C.B.B.         Particular Presentation         364         72         56         \$20.02           C.B.B.         Particular Presentation         364         72         55.75         \$1.997         \$7.71           C.B.B.         Total Resonance to cologies with boomed Intein         364         72         \$5.75         \$7.75         \$7.75           C.B.B.         Total Resonance to cologies with boomed Intein         364         72         \$5.75         \$7.75         \$7.75           C.B.B.         Total Resonance to cologies with boomed Intein         364         70         \$3.35         \$7.255         \$7.75         \$7.75           C.C.B.         Total Resonance to cologies with cologies with boomed Intein         \$7.75         \$7.75         \$7.57.75         \$7.			364	m2	\$4	\$1,281			
C.B.B.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         C.B.W.         Statuse Presentation         Statuse Presentation           C.B.B.         Particular Presentation         364         72         56         \$20.02           C.B.B.         Particular Presentation         364         72         55.75         \$1.997         \$7.71           C.B.B.         Total Resonance to cologies with boomed Intein         364         72         \$5.75         \$7.75         \$7.75           C.B.B.         Total Resonance to cologies with boomed Intein         364         72         \$5.75         \$7.75         \$7.75           C.B.B.         Total Resonance to cologies with boomed Intein         364         70         \$3.35         \$7.255         \$7.75         \$7.75           C.C.B.         Total Resonance to cologies with cologies with boomed Intein         \$7.75         \$7.75         \$7.57.75         \$7.	C.C.B.2	Removal of topsoil 150mm and stockpile for later re-use	364	m2	\$2	\$586			
C.B.         Biogramity Preparation Protection of the concrete optical state (100ms)         Bes (1)         Protection of the concrete optical state (100ms)         Bes (1)         Set (3)	C.C.B.3	Cut to Fill - General Earthworks							
C.B.         Pointway         Partway			0	115	<b>\$</b> 30	EXCI.			
C.C.B.         Ubb table concrete production in the control function in the control functin the control functin the control functin the contre			364	m2	\$6	\$2,002			
C.B.B.         Point marp including tackie         8         no         9373         97781         94225           Tackie pointy Inter Marking and Fundance         13         n2         9326         94225         94225           C.B.B.         Traffic sign watawation, and related overheads         4         n0         846.05         546.354           C.G.B.         Steet Lighting watawation, and related overheads         4         n0         53.442         513.767           C.G.D.         Steet Lighting watawation, and related overheads         7         7         833.128         510.666           C.G.D.         Steet Lighting watawation, and related overheads         7         7         833.128         510.666           C.G.D.         Steet Lighting watawation, and relations concente pione including excavation (TOTAL Read Diminage         7         833.128         510.666           C.G.E.         Project Costs         5         510.667         540.963           C.G.E.         Project Costs         7         53.442         540.963           C.G.E.         Project Costs         7         500.07         %         533.128         540.963           C.G.E.         Project Costs         7         500.07         %         533.128         540.963	C.C.B.6	100 thick concrete footpath with broomed finish							
C.B.B.       Table paying and Functure       13       n2       5325       54225       14.255         C.G.B.10       Traffic sign       10       n0       5420       31.800       346.304         C.G.G.       Statute Lighting       10       n0       53.442       513.767       313.767         G.G.D.       Statute Lighting       13       n0       52.08       53.08       53.027       313.767         G.C.D.       Statute Lighting       100       n       52.08       510.686       340.983         G.C.D.       Statute Lighting       100       n       52.33       53.027       313.767         G.C.D.       Statute Lighting       non backfill       non backfill       non       52.08       510.686       340.983         G.C.D.       Statute Monitope       5.000       %       5333.125       54.989       54.0783         G.C.E.       Telline Management       15.000       %       5333.126       54.989       513.408         G.C.E.       Telline Management       15.000       %       533.126       51.34.08       51.34.08         G.C.E.       Telline Management       15.000       %       533.31.25       54.98.97       513.408       513.408<									
C.C.B.10       Taffic sign       Taffic sign       14       no       545.0       51.800       346.854         C.C.C.       Softwart Light Pole incl. all conduits, light cabling, C.C.F.       70.70.4.5 Stered Taget Conduits, light cabling, C.C.F.       33.442       \$13.767       313.767         C.D.D.       Basic Light Mode Contrates per including excavation, and a basic difference of transpectrum concentration, and a conduits, light cabling, S.C.F.       70.70.4.5 Stered Taget Conduits, light cabling, S.C.F.       333.728       \$10.669       340.968         C.C.E.       Taffic sing per including inter, cover, succavation, and cover transpectrum concentration, and cover transpectrum concentration, and cover transpectrum cover succavation, and the transpectrum cover succavation cover succavation, and the transpectrum cover succavation co	C.C.B.9	Tactile paving							
TOTAL Shared Paths         Item         Item         Item         Item         Set of Set 364, 354         Add 354, 354           G.C.C.         B.S.SKPet Light Pole ind, all conduits, light cabing, we cavation, and related overheads         Add 37, 354         S13,767         S13,767         S13,767         S13,767           G.C.C.         B.S.SKPet Light Pole ind, all conduits, light cabing, we cavation, and related overheads         Add 37,800         S13,767         S13,963         S1		Line Marking and Furniture							
C.C.C.         Street Lighting 65 SOR Street Lighting.         Sign and Chainsage 65 SOR Street Lighting.         Sign and Street Lighting.	C.C.B.10		4		\$450	\$1,800			
C.C. cl.         B.S. SOR Street Light Pole Incl. all conduits. light cabling.         A         no         B.3.422         \$13.767         \$13.767           C.C. B.         Road Drainage         B.3.42         Sol.297         \$13.767         \$13.767           C.D. B.         Road Drainage         B.3.42         Sol.297         \$10.866         \$40.983           C.D. C. D. Torde Hond Drainage         Sol.207         \$10.866         \$40.983         \$40.983           C.C. E.         Torde Hond Drainage         Sol.2077         \$10.866         \$40.983           C.C. E.         Torde Hond Drainage         Sol.2000         %         \$333.126         \$49.989           C.C. E.         Torde Hondgement         Sol.2000         %         \$333.126         \$49.989           C.C. E.         Oroset Controgency Allowance         Torde Hondgement         \$10.000         %         \$333.126         \$49.989           C.C. E.         Torde Hondge and Polist Coals         \$10.000         %         \$333.126         \$49.989           C.C. E.         Torde Hondge and Polist Coals         \$10.000         %         \$333.126         \$49.989           C.C. E.         Soluth Polist And Solution         Torde Hondge and Solution         \$10.000         %         \$333.126		TOTAL Shared Paths		ltem			\$46,354		
C.C.C.1         reaculation, and related overheads         4         no.         8.3.422         \$13.767         \$13.767           TOTAL Street Lighting         130         m         \$23.67         \$13.767         \$13.767           C.C.D.         Read Drainage         700         \$2.667         \$10.666         \$40.983           Side entry pits including iner, cover, excavation, and         5.0000         %         \$333.126         \$16.666           C.C.E.1         Trainflict Management         15.0000         %         \$333.126         \$19.966           C.C.E.2         Project Coverheads and Preliminaries (Indirect         15.0000         %         \$333.126         \$49.969           C.C.E.2         Construction Costs)         7.5000         %         \$324.767         \$134.083           TOTAL Soldiers Road (Roundabout)         7.5000         %         \$134.083         \$1467.210           C.C.E.2         Reside Comments cand Project Coats         7.5000         %         \$134.083         \$1467.210           C.C.A.1         Ste Clearance (based on light shuba)         2.550         m2         \$4         \$89.767           C.D.A.2         Read Project Coats         755         m3         \$8         \$22.257           C.D.A.2									
CLC.D.         Read Painage Read Painage and backling and backling second environment concernet poin including excavation and backling second environment concernet point context traffic Management C.C.E.         Read Paint Project Content (Planning and Design Costs) C.C.E.         Read Paint Project Content (Planning and Design Costs) TOTAL Prolimitaties and Project Costs TOTAL Prolimitaties and Project Costs TOTAL Prolimitaties and Project Costs TOTAL Solviers Read (Roundabout)         7.5000 7.5000 7.5000 7.5000 7.5000         % % % % % % % % %         \$24,954         \$44,969         \$44,969           C.D.E. Relact Contengero Allowands TOTAL Prolimitaties and Project Costs TOTAL Prolimitaties and Prole Costs TOTAL Prolimitaties and			4	no	\$3,442	\$13,767			
C.D. al       450dia reinforced concrete pipe including excavation, and Side entry pite including liner, cover, excavation, and Pater 100 (1990)       130       m       \$233       \$30.297       \$40.963       \$40.963         C.D.2       associated works       TOTAL Road Drainage       5.000       %       \$333.126       \$10.666       \$40.963         C.E.E.       Territin Management       5.000       %       \$333.126       \$49.969       \$44.973       \$44.736       \$42.4736       \$42			-		<i>•••••</i>	<i>+ · · · · · · · · · · · · · · · · · · ·</i>	\$13,767		
C.D. al       450dia reinforced concrete pipe including excavation, and Side entry pite including liner, cover, excavation, and Pater 100 (1990)       130       m       \$233       \$30.297       \$40.963       \$40.963         C.D.2       associated works       TOTAL Road Drainage       5.000       %       \$333.126       \$10.666       \$40.963         C.E.E.       Territin Management       5.000       %       \$333.126       \$49.969       \$44.973       \$44.736       \$42.4736       \$42	C.C.D	Road Drainage							
C.D.2Side ertry pits inducting iner, cover, escavation, and TOTAL Road DrainageAno ItemR2.667S10.668A S40.963A S40.963C.C.E. C.E.E. Territor Management75.000%S33.126S49.969C.C.E.2Construction Costs)75.000%S33.126S24.944C.C.E.3Torget Owner's Cost (Planning and Design Costs) TOTAL Soldiers Road (Roundabout)75.000%S33.126S24.944C.C.E.3Risk Contingency Allowance TOTAL Soldiers Road (Roundabout)75.000%S33.126S24.944 </td <td></td> <td>450dia reinforced concrete pipe including excavation</td> <td>100</td> <td></td> <td><b>#000</b></td> <td>¢00.007</td> <td></td> <td></td> <td></td>		450dia reinforced concrete pipe including excavation	100		<b>#000</b>	¢00.007			
C.D.D.2.         associated works in TOTAL Read Drainage         4         no.         S2.667         \$10.666         \$40,963           C.G.E.1         Termininaries and Project Costs         50000         %         \$333,128         \$16.666         1         1         1         1         1         1         1         1         1         50000         %         \$333,128         \$40,963         \$16.666         1<			130	m	\$233	\$30,297			
C.C.E. C.C.E.1         Preliminaries and Project Costs Tartific Management         5.000         %         \$333,128         \$16,666         Image: Construction Costs)         Construction Costs           C.C.E.2         Construction Costs         15,0000         %         \$333,126         \$49,969         \$16,666           C.C.E.3         Project Owner's Cost (Planning and Design Costs) TOTAL Solders Road (Roundabout)         7,5000         %         \$333,126         \$24,934         \$134,083         \$467,210           C.D.E.4         South Western Highway (Channelised Intersection) Road Works and Sile Preparation         %         \$22         \$4,106         \$50           C.D.A.3         Stet Clearance (based on light shrubs)         2,550         m2         \$22         \$4,106         \$2,500         \$333,126         \$34,164         \$34,164           C.D.A.3         Cuth The General Entervooks         2,550         m2         \$24         \$4,106         \$333,164         <	C.C.D.2		4		\$2,667	\$10,666	¢40.062		
C.C.E.1         Traffic Management         5.0000         %         \$333.128         \$18.6.666         C         C           C.C.E.2         Construction Costs)         15.0000         %         \$333.126         \$49.969         \$42.978           C.C.E.4         Project Owner's Cost (Planning and Design Costs) TOTAL Preliminaries and Project Costs TOTAL Soldiers Road (Roundabout)         7.5000         %         \$333.126         \$24.984         \$134.083         \$467.210           C.D.A         South Western Highway (Channelised Intersection) Road Works Earthworks and Ste Preparation C.D.A.1         \$2.550         m2         \$4         \$8,976           C.D.A         South Western Highway (Channelised Intersection) Road Works Earthworks and Ste Preparation C.D.A.1         \$2.550         m2         \$2         \$4,102         \$30           C.D.A         Cub Fill- General Earthworks C.D.A.2         Removal of topson1 50mm and stockpile for later re-use Stopparate Preparation C.D.A.3         \$2.550         m2         \$2.520         \$30         \$30         \$50           C.D.A         Detailed accavation - mill and profile         18.000         m2         \$19         \$34.164         \$30           C.D.A         Broweral fill - General Earthworks         2.550         m2         \$41         \$52.30         \$2.256         \$30           C.		TOTAL Road Drainage		Item			\$40,963		
Project Overheads and Preliminaries (Indirect C.C.E.2       15.0000       %       \$333,126       \$49,969         C.C.E.3       Project Owerh's Cost (Planning and Design Costs) C.C.E.4       7.5000       %       \$333,126       \$42,474       \$134,083         C.C.E.4       Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Soldiers Road (Roundabout)       7.5000       %       \$333,126       \$42,474       \$134,083         C.D.B       South Western Hishway (Channelised Intersection) C.D.A.1       Soldiers Road (Roundabout)       2.550       m2       \$4       \$8,976         C.D.A.2       Removal of topsol 1500m and stockpile for later re-use C.D.A.3       2.550       m2       \$2       \$4,106         C.D.A.2       Removal of topsol 1500m and stockpile for later re-use C.D.A.4       2.550       m2       \$2       \$4,106         C.D.A.3       Cub Fill - General Earthworks       2.550       m3       \$8       \$6,296         C.D.A.4       Removal of topsol 1500m and stockpile for later re-use C.D.A.5       765       m3       \$8       \$6,296         C.D.A.4       Removal of topsol 1500m and stockpile for later re-use C.D.A.5       707       \$4,150       \$541         C.D.A.5       Border Fill       0       m3       \$30       \$2,271         S.D.4       Dottime fo			5 0000	0/_	¢333 126	\$16 656			
C.C.E.3 C.C.E.4Poject Owner's Cott (Planning and Design Costs) TOTAL Proliminaties and Project Costs TOTAL Proliminaties and Project Costs TOTAL Soldiers Road (Roundabout)7.5000 10.0000% % % htem\$33.126 \$42.4736\$24.844.\$134.083\$467.210C.D.ASouth Western Hishway (Channelised Intersection) C.D.A.1South Western Hishway (Channelised Intersection) Ste Clearance (based on light shrubs)2.550m2\$4\$5.90\$1\$4\$1 <td></td> <td></td> <td>5.0000</td> <td>70</td> <td>φ333,120</td> <td>\$10,000</td> <td></td> <td></td> <td></td>			5.0000	70	φ333,120	\$10,000			
C.C.E.4Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Soldiers Road (Roundabout)10.0000% Item\$424,736\$422,474\$134,083\$467,210C.D C.D.ASouth Western Highway (Channelised Intersection) C.D.A is addivers Road (Roundabout)2,550m2\$4\$50\$50C.D.A.1Site Clearance (based on light shrubs)2,550m2\$4\$8,976\$6C.D.A.2Cut Policional Stockpile for later re-use Subgrade Preparation2,550m2\$2\$4,106\$6,226C.D.A.3Cut Policional Stockpile for later re-use Subgrade Preparation2,550m2\$6\$14,025\$1C.D.A 5Imported Fill1,800m2\$19\$34,164\$50\$6C.D.A 6Preparation, trill and profile1,800m2\$19\$24,106\$50C.D.A 7100mm thick crushed rock base course Road Paving2,466m2\$8\$20,271\$100mm thick crushed show base Road Paving\$1,980m2\$31\$61,855C.D.A 12Mountable Kerb (MK)1,980m2\$4\$5,99\$1\$1\$1C.D.A 2Mountable Kerb (MK)60m\$2,57\$1,526\$1,526\$1\$1\$1\$2,772\$1<	C.C.E.2	Construction Costs)	15.0000	%	\$333,126	\$49,969			
TOTAL Preliminaries and Project Costs TOTAL Soldiers Road (Roundabout)ItemItemItemS134.083S467.210C.D. C.D.A.Soldiers Road (Roundabout)2.550m2S4S8.976C.D.A.Read/Works Road/Works2.550m2S4S8.976C.D.A.Removal of topsoil 150mm and stockpile for later re-use C.D.A.S C.D.A.A2.550m2S4.106 S6.296S6.296C.D.A.S C.D.A.S C.D.A.S C.D.A.S C.D.A.S C.D.A.S C.D.A.S D.D.A.S Solgade Preparation, imil and profile Subgrade Preparation, imil and profile S0 S.D.A.12.550m2S6S14.025 S0S9C.D.A.S S.D.A.S 									
TOTAL Soldiers Road (Roundabout)Image: Road Works South Western Highway (Channelised Intersection) Road Works Earthworks and Site Preparation Site Clearance (based on light shrubs)2,550m2S4S0S0C.D.A.Removal of topsol 150mm and stockpile for later re-us Detailed excavation - mill and profile Subgrade Preparation765m2S8S6,226C.D.A.Removal of topsol 150mm and stockpile for later re-us Subgrade Preparation765m2S8S6,226C.D.A.Detailed excavation - mill and profile Subgrade Preparation2,550m2S6S14,025C.D.A.Detailed excavation - mill and profile Subgrade Preparation2,650m2S6S14,025C.D.A.Detailed excavation - mill and profile Subgrade Preparation2,650m2S6S14,025C.D.A.Promote fill Subgrade Preparation2,666m2S17S43,164S.D.A.S0mm thick crusted rock base course Road Paving2,466m2S17S43,164S.D.A.S0mm thick crusted rock base course Somm thick crusted limestone sub base Road Paving2,466m2S17S43,106C.D.A.S0mm thick (AC14)1,980m2S1S61,855S0C.D.A.Remover for 2% red oxide90m2S4S61,855C.D.A.1Reminer SelfS0S0S1,526S1,526C.D.A.2Reminer SelfS0S1S2,372C.D.A.3Reminer SelfS0S0S1,526S1,526C.D.A			10.0000		\$424,736	\$42,474	\$134 083		
C.D.A. Earthworks and Sile Preparation C.D.A.         Road Works Earthworks and Sile Preparation C.D.A.4         Note Sile Clearance (based on light shrubs)         Note Sile C.S.So           C.D.A.12         Form Fried C.S.MK/ Line Marking and Furniture         Go         M         S2         S1         S2         S1           C.D.A.13         Street sign post         I         No         S1         S2         S1         S2           C.D.A.14         Line marking         G60 </td <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td><i><b>↓</b>,</i></td> <td>\$467,210</td> <td></td>		-					<i><b>↓</b>,</i>	\$467,210	
C.D.A. Earthworks and Sile Preparation C.D.A.         Road Works Earthworks and Sile Preparation C.D.A.4         Note Sile Celearance (based on light shrubs)         Note Sile C.S.So									
Earthworks and Site Preparation2,550m2S4S0C.D.A.1Site Clearance (based on light shrubs)2,550m2S4S8,976C.D.A.2Cut to fail- General Earthworks765m3S8S6,296C.D.A.3Detailed excavation - mill and profile1,800m3S30Excl.C.D.A.4Imported Fill0m3S30Excl.Unt Digade Preparation2,550m2S6S14,025Sub Base and Base Course2,466m2S8S20,271C.D.A.3Zomm thick compacted limestone sub base2,466m2S17S43,106C.D.A.4Som thick Coll1,980m2S31S61,855C.D.A.5Somm thick (AC14)1,980m2S14S7,999C.D.A.1Primer seal1,980m2S12S1,526C.D.A.12Mountable Kerb (MK)60mS25S1,526C.D.A.13Streit name plate1noS12S12C.D.A.45Street sign post1noS12S122C.D.A.55Street sign post1noS122S122C.D.A.6Street sign post2noS199S34									
C.D.A.2 C.D.A.3Removal of topsoil 150mm and stockpile for later re-use C.D.A.42,550 765m3 785\$2 8,199\$4,106 8,199C.D.A.5Detailed excavation - mill and profile (D.A.51,800 100mm thick compact Subgrade Preparation 100mm thick compact Subgrade Preparation2,550m2\$66\$1,4025 \$0C.D.A.7100mm thick compact Subgrade Preiparation Subgrade Preiparation2,466m2\$8\$20,271 \$131\$43,106 \$0C.D.A.7100mm thick compact Guilenestone sub base Subgrade Preiparation C.D.A.92,466m2\$8\$20,271 \$313\$43,106 \$0C.D.A.9500m thick compact Guilenestone sub base Subgrade Preiparation C.D.A.91,980m2\$31\$61,855C.D.A.950mm thick (AC14)1,980m2\$4\$7,999 \$0\$0C.D.A.10Primer seal Kerbing600m\$20\$1,526C.D.A.11Primer seal Line Marking and Furniture660m\$30\$2,372 \$0C.D.A.14Line marking660m\$122\$122C.D.A.15Street sign post1no\$122\$122C.D.A.16Street sign post2no\$199\$398						\$0			
C.D.A.3       Cut to Fill General Earthworks       765       m3       \$8       \$6,296         C.D.A.4       Detailed excavation - mill and profile       1,800       m2       \$19       \$33.0       Excl.         C.D.A.5       Imported Fill       0       m3       \$30       Excl.       \$0         Subgrade Preparation       2,550       m2       \$6       \$14,025       \$0         C.D.A.6       Preparation, trim and compact       2,550       m2       \$86       \$20,271         C.D.A.8       Road Paving       1,980       m2       \$\$17       \$43,106         Road Paving       1,980       m2       \$\$18       \$20,271         C.D.A.9       50mm thick compacted limestone sub base       2,466       m2       \$\$17       \$43,106         Road Paving       1,980       m2       \$\$13       \$61,855       \$61         C.D.A.9       50mm thick (AC14)       1,980       m2       \$\$6       \$561         C.D.A.10       ktra over for 2% red oxide       90       m2       \$\$6       \$561         C.D.A.12       Mountable Kerb (MK)       60       m       \$\$2,372       \$\$0         C.D.A.13       Street sign post       1       no       \$122<	C.D.A.1	Site Clearance (based on light shrubs)	2,550	m2	\$4	\$8,976			
C.D.A.4       Detailed excavation - mill and profile       1,800       m2       \$19       \$34,164         C.D.A.5       Imported Fill       0       m3       \$30       Excl.         Subgrade Preparation       2,550       m2       \$6       \$14,025       \$0         C.D.A.6       Preparation, trim and compact       2,550       m2       \$8       \$20,271         C.D.A.7       100mm thick crushed rock base course       2,466       m2       \$31       \$61,855         C.D.A.8       500mm thick (AC14)       1,980       m2       \$31       \$61,855         C.D.A.8       50mm thick (AC14)       1,980       m2       \$44       \$7,999         S.D.A.11       Primer seal       1,980       m2       \$44       \$7,999         C.D.A.12       Mountable Kerb (MK)       600       m       \$2,372       \$1,526         C.D.A.12       Mountable Kerb (SMK)       80       m       \$30       \$2,372       \$0         C.D.A.13       Street sign post       1       no       \$122       \$122       \$122         C.D.A.14       Line marking       660       m       \$122       \$122       \$122         C.D.A.16       Street sign post       1	C.D.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,550	m2	\$2	\$4,106			
C.D.A.5 Subgrade PreparationMonored FillMonored FillStateStateC.D.A.6 Preparation, trim and compact Sub Base and Base Course2,550m2\$6\$14,025C.D.A.7 C.D.A.7100mm thick crushed rock base course 2,4662,466m2\$8\$20,271C.D.A.8 Somm thick course2,466m2\$17\$43,106C.D.A.950mm thick crushed rock base course 2,4662,466m2\$17\$43,106C.D.A.950mm thick (AC14)1,980m2\$31\$61,855C.D.A.10Extra over for 2% red oxide90m2\$6\$561C.D.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0C.D.A.12Mountable Kerb (MK)60m\$25,372 \$0\$1,526C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture660m\$6\$4,184C.D.A.14Line marking660m\$122\$122C.D.A.15Street sign post1no\$122\$122C.D.A.16Kreet name plate2no\$199\$398									
C.D.A.6 Sub Base and Base Course2,550m2\$6\$14,025 \$0C.D.A.7 C.D.A.8 Scom thick compacted limestone sub base Road Paving2,466m2\$8\$20,271C.D.A.950mm thick compacted limestone sub base Road Paving2,466m2\$31\$61,855C.D.A.950mm thick (AC14)1,980m2\$31\$61,855C.D.A.10Extra over for 2% red oxide90m2\$66\$561C.D.A.11Primer seal Kerbing1,980m2\$43\$7,999 \$0\$0C.D.A.12Mountable Kerb (MK)660m\$23,272 \$0\$1,526C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture660m\$30\$2,372 \$0C.D.A.14Ine marking660m\$122\$122C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398									
Sub Base and Base Course 1.00mm thick crushed rock base course 2.50mm thick crushed rock base course 2.50mm thick crushed rock base course 2.466n2\$\$8 \$20,271 \$17\$\$0 \$43,106 \$0C.D.A.950mm thick crushed rock base course 2.00 and Paving1,980m2\$31\$61,855C.D.A.950mm thick (AC14)90m2\$6\$561C.D.A.10Extra over for 2% red oxide90m2\$6\$561C.D.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0\$0C.D.A.12Mountable Kerb (MK)60m\$25\$1,526C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture660m\$6\$4,184C.D.A.14Line marking6600m\$122\$122C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398			2 550	m2	\$6				
C.D.A.8 Road Paving250mm thick compacted limestone sub base Road Paving2,466m2\$17\$43,106 \$0C.D.A.950mm thick (AC14)1,980m2\$31\$61,855C.D.A.10Extra over for 2% red oxide90m2\$66\$561C.D.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0\$0C.D.A.12Mountable Kerb (MK)60m\$25\$1,526C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture660m\$60\$2,372 \$0C.D.A.14Line marking660m\$612\$1,226C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398		Sub Base and Base Course	2,550	1112	φO				
Road Paving Somm thick (AC14)1,980m2\$31\$0\$0C.D.A.10Extra over for 2% red oxide90m2\$6\$561C.D.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0\$0C.D.A.22Mountable Kerb (MK)60m\$225\$1,526C.D.A.31Semi Mountable Kerb (SMK) Line Marking and Furniture660m\$30\$2,372 \$0\$0C.D.A.42Line marking660m\$6\$4,184\$122C.D.A.45Steet sign post1no\$122\$122C.D.A.46Steet name plate2no\$199\$398\$1			-						
C.D.A.10Extra over for 2% red oxide90m2\$6\$561C.D.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0\$0C.D.A.12Mountable Kerb (MK)600m\$255\$1,526C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture800m\$300\$2,372 \$0C.D.A.14Line marking6600m\$6\$4,184C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398		Road Paving		1112		\$0			
C.D.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0C.D.A.12Mountable Kerb (MK)60m\$25\$1,526C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture80m\$300\$2,372 \$0C.D.A.14Line marking660m\$66\$4,184C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398	C.D.A.9	50mm thick (AC14)	1,980	m2	\$31	\$61,855			
KerbingImage: Serbing	C.D.A.10	Extra over for 2% red oxide	90	m2	\$6	\$561			
C.D.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture80m\$30\$2,372 \$0C.D.A.14Line marking660m\$6\$4,184C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398			1,980	m2	\$4				
Line Marking and FurnitureLine Marking and FurnitureLine Marking and FurnitureLine MarkingSteet	C.D.A.12	Mountable Kerb (MK)	60	m	\$25	\$1,526			
Line Marking and FurnitureLine Marking and FurnitureLine Marking and FurnitureLine MarkingSteet	C.D.A.13	Semi Mountable Kerb (SMK)	80	m	\$30	\$2.372			
C.D.A.15Street sign post1no\$122\$122C.D.A.16Street name plate2no\$199\$398									
C.D.A.16 Street name plate 2 no \$199 \$398	C.D.A.14	Line marking	660	m	\$6	\$4,184			
	C.D.A.15	Street sign post	1	no	\$122	\$122			
C.D.A.17 Chevron sign 1 no \$613 \$613	C.D.A.16	Street name plate	2	no	\$199	\$398			
	C.D.A.17	Chevron sign	1	no	\$613	\$613			



	QUANIITY SURVEYORS & CONSTRUCTION COST CONSULTANTS		_	_	_	_	_	_
C.D.A.18	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
C.D.A.19	Soft landscaping	180	m2	\$0	Excl.			
C.D.A.20	Landscape mix	42	m3	\$90	\$3,780			
C.D.A.21	Rock pitching	8	m2	\$155	\$1,242			
C.D.A.22	Drainage layer Other	180	m2	\$0	Excl.			
C.D.A.23	Allow for connection to SWH TOTAL Road Works		item Item		\$20,000	\$236,945		
<u>C.D.B</u>	Shared Paths Earthworks and Site Preparation							
C.D.B.1	Site Clearance (based on light shrubs)	150	m2	\$4	\$528			
	Removal of topsoil 150mm and stockpile for later re-use	150	m2	\$2	\$242			
C.D.B.3 C.D.B.4	Cut to Fill - General Earthworks Imported Fill	45 0	m3 m3	\$8 \$30	\$370 Excl.			
	Subgrade Preparation Preparation, trim and compact Pathway	150	m2	\$6	\$825			
C.D.B.6	100 thick concrete footpath with broomed finish	150	m2	\$71	\$10,626			
C.D.B.7 C.D.B.8	Sand fill below concrete footpath (100mm) Pram ramp including tactile	150 2	m2 no	\$5 \$973	\$819 \$1,945			
	Line Marking and Furniture		110					
C.D.B.9	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$16,255		
<u>C.D.C</u>	Street Lighting							
C.D.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	2	no Item	\$3,442	\$6,883	\$6,883		
<u>C.D.D</u>	Road Drainage							
C.D.D.1	450dia reinforced concrete pipe including excavation and backfill	90	m	\$233	\$20,975			
C.D.D.2	Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage	2	no Item	\$2,667	\$5,333	\$26,308		
C.D.E	Preliminaries and Project Costs					• • • • • • •		
C.D.E.1	Traffic Management	5.0000	%	\$286,391	\$14,320			
C.D.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$286,391	\$42,959			
C.D.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$286,391	\$21,479			
	Risk Contingency Allowance	10.0000	%	\$365,148	\$36,515	¢445.070		
	TOTAL Preliminaries and Project Costs TOTAL South Western Highway (Channelised		Item			\$115,272		
	Intersection)						\$401,663	
<u>С.Е</u> <u>С.Е.А</u>	At-grade rail crossing Road Works							
C.E.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	1,063	m2	\$4	\$3,742			
C.E.A.2	Removal of topsoil 150mm and stockpile for later re-use	1,063	m2	\$2	\$1,711			
C.E.A.3 C.E.A.4	Cut to Fill - General Earthworks Dispose of material off site	532 532	m3 cum	\$8 \$10	\$4,378 \$5,320			
	Imported Fill	0	m3	\$10 \$30	Excl.			
C.E.A.6	Subgrade Preparation Preparation, trim and compact	1,063	m2	\$6	\$5,847			
C.E.A.7	Sub Base and Base Course 100mm thick crushed rock base course	740	m2	\$8	\$6,083			
C.E.A.8	250mm thick compacted limestone sub base Road Paving	740	m2	\$0 \$17	\$0,003 \$12,935			
C.E.A.9	50mm thick (AC14)	995	m2	\$31	\$31,084			
C.E.A.10	Primer seal Kerbing	995	m2	\$4	\$4,020			
C.E.A.11	Semi Mountable Kerb (SMK) Line Marking and Furniture	65	m	\$30	\$1,927			
C.E.A.12	Line marking	106	m	\$6	\$672			



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS		1			1	
.E.A.13	Line marking at crossing	995	sqm	\$10	\$9,950		
E.A.14	Traffic sign TOTAL Road Works	4	no Item	\$450	\$1,800	\$89,469	
<u> 2.E.B</u>	Shared Paths						
	Earthworks and Site Preparation Site Clearance (based on light shrubs)	213	m2	\$4	\$750		
	Removal of topsoil 150mm and stockpile for later re-use	213	m2	\$2	\$343		
	Cut to Fill - General Earthworks Dispose of material off site	107 107	m3 m3	\$8 \$10	\$881 \$1,070		
	Imported Fill	0	m3	\$30	Excl.		
	Subgrade Preparation						
	Preparation, trim and compact Pathway	213	m2	\$6	\$1,172		
	100 thick concrete footpath with broomed finish	213	m2	\$71	\$15,089		
C.E.B.8	Sand fill below concrete path (100mm)	213	m2	\$5	\$1,163		
	Pram ramp including tactile	4	no	\$973	\$3,891		
	Line Marking and Furniture						
;.E.B.10	Traffic sign	4	no	\$450	\$1,800		
	TOTAL Shared Paths		Item			\$26,157	
<u> C.E.C</u>	Street Lighting						
	<u>Street Lighting</u> 6.5 SOR Street Light Pole incl. all conduits, light cabling,						
	excavation, and related overheads (provisional						
C.E.C.1	allowance)	4	no	\$3,442	\$13,767		
	TOTAL Street Lighting		Item			\$13,767	
.E.D	Road Drainage						
	450dia reinforced concrete pipe including excavation				<b>A</b> -1		
.E.D.1	and backfill Side entry pits including liner, cover, excavation, and	115	m	\$233	\$26,801		
.E.D.2	associated works (provisional allowance)	4	no	\$2,667	\$10,666		
	TOTAL Road Drainage		Item	+_,	<b>+</b> · · <b>·</b> · · · ·	\$37,467	
<u>E.E</u>	Level crossing at Whitby Road Level crossing						
	Allow for new level crossing at Orton Road	1	no	\$632,500	\$632,500		
	TOTAL Level crossing at Whitby Road		item			\$632,500	
.E.F	Preliminaries and Project Costs						
	Traffic Management	10.0000	%	\$799,360	\$79,936		
	Project Overheads and Preliminaries (Indirect						
E.F.2	Construction Costs)	15.0000	%	\$799,360	\$119,904		
.E.F.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$799,360	\$59,952		
	Risk Contingency Allowance	10.0000	%	\$1,059,152	\$105,915		
	TOTAL Preliminaries and Project Costs		Item			\$365,707	\$4.405.00T
	TOTAL At-grade rail crossing						\$1,165,067
	Bett Road (Roundabout future extension)						
	Road Works						
.F.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	2,728	m2	\$4	\$9,603		
					+0,000		
	Removal of topsoil 150mm and stockpile for later re-use	2,728	m2	\$2	\$4,392		
	Cut to Fill - General Earthworks Detailed excavation - mill and profile	819 900	m3 m2	\$8 \$19	\$6,740 \$17,082		
	Imported Fill (Provisional)	1,316	m3	\$30	\$39,480		
	Subgrade Preparation						
	Preparation, trim and compact Sub Base and Base Course	2,728	m2	\$6	\$15,004		
	100mm thick crushed rock base course	2,139	m2	\$8	\$17,583		
.F.A.8	250mm thick compacted limestone sub base	2,139	m2	\$17	\$37,390		
	Road Paving	4 670	~0	¢04	¢50.000		
F.A.9	50mm thick (AC14)	1,672	m2	\$31	\$52,233		
.F.A.10	Primer seal	1,672	m2	\$4	\$6,755		
	Brick Paving		Item		\$0		
FΔ11	80 thick brick pavers	393	m2	\$100	\$39,339		
		535	1112	φτου	ψ09,009		
.F.A.12	30 thick compacted sand bed	240	m2	\$2	\$394		
E A 40	40 thick compacted conditioned (DAD)	150	~ 2	¢o	¢225		
.г.А.13	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335		
.F.A.14	170mm thick compacted limestone	240	m2	\$11	\$2,729		
			l i i i i i i i i i i i i i i i i i i i	. 1			



			1	1	1		1	1
	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674			
C.F.A.16	Mountable Kerb (MK)	70	m	\$25	\$1,781			
C.F.A.17	Semi Mountable Kerb (SMK)	146	m	\$30	\$4,329			
C.F.A.18	Barrier Kerb (BK) Line Marking and Furniture	54	m	\$53	\$2,869			
C.F.A.19	Line marking	70	m	\$6	\$444			
C.F.A.20	Street sign post	1	no	\$122	\$122			
C.F.A.21	Street name plate	2	no	\$199	\$398			
C.F.A.22	Traffic sign Landscaping	4	no	\$450	\$1,800 \$0			
C.F.A.23	Soft landscaping	227	m2	\$0	Excl.			
C.F.A.24	Landscape mix Other	57	m3	\$90	\$5,130			
C.F.A.25	Allow for connection to Soldiers Road (both directions) TOTAL Road Works		ltem Item		\$20,000	\$288,605		
<u>C.F.B</u> C.F.B.1	<u>Shared Paths</u> Earthworks and Site Preparation Site Clearance (based on light shrubs)	364	m2	\$4	\$1,281			
C.F.B.2	Removal of topsoil 150mm and stockpile for later re-use	364	m2	\$2	\$586			
	Cut to Fill - General Earthworks Imported Fill	110 182	m3 m3	\$8 \$30	\$905 \$5,460			
	Subgrade Preparation Preparation, trim and compact	364	m2	\$6	\$2,002			
	Pathway 100 thick concrete footpath with broomed finish	364	m2	\$71	\$25,786			
	Sand fill below concrete path (100mm) Pram ramp including tactile	364 8	m2 no	\$5 \$973	\$1,987 \$7,781			
C.F.B.9	Tactile paving Line Marking and Furniture	13	m2	\$325	\$4,225			
C.F.B.10	Traffic sign TOTAL Shared Paths	4	no Item	\$450	\$1,800	\$51,814		
<u>C.F.C</u>	Street Lighting							
C.F.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
<u>C.F.D</u> C.F.D.1	<u>Road Drainage</u> 450dia reinforced concrete pipe including excavation and backfill	130	m	\$233	\$30,297			
	Side entry pits including liner, cover, excavation, and associated works	6	no	\$2,667	\$15,999			
0.1.0.2	TOTAL Road Drainage	0	Item	φ2,007	\$15, <del>555</del>	\$46,296		
<u>C.F.E</u> C.F.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$400,481	\$20,024			
C.F.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$400,481	\$60,072			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs	7.5000 10.0000	% % Item	\$400,481 \$510,614	\$30,036 \$51,061	\$161,194		
	TOTAL Bett Road (Roundabout future extension)						\$561,675	
<u>C.G</u> C.G.A	<u>Utilitities</u> Power and Lighting (Western Power)							
	General Provisional Sum of \$100,000 as it is not clear if diversions are required TOTAL Power and Lighting (Western Power)	1	PS Item	\$100,000	\$100,000	\$100,000		
<u>C.G.B</u>	Communications (NBN / Telstra / Westnet / etc.)					,		
	General Provisional Sum of \$100,000 as it is not clear if diversions are requred	1	PS	\$100,000	\$100,000			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$100,000		



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
<u>C.G.C</u>	Water and Sewer (Water Corporation) No allowance has been made for Water Corporation diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
<u>C.G.D</u>	Gas (ATCO) No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		
<u>C.G.E</u> C.G.E.1 C.G.E.2	<u>Preliminaries and Project Costs</u> Traffic Management Project Overheads and Preliminaries (Indirect Construction Costs)	10.0000 15.0000	% %	\$200,000 \$200,000	\$20,000 \$30,000			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs <b>TOTAL Utilitities</b>	5.0000 10.0000	% % Item	\$200,000 \$260,000	\$10,000 \$26,000	\$86,000	\$286,000	
7	Estimated Imported Fill	31,905	m3					
A.A.A.7 A.A.A.5	Total m3 of Cut to Fill - General Earthworks	31,905	m3 m3					
А.А.А.З	Less Cut to Fill costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	nported Fill	" sheet at the	end of these co	ostings.	\$0	
	TOTAL Road – New Whitby Road		ltem					\$17,485,755



### Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D	ROAD – NORTH-SOUTH ROAD							
	Road Construction							
<u>D.A.A</u>	Road Works				<b>\$</b> 0			
D.A.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	30,970	m2	\$4	\$0 \$109,014			
D.A.A. I	Sile Clearance (based on light shrubs)	30,970	mz	Φ4	\$109,014			
D.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	30,970	m2	\$2	\$49,862			
	Cut to Fill - General Earthworks	10,778	m3	\$8	\$88,703			
D.A.A.4	Imported Fill	0	m3	\$30	Excl.			
D.A.A.5	Form swale	4,956	m2	\$4	\$18,783			
	Subgrade Preparation	00.070		<b>^</b>	\$0			
D.A.A.6	Preparation, trim and compact Sub Base and Base Course	30,970	m2	\$6	\$170,335 \$0			
D.A.A.7	100mm thick crushed rock base course	21,555	m2	\$8	ەں \$177,182			
D.A.A.8	250mm thick compacted limestone sub base	21,555	m2	\$17	\$376,781			
	Road Paving	21,000		ψH	\$0			
	50mm thick (AC14)	18,582	m2	\$31	\$580,502			
D.A.A.10	Extra over for 2% red oxide	3,717	m2	\$6	\$23,157			
			-		<b>*</b>			
D.A.A.11	Primer seal	18,582	m2	\$4	\$75,071			
	Kerbing				\$0			
D A A 12	Mountable Kerb (MK)	2,478	m	\$25	\$63,040			
D.A.A.12		2,470		ΨΖΟ	φ00,0+0			
D.A.A.13	Kerb openings	124	no	\$350	\$43,400			
D.A.A.14	Semi Mountable Kerb (SMK)	2,478	m	\$30	\$73,473			
	Line Marking and Furniture				\$0			
<b>.</b>		1		<b>^</b>	<b>AA A A</b>			
D.A.A.15	Line marking	4,956	m	\$6	\$31,421			
	Landscaping				\$0			
D.A.A.16	Soft landscaping	7,020	m2	\$0	Excl.			
		,,0_0		<i>t</i> .				
D.A.A.17	Landscape mix	1,755	m3	\$90	\$157,950			
D.A.A.18	Rock pitching	413	m2	\$155	\$64,118			
	Designed laws	7 400		¢o	Final			
D.A.A.19	Drainage layer TOTAL Road Works	7,433	m2 Item	\$0	Excl.	\$2,102,793		
	TOTAL ROAD WORKS		item			φz,10z,793		
D.A.B	Shared Paths							
	Earthworks and Site Preparation							
D.A.B.1	Site Clearance (based on light shrubs)	6,194	m2	\$4	\$21,803			
	Removal of topsoil 150mm and stockpile for later re-use	6,194	m2	\$2	\$9,972			
	Cut to Fill - General Earthworks	1,859	m3	\$8	\$15,300			
D.A.B.4	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
D.A.B.5	Preparation, trim and compact	6,194	m2	\$6	\$34,067			
0.7 (10.0	Pathway	0,101		ΨŬ	<i>\\\</i> 01,007			
D.A.B.6	100 thick concrete footpath with broomed finish	6,194	m2	\$71	\$438,783			
D.A.B.7	Sand fill below concrete footpath (100mm)	6,194	m2	\$5	\$33,819			
	TOTAL Shared Paths		Item			\$553,744		
<u>D.A.C</u>	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	71	20	\$3,442	\$244,362			
D.A.C.1	6.5 DOR Street Light Pole incl. all conduits, light cabling,	71	no	φ3,44Z	φ244,302			
D.A.C.2	excavation, and related overheads	36	no	\$5,111	\$183,995			
	TOTAL Street Lighting		Item			\$428,357		
<u>D.A.D</u>	Road Drainage							
<b>D</b> • - •	450dia reinforced concrete pipe including excavation and			A	<b>A</b>			
D.A.D.1	backfill	1,239	m	\$233	\$288,749			
	150dia slotted PVC subsoil drainage pipe including	4 000		¢400	¢000.075			
D.A.D.2	aggregate, geofabric and porous sand	1,239	m	\$189	\$233,675			
					CESP mosured at			
	Side entry pits including liner, cover, excavation, and				mesured at intersections,			
D.A.D.3	associated works	0	no	\$2,667	RAB's			
1		-	I	+_,001		1	I	I I



	QUANIIIT SURVETORS & CONSTRUCTION COST CONSULTANTS		1			1	1
	Raised gully / bubble up pits including liner, cover, grate,						
D.A.D.4	excavation, rock pitching, and associated works 6500x600mm box culvert incl. headwall, excavation,	42	no	\$3,021	\$126,864		
.A.D.5	backfill, etc. Remove existing culvert in preparation for new culvert	30	m	\$9,919	\$297,583		
.A.D.6	(approximatley 7m wide) TOTAL Road Drainage	1	LS Item	\$9,823	\$9,823	\$956,695	
. <u>A.E</u> .A.E.1	<u>Preliminaries and Project Costs</u> Traffic Management	5.0000	%	\$4,041,589	\$202,079		
A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$4,041,589	\$606,238		
.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$4,041,589	\$303,119		
A.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Road Construction	10.0000	% Item	\$5,153,026	\$515,303	\$1,626,740	\$5,668,329
B	Watkins Road (Roundabout)						
<u>B.A</u>	<u>Road Works</u> Earthworks and Site Preparation						
B.A.1	Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814		
.B.A.2 .B.A.3	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	2,504 752	m2 m3	\$2 \$8	\$4,031 \$6,189		
.B.A.4	Imported Fill	0	m3	\$30	Excl.		
).B.A.5	Subgrade Preparation Preparation, trim and compact	2,504	m2	\$6	\$13,772		
.B.A.6	Sub Base and Base Course 100mm thick crushed rock base course	1,983	m2	\$8	\$16,300		
.B.A.7 .B.A.8	200mm thick compacted limestone sub base 250mm thick compacted limestone sub base	1,983	m2 m2	\$14 \$17	\$0 \$34,663		
B.A.9	Road Paving			\$31			
	50mm thick (AC14)	1,518	m2		\$47,422		
3.A.10	Primer seal Brick Paving	1,518	m2 Item	\$4	\$6,133 \$0		
3.A.11	80 thick brick pavers	333	m2	\$100	\$33,333		
3.A.12	30 thick compacted sand bed	180	m2	\$2	\$295		
.A.13	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335		
3.A.14	170mm thick compacted limestone	180	m2	\$11	\$2,047		
3.A.15	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674		
.A.16	Mountable Kerb (MK)	70	m	\$25	\$1,781		
3.A.17	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240		
B.A.18	Barrier Kerb (BK) Line Marking and Furniture	54	m	\$53	\$2,869		
B.A.19	Line marking	53	m	\$6	\$336		
.B.A.20	Street sign post	1	no	\$122	\$122		
B.A.21	Street name plate	2	no	\$199	\$398		
.B.A.22	Chevron sign	1	no	\$613	\$613		
B.A.23	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0		
B.A.24	Soft landscaping	227	m2	\$0	Excl.		
B.A.25	Landscape mix Other	57	m3	\$90	\$5,130		
B.A.26	Allow for connection to Watkins Road (both sides) TOTAL Road Works		item Item		\$20,000	\$212,847	
<u>).B.B</u>	<u>Shared Paths</u> Earthworks and Site Preparation						
	Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253		
D.B.B.1	, °,						



1.1.1	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
D.B.B.4	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation							
D.B.B.5	Preparation, trim and compact	356	m2	\$6	\$1,958			
D.B.B.6	Pathway 100 thick concrete footpath with broomed finish	356	m2	\$71	\$25,219			
	Sand fill below concrete path (100mm)	356	m2	\$7 \$5	\$23,219 \$1,944			
	Pram ramp including tactile	6	no	\$973	\$5,836			
D.B.B.9	Tactile paving	10	m2	\$325	\$3,250			
	Line Marking and Furniture							
D B B 10	Traffic sign	2	no	\$450	\$900			
0.0.0.10	TOTAL Shared Paths	-	Item	φ100	4000	\$41,814		
<u>D.B.C</u>	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	4	no	\$3,442	\$13,767			
D.B.C. I	TOTAL Street Lighting	4	Item	φ3,44Z	φ13,707	\$13,767		
						, , , ,		
<u>D.B.D</u>	Road Drainage							
D.B.D.1	450dia reinforced concrete pipe including excavation and backfill	130	m	\$233	\$30,297			
0.0.0.1	Side entry pits including liner, cover, excavation, and	150		φ200	<i>430,231</i>			
D.B.D.2	associated works	4	no	\$2,667	\$10,666			
	TOTAL Road Drainage		Item			\$40,963		
<u>D.B.E</u>	Preliminaries and Project Costs							
D.B.E.1	Traffic Management	5.0000	%	\$309,390	\$15,470			
	Project Overheads and Preliminaries (Indirect				, ., .			
D.B.E.2	Construction Costs)	15.0000	%	\$309,390	\$46,409			
D.B.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$309,390	\$23,204			
	Risk Contingency Allowance	10.0000	%	\$394,473	\$39,447			
	TOTAL Preliminaries and Project Costs		Item	··· / ·	<b>, ,</b>	\$124,530		
	TOTAL Watkins Road (Roundabout)						\$433,920	
D.C	Galvin Road (Roundabout)							
D.C.A	Road Works							
	Earthworks and Site Preparation							
D.C.A.1	Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
D.C.A.2	Removal of topsoil 150mm and stockpile for later re-use	2,504	m2	\$2	\$4,031			
	Cut to Fill - General Earthworks	752	m3	\$8	\$6,189			
D.C.A.4	Imported Fill	0	m3	\$30	Excl.			
D.C.A.5	Subgrade Preparation Preparation, trim and compact	2,504	m2	\$6	\$13,772			
D.C.A.5	Sub Base and Base Course	2,504	mz	φο	φ13,77Z			
D.C.A.6	100mm thick crushed rock base course	1,983	m2	\$8	\$16,300			
D.C.A.7	250mm thick compacted limestone sub base	1,983	m2	\$17	\$34,663			
	Road Paving 50mm thick (AC14)	1,518	m2	\$31	\$47,422			
	Primer seal	1,518	m2	\$4	\$6,133			
	Brick Paving	,		Ť	<i>• - •</i>			
		000		<b>\$</b> 400	<b>#</b> 00.000			
D.C.A.10	80 thick brick pavers	333	m2	\$100	\$33,333			
D.C.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
D.C.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
			1		-			
D.C.A.1.5	170mm thick compacted limestone	180	m2	\$11	\$2.047			
D.C.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
D.C.A.14	250mm thick compacted limestone sub base	180 153	m2 m2	\$11 \$17	\$2,047 \$2,674			
D.C.A.14								
D.C.A.14	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674			
D.C.A.14	250mm thick compacted limestone sub base							
D.C.A.14 D.C.A.15	250mm thick compacted limestone sub base Kerbing	153	m2	\$17	\$2,674			
D.C.A.14 D.C.A.15 D.C.A.16	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK)	153 70 143	m2 m m	\$17 \$25 \$30	\$2,674 \$1,781 \$4,240			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK)	153 70	m2 m	\$17 \$25	\$2,674 \$1,781			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK)	153 70 143	m2 m m	\$17 \$25 \$30	\$2,674 \$1,781 \$4,240			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK)	153 70 143	m2 m m	\$17 \$25 \$30	\$2,674 \$1,781 \$4,240			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture Line marking	153 70 143 54 53	m2 m m m	\$17 \$25 \$30 \$53 \$6	\$2,674 \$1,781 \$4,240 \$2,869 \$336			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture	153 70 143 54	m2 m m m	\$17 \$25 \$30 \$53	\$2,674 \$1,781 \$4,240 \$2,869			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18 D.C.A.19	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture Line marking	153 70 143 54 53	m2 m m m	\$17 \$25 \$30 \$53 \$6	\$2,674 \$1,781 \$4,240 \$2,869 \$336			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18 D.C.A.19 D.C.A.20	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture Line marking Street sign post Street name plate	153 70 143 54 53 1 2	m2 m m m no no	\$17 \$25 \$30 \$53 \$6 \$122 \$199	\$2,674 \$1,781 \$4,240 \$2,869 \$336 \$122 \$398			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18 D.C.A.19 D.C.A.20	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture Line marking	153 70 143 54 53 1	m2 m m m no	\$17 \$25 \$30 \$53 \$6 \$122	\$2,674 \$1,781 \$4,240 \$2,869 \$336 \$122			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18 D.C.A.19 D.C.A.20 D.C.A.21	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture Line marking Street sign post Street name plate	153 70 143 54 53 1 2	m2 m m m no no	\$17 \$25 \$30 \$53 \$6 \$122 \$199	\$2,674 \$1,781 \$4,240 \$2,869 \$336 \$122 \$398			
D.C.A.14 D.C.A.15 D.C.A.16 D.C.A.17 D.C.A.18 D.C.A.19 D.C.A.20 D.C.A.21 D.C.A.21	250mm thick compacted limestone sub base Kerbing Mountable Kerb (MK) Semi Mountable Kerb (SMK) Barrier Kerb (BK) Line Marking and Furniture Line marking Street sign post Street name plate Chevron sign	153 70 143 54 53 1 2 1	m2 m m m no no no	\$17 \$25 \$30 \$53 \$6 \$122 \$199 \$613	\$2,674 \$1,781 \$4,240 \$2,869 \$336 \$122 \$398 \$613			



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D.C.A.23	Soft landscaping	227	m2	\$0	Excl.			
D.C.A.24	Landscape mix Other	57	m3	\$90	\$5,130			
D.C.A.25	Allow for connection to Galvin Road (both sides) TOTAL Road Works		item Item		\$20,000	\$212,847		
<u>D.C.B</u>	<u>Shared Paths</u> Earthworks and Site Preparation							
D.C.B.1	Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253			
	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	356 107	m2 m3	\$2 \$8	\$573 \$881			
	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation Preparation, trim and compact Pathway	356	m2	\$6	\$1,958			
D.C.B.6 D.C.B.7	100 thick concrete footpath with broomed finish Sand fill below concrete path (100mm)	356 356	m2 m2	\$71 \$5	\$25,219 \$1,944			
	Pram ramp Pram ramp including tactile	6	no no	\$670 \$973	\$5,836			
D.C.B.9	Tactile paving Line Marking and Furniture	10	m2	\$325	\$3,250			
D.C.B.10	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$41,814		
<u>D.C.C</u>	Street Lighting							
D.C.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
D.C.D	Road Drainage							
D.C.D.1	450dia reinforced concrete pipe including excavation and backfill	130	m	\$233	\$30,297			
D.C.D.2	Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage	4	no Item	\$2,667	\$10,666	\$40,963		
<u>D.C.E</u>	Preliminaries and Project Costs					÷,		
D.C.E.1	Traffic Management	5.0000	%	\$309,390	\$15,470			
	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$309,390	\$46,409			
	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$309,390	\$23,204			
D.C.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs TOTAL Galvin Road (Roundabout)	10.0000	% Item	\$394,473	\$39,447	\$124,530	\$433,920	
D.D	Utilitities							
	Power and Lighting (Western Power)							
D.D.A.1	General Provisional Sum of \$100,000 as it is not clear if diversions are requred TOTAL Power and Lighting (Western Power)	1	PS Item	\$100,000	\$100,000	\$100,000		
<u>D.D.B</u>	Communications (NBN / Telstra / Westnet / etc.)							
D.D.B.1	General Provisional Sum of \$100,000 as it is not clear if diversions are requred	1	PS	\$100,000	\$100,000			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$100,000		
D.D.C	Water and Sewer (Water Corporation)							
	No allowance has been made for Water Corporation							
	diversions as we do not see existing mains from our							
	diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
<u>D.D.D</u>	desktop study					\$0		
	desktop study TOTAL Water and Sewer (Water Corporation)					\$0		
	desktop study TOTAL Water and Sewer (Water Corporation) <u>Gas (ATCO)</u> No allowance has been made for ATCO diversions as		ltem			\$0 \$0		
D.D.E	desktop study TOTAL Water and Sewer (Water Corporation) <u>Gas (ATCO)</u> No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO) <u>Preliminaries and Project Costs</u>	10.0000	Item Note Item	\$200.000	\$20 000			
<u>D.D.E</u> D.D.E.1	desktop study TOTAL Water and Sewer (Water Corporation) <u>Gas (ATCO)</u> No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO) <u>Preliminaries and Project Costs</u> Traffic Management Project Overheads and Preliminaries (Indirect	10.0000	Item Note Item	\$200,000	\$20,000			
<u>D.D.E</u> D.D.E.1 D.D.E.2	desktop study TOTAL Water and Sewer (Water Corporation) <u>Gas (ATCO)</u> No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO) <u>Preliminaries and Project Costs</u> Traffic Management	10.0000 15.0000 5.0000	Item Note Item	\$200,000 \$200,000 \$200,000	\$20,000 \$30,000 \$10,000			



	Total Adjustment for Imported Fill (less Cut to Fill)	See "Ir	nported Fill	" sheet at the o	<mark>end of these cos</mark>	stings.	\$0	\$6.822.168
	Less Cut to Fill costed	0	m3	\$30	\$0			
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	14,355	m3					
A.A.A.7	Estimated Imported Fill	12,060	m3					
	TOTAL Preliminaries and Project Costs TOTAL Utilitities		ltem			\$86,000	\$286,000	



#### Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

E ADA - SKYLUE FOLLEYARD         RAD - SKYLUE FOLLEYARD         Sub	Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
EA Bade Construction EAAA         Read Construction EA	Е	ROAD – SKYLINE BOULEVARD							
Earthworks and Size Programmed         Chi T         RD         SD           EAA2         Second of tegorif (brown and abody to for hore re-use         6.817         rn2         15         510.811           EAA3         Central of tegorif (brown and abody to for hore re-use         6.817         rn2         15         510.811           EAA3         Central of tegorif (brown and abody to for hore re-use         6.817         rn2         15         510.811           EAA3         Central of tegorif (brown and abody to for hore re-use         6.817         rn2         15         50           EAA5         Form wale         Cantor         6.817         rn2         16         50           EAA5         Form wale         Cantor         6.817         rn2         16         50           EAA1         Soconte (brown and abody to the term re-use         6.817         rn2         18         854.522           EAA1         Soconte (brown and abody to term re-use         6.817         rn2         18.40         854.522           EAA13         Soconte (brown and abody to term re-use         6.817         rn2         18.00         854.522           EAA10         Morrable Kerb (MK)         E20         rn         530         516.501           EA	<u>E.A</u>								
E.A.A.1       Ske Clearance inserve on light simulab.       6.817       n2       54       \$2.3398       []]         E.A.A.2       Cut SPII- General Earbounds       0.8177       n2       52       \$10.3577         E.A.A.3       Cut SPII- General Earbounds       0.201       n2       54       \$12.310         E.A.A.5       Stoged Proparation       6.817       n2       58       \$37.3484         Sub Constraint Constr	<u>E.A.A</u>					¢o			
E.A.A.3       Outor EIII - General Enthmodes       2.231       m3       88       \$18.361         E.A.A.4       Imported File       0       m3       80       \$50         B.A.Guide File       0       m3       80       \$50       \$50         B.A.Guide File       0       m3       80       \$50       \$50         E.A.A.6       Properation, film and compact       6.617       m2       86       \$51.44       \$50         E.A.A.7       D.Seam Base Ocumes exume       4.617       m2       \$14       \$50.450       \$50         E.A.A.8       Som thick compacting instance sub base       4.617       m2       \$14       \$50.450       \$50         E.A.4.1       Mountable Keth (MK)       620       m       \$25       \$15.773       \$50         E.A.11       Mountable Keth (MK)       620       m       \$20       \$10.350       \$10.450         E.A.11       Mountable Keth (MK)       620       m       \$20       \$10.350       \$10.450         E.A.12       Keth opening       31       no       \$50       \$10.350       \$10.450         E.A.14       Rock piching       52       m2       \$20       \$20       \$20       \$20       \$	E.A.A.1		6,817	m2	\$4				
E.A.A.       Imported File       0       m3       330       80       80         E.A.S.       Form swele       620       m2       54       32.50       80         Subgase Preparation       6.817       m2       54       32.50       80         E.A.S.       Form swele       6.817       m2       58       58.7844         E.A.G.       Sub base and base Course       4.617       m2       51       58.367         E.A.A.S.       Sub base and base Course       4.617       m2       51       58.37         E.A.A.S.       Sub base course       4.617       m2       51       58.37         E.A.A.S.       Sub base course       4.617       m2       51       58.37         E.A.A.S.       Montable Kath (AC10)       620       m       50       \$10.803       50         E.A.A.1       Montable Kath (MX)       620       m       50       \$10.803       50       50         E.A.A.1       Kath some function       52       m3       50       \$10.803       50       50         E.A.A.1       Kath some function       52       m2       \$10       \$10.80       \$270,415       50       50       50       50			6,817	m2					
E.A.5       Form swale       620       n2       94       92,300         E.A.6       Preparation, rim and compant Sub Base and Base Course       6,817       n2       86       837,344         Sub Base and Base Course       4,617       m2       83       837,822         E.A.7       100mm thick caruphate dimensione and base course       4,617       m2       81       863,810         E.A.4       200mm thick caruphate dimensione and base course       4,617       m2       518       863,810         E.A.4       200mm thick caruphate dimensione and base course       4,617       m2       518       863,810         E.A.4       200mm thick Caruphate dimensione and base course       4,617       m2       518       863,810         E.A.41       Mannable Keth (MK)       620       m       520       \$10,830       \$10,830         E.A.13       Semi Mountable Keth (MK)       620       m2       \$50       \$10,830       \$10,830         E.A.14       Landstageing and Fundure       527       m2       \$10       \$10,830       \$10,830         E.A.14       Dandstable Keth (MK)       520       m2       \$10,830       \$10,830       \$10,830       \$10,830         E.A.14       Jundstable Keth (MK) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
Subgrade Preparation         Subgrade Preparation         Subgrade Preparation         Subgrade Preparation           EAAB         Preparation time accourse         4.017         m2         \$6         \$37,400           EAAB         300         34.080         m2         \$14         \$86,402         \$14           EAAB         300         m100         3.488         m2         \$18         \$35,752           EAAB         300         m16x concept on base ourse         4.017         m2         \$4         \$44,692           EAAB         300         m16x (Arc10)         3.488         m2         \$18         \$350           EAA1         Mountable Keth (MK)         620         m         \$25         \$15,773           EAA13         Semi Mountable Keth (MK)         620         m         \$30         \$18,833           EAA13         Semi Mountable Keth (MK)         620         m         \$30         \$18,833           EAA14         Concrete Indue Staphong         570         m2         \$0         Exct           EAA14         Lindue Staphong         52         m2         \$10         \$0         \$24           EAA15         Indue Staphong         52         m2         \$10 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		-							
E.A.6       Properation. trim and compact       6.817       m2       Seb       537.404         Sub Base and Base Course       4.617       m2       S8       537.952         E.A.7       100mm thick curbed role base ourse       4.617       m2       S14       S4.93         E.A.8       00mm thick curbed file store sub base       4.617       m2       S14       S37.952         E.A.43       00mm thick curbed file store sub base       4.617       m2       S14       S4.93         E.A.41       0 trime curbed file store sub base       3.486       m2       S4       S14.083         E.A.41       Noutable Keth (MK)       620       m       S30       S10.383         E.A.13       Sem Mourable Keth (SMK)       620       m       S30       S10.383         E.A.41       Concrete fush edge baam       155       m       S0       Excl.         E.A.14       Line Maring and Furniture       220       m3       S90       S10.933         E.A.41       Line Maring and Furniture       230       m2       S15       S0.073         E.A.41       Line Maring and Furniture       200       m3       S90       S370.415         E.A.41       Line Maring and Supple for       930	L.A.A.0		020	1112	ΨŦ				
E.A.A.8       200mm thick compacted imeistone sub base       4.617       n2       \$14       \$64.622         E.A.9       30mm thick (AC10)       3.486       n2       \$18       \$63.410         E.A.10       brimer seal       3.486       n2       \$18       \$63.410         E.A.11       Mountable Kerb (MK)       620       m       \$25       \$15.773         E.A.12       Karb openings       31       no       \$350       \$10.850         E.A.13       Sami Mountable Kerb (MK)       620       m       \$300       \$18.383         E.A.14       Concrete fush dage baam       155       m       \$267       \$10.333         E.A.14       Lame marking       620       m       \$66       \$3.031         Landscaping       620       m       \$61       \$50       \$0         E.A.14       Landscaping       620       m       \$61       \$50.073         E.A.14       Landscaping       620       m       \$165       \$8.073         E.A.14       Drainage layer       930       n2       \$10       \$11.600         Drainage layer       930       n2       \$10       \$370.415       \$11.600         E.A.20       Connection	E.A.A.6		6,817	m2	\$6				
Raad Paving         Raad Paving         State         State         State         State           EAA.9         30mm bic (AC10)         3.486         m2         \$18         \$50         50           EAA.10         Minor seal Kething         3.486         m2         \$14         \$14,033         \$50           EAA.11         Mountable Keth (MK)         620         m         \$25         \$15,773           EAA.12         Keth openings         31         no         \$350         \$10,850           EAA.13         Semi Mountable Keth (MK)         620         m         \$300         \$18,383           EAA.14         Concrete fluch edge beam         155         m         \$67         \$10,393           EAA.15         Line mariting         620         m         \$86         \$3.931           EAA.16         Soft landscaping         620         m         \$80         \$19,800           EAA.16         Soft landscaping         620         m3         \$90         \$19,800           EAA.17         Landscaping         22         m3         \$90         \$19,800           Cander thing         510,000         \$19,800         \$19,800         \$300,415           EAA.19         <				m2					
E.A.9.       30mm thick (AC10)       3.446       m2       \$18       \$63.400       Image 1         E.A.10       Vertro great       3.446       m2       \$4       \$14.083       \$0         E.A.11       Mountable Keth (MK)       620       m       \$255       \$15.773       Image 1         E.A.12       Keth openings       31       no       \$330       \$10.850       Image 1         E.A.13       Semi Mountable Keth (MK)       620       m       \$30       \$18.333       Image 1         E.A.14       Concrete flush edge beam       155       m       \$6       \$3.3931       \$0         E.A.14       Line marking       Gord refere the flush of the flush of the properiod of the flush of the properiod of the properi	E.A.A.8		4,617	m2	\$14				
Kerbing         Kerbing         Kerbing         S0         S0         S0           EAA.11         Mountable Kerb (MK)         620         m         \$25         \$15,773           EAA.12         Kerb openings         31         no         \$300         \$18,383           EAA.13         Semi Mountable Kerb (SMK)         620         m         \$30         \$18,383           EAA.14         Corcrete flush edge beam         155         m         \$67         \$10,393           EAA.16         Corcrete flush edge beam         155         m         \$68         \$3,331           EAA.16         Soft landscaping         620         m         \$68         \$3,331           EAA.16         Soft landscaping         620         m3         \$60         \$10,800           EAA.17         Landscape mix         220         m3         \$80         \$19,800           EAA.17         Iandscape mix         220         m3         \$80         \$19,800           EAA.19         Orange layer         930         m2         \$10,000         \$370,415           EAA.20         Cornection to existing TOTAL Road Works         1,550         m2         \$4         \$54,56           EAA.3         Stor C	E.A.A.9		3,486	m2	\$18				
EAA.12Kerb openings3.1no\$350\$10.850\$10.850EAA.13Smit Mountable Kerb (SMK)620m\$30\$18.383EAA.44Concrete flush edge beam Line Marking and Fumiture155m\$67\$10.393 \$0EAA.15Line marking Landscaping620m\$67\$3.331 \$0EAA.15Line marking Landscaping620m\$66\$3.331 \$0EAA.15Line marking Landscaping620m\$60Excl.EAA.16Soft landscaping620m3\$90\$19.800EAA.17Landscape mix220m3\$90\$19.800EAA.18Rock pitching52m2\$155\$8.073CAA.19Doninge layer Other930m2\$30Excl.EAA.20Consection to existing TOTAL Road Works1.550m2\$4\$5.456EAB.3Shared Paths Estamboris and Sile Preparation EAB.31.550m2\$4\$5.456EAB.3Consection for based on light shrubes)1.550m2\$6\$8.525Paths ELAB.3Consect foolpath with broomed finish tables1.550m2\$6\$8.525FA.8.3Cut to Fill - General Earthworks tables1.550m2\$6\$8.525FA.8.4Shreet Paths teamborid1.550m2\$6\$8.525FA.8.4Shreet Paths teamborid1.550m2\$10.80.802E.A.7.5<	E.A.A.10		3,486	m2	\$4				
EAA.13Semi Mountable Kerb (SMK)620m\$30\$18,383EAA.14Concrete flush edge beam Line Marking and Furniture155m\$67\$10,393 \$0EAA.15Line marking Landscaping620m\$67\$10,393 \$0EAA.16Soft andscaping620m\$67\$10,393 \$0EAA.16Soft andscaping620m\$67\$10,293 \$0EAA.16Soft andscape mix220m3\$30Excl.EAA.17Landscape mix220m3\$30\$19,800EAA.18Rock pitching52m2\$155\$8,073EAA.19Orainage layer930m2\$0Excl.EAA.20Connection to existing TOTAL Road Worksitem Earthworks and Sile Preparation Earthworks and Sile Preparation Earthworks1,550m2\$34\$5,456EA.8.2Removal of topsoil 150mm and stockpile for later re-use to the concrete footpath with biroomed finish Exbd grade Preparation, it mand compact partway1,550m2\$2\$2,496 \$3,332EA.8.4Rock Differ of eater re-use to thill - Genpati Earthworks1,550m2\$5\$8,463 \$3,322\$19,800E.A.8.5Free constance (based on light shrubes)1,550m2\$5\$8,463 \$3,322\$19,800E.A.8.7Sond Hill below concrete footpath with biroomed finish Subgrade Preparation, mand compact partway1,550m2\$57,11\$109,802 \$8,463\$138,668E.A.7Sond Hill below c	E.A.A.11	Mountable Kerb (MK)	620	m	\$25	\$15,773			
E.A. 14Concrete flush edge beam Line Marking and Furniture155mS67\$10.393 \$0E.A. 15Line marking Landscaping620m\$6\$3.931 \$0E.A. 16Soft landscaping678m2\$0Excl.E.A. 17Landscape mix220m3\$90\$19.800E.A. 18Rock pitching52m2\$155\$8.073E.A. 19Drainage layer Other930m2\$0Excl.E.A. 20Connection to existing TOTAL Road WorksImage layer Difference\$10,000\$370,415E.A. 20Connection to existing TOTAL Road WorksImage layer Difference\$1,550m2\$4\$5,456E.A. 8Shared Paths Earthworks and Site Preparation E.A.B.1Site Clearance (tased on light shrubs)1,550m2\$2\$2,496E.A.8Removal of topsoil 150mm and stockpile for later re-use 1,550m2\$2\$2,496\$3,827E.A.8Rock concrete foopath with broomed finish Subgrade Preparation E.A.8.71,550m2\$571\$109,802E.A.8Rock Concrete foopath with broomed finish tort A. Shared Paths1,550m2\$571\$109,802E.A.8.7Sand fill below concrete foopath with broomed finish tort A. Shared Paths1,550m2\$571\$109,802E.A.8.7Sand fill below concrete foopath with broomed finish tort A. Shared Paths1,550m2\$571\$109,802E.A.8.7Sand fill below concrete foopath (100mm) tort A.	E.A.A.12	Kerb openings	31	no	\$350	\$10,850			
Line Marking and FurnitureLine Marking and FurnitureS0S0E.A.A.15Line marking Landscaping620m\$6\$3.931 \$0E.A.4.16Soft landscaping878m2\$0Excl.E.A.4.17Landscape mix220m3\$90\$19.800E.A.A.18Rock pitching52m2\$155\$8.073E.A.4.19Drainage layer Other930m2\$0Excl.E.A.20Connection to existing Torke Radd Works1.550m2\$15.5\$3.0.7415E.A.32Connection to existing Torke Radd Works1.550m2\$4\$5.456E.A.B. E.A.B.Site Clearance (based on light shrubs)1.550m2\$2\$2.496 \$3.300\$3.827E.A.B. E.A.B.Toll-General Earthworks1.550m2\$6\$3.525E.A.B. E.A.B.Toll-General Earthworks1.550m2\$5.827E.A.B.4Imported Fall Haway1.550m2\$6\$3.525E.A.B.5Toll-General Earthworks1.550m2\$5\$8.463E.A.B.7Toll-Lister Upth Pole incl. all conduits, light cabling, wavato, and related workeds (as per remainder of Styline Bivd)\$5.511\$45.999\$45.999E.A.DRead Drinage 	E.A.A.13	Semi Mountable Kerb (SMK)	620	m	\$30	\$18,383			
LandscapingLandscapingS0S0EAA.16Soft landscaping878m2S0Excl.EAA.17Landscape mix220m3S90\$19,800EAA.18Rock pitching52m2S155\$8,073EAA.19Drainage layer930m2\$0Excl.Other930m2\$0Excl.EAA.20Connection to existing TOTAL Road Worksitem Earthworks and Site Preparation Earthworksitem 1,550s10,000EAB.3Site Clearance (based on light shrubs)1,550m2\$2\$2,496EAB.4Site Clearance (based on light shrubs)1,550m2\$2\$2,496EAB.5Removal of topsol 150mm and stockpile for later re-use Labet and fill below concrete footpath with broomed finish TOTAL Shared Paths1,550m2\$2\$2,496EAB.5Stograde Preparation Preparation, tim and compact1,550m2\$6\$8,525EAB.6100 thick concrete footpath with broomed finish TOTAL Shared Paths1,550m2\$51\$109,802EA.B.5Stograde Preparation TOTAL Shared Paths9no\$51,111\$45,999\$45,999EA.CStreet Lighting9no\$51,111\$45,999\$45,999EA.DRoad Drainage 450dia reinforced concrete pipe including excavation and tacktill310m\$233\$72,246	E.A.A.14		155	m	\$67				
E.A.A.17Landscape mix220m3\$90\$19,800E.A.18Rock pitching52m2\$155\$8,073E.A.19Drainage layer Other930m2\$0Excl.E.A.20Connection to sisting TOTAL Road Worksitemitem\$10,000E.A.3.20Shared Paths Ste Clearance (based on light shrubs)1,550m2\$4E.A.3.Ste Clearance (based on light shrubs)1,550m2\$2E.A.3.Ste Clearance (based on light shrubs)1,550m2\$2E.A.3.Ste Clearance (based on light shrubs)1,550m2\$2E.A.3.Ste Clearance (based on light shrubs)1,550m2\$2S.A.3.Ste Clearance (based on light shrubs)1,550m2\$2E.A.3.Ste Clearance (based on light shrubs)1,550m2\$2S.A.4.5Preparation, tim and compact Pathway1,550m2\$5E.A.3.Sto flick concrete footpath with broomed finish TOTAL Shrared Paths1,550m2\$5E.A.B.7Sond fill below concrete footpath (100mm) TOTAL Strated Paths1,550m2\$5E.A.7.1Store Light Pole incl. all conduits, light cabling- excavation, and related overheads (as per remainder of Styline Bivd) Styline Bivd)9no Item\$5,111\$45,999E.A.D.Bead Drainage 450dia stelted PVC subsoil drainage pipe including 450dia stelted PVC subsoil drainage pipe including310m\$233\$72,246	E.A.A.15	-	620	m	\$6				
E.A.18Rock pitching52m2\$155\$8,073E.A.19Drainage layer Other930m2\$0Excl.E.A.20Connection to existing TOTAL Road Worksitem\$10,000E.A.B.1Shared Paths Earthworks and Site Preparation E.A.B.2\$10,000E.A.B.2Removal of topsol 150mm and stockpile for later re-use EA.B.3\$4\$5,456E.A.B.2Removal of topsol 150mm and stockpile for later re-use 465\$2\$2,496E.A.B.4Imported Fill Subgrade Preparation Subgrade Preparation EA.B.51,550m2\$2\$2,496E.A.B.4Imported Fill Subgrade Preparation Subgrade Preparation EA.B.51,550m2\$2\$2,496E.A.B.5Preparation, tim and compact TOTAL Shared Paths1,550m2\$5\$8,525E.A.B.7Sand fill below concrete footpath with broomed finish 1,5501,550m2\$5\$8,463\$138,568E.A.B.7Sand fill below concrete footpath (100mm) TOTAL Shared Paths1,550m2\$5,111\$45,999\$45,999E.A.C.1Stopide Bivd) Styline BivdStopide preparation of the additionation of the stopic pipe including excavation and backfill310m\$233\$72,246	E.A.A.16	Soft landscaping	878	m2	\$0	Excl.			
E.A.A.19Drainage layer Other930m2\$0Excl.E.A.A.20Connection to existing TOTAL Road Worksitem Item\$10,000\$370,415E.A.B.2Shared Paths Earthworks and Site Preparation Earthworks and Site Preparation EA.B.11,550m2\$4\$5,456E.A.B.2Removal of topsoil 150mm and stockpile for later re-use 4651,550m2\$2\$2,496E.A.B.3Cut to Fill - General Earthworks465m3\$8\$3,827E.A.B.4Subgrade Preparation Subgrade Preparation1,550m2\$6\$8,525E.A.B.5Preparation, trim and compact Pathway1,550m2\$6\$8,625E.A.B.6100 thick concrete footpath with broomed finish 1,5501,550m2\$71\$109,802E.A.B.7Sand fill below concrete footpath (100mm) TOTAL Shared Paths1,550m2\$51\$8,463E.A.C.1Skyline Bivd) TOTAL Shared Paths9no\$5.111\$45.999E.A.C.1Skyline Bivd) TOTAL Street Lighting9no\$5.111\$45.999E.A.D.1Road Drainage 450dia reinforced concrete pipe including excavation and backfill310m\$233\$72,246	E.A.A.17	Landscape mix	220	m3	\$90	\$19,800			
OtherOtherE.A.A.20Connection to existing TOTAL Road Worksitemitem\$10,000E.A.B.3Shared Paths Earthworks and Site Preparation1,550m2\$4\$5,456E.A.B.1Site Clearance (based on light shrubs)1,550m2\$2\$2,496E.A.B.2Removal of topsoil 150mm and stockpile for later re-use1,550m2\$2\$2,496E.A.B.3Cuto Fill - General Earthworks465m3\$8\$3,827E.A.B.4Imported Fill0m3\$300Excl.Subgrade Preparation Subgrade Preparation Fathway1,550m2\$6\$8,525E.A.B.5Preparation, trim and compact Pathway1,550m2\$71\$109,802E.A.B.6100 thick concrete footpath with broomed finish TOTAL Shared Paths1,550m2\$71\$109,802E.A.B.6Street Lighting111\$50m2\$8,463E.A.B.7Sand fill below concrete footpath (100mm)1,550m2\$5,111\$109,802E.A.B.6Street Lighting9no\$5,111\$45,999\$45,999E.A.C.1Skyline Bivd) TOTAL Street Light Pole incl. all conduits, light cabling, excavation, and related overheads (as per remainder of toTAL Street Lighting9no\$5,111\$45,999E.A.D.Road Drainage 450dia solted PVC subsoil drainage pipe including310m\$233\$72,246	E.A.A.18	Rock pitching	52	m2	\$155	\$8,073			
TOTAL Road WorksItemItem\$370,415E.A.B.Shared Paths Earthworks and Site Preparation1,550m2\$4\$5,456E.A.B.1Site Clearance (based on light shrubs)1,550m2\$2\$2,496E.A.B.2Removal of topsoil 150mm and stockpile for later re-use BLAB.31,550m2\$2\$2,496E.A.B.3Cut to Fill - General Earthworks465m3\$8\$3,827E.A.B.4Imported Fill Durbet Fill0m3\$300Excl.B.A.B.5Preparation1,550m2\$6\$8,525Pathway1,550m2\$6\$8,625Pathway1,550m2\$5\$8,463E.A.B.5Preparation, trim and compact Pathway1,550m2\$5\$100,802E.A.B.7Sand fill below concrete footpath with broomed finish TOTAL Shared Paths1,550m2\$5\$8,463E.A.C.1Street Light Pole incl. all conduits, light cabling, recavation, and related overheads (as per remainder of TOTAL. Street Light Pole incl. all conduits, light cabling, TOTAL. Street Lighting9no Item\$5,111\$45,999E.A.D.1Road Drainage 450dia soluted PVC subsoil drainage pipe including excavation and backfill310m\$233\$72,246	E.A.A.19		930	m2	\$0	Excl.			
EAR.B.1Earthworks and Site Preparation1,550m2\$4\$5,456E.A.B.2Removal of topsoil 150mm and stockpile for later re-use1,550m2\$2\$2,496E.A.B.3Cut to Fill - General Earthworks465m3\$8\$3,827E.A.B.4Imported Fill0m3\$30Excl.Subgrade Preparation0m3\$30Excl.E.A.B.5Preparation, trim and compact1,550m2\$6\$8,525Pathway1,550m2\$71\$109,802E.A.B.6100 thick concrete footpath with broomed finish1,550m2\$8,463TOTAL Shared Paths11,550m2\$8,463E.A.C.1Street Lighting11\$5\$8,463E.A.C.1Street Light Pole incl. all conduits, light cabling, excavation, and related overheads (as per remainder of E.A.C.1\$5,111\$45,999E.A.D.Road Drainage450 dia reinforced concrete pipe including excavation E.A.D.1310m\$233\$72,246	E.A.A.20	_				\$10,000	\$370,415		
EAR.B.1Earthworks and Site Preparation1,550m2\$4\$5,456E.A.B.2Removal of topsoil 150mm and stockpile for later re-use1,550m2\$2\$2,496E.A.B.3Cut to Fill - General Earthworks465m3\$8\$3,827E.A.B.4Imported Fill0m3\$30Excl.Subgrade Preparation0m3\$30Excl.E.A.B.5Preparation, trim and compact1,550m2\$6\$8,525Pathway1,550m2\$71\$109,802E.A.B.6100 thick concrete footpath with broomed finish1,550m2\$8,463TOTAL Shared Paths11,550m2\$8,463E.A.C.1Street Lighting	E.A.B	Shared Paths							
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E.A.B.3Cut to Fill - General Earthworks465m3\$8\$3,827E.A.B.4Imported Fill0m3\$30Excl.Subgrade Preparation1,550m2\$6\$8,525Pathway1,550m2\$71\$109,802E.A.B.6100 thick concrete footpath with broomed finish1,550m2\$5\$8,463TOTAL Shared Paths1,550m2\$5\$8,463\$138,568E.A.C.Street Lighting111\$45,999\$45,999E.A.C.1Skyline Bivd) TOTAL Street Lighting9no Item\$5,111\$45,999\$45,999E.A.D.1Road Drainage 450dia reinforced concrete pipe including excavation E.A.D.1310m\$233\$72,246				_	<b>.</b> .	<b>A</b>			
E.A.B.4Imported Fill Subgrade Preparation0m3\$30Excl.E.A.B.5Preparation, trim and compact Pathway1,550m2\$6\$8,525Pathway100 thick concrete footpath with broomed finish TOTAL Shared Paths1,550m2\$71\$109,802E.A.B.7Sand fill below concrete footpath (100mm) TOTAL Shared Paths1,550m2\$55\$8,463E.A.CStreet Lighting									
Subgrade PreparationSubgrade Preparation, trim and compact1,550m2\$6\$8,525Pathway100 thick concrete footpath with broomed finish1,550m2\$71\$109,802E.A.B.6100 thick concrete footpath with broomed finish1,550m2\$51\$8,463\$138,568E.A.B.7Sand fill below concrete footpath (100mm)1,550m2\$51\$8,463\$138,568E.A.B.7Street Lighting111111E.A.CStreet Lighting111111E.A.C.1Street Light Pole incl. all conduits, light cabling, excavation, and related overheads (as per remainder of TOTAL Street Lighting9no\$5,111\$45,999\$45,999E.A.D.1Road Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including310m\$233\$72,246									
E.A.B.6 E.A.B.7100 thick concrete footpath with broomed finish Sand fill below concrete footpath (100mm) TOTAL Shared Paths1,550m2 m2 ltem\$71 m2 ltem\$109,802 \$8,463\$138,568E.A.CStreet Lighting9no ltem\$5,111 ltem\$45,999\$45,999E.A.C.1Road Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including310m\$233\$72,246		Subgrade Preparation							
E.A.B.7Sand fill below concrete footpath (100mm) TOTAL Shared Paths1,550m2 Item\$5\$8,463\$138,568E.A.CStreet LightingImage: Concrete footpath (100mm) Item1,550m2 Item\$5\$8,463\$138,568E.A.CStreet LightingImage: Concrete footpath (100mm) Item1,550m2 Item\$5\$8,463\$138,568E.A.C.1Street Light Pole incl. all conduits, light cabling, excavation, and related overheads (as per remainder of Skyline Blvd) TOTAL Street Lighting9no Item\$5,111\$45,999\$45,999E.A.D 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including310m\$233\$72,246Image: Concrete pipe including		Pathway							
E.A.CStreet LightingImage: Street LightingImage: S		Sand fill below concrete footpath (100mm)							
6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads (as per remainder of Skyline Blvd) TOTAL Street Lighting       9       no       \$5,111       \$45,999         E.A.C.1       Road Drainage 450dia reinforced concrete pipe including excavation E.A.D.1       and backfill 150dia slotted PVC subsoil drainage pipe including       310       m       \$233       \$72,246				Item			\$138,568		
E.A.C.1excavation, and related overheads (as per remainder of Skyline Blvd) TOTAL Street Lighting9no Item\$5,111\$45,999\$45,999E.A.DRoad Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including310m\$233\$72,246	<u>E.A.C</u>			ļ					
E.A.C.1Skyline Blvd) TOTAL Street Lighting9no Item\$5,111\$45,999\$45,999E.A.DRoad Drainage 450dia reinforced concrete pipe including excavation and backfill 150dia slotted PVC subsoil drainage pipe including310m\$233\$72,246Image Image		· · · ·							
E.A.D.       Road Drainage         450dia reinforced concrete pipe including excavation       310       m       \$233       \$72,246         E.A.D.1       and backfill       310       m       \$233       \$72,246	E.A.C.1	Skyline Blvd)	9		\$5,111	\$45,999	\$45,999		
E.A.D.1 450dia reinforced concrete pipe including excavation and backfill 310 m \$233 \$72,246							φ-0,000		
E.A.D.1 and backfill 310 m \$233 \$72,246 150dia slotted PVC subsoil drainage pipe including	E.A.D	-							
	E.A.D.1	and backfill	310	m	\$233	\$72,246			
	E.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	310	m	\$189	\$58,466			



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
					CESP mesured at			
	Side entry pits including liner, cover, excavation, and	2		<b>A</b> O 007	intersections,			
E.A.D.3	associated works	0	no	\$2,667	RAB's			
E.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	11	no	\$3,021	\$33,226			
L.A.D.4	TOTAL Road Drainage		Item	ψ <b>3</b> ,02 Γ	ψ <b>3</b> 3,220	\$163,938		
E.A.E	Preliminaries and Project Costs							
E.A.E.1	Traffic Management Project Overheads and Preliminaries (Indirect	5.0000	%	\$718,920	\$35,946			
E.A.E.2	Construction Costs)	15.0000	%	\$718,920	\$107,838			
E.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$718,920	\$53,919			
E.A.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs	10.0000	% Item	\$916,624	\$91,662	\$289,365		
	TOTAL Road Construction		nom			<i>\</i> 200,000	\$1,008,286	
<u>E.B</u>	New Whitby Road (Roundabout)							
<u>E.B.A</u>	Road Works Earthworks and Site Preparation							
E.B.A.1	Site Clearance (based on light shrubs)	2,504	m2	\$4	\$8,814			
	Removal of topsoil 150mm and stockpile for later re-use	2,504	m2	\$2	\$4,031			
	Cut to Fill - General Earthworks Imported Fill	752 0	m3 m3	\$8 \$30	\$6,189 Excl.			
	Subgrade Preparation							
E.B.A.5	Preparation, trim and compact Sub Base and Base Course	2,504	m2	\$6	\$13,772			
	100mm thick crushed rock base course 250mm thick compacted limestone sub base	1,983 1,983	m2 m2	\$8 \$17	\$16,300 \$34,663			
	Road Paving							
E.B.A.8 E.B.A.9	50mm thick (AC14) Primer seal	1,518 1,518	m2 m2	\$31 \$4	\$47,422 \$6,133			
	Brick Paving		Item		\$0			
E.B.A.10	80 thick brick pavers	333	m2	\$100	\$33,333			
E.B.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
E.B.A.12	40 thick compacted sand bed (RAB)	153	m2	\$2	\$335			
E.B.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
E.B.A.14	250mm thick compacted limestone sub base	153	m2	\$17	\$2,674			
	Kerbing							
E.B.A.15	Mountable Kerb (MK)	70	m	\$25	\$1,781			
E.B.A.16	Semi Mountable Kerb (SMK)	143	m	\$30	\$4,240			
E.B.A.17	Barrier Kerb (BK)	54	m	\$53	\$2,869			
	Line Marking and Furniture							
E.B.A.18	Line marking	53	m	\$6	\$336			
E.B.A.19	Street sign post	1	no	\$122	\$122			
E.B.A.20	Street name plate	2	no	\$199	\$398			
E.B.A.21	Chevron sign	1	no	\$613	\$613			
E.B.A.22	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
E.B. A 23	Soft landscaping	227	m2	\$0	Excl.			
с.в.А.24	Landscape mix TOTAL Road Works	57	m3 Item	\$90	\$5,130	\$192,847		
E.B.B	Shared Paths							
E.B.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	356	m2	\$4	\$1,253			
E.B.B.3	Removal of topsoil 150mm and stockpile for later re-use Cut to Fill - General Earthworks	356 107	m2 m3	\$2 \$8	\$573 \$881			
E.B.B.4	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
E.B.B.5	Preparation, trim and compact Pathway	356	m2	\$6	\$1,958			
I	i autivay		I	I	1		I	l



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
E.B.B.7 E.B.B.8	100 thick concrete footpath with broomed finish Sand fill below concrete path (100mm) Pram ramp including tactile Tactile paving	356 356 6 10	m2 m2 no m2	\$71 \$5 \$973 \$325	\$25,219 \$1,944 \$5,836 \$3,250			
	Line Marking and Furniture	10	1112	ψ <b>0</b> 20	ψ0,200			
E.B.B.10	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$41,814		
	<u>Street Lighting</u> 6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads TOTAL Street Lighting	4	no Item	\$3,442	\$13,767	\$13,767		
	Road Drainage 450dia reinforced concrete pipe including excavation and backfill	130	m	\$233	\$30,297			
	Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage	4	no Item	\$2,667	\$10,666	\$40,963		
E.B.E.1	Preliminaries and Project Costs Traffic Management	5.0000	%	\$289,390	\$14,470			
	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$289,390	\$43,409			
	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance TOTAL Preliminaries and Project Costs <b>TOTAL New Whitby Road (Roundabout)</b>	7.5000 10.0000	% % Item	\$289,390 \$368,973	\$21,704 \$36,897	\$116,480	\$405,870	
	Tinspar Avenue (Roundabout) - already constructed Road Works Already Constructed				\$O			
	TOTAL Road Works		Item		<b>*</b> *	\$0		
E.C.B.1	<u>Shared Paths</u> Already Constructed TOTAL Shared Paths		ltem		\$0	\$0		
E.C.C.1	<u>Street Lighting</u> Already Constructed TOTAL Street Lighting		ltem		\$0	\$0		
	Road Drainage Already Constructed				\$0			
2.0.0.1	TOTAL Road Drainage		Item		ΨŬ	\$0		
E.C.E.1	Preliminaries and Project Costs Already Constructed TOTAL Preliminaries and Project Costs TOTAL Tinspar Avenue (Roundabout) - already constructed		ltem		\$0	\$0	\$0	
<u>E.D.A</u>	<u>Utilitities</u> <u>Power and Lighting (Western Power)</u> No allowance has been made for Western Power diversions as we do not see existing mains from our desktop study TOTAL Power and Lighting (Western Power)		Note			\$0		
	<u>Communications (NBN / Telstra / Westnet / etc.)</u> No allowance has been made for Communications diversions as we do not see existing mains from our desktop study		Note					
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$0		
	Water and Sewer (Water Corporation) No allowance has been made for Water Corporation diversions as we do not see existing mains from our desktop study TOTAL Water and Sewer (Water Corporation)		Note Item			\$0		
<u>E.D.D</u>	<u>Gas (ATCO)</u>							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		



	QUANTITY SURVEYORS & CONSTRUCTION COST CONSULTANTS							
E.D.E	Preliminaries and Project Costs		I		I			
E.D.E.1	Traffic Management	10.0000	%	\$0	\$0			
	Project Overheads and Preliminaries (Indirect							
E.D.E.2	Construction Costs)	15.0000	%	\$0	\$0			
E.D.E.3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$0	\$0			
E.D.E.4	Risk Contingency Allowance	10.0000	%	\$0	\$0			
	TOTAL Preliminaries and Project Costs		Item			\$0		
	TOTAL Utilitities						\$0	
A.A.A.7	Estimated Imported Fill	2,640	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	3,555	m3					
	Less Cut to Fill costed	0	m3	\$30	\$0			
	Total Adjustment for Immented Fill (less Out to Fill)	0					¢0	
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	nportea Fill	" sneet at the	<mark>end of these co</mark>	stings.	\$0	
	TOTAL Road (Remaining) – Skyline Boulevard		ltem					\$1,414,156
	Prefunded build completed prior to gazettal of the							
	Amendment under DCP Condition							\$1,320,000
								\$1,0 <u>2</u> 0,000
	Total to be included in DCP1							\$2,734,156



#### Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
F	ROAD – TINSPAR AVENUE							
	Road Construction							
<u>F.A.A</u>	Road Works Earthworks and Site Preparation				\$0			
F.A.A.1	Site Clearance (based on light shrubs)	26,701	m2	\$4	\$93,988			
F.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	26,701	m2	\$2	\$42,989			
	Cut to Fill - General Earthworks	8,739	m3	\$8	\$71,922			
	Imported Fill	0	m3	\$30	Excl.			
F.A.A.5	Form swale	2,428	m2	\$4	\$9,202			
F.A.A.6	Subgrade Preparation Preparation, trim and compact Sub Base and Base Course	26,701	m2	\$6	\$0 \$146,856			
F.A.A.7	100mm thick crushed rock base course	15,050	m2	\$8	\$123,711			
	200mm thick compacted limestone sub base	15,050	m2	\$14	\$210,550			
	Road Paving				\$0			
F.A.A.9	30mm thick (AC10)	12,137	m2	\$18	\$220,772			
F.A.A.10	Primer seal Brick Paving	12,137	m2 Item	\$4	\$49,033 \$0			
F.A.A.11	80 thick brick pavers	3,035	m2	\$100	\$303,804			
	30 thick compacted sand bed	3,035	m2	\$2	\$4,977			
	170mm thick compacted limestone			₅∠ \$11				
F.A.A.13	Kerbing	3,035	m2	ΦΠ	\$34,508 \$0			
F.A.A.14	Mountable Kerb (MK)	2,428	m	\$25	\$61,768			
F.A.A.15	Kerb openings	122	no	\$350	\$42,700			
F.A.A.16	Semi Mountable Kerb (SMK)	2,428	m	\$30	\$71,990			
	Concrete flush edge beam Line Marking and Furniture	1,214	m	\$67	\$81,399 \$0			
F.A.A.18	Line marking Landscaping	2,428	m	\$6	\$15,394 \$0			
F.A.A.19	Soft landscaping	3,439	m2	\$0	Excl.			
F.A.A.20	Landscape mix	860	m3	\$90	\$77,400			
F.A.A.21	Rock pitching	203	m2	\$155	\$31,516			
F.A.A.22	Drainage layer TOTAL Road Works	3,642	m2 Item	\$O	Excl.	\$1,694,477		
F.A.B	Shared Paths							
<u>1.74.D</u>	Earthworks and Site Preparation							
F.A.B.1	Site Clearance (based on light shrubs)	6,069	m2	\$4	\$21,363			
F.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	6,069	m2	\$2	\$9,771			
F.A.B.3	Cut to Fill - General Earthworks	1,821	m3	\$8	\$14,987			
F.A.B.4	Imported Fill	0	m3	\$30	Excl.			
F.A.B.5	Subgrade Preparation Preparation, trim and compact	6,069	m2	\$6	\$33,380			
F.A.B.6	Pathway 100 thick concrete footpath with broomed finish	6,069	m2	\$71	\$429,928			
	Sand fill below concrete footpath (100mm)	6,069	m2	\$5	\$33,137			
	TOTAL Shared Paths	-	ltem			\$542,565		
<u>F.A.C</u>	<u>Street Lighting</u> 6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads (as per remainder of							
F.A.C.1	Skyline Blvd) TOTAL Street Lighting	35	no Item	\$5,111	\$178,884	\$178,884		
<u>F.A.D</u>	Road Drainage 450dia reinforced concrete pipe including excavation	4 04 4		¢000	¢202.022			
F.A.D.1	and backfill	1,214	m	\$233	\$282,923	I	I	I I



F.A.D.       Base and prove statistic dramage free notation       1,214       n       3139       3228 980         F.A.D.       Site prove pleincluding lene, cover, noncontation, and secondario, not grant statistic grant secondario, not grant statistic grant secondario, not grant secon		QUANITY SURVETORS & CONSTRUCTION COST CONSULTANTS							
F.A.D.3         Side only is including line.cover, accarding, and the control of the including line.cover, accarding line.co			1,214	m	\$189	CESP			
FA.D.6       modulation, nock petrols, and associated works       41       no       \$3.021       \$122.844       \$335.727         FA.E.1       Tordiff. Acad Daniage       50.000       %       \$3.051.053       \$152.543         FA.E.2       Fordiff. Contracts and Preinfordires (Index)       15.000       %       \$3.051.053       \$152.543         FA.E.2       Fordiff. Contracts and Preinfordires (Index)       15.000       %       \$3.051.053       \$152.776         FA.E.2       Fordiff. Contracts and Preinfordires (Index)       75.000       %       \$3.051.055       \$152.776         FA.E.2       Fordiff. Contracts       75.000       %       \$3.051.055       \$152.82.00         FA.E.2       Fordiff. Contracts       75.000       %       \$3.051.055       \$128.200         FB.E.1       Mated (Contracts)       110.0000       %       \$3.051.055       \$128.200         FB.E.1       Mated (Contracts)       110.0000       %       \$3.00       \$30       \$30         FB.E.1       Mated (Contracts)       110.0000       110.000       \$30       \$30       \$30         FB.E.1       Mated (Contracts)       110.0000       110.000       \$30       \$30       \$30       \$30       \$30         FB.E.1	F.A.D.3		0	no	\$2,667	intersections,			
E.A.E. 1         Traffic Management Project Construction Construction Costs)         5.0000         %         5.3.051.653         512.2830         542.283           FA.E.2         Organization Costs)         7.6000         %         53.051.653         542.748         51.285.000           FA.E.2         Organization Costs)         7.6000         %         53.590.655         5529.056         55.285.000         51.285.000           FA.E.4         Project Costs TOTAL Road Construction         10.0000         %         53.590.655         55.90.000         50           FB.A.1         Remain Street Second Intersection - afready. East Constructed TOTAL Road Constructed         1         1         600         50         50         50         50           FB.D.1         Arreacy Constructed TOTAL Road Paths FB.D.1         Remain Afreats Constructed TOTAL Street Lighting         1         1         1         50	F.A.D.4	excavation, rock pitching, and associated works	41		\$3,021	\$123,844	\$635,727		
F.A.E.2       Construction Costs)       15.0000       %       33.051.653       347.748       F.A.F. 748         F.A.E.       Rest. Convers Cost (Panning and Design Costs)       7.0000       %       33.80.658       522.8.74       53.228.274         F.A.E.       Rest. Conversion Costs       10.0000       %       33.80.658       539.0004       51.228.270         F.B.E.       Kernan Street (Sessal) Intersection)- already.       Bern       Bern       50       50       50         F.B.A.       Already Constructed       To TAL. Read Works       Image: Sessal Market (Panning and Parity Constructed)       Bern       So       50       50         F.B.A.I       Already Constructed       Image: Sessal Market (Panning and Parity Constructed)       Image: Sessal Market (Panning and Parity Constructed)       Bern       So       50       50       50         F.B.A.I       Already Constructed       Image: Sessal Market (Panning and Parity Constructed)       Image: Sessal Market (Panning and Parity Constructed)       So       50		Traffic Management	5.0000	%	\$3,051,653	\$152,583			
F.A.E.4       TotAL Productingency Advance       10.000       %       \$3.880.858       \$382.066       \$1.228.250       \$4.279.944         E.B.       Street Gassull Intersection - already.       Item       Item       \$5.0       \$50       \$50         E.B.       Street Gassull Intersection - already.       Item       Item       Street Gassull Intersection - already.       \$50       \$50       \$50         F.B.A.1       Manual Paths       Item       Item       Street Gassull Intersection - already.       \$50       \$50       \$50         F.B.2.1       Manual Constructed       Item       Item       \$50       \$50       \$50         F.B.2.1       Street Lighting       Item       Item       \$50       \$50       \$50         F.B.1.1       Manual Constructed       Item       Item       \$50       \$50       \$50         F.B.2.1       Read Datanog       Item       Item       Item       \$50       \$50       \$50       \$50       \$50         F.B.3.1       Altendy Constructed       Item       Item       Item       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50       \$50 <td>F.A.E.2</td> <td></td> <td>15.0000</td> <td>%</td> <td>\$3,051,653</td> <td>\$457,748</td> <td></td> <td></td> <td></td>	F.A.E.2		15.0000	%	\$3,051,653	\$457,748			
E.B. E.B.A. Read/Works         Constructed Works         So         So         So           F.B.A. TOTAL Read/Works         Shared Pains Aleady Constructed         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Share Pains         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Share Pains         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Street Lighting         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Read Painse TotAL Read Painse         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Read Painse         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Read Painse         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Read Voints         Item         So         So         So           F.B.D. Aleady Constructed         TotAL Read Voints         So         So         So         So           F.B.D. Aleady Constructed         TotAL Read Voints         So         So         So         So           F.B.D. Aleady Constructed         TotAL		Risk Contingency Allowance TOTAL Preliminaries and Project Costs		%			\$1,228,290	\$4,279,944	
F.B.A.1       Netedy Constructed       1       Item       30       50         F.B.B.3       Shared Paths       50       50       50         F.B.D.1       Attesty Constructed       50       50         F.B.C.1       Street Lightion       30       50         F.B.D.1       Attesty Constructed       30       50         F.B.S.1       Attesty Constructed       30       50         TOTAL Preliminates and Project Costs       Total Atternary Steel Cassis       30       50         F.C.A       South Western Highway (Channelised Intersection) - already constructed       2,550       m2       54       30,70         F.C.A       South Western Highway (Channelised Intersection) - already constructed       2,550       m2       54       30,70         F.C.A       South Western Highway (Channelised Intersection) - already constructed       2,550       m2       54       30,70<									
F.B.1.1       Altready Constructed       50       50         F.B.2.C.       Street Lighting       1       1       1       1         F.B.2.C.       Street Lighting       50       50       50         F.B.2.C.       ToTAL Shared Parties       1       1       100       50         F.B.2.N.       Altready Constructed       50       50       50       50         F.B.1.N.       Namady Constructed       50       50       50       50         F.B.2.N.       Altready Constructed       50       50       50       50         F.B.1.N.       ToTAL Kearan Street (Gasguil Intersection) - already Constructed       50       50       50         TOTAL Kearan Street (Gasguil Intersection) - already Constructed       705       70       54       53,97         F.C.A.1       Subcarance (based on light shrubs)       2,550       rn2       54       50         F.C.A.2       Removal of topsoil 150mm and stockpie for later re-use       725       rn3       58       52,286       50         F.C.A.3       Subcarance (based counced - and counce to and portile       1,800       rn2       54       50       50         F.C.A.4       Debase counce       2,460       rn2       58 <td></td> <td>Already Constructed</td> <td></td> <td>ltem</td> <td></td> <td>\$0</td> <td>\$0</td> <td></td> <td></td>		Already Constructed		ltem		\$0	\$0		
F.B.C.1       Altready Constructed TOTAL Street Lighting       Item       \$0       \$0         F.B.D.1       Add Drainage F.B.D.1       Noad Drainage Altready Constructed TOTAL Road Drainage       Item       \$0       \$0         F.B.D.1       Add Drainage F.B.D.1       Fellowinaries and Project Costs TOTAL Kierna Street (Seaguli Intersection) - already constructed       Item       \$0       \$0         F.B.E.1       Foldiminaries and Project Costs TOTAL Kierna Street (Seaguli Intersection) - already constructed       Item       \$0       \$0       \$0         F.C.A.1       Removal of toposi 150mm and stockpile for later re-use Excl. A Detailed accuston - mail and profile       2,550       m2       \$4       \$8,8976         F.C.A.2       Removal of toposi 150mm and stockpile for later re-use Excl. A Detailed accuston - mail and profile       1,800       m2       \$10       \$34,164         F.C.A.3       Detailed accuston - mail and profile       0       m3       \$30       \$52,271         F.C.A.4       Detailed accuston - mail and profile       2,550       m2       \$4       \$50         F.C.A.4       Detailed accuston - mail and profile       0       m3       \$30       \$52,271         F.C.A.5       Removal of toposil 150mm and stockpile for later re-use Sub State and Exec Course       2,466       m2       \$11,025		Already Constructed		ltem		\$0	\$0		
F.B.D.1       Already Constructed TOTAL Road Drainage       Item       \$0       \$0         E.B.E.1       Preliminaries and Project Costs TOTAL Preliminaries and Project Costs TOTAL Preliminaries and Project Costs TOTAL Versiminaries and Project Costs TOTAL Kernan Stret (Seaguil Intersection) - aready constructed       Item       \$0       \$0         E.C.A. E.C.A.       South Western Highway (Channelised Intersection) - aready constructed       \$0       \$0       \$0         F.C.A.1       Stet Clearance (based on light shubs)       2,550       m2       \$4       \$8,976         F.C.A.2       Removal of toppoil 150mm and stockpile for later re-use F.C.A.3       \$10       \$2       \$4,106         F.C.A.3       Subgrade Preparation Subgrade Preparation, train and profile       1,800       m2       \$12       \$2,4106         F.C.A.4       Detailed exervation - mil and profile       0       m3       \$300       \$50       \$0         F.C.A.5       Imported Fill       0       m3       \$310       \$14,025       \$14,025         F.C.A.4       Detailed exervation - mil and profile       2,466       m2       \$17       \$43,106         F.C.A.4       Detailed exervation - sub base Road Paving       2,466       m2       \$17       \$43,106         F.C.A.1       Primer seal Kerbing       1,980       m2 <td></td> <td>Already Constructed</td> <td></td> <td>ltem</td> <td></td> <td>\$0</td> <td>\$0</td> <td></td> <td></td>		Already Constructed		ltem		\$0	\$0		
F.B.E.1       Already Constructed       S0       \$0         F.B.E.1       TOTAL Kiernan Street (Seaguil Intersection) - already constructed       Item       Item       \$0         F.C.A.       South Western Highway (Channelised Intersection) - already constructed       \$0       \$0         F.C.A.1       Read Works       S0       \$0       \$0         F.C.A.2       Removal of topsoil 150mm and stockpile for later re-use       2,550       m2       \$2       \$4,106         F.C.A.2       Removal of topsoil 150mm and stockpile for later re-use       2,550       m2       \$2       \$4,106         F.C.A.2       Removal of topsoil 150mm and stockpile for later re-use       765       m3       \$8       \$6,296         F.C.A.4       Iteled exavarion - mil and profile       1,800       m2       \$19       \$34,164         F.C.A.4       Delane and Base Course       2,466       m2       \$17       \$43,106         Subgrade Preparation       8       \$202,711       \$100mm thick compacted linestone sub base       \$2,466       m2       \$17       \$43,106       \$0         F.C.A.8       Base and Base Course       2,466       m2       \$17       \$43,106       \$0       \$0         F.C.A.10       Stra over for 2% red oxide       90		Already Constructed		ltem		\$0	\$0		
E.C.A.       Road Works Earthworks and Site Preparation       S0       S0         F.C.A.1       Site Clearance (based on light shrubs)       2,550       m2       \$4       \$0         F.C.A.2       Removal of topsoil 150mm and stockpile for later re-use F.C.A.3       2,550       m2       \$2       \$4,106         F.C.A.4       Detailed excavation - mil and profile       1,800       m2       \$19       \$34,164         F.C.A.4       Detailed excavation - mil and profile       1,800       m2       \$19       \$34,164         F.C.A.5       Imported Fill Subgrade Preparation, fm and compact Subgrade Preparation, fm and compact Subgrade Preparation, fm and compact Sub Base and Base Course       2,550       m2       \$6       \$14,025         F.C.A.6       Preparation, fm and compact Sub Base and Base Course       2,466       m2       \$17       \$43,106         F.C.A.7       100rm thick rushed rock base course       2,466       m2       \$17       \$43,106         F.C.A.8       250m thick compacted limestone sub base       2,466       m2       \$17       \$43,106         F.C.A.9       50mm thick (AC14)       1,980       m2       \$31       \$61,855       \$1         F.C.A.10       Extra over for 2% red oxide       90       m2       \$6       \$561       \$561		Already Constructed TOTAL Preliminaries and Project Costs <b>TOTAL Kiernan Street (Seagull Intersection) -</b>		ltem		\$0	\$0	\$0	
E.C.A.       Road Works Earthworks and Site Preparation       S0       S0         F.C.A.1       Site Clearance (based on light shrubs)       2,550       m2       \$4       \$0         F.C.A.2       Removal of topsoil 150mm and stockpile for later re-use F.C.A.3       2,550       m2       \$2       \$4,106         F.C.A.4       Detailed excavation - mil and profile       1,800       m2       \$19       \$34,164         F.C.A.4       Detailed excavation - mil and profile       1,800       m2       \$19       \$34,164         F.C.A.5       Imported Fill Subgrade Preparation, fm and compact Subgrade Preparation, fm and compact Subgrade Preparation, fm and compact Sub Base and Base Course       2,550       m2       \$6       \$14,025         F.C.A.6       Preparation, fm and compact Sub Base and Base Course       2,466       m2       \$17       \$43,106         F.C.A.7       100rm thick rushed rock base course       2,466       m2       \$17       \$43,106         F.C.A.8       250m thick compacted limestone sub base       2,466       m2       \$17       \$43,106         F.C.A.9       50mm thick (AC14)       1,980       m2       \$31       \$61,855       \$1         F.C.A.10       Extra over for 2% red oxide       90       m2       \$6       \$561       \$561									
F.C.A.1       Site Clearance (based on light shrubs)       2,550       m2       \$4       \$8,976         F.C.A.2       Removal of topsoil 150mm and stockpile for later re-use F.C.A.3       2,550       m2       \$2       \$4,106         F.C.A.4       Detailed excavation - mill and profile       1,800       m2       \$19       \$34,164         F.C.A.4       Detailed excavation - mill and profile       1,800       m2       \$19       \$34,164         F.C.A.5       Imported Fill       0       m3       \$30       Excl.       \$0         Subgrade Preparation       2,550       m2       \$6       \$14,025       \$0         F.C.A.7       100mm thick crushed rock base course       2,466       m2       \$17       \$43,106         Road Paving       50mm thick compacted limestone sub base       2,466       m2       \$17       \$43,106         Road Paving       1,980       m2       \$31       \$61,855       \$61         F.C.A.10       Extra over for 2% red oxide       90       m2       \$6       \$561         F.C.A.11       Primer seal       1,980       m2       \$6       \$561         F.C.A.12       Mountable Kerb (MK)       60       m       \$25       \$1,526         F.C.A	<u>F.C</u> <u>F.C.A</u>	Road Works				<b>\$</b> 0			
F.C.A.3       Cut to Fill - General Earthworks       765       m3       \$8       \$6,296         F.C.A.4       Detailed excavation - mill and profile       1,800       m2       \$19       \$34,164         F.C.A.5       Imported Fill       0       m3       \$30       Excl.         Subgrade Preparation       2,550       m2       \$6       \$14,025         F.C.A.6       Preparation, trim and compact       2,560       m2       \$8       \$20,271         F.C.A.7       100mm thick crushed rock base course       2,466       m2       \$17       \$43,106         Road Paving       50       m2       \$31       \$61,855       \$61,855         F.C.A.9       50mm thick (AC14)       1,980       m2       \$31       \$61,855         F.C.A.10       Extra over for 2% red oxide       90       m2       \$66       \$561         F.C.A.11       Primer seal       1,980       m2       \$4       \$7,999       \$0         F.C.A.12       Mountable Kerb (MK)       60       m       \$22,372       \$0       \$0         F.C.A.12       Semi Mountable Kerb (SMK)       80       m       \$30       \$2,372       \$0         F.C.A.14       Line marking       660	F.C.A.1		2,550	m2	\$4				
F.C.A.4       Detailed excavation - mill and profile       1,800       m2       \$19       \$34,164         F.C.A.5       Imported Fill       0       m3       \$30       Excl.         Subgrade Preparation       2,550       m2       \$6       \$14,025         Sub Base and Base Course       2,550       m2       \$6       \$14,025         F.C.A.7       D00mm thick coushed rock base course       2,466       m2       \$8       \$20,271         F.C.A.8       250mm thick compacted limestone sub base       2,466       m2       \$17       \$43,106         Rcad Paving       1,980       m2       \$31       \$61,855       \$61         F.C.A.10       Extra over for 2% red oxide       90       m2       \$6       \$561         F.C.A.11       Primer seal       1,980       m2       \$4       \$7,999       \$0         F.C.A.12       Mountable Kerb (MK)       60       m       \$20       \$1,526       \$1,526         F.C.A.13       Semi Mountable Kerb (SMK)       80       m       \$30       \$2,372       \$0         F.C.A.14       Line Marking and Furniture       660       m       \$6       \$4,184       \$2,50         F.C.A.15       Street sign post									
Subgrade Preparation       2,550       m2       \$6       \$14,025         F.C.A.7       Sub Base and Base Course       2,466       m2       \$8       \$20,271         F.C.A.8       250mm thick compacted limestone sub base       2,466       m2       \$17       \$43,106         Road Paving       50       m2       \$31       \$61,855       \$0         F.C.A.7       50mm thick compacted limestone sub base       2,466       m2       \$31       \$61,855         F.C.A.7       50mm thick (AC14)       1,980       m2       \$31       \$61,855         F.C.A.10       Extra over for 2% red oxide       90       m2       \$6       \$561         F.C.A.11       Primer seal Kerbing       1,980       m2       \$4       \$7,999       \$0         F.C.A.12       Mountable Kerb (MK)       60       m       \$25,272       \$1,526       \$1,526         F.C.A.13       Semi Mountable Kerb (SMK)       80       m       \$30       \$2,372       \$0         F.C.A.13       Semi Mountable Kerb (SMK)       80       m       \$30       \$2,372       \$0         F.C.A.14       Line marking       660       m       \$6       \$4,184       \$1         F.C.A.15       Str	F.C.A.4								
Sub Base and Base Course         Image: Course Probability of the crusted rock base course Proc.A.7         100mm thick crusted rock base course 2,466         m2 star         \$8         \$20,271         \$8         \$20,271         \$43,106         \$0         Image: Course Proc.A.8         So multick compacted limestone sub base Proc.A.8         2,466         m2 m2         \$17         \$43,106         \$0         Image: Course Proc.A.9         Som thick (AC14)         1,980         m2         \$31         \$61,855         Image: Course Proc.A.9         Som thick (AC14)         Image: Proc.A.9         Som main		Subgrade Preparation				\$0			
F.C.A.8 Road Paving F.C.A.9250mm thick compacted limestone sub base Road Paving 50mm thick (AC14)2,466m2\$17\$43,106 \$0F.C.A.10Extra over for 2% red oxide90m2\$31\$61,855F.C.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0F.C.A.12Mountable Kerb (MK)60m\$25\$1,526F.C.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture800m\$30\$2,372 \$0F.C.A.14Line marking660m\$122\$122F.C.A.15Street sign post1no\$122\$122F.C.A.16Street name plate2no\$199\$398		Sub Base and Base Course				\$0			
F.C.A.950mm thick (AC14)1,980m2\$31\$61,855F.C.A.10Extra over for 2% red oxide90m2\$6\$561F.C.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0\$0F.C.A.12Mountable Kerb (MK)60m\$25\$1,526F.C.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture80m\$30\$2,372 \$0F.C.A.14Line marking660m\$6\$4,184F.C.A.15Street sign post1no\$122\$122F.C.A.16Street name plate2no\$199\$398		250mm thick compacted limestone sub base				\$43,106			
F.C.A.11Primer seal Kerbing1,980m2\$4\$7,999 \$0F.C.A.12Mountable Kerb (MK)60m\$25\$1,526F.C.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture80m\$300\$2,372 \$0F.C.A.14Line marking660m\$66\$4,184F.C.A.15Street sign post1no\$122\$122F.C.A.16Street name plate2no\$199\$398	F.C.A.9	•	1,980	m2	\$31				
KerbingImage: Second secon	F.C.A.10	Extra over for 2% red oxide	90	m2	\$6	\$561			
F.C.A.13Semi Mountable Kerb (SMK) Line Marking and Furniture80m\$30\$2,372 \$0F.C.A.14Line marking660m\$6\$4,184F.C.A.15Street sign post1no\$122\$122F.C.A.16Street name plate2no\$199\$398	F.C.A.11		1,980	m2	\$4				
Line Marking and FurnitureImage: Second	F.C.A.12	Mountable Kerb (MK)	60	m	\$25	\$1,526			
F.C.A.15Street sign post1no\$122\$122F.C.A.16Street name plate2no\$199\$398	F.C.A.13		80	m	\$30				
F.C.A.16 Street name plate 2 no \$199 \$398	F.C.A.14	Line marking	660	m	\$6	\$4,184			
	F.C.A.15	Street sign post	1	no	\$122	\$122			
F.C.A.17 Chevron sign 1 no \$613 \$613	F.C.A.16	Street name plate	2	no	\$199	\$398			
	F.C.A.17	Chevron sign	1	no	\$613	\$613			



•••								
F.C.A.18	Traffic sign Landscaping	3	no	\$450	\$1,350 \$0			
F.C.A.19	Soft landscaping	180	m2	\$0	Excl.			
F.C.A.20	Landscape mix	42	m3	\$90	\$3,780			
F.C.A.21	Rock pitching	8	m2	\$155	\$1,242			
F.C.A.22	Drainage layer Other	180	m2	\$0	Excl.			
F.C.A.23	Allow for connection to SWH TOTAL Road Works		item Item		\$20,000	\$236,945		
F.C.B	Shared Paths							
F.C.B.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	150	m2	\$4	\$528			
	Removal of topsoil 150mm and stockpile for later re-use	150	m2	\$2	\$242			
	Cut to Fill - General Earthworks	45	m3	\$8 \$20	\$370 5xcl			
F.C.B.4	Imported Fill Subgrade Preparation	0	m3	\$30	Excl.			
	Preparation, trim and compact Pathway	150	m2	\$6	\$825			
F.C.B.6	100 thick concrete footpath with broomed finish	150	m2	\$71	\$10,626			
	Sand fill below concrete footpath (100mm)	150	m2	\$5	\$819			
F.C.B.8	Pram ramp including tactile Line Marking and Furniture	2	no	\$973	\$1,945			
F.C.B.9	Traffic sign TOTAL Shared Paths	2	no Item	\$450	\$900	\$16,255		
<u>F.C.C</u>	<u>Street Lighting</u> 6.5 SOR Street Light Pole incl. all conduits, light cabling,							
	excavation, and related overheads TOTAL Street Lighting	2	no Item	\$3,442	\$6,883	\$6,883		
<u>F.C.D</u>	Road Drainage							
F.C.D.1	450dia reinforced concrete pipe including excavation and backfill	90	m	\$233	\$20,975			
F.C.D.2	Side entry pits including liner, cover, excavation, and associated works TOTAL Road Drainage	2	no Item	\$2,667	\$5,333	\$26,308		
	Preliminaries and Project Costs Traffic Management	5.0000	%	\$286,391	\$14,320			
F.C.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$286,391	\$42,959			
	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$286,391	\$21,479			
F.C.E.4	Risk Contingency Allowance TOTAL Preliminaries and Project Costs	10.0000	% Item	\$365,148	\$36,515	\$115,272		
	TOTAL South Western Highway (Channelised Intersection)						\$401,663	
F.D	<u>Utilitities</u>							
F.D.A	Power and Lighting (Western Power)							
F.D.A.1	General Provisional Sum of \$50,000 as it is not clear if diversions are requred	1	PS	\$50,000	\$50,000			
	TOTAL Power and Lighting (Western Power)		Item			\$50,000		
F.D.B	Communications (NBN / Telstra / Westnet / etc.)							1
F.D.B.1	General Provisional Sum of \$50,000 as it is not clear if diversions are requred	1	PS	\$50,000	\$50,000			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$50,000		
F.D.C	Water and Sewer (Water Corporation)							
F.D.C.1	Offset and sleeve approximatley 30m road length of water and sewer about 1m deeper from the current location - Provisional Sum TOTAL Water and Sewer (Water Corporation)	1	PS Item	\$49,068	\$49,068	\$49,068		
<u>F.D.D</u>	<u>Gas (ATCO)</u>							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study TOTAL Gas (ATCO)		Note Item			\$0		
F.D.E	Preliminaries and Project Costs							



F.D.E.3 F.D.E.4	Project Owner's Cost (Planning and Design Costs) Risk Contingency Allowance	5.0000 10.0000	% %	\$149,068 \$186,335	\$7,453 \$18,633			
1.2.2.1	TOTAL Preliminaries and Project Costs TOTAL Utilitities	10.0000	Item	\$100,000	\$10,000	\$55,900	\$204,968	
A.A.A.7	Estimated Imported Fill	8,715	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	11,370	m3					
	Less Cut to Fill costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)	See "In	nported Fill	" sheet at the	end of these co	stings.	\$0	
	Total Adjustment for Imported Fill (less Cut to Fill) TOTAL Road – Tinspar Avenue	See "In	nported Fill Item	" sheet at the	end of these co	stings.	\$0	\$4,886,575
	· · · · ·	See "In	ĺ	" sheet at the	end of these co	stings.	\$0	<b>\$4,886,575</b> \$1,265,000



## Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
G	DISTRICT OPEN SPACE – WHITBY HIGH SCHOOL DISTRICT SPORTING SPACE							
<u>G.A</u>	Siteworks & Earthworks							
G.A.A	Site Clearance (based on light shrubs)	46,000	m2	\$4		\$169,280		
G.A.B	Removal of topsoil 150mm and remove off-site	46,000	m2	\$2		\$77,234		
G.A.C	Cut to Fill - General Earthworks of 300mm across site	13,800	m3	\$8		\$113,471		
G.A.D	Levelling, grading and compaction to final design levels	46,000	m2	\$3		\$151,800		
G.A.E	Weed eradication	46,000	m2	\$1		\$26,910		
G.A.F	Excavation to 300 below finished levels	13,800	m2	\$14		\$190,440		
G.A.G	300 deep clean sand fill	13,800	m3	\$30		\$414,000		
G.A.H	Ggypsum soil conditioner	46,000	m2	\$2		\$77,740		
G.A.I	15 deep C-Wise Horticulture soil conditioner	46,000	m2	\$5		\$251,160		
G.A.J	100 thick imported turf sand	46,000	sqm	\$5		\$227,240		
G.A.K	Organic fertilizer to turf	46,000	sqm	\$1		\$53,820		
	TOTAL Siteworks & Earthworks		•			. ,	\$1,754,000	
<u>G.B</u>	Grassing & Irrigation							
G.B.A	Supply and lay roll on turf including maintaining	46,000	sqm	\$20		\$920,000		
G.B.B	Irrigation	46,000	sqm	\$8		\$368,000		
0.0.0	Provisional sum allowance for pumps, bores and	10,000	oqiii	ΨŬ		\$000,000		
G.B.C	controls - no allowance for storage tank	1	Item	\$80,000		\$80,000		
G.B.C	TOTAL Grassing & Irrigation	I	nem	\$80,000		\$80,000	\$1,368,000	
							ψ1,500,000	
<u>G.C</u>	Landscaping & Equipment							
	Equipment							
	AFL goal posts (set of 8) including sleeves, footings,			<b>A-</b> 100		<b>A-</b> 100		
G.C.A	cages and post padding	1	no	\$7,406		\$7,406		
G.C.B	Timber Bollards @1200 spacing	188	no	\$121		\$22,748		
<u>G.C.C</u>	Line marking to oval							
G.C.C.1	Allow 2 guys 1 day	16	hrs	\$100	\$1,600			
G.C.C.2	Equipment	1	no	\$1,000	\$1,000			
G.C.C.3	Profit				\$260			
	TOTAL Line marking to oval	710	m	\$4		\$2,860		
	Dravisional Suma							
G.C.D	Provisional Sums Provisional sum allowance for signage	1	item	\$5,000		\$5,000		
G.C.D	0 0	I	nem	\$5,000		\$5,000	¢20.000	
	TOTAL Landscaping & Equipment						\$39,000	
<u>G.D</u>	<u>Drainage</u>							
G.D.A	150 diameter pipe including excavation and backfill	1,310	m	\$143		\$186,675		
	TOTAL Drainage						\$187,000	
G.E	Preliminaries & Project Costs							
G.E.A	Traffic Management	0.0000	%	\$3,348,000		\$0		
	Project Overheads and Preliminaries (Indirect							
G.E.B	Construction Costs)	10.0000	%	\$3,348,000		\$334,800		
	Droinet Ourserle Cest (Discrimented Discher Oraci)	7 5000	0/	¢2.040.000		<b>©</b> 054 400		
G.E.C	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$3,348,000		\$251,100		
G.E.D	Risk Contingency Allowance	10.0000	%	\$3,933,900		\$393,390		
	TOTAL Preliminaries & Project Costs						\$980,000	
	TOTAL District Open Space – Whitby High School							
	District Sporting Space		Item					\$4,328,000

nent Contributions (Sally)\DCA3\_\1. Amendment 209\Amendment 209 pre-gazettal/DCP1 (Draft)\DCA 3 - Mundijong-Whitby Urban Traditional Infrastructure DCP Infra Costs v1.5 - 14 June 2023

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## Shire of Serpentine Jarrahdale DCP DCA 3 - Mundijong Whitby - Update

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
	DISTRICT OPEN SPACE – TAYLOR ROAD/ SCOTT ROAD PRIMARY SCHOOL NEIGHBOURHOOD							
H	OPEN SPACE							
<u>H.A</u>	Siteworks & Earthworks	40.000		¢ 4		¢4.00.000		
H.A.A	Site Clearance (based on light shrubs)	46,000	m2	\$4		\$169,280		
H.A.B	Removal of topsoil 150mm and remove off-site	46,000	m2	\$2		\$77,234		
H.A.C	Cut to Fill - General Earthworks of 300mm across site	13,800	m3	\$8		\$113,471		
H.A.D	Levelling, grading and compaction to final design levels	46,000	m2	\$3		\$151,800		
H.A.E	Weed eradication	46,000	m2	\$1		\$26,910		
H.A.F	Excavation to 300 below finished levels	13,800	m2	\$14		\$190,440		
H.A.G	300 deep clean sand fill	13,800	m3	\$30		\$414,000		
H.A.H	Ggypsum soil conditioner	46,000	m2	\$2		\$77,740		
H.A.I	15 deep C-Wise Horticulture soil conditioner	46,000	m2	\$5		\$251,160		
H.A.J	100 thick imported turf sand	46,000	sqm	\$5		\$227,240		
H.A.K	Organic fertilizer to turf	46,000	sqm	\$0 \$1		\$53,820		
11.7 (.1)	TOTAL Siteworks & Earthworks	40,000	oqiii	Ψï		φ00,020	\$1,754,000	
<u>H.B</u>	Grassing & Irrigation							
H.B.A	Supply and lay roll on turf including maintaining	46,000	sqm	\$20		\$920,000		
H.B.B	Irrigation	46,000	sqm	\$8		\$368,000		
11.0.0	-	40,000	Sqiii	ΨΟ		ψ300,000		
	Provisional sum allowance for pumps, bores and	4	ltom	¢00.000		000 000		
H.B.C	controls - no allowance for storage tank	1	Item	\$80,000		\$80,000	<b>*</b> · · · · · · · · · · · · · · · · · · ·	
	TOTAL Grassing & Irrigation						\$1,368,000	
<u>H.C</u>	Landscaping & Equipment Equipment							
	AFL goal posts (set of 8) including sleeves, footings,							
H.C.A	cages and post padding	1	no	\$7,406		\$7,406		
H.C.B	Timber Bollards @1200 spacing	188	no	\$121		\$22,748		
<u>H.C.C</u>	Line marking to oval			<b>A</b> / A A	<b>*</b> / * * *			
	Allow 2 guys 1 day	16	hrs	\$100	\$1,600			
	Equipment	1	no	\$1,000	\$1,000			
	Profit				\$260			
	TOTAL Line marking to oval	710	m	\$4		\$2,860		
H.C.D						\$0		
	Provisional Sums					\$0		
H.C.F	Provisional sum allowance for signage	1	item	\$5,000		\$5,000		
11.0.1	TOTAL Landscaping & Equipment	•	iterin	φ0,000		φ0,000	\$39,000	
							<b>\$33,000</b>	
<u>H.D</u>	<u>Drainage</u>							
H.D.A	150 diameter pipe including excavation and backfill	1,310	m	\$143		\$186,675		
	TOTAL Drainage	,		• -		÷,	\$187,000	
<u>H.E</u>	Preliminaries & Project Costs							
<u>н.е</u> Н.Е.А	Traffic Management	0.0000	%	\$3,348,000		\$0		
11.E.A	-	0.0000	/0	\$3,340,000		φυ		
	Project Overheads and Preliminaries (Indirect	40,0000	0/	¢0.040.000		¢224.000		
H.E.B	Construction Costs)	10.0000	%	\$3,348,000		\$334,800		
H.E.C	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$3,348,000		\$251,100		
H.E.D	Risk Contingency Allowance	10.0000	%	\$3,933,900		\$393,390	****	
	TOTAL Preliminaries & Project Costs						\$980,000	
	TOTAL District Open Space – Taylor Road/ Scott							
	Road Primary School Neighbourhood Open Space		Item					\$4,328,000
								, ,

nent Contributions (Sally)\DCA3\_\1. Amendment 2091Amendment 209 pre-gazettal\DCP1 (Draft)\DCA 3 - Mundijong-Whitby Urban Traditional Infrastructure DCP Infra Costs v1.5 - 14 June 2023

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# M11b Keirnan Park DSS- 1b: Ovals

Updated Jun 2023

Costs undertaken internally by Shire Personnel - to be updated by external QS on final design.

3,007,693

\$

KIERNAN PA	ARK MASTERPLAN SCENARIOS INDIC	ATIVE SCENARIO 1A					
Item	Description	Quantity	Unit	Rate (\$)	Total (\$)		
1.00	BUILDINGS						
1.01	Allowance for Recreation Centre		Note		Excluded		
1.02	Allowance for Hockey/Soccer/Rugby Pavillion		Note		Excluded		
1.03	Allowance for Baseball/Softball Pavillion		Note		Excluded		
1.04	Allowance for Soccer Change Rooms		Note		Excluded		
1.05	Allowance for AFL / Cricket Pavillion		m2		-		
1.06	Allowance for Athletics Pavillion		Note		Excluded		
1.07	Allowance for BMX Grandstand (basic tiered mound with shade cover)		Note		Excluded		
1.08	Allowance for BMX Pavillion		Note		Excluded		
	TOTAL BUILDING COST		-		-		
2.00	External Works & Landscaping						
2.01	Allowance for Site Clearance		m2		-		
2.02	Allowance for demolition of buildings / structures		Note		Not Applicable		
2.03	Allowance for demolition / removal of hardstandings		Note		Not Applicable		
2.04	Allowance for general cut to fill		m3		-		
2.05	Allowance for imported fill material		m3		-		
2.06	Allowance for removal of unsuitable cut		Note		Excluded		
2.07	Allowance for formation of batters including fabric cover		m2		-		
2.08	Allowance for retaining walls		Note		Excluded		
2.09	Allowance for temporary battering / retaining to suit staging (no detailts)		P.Sum		-		
2.10	Allowance for sub soil drainage		Note		Excluded		
2.11	Allowance for ground remediation		Note		Excluded		
2.12			m2		-		
2.13	Allowance for roads complete		m2		-		
2.14	Allowance for cross overs complete		No		-		
2.15	Allowance for bridge structures		No		-		
2.16	Allowance for outdoor 50m pool and surrounds		Note		Excluded		
2.17	Allowance for leisure pool		Note		Excluded		
			Note		Excluded		
2.19	Allowance for Netball Courts (15)		Note		Excluded		
2.20	Allowance for Soccer Pitches - Grass		Note		Excluded		
2.21	Allowance for Hockey Pitches - Grass		Note		Excluded		
2.22	Allowance for Hockey Pitches - Synthetic		Note		Excluded		
2.23	Allowance for Rugby Pitches - Grass		Note		Excluded		
2.24	Allowance for Baseball Diamonds - Grass		Note		Excluded		
2.25	Allowance for Baseball pitch - Grass		Note		Included		
2.26	Allowance for AFL Pitches - Grass (halved for 1 oval - see Stage 2)	32,000	m2	93	2,976,432		
2.27	Extra over Soft Landscaping Allowance for Athletics Track - Grass including		Note	-	Excluded		
	infill Allowance for general grassed areas between playing surfaces (halved for 1						
2.28	oval - see Stage 2)	26,600		50	1,319,552		
2.29	Allowance for Cricket Pitch		No		-		
2.30	Allowance for Cricket Pitch and Net		No		-		
2.31	Allowance for Bowls - Grass / Lawn		Note		Excluded		
2.32	Allowance for BMX Track		Note		Excluded		
2.33	Allowance for Pump Track		Note		Excluded		
2.34	Allowance for BMW Shade Structures		Note		Excluded		
2.35	Allowance for fencing to BMX		Note		Excluded		
2.36	Allowance for Mountain Bike Trail		Note		Excluded		
2.37	Allowance for works to shrub areas		Note		Excluded		
2.38	Allowance for works to stream		Sum		-		
2.39	Allowance for formation of water treatment pond		Note		Excluded		
2.40	E.O Allowance for feauture lagoon to above				Excluded		
2.41	Allowance for hard landscaping / pavements generally (20% balance of site area)		P.Sum		-		
2.42	Allowance for soft landscaping / shrubs generally (40% balance of site area)	1	P.Sum				
					-		
2.43	Allowance for works to balance of site		Note		Excluded		

2.44	Allering as far allering and / any increases		C		1
2.45	Allowance for playground / equipment		Sum		=
2.45	Allowance for shelters etc		Sum		-
2.46	Allowance for fitments; bins, seats, furniture		Sum		-
2.47	Allowance for stepped seating				
2.48	Allowance for signage		Sum		-
2.49	Allowance for site fencing		Note		Excludec
2.50	Allowance for Main Contractors Preliminaries and Margin	8%	Sum	343,679	Excluded
	External Works & Landscaping Sub Total				4,295,984
3.00	Site Services				
3.01	Allowance for common service trench to each building		m		-
3.02	Allowance for services infrastructure to Recreation Centre		Note		Excluded
3.03	Allowance for services infrastructure to Hockey/Soccer/Rugby Pavillion		Note		Excluded
3.04	Allowance for services infrastructure to Baseball/Softball Pavillion		Note		Excluded
3.05	Allowance for services infrastructure to Soccer Change Rooms		Note		Excluded
3.06	Allowance for services infrastructure to AFL / Cricket Pavillion		P.Sum		-
3.07	Allowance for services infrastructure to Athletics Pavillion		Note		Excluded
3.08	Allowance for services infrastructure to BMX Pavillion		Note		Excluded
3.08	Allowance for lighting to car parks; 1 light per 400sqm		P.Sum		
3.09	Allowance for lighting to car parks, 1 light per 400sqm Allowance for lighting to roads; 1 light per 400sqm		P.Sum		-
3.10	Allowance for sports lighting to Tennis		Note		- Excluded
3.11	Allowance for sports lighting to Netball		Note		Excluded
3.12	Allowance for sports lighting to Soccer		Note		Excluded
	Allowance for sports lighting to Soccer Allowance for sports lighting to Hockey				
3.14			Note		Excluded
3.15	Allowance for sports lighting to Rugby		Note		Excluded
3.16	Allowance for sports lighting to Baseball / softball		Note B Sum		Excludec
3.17	Allowance for sports lighting to AFL		P.Sum		-
3.18	Allowance for sports lighting to Athletic Track Allowance for sports lighting to Lawn Bowls		Note		Excluded
3.19			Note		Excluded
3.20	Allowance for sport lighting to BMX and Pump Track		Note P.Sum		Excluded
	Allowance for general CCTV coverage				-
3.22	Allowance for Main Contractors Preliminaries and Margin	8%	Sum	-	Excluded
	External Services Sub Total		-		-
	TOTAL CONSTRUCTION COSTS		-		4,295,984
4.01	Design Contingencies		-		4,295,984
4.02	Design Contingencies Construction Contingencies		-		4,295,984
4.02 4.03	Design Contingencies Construction Contingencies Headworks and Statutory Charges		P.Sum		
4.02 4.03 4.04	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance		P.Sum Note		
4.02 4.03 4.04 4.05	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art		Note		Excluded
4.02 4.03 4.04 4.05 4.06	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable)		Note		Excluded
4.02 4.03 4.04 4.05 4.06 4.07	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE		Note Note Note		Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT		Note		Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees		Note Note Note		Excluded Excluded Excluded
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4.02 4.03 4.04 4.05 4.06 4.06 4.07 4.08	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - ICT Professional Fees <b>On-Costs - Sub Total</b>		Note Note Note Note		Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST	177.00	Note Note Note Note		Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - FFE Other Costs - ICT Professional Fees On-Costs - Sub Total GROSS PROJECT COST Escalation	177.00	Note Note Note Note		Excluded Excluded Excluded Excluded Excluded - 4,295,984
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - FFE Other Costs - ICT Professional Fees <b>On-Costs - Sub Total</b> <b>GROSS PROJECT COST</b> <b>Escalation</b> Base date of pricing - September 2020	177.00	Note Note Note Note		Excluded Excluded Excluded Excluded Excluded - 4,295,984
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01	Design Contingencies Construction Contingencies Headworks and Statutory Charges Building Act Compliance Percent for Public Art Land Costs (if applicable) Other Costs - FFE Other Costs - FFE Other Costs - ICT Professional Fees <b>On-Costs - Sub Total</b> <b>GROSS PROJECT COST</b> <b>Escalation</b> Base date of pricing - September 2020 Escalation to Start of Construction	177.00	Note Note Note Note		Excluded Excluded Excluded Excluded Excluded - 4,295,984
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Escalation - Sub Total		Note Note Note Note		Excluded Excluded Excluded Excluded - 4,295,984 Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 5.02 6.00	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Escalation - Sub Total         Escalation - Sub Total		Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.01 5.01 5.02 5.01 5.02 6.00	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Escalation - Sub Total         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions		Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.01 5.01 5.01 5.02 6.00 6.01 6.02	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Escalation - Sub Total         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions		Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.01 5.01 5.01 5.02 6.00 6.01 6.02	Design ContingenciesConstruction ContingenciesHeadworks and Statutory ChargesBuilding Act CompliancePercent for Public ArtLand Costs (if applicable)Other Costs - FFEOther Costs - ICTProfessional FeesOn-Costs - Sub TotalGROSS PROJECT COSTEscalationBase date of pricing - September 2020Escalation to Start of ConstructionEscalation - Sub TotalESCALATED NET PROJECT COSTLocal Authority Managed CostsSpecial Client Agency ProvisionsProject Director / Professional Fees		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.01 6.01 6.02 6.03 6.04	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Escalation - Sub Total         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions         Project Director / Professional Fees         Administration Fees		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.01 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Escalation - Sub Total         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions         Project Director / Professional Fees         Administration Fees         Commissioning, Relocation Costs and Disbursements         Land Acquisition & Native Title Compensation (if applicable)		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.01 6.01 6.02 6.03 6.04 6.05 6.06	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions         Project Director / Professional Fees         Administration Fees         Commissioning, Relocation Costs and Disbursements         Land Acquisition & Native Title Compensation (if applicable)         Loose Furniture and Equipment		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.01 5.01 5.02 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05 6.06 6.07	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions         Project Director / Professional Fees         Administration Fees         Commissioning, Relocation Costs and Disbursements         Land Acquisition & Native Title Compensation (if applicable)         Loose Furniture and Equipment         Computing Equipment and Services		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.01 6.01 6.02 6.03 6.04 6.05 6.06 6.05 6.06	Design ContingenciesConstruction ContingenciesHeadworks and Statutory ChargesBuilding Act CompliancePercent for Public ArtLand Costs (if applicable)Other Costs - FFEOther Costs - ICTProfessional FeesOn-Costs - Sub TotalGROSS PROJECT COSTEscalationBase date of pricing - September 2020Escalation to Start of ConstructionEscalation - Sub TotalESCALATED NET PROJECT COSTLocal Authority Managed CostsSpecial Client Agency ProvisionsProject Director / Professional FeesAdministration FeesCommissioning, Relocation Costs and DisbursementsLand Acquisition & Native Title Compensation (if applicable)Loose Furniture and EquipmentComputing Equipment and ServicesSite Master Planning		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.01 5.01 5.02 6.00 6.01 6.02 6.03 6.04 6.05 6.06 6.07	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Project Director / Professional Fees         Administration Fees         Commissioning, Relocation Costs and Disbursements         Land Acquisition & Native Title Compensation (if applicable)         Loose Furniture and Equipment         Computing Equipment and Services         Site Master Planning         Other Consting		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded
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4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.01 6.01 6.02 6.03 6.04 6.03 6.04 6.05 6.06 6.07 6.08	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         Project Director / Professional Fees         Administration Fees         Commissioning, Relocation Costs and Disbursements         Land Acquisition & Native Title Compensation (if applicable)         Loose Furniture and Equipment         Computing Equipment and Services         Site Master Planning         Other Consting		Note Note Note Note Note Note Note Note		Excluded Excluded
4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09 5.00 5.01 5.02 6.01 6.01 6.02 6.03 6.04 6.05 6.06 6.05 6.06	Design Contingencies         Construction Contingencies         Headworks and Statutory Charges         Building Act Compliance         Percent for Public Art         Land Costs (if applicable)         Other Costs - FFE         Other Costs - ICT         Professional Fees         On-Costs - Sub Total         GROSS PROJECT COST         Escalation         Base date of pricing - September 2020         Escalation to Start of Construction         ESCALATED NET PROJECT COST         Local Authority Managed Costs         Special Client Agency Provisions         Project Director / Professional Fees         Administration Fees         Commissioning, Relocation Costs and Disbursements         Land Acquisition & Native Title Compensation (if applicable)         Loose Furniture and Equipment         Computing Equipment and Services         Site Master Planning         Other Provisions		Note Note Note Note Note Note Note Note		Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded Excluded

	DCP Roads - Imported Fill inputs	Average fill depth required before topsoil removal (mm)	Topsoil removal (mm)	Total Sand depth reqd (mm)	Length	Width	Vol	Total m3	Notes
									Existing carriageway to be upgraded, no fill required, pavement to be upgraded. Full length new
	Bishop Road East	150	150	300	1500	15	0.3	6,750.0	carriageway 150mm fill required
									Existing carriageway to be upgraded, no fill required, pavement to be upgraded. Full length new
	Taylor Road	150	150	300	1530	15	0.3	6,885.0	carriageway 150mm fill required
DCA3	Town Centre Distributor Road (Whitby New Road)	150	150	300	3545	30	0.3	31,905.0	150mm fill required to lift full length
	North South Road	150	150	300	1340	30	0.3	12,060.0	150mm fill required to lift full length
	Skyline Boulevard	150	150	300	352	25	0.3	2,640.0	150mm fill required to lift full length
	Tinspar Avenue	150	150	300	1162	25	0.3	8,715.0	150mm fill required to lift full length