



West Mundijong Industrial DCP Report Revision 6

Revision Schedule:

Report No	Revision Date	Planning Scheme	Amendment	Report Status	Author
1	13/02/2018	TPS2	187	Final	John Ellis
2	1/10/2020	TPS2	187	Final	Sally Murphy
3	18/10/2021	TPS2	187	Final	Sally Murphy
4	17/07/2023	TPS2	209	Final	Sally Murphy
5	10/02/2025	LPS3	209	Final	Sally Murphy
6	26/02/2026	LPS3	209	Final	Sally Murphy

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1 Purpose

This Development Contribution Plan (DCP) report outlines the framework for applying infrastructure contributions to support new development and upgrade existing infrastructure within the Development Contribution Area (DCA). These contributions are essential to address the increased demand generated by development in the DCA.

The DCP ensures equitable cost sharing among landowners, with contributions reasonably required as a result of subdivision or land development. It also facilitates the timely provision of necessary infrastructure.

Relevant documents guiding infrastructure delivery include:

- Community Infrastructure Implementation Plan
- Corporate Business Plan
- Long Term Financial Plan
- LPS3
- West Mundijong Industrial Local Structure Plan

2 Development Contribution Area

The Development Contribution Area covered by this DCP is **DCA2**, as shown on the scheme map and in "**Figure 1 - DCA Boundary**".

3 Period of the Plan

This DCP operates for 10 years, from **13/02/2018** to **13/02/2028**.

4 Operation of the DCP

The DCP and this accompanying report are prepared in accordance with **State Planning Policy 3.6 - Infrastructure Contributions** (SPP 3.6) and operate under the provisions of LPS3.

5 Application Requirements

For applications involving subdivision, strata subdivision, development, or land use extensions within the DCA, the local government will consider this DCP Report when making recommendations or decisions.

6 Estimated Costs

The costs in this DCP Report are based on the capital investment required for infrastructure necessitated by new development in the DCA. These costs are:

- Initially estimated and reviewed by qualified professionals during each **Major Review**.
- Indexed during **Minor Reviews** using rates from the **WALGA Quarterly Economic Briefing**.

Exclusions from DCP Report costs include:

- Ongoing maintenance.
- Demand generated by the existing population.
- External usage demand.
- Future usage beyond the DCP timeframe.

Where applicable, costs are allocated to specific **Precincts** within the DCA, as shown in "**Figure 2 - Precincts**". A detailed cost breakdown is provided in the Appendices, with secured grants or external funding reflected as deductions in the Cost Apportionment Schedule within the Appendices.

7 Items Included in the Plan

All cost items included for within this DCP Report, and for which contributions will be collected in the DCA, are detailed in the Appendices to this report. These items reflect the provisions of the latest Structure Plan(s) where applicable to the lifespan of the DCP, the need and nexus for inclusion, and the associated scope of each item that the DCP will fund.

Roads

Road infrastructure costs are divided into:

- **Construction:** New or upgraded roads.
- **Land acquisition.**

See "**Figure 4 - Roads**" for details.

Excluded items:

- Landscaping and design enhancements in road reserves.
- Urban amenity improvements such as vegetation, public art, and high-standard design.
- Minor intersections treatments into the adjoining subdivisional road network.

Although some excluded items are noted to enhance the urban environment, they lack a direct nexus to the development's demand for such improvements.

8 Non-Infrastructure Items Included within the DCP

Administration Costs

- Costs to prepare and administer the DCP.
- Costs associated with the annual review of cost estimates.
- Costs associated with the review of the cost apportionment schedules based on land development undertaken since the last review.
- Costs for undertaking valuations.
- Fees for professional services directly linked to the preparation and implementation of the DCP.
- Costs for computer software and/or hardware upgrades necessary to enable DCP preparation.
- Proportion of staff salaries directly related to DCP administration.
- Financial institution fees and charges associated with the administration of DCP funds.
- Interest charged on loans taken out to pre-fund items included in the DCP.

Land for infrastructure

- Land for road reserves that exceed standard requirements (e.g., road widths above 20m).

Land for Public Open Space and Drainage**Inclusions – Credit will be provided for:**

- Land for Public Open Space, where it is: unencumbered, publicly accessible, and landscaped or developed to support active or passive recreation.
- Land for drainage, *only where it is required for district drainage functions* as identified in: a local water management strategy, or urban water management plan.
- Land within multiple-use corridors (MUCs) where: the land serves a dual function for drainage and recreation, and is publicly accessible, safely designed, and forms part of the integrated POS network.

Exclusions – No credit will be provided for:

- The construction, development, or maintenance of POS or drainage infrastructure (e.g. drainage basins, vegetated swales, landscaping, play equipment).
- Drainage land that services only an individual subdivision or development site (i.e. local infrastructure not required at a district scale).
- Conservation areas, including: Conservation Category Wetlands (CCWs), Bush Forever sites, and any associated buffers, unless those buffers are:
 - Publicly accessible,
 - Landscaped for passive recreation, and
 - Integrated into the usable POS network.
- Inaccessible or restricted land, including: fenced areas, areas not designed for recreation or public access, or land retained in private ownership.

Where the DCP does not explicitly define the credit eligibility of specific land types or infrastructure items, the Shire will apply a consistent interpretation informed by relevant State planning policies, including *Liveable Neighbourhoods*, and recognised planning principles. Credit will be determined based on the function, accessibility, and broader benefit of the land or infrastructure to the Development Contribution Area, rather than solely its zoning, labelling, or location.

Where land performs a dual function (e.g. drainage and open space), credit may be apportioned in accordance with its useability and contribution to public amenity or district infrastructure, consistent with established planning and engineering practice.

This approach ensures that credit allocations are equitable, transparent, and aligned with the intent of the DCP, while retaining flexibility to respond to varying development contexts.

Costs associated with land for POS and Drainage are shared equally across the DCA.

9 Land Valuation

The land value applies to all land catered for within this DCP; i.e. the same m2 rate applies to POS, land for infrastructure and road widening.

The land value is indexed daily from the starting date of the DCP Report, based on the Land Value Escalation rate provided with the independent valuation. The land value plus indexation is calculated at the date the subdivision clearance which cedes the land is accepted by the Shire.

Reviewed annually according to market value, excluding marketing costs and based on a land parcel of a regular shaped 5-hectare area typical for the DCA, with no major servicing constraints and no major geotechnical/environmental issues.

The land valuation is based on typical parcel characteristics and reviewed annually according to market value, and is determined 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 does not include for standard marketing costs such as fees, commissions, and advertising cost.

The starting land value for this Report Revision is shown at the top of the Cost Apportionment Schedule within the Appendices.

10 Method of Calculating Contributions

Calculating the developable potential of each Precinct

The total amount of developable land estimated within the DCA is based on the land within the DCA, excluding the Western Power Easement, land identified for roads, drainage, conservation category wetlands and other reserves.

Contribution liability

- Proportional to the remaining developable m2 area within a Precinct:

Formula: ***{Remaining Cost / Remaining m2 area = \$ contribution rate per m2 area}***

Contribution Rate Adjustments

The Contribution Rate is escalated daily based on the days since the last cost review, using a weighted annual escalation rate (ER):

Formula for ER: ***{(%IC/TC x IER) + (%LV/TC x LVER) + (%AC/TC x AER)}*** where IC: Infrastructure Cost, LV: Land Value, AC: Administration Cost.

- Daily Escalation Rate (DER): ***{ER / 365}***
- Adjusted Contribution Rate: ***{Starting Rate x (D x DER) = Escalated 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"
- The Infrastructure index reflects the LGCI Component "Road & Bridge Construction".
- The Land Value index (where applicable) is provided as part of the independent Land Valuation.

The daily indexing of costs described above, means that at any point in time, the Precinct contribution per m2 value will vary according to the number of days since the last Cost Review (the starting date of the latest revision to the DCP Report).

Non-Residential Development Contributions

Based on the size of the lot created (under subdivision) **or** the size of the existing lot being developed upon (under a development application), multiplied by the applicable development contribution rate.

Formula: *{Square metre rate × square metre size of land parcel = Required development contribution}*

Contributions apply only once per **land footprint** and are based on full development potential. For example, multi-level developments **beyond the first floor** are exempt from additional contributions as the liability is based on the land footprint.

11 Payment of Contributions

Triggers for Payment

The earlier of either:

- Application for subdivision/strata clearance, or
- Application for Building Permit for new development, or change/extension of use.

Clause 36A 6(a) of LPS3 details **specific exemptions** for which a development contribution is not required.

Payment Methods

- Cheque or cash.
- Land transfer.
- Physical infrastructure provision.
- Other methods acceptable to the Shire.

In the case of staged subdivisions, development contributions are payable only for the stages being cleared. Contributions are triggered only once per lot, unless subsequent development creates additional demand beyond the initial trigger.

12 DCP Credits

DCP Credits

Credits for Land and Infrastructure (where included for within the DCP):

- Land ceded for POS/Drainage or Infrastructure based on indexed land value at the date of subdivision clearance.
- Pre-funding infrastructure earns credits based on actual costs expended, as approved/verified by the Shire.

Use of Credits:

- Credits offset contributions within the same Development Contribution Area (DCA).
- Credits remain with the landowner unless a legal agreement transfers them upon sale.

Repayment of Credits:

- A record of all credit balances are kept by the Shire; balances are not subject to indexation or interest.
- Credits are repaid when DCP funds are sufficient, or within 90 days of the closure of the DCP.

Pre-Funding of DCP Infrastructure

The Shire supports pre-funding and delivery of infrastructure under the following conditions:

- The works are essential for the progression of an approved subdivision, or
- The Shire is prioritising DCP funds for other works.

The Shire and Developer will confirm via an exchange of letters, the scope, composition, and timing of the infrastructure works to be pre-funded. Once agreed, these works will be designated as *Approved Works*. The Approved Works must be clearly defined to enable accurate quantification of costs and quantities for both completed and remaining works. The value of DCP Credits allocated is exclusive of GST.

Temporary or sacrificial works are not creditable under the DCP.

Repayment of DCP Credit Balance

When a developer or landowner has completed all developments within a DCA and no longer holds any land within that DCA, the credited amount will be held until sufficient funds are available in the DCP fund to cover the balance, taking into account any planned or committed expenditure at that time.

Requests for repayment of credit balances during the operation of the DCP must meet the above conditions and will be determined by Council. Once approved, the value of credits will be reimbursed to the developer or landowner as soon as circumstances allow.

Developers or landowners wishing to request repayment of a credit balance after completing their developments and relinquishing landholdings in the DCA must submit their request in writing to:

developmentcontributions@sjshire.wa.gov.au

All outstanding credit balances will be repaid no later than 90 days after the DCP's closure.

13 DCP Reviews**Major Review (5 Yearly)**

A Major Review is required to amend, exclude, or include any provision of the DCP, including infrastructure cost items. Once the Scheme Amendment is approved, a revised DCP Report will be produced within 90 days of the Amendment's gazettal, reflecting the updated provisions.

A Major Review is classed as a Complex Amendment to the Planning Scheme, and as such is required to be advertised, and submissions considered, prior to final submission of the Amendment to the WAPC for Ministerial approval.

Typically, development approvals will include a condition referencing the new Amendment only after it has been submitted to the WAPC for final approval. For approvals without a condition referencing the ungazetted Amendment, the prevailing DCP Report will apply, provided the standard DCP condition is included.

After the Amendment is gazetted and the revised DCP Report is finalized, all developments that trigger a DCP requirement will automatically be subject to the updated Amendment.

Minor Review (Annually)

The DCP Report which accompanies the Plan is updated at least annually. A Minor Review may update infrastructure costs, administrative expenses, developable areas/lot forecasts, and land acquisition costs.

A Minor review may not amend, add or remove any DCP scope items or provisions detailed within the current Scheme.

There is no statutory requirement to advertise or seek public comment on minor annual DCP Report updates, however the Shire will consult with the relevant Industry Reference Group(s) at each Annual Review when updates involve:

- Accounting for completed works
- Construction cost adjustments
- Changes in land values
- Revisions to undeveloped lot yields
- Other non-material changes.

14 Cost Review Reconciliation**Cost Review Reconciliation**

The Cost Review Reconciliation is an adjustment performed during each DCP revision to account for the current DCP Fund Balance and any outstanding liabilities. Depending on whether liabilities exceed the fund balance, the reconciliation may result in either a surplus or a deficit. This process ensures that the DCP achieves its objective of breaking even by the time it concludes. During each Cost Review, the net balance of contributions received and expenditure incurred will be calculated and incorporated into the Cost Apportionment Schedule.

15 Priority and timing of infrastructure delivery

A Capital Expenditure Plan is included within the Appendices. Timelines are adjusted annually based on the rate of development and available funds.

16 Reporting**Annual Audit Results**

SPP 3.6 requires the local government to undertake an external Financial Audit of each DCP. This report must be published on the local government's website within six months of the end of the financial year and is separate from the DCP Report.

The Annual Audit Report, will be available on the Shire's website by no later than December 31st of each financial year.

www.sjshire.wa.gov.au/development-services/planning/infrastructure-contributions/statements-of-income-and-expenditure.aspx

Annual Status Report

SPP 3.6 requires the local government to prepare an Annual Status Report, which provides an overview of the progress in delivering infrastructure specified in the DCP. This report must be published on the local government's website within six months of the end of the financial year and is separate from the DCP Report.

The Annual Status Report for each respective DCP, and the Annual Audit Report for all the Shire's operative DCPs, will be available within the respective DCP page/tile on the Shire's website by no later than December 31st of each financial year.

www.sjshire.wa.gov.au/development-services/planning/infrastructure-contributions

17 Figures

Figure 1: DCA Boundary



Figure 2: Precincts



Figure 3: N/A

Figure 4: Roads

DCA2 Roads to be Constructed/Upgraded

- Remaining
- Removed
- Part Completed
- Completed



 <p>Shire of Serpentine Jarrahdale</p>	Roads		<p>Datum GDA 2020 Projection MGA Zone 50</p>
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APPENDICES

Appendix A - Need and Nexus

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Bishop Road West

Completed

Integrator B - between Kargotich Road and Tonkin Highway reservation

Bishop Road is in the northern portion of DCA2, running east-west between Kargotich Road and the Tonkin Highway reserve. Bishop Road is a Shire controlled road and is not reserved under the MRS.

The existing state of Bishop Road is rural in nature, with a narrow single carriageway allowing for one lane in either direction. Changes to the alignment of the road are proposed towards Tonkin Highway and the road is proposed to connect into Tonkin Highway. The width of Bishop Road will be 30m.

The following items are included in the West Mundijong Industrial Development Contribution Plan for Bishop Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve
- Land to accommodate channelization and/or roundabout construction at the noted intersections
- Intersection treatments and associated traffic control devices as follows:
 1. Kargotich Road (Priority T junction)
- Earthworks for the whole road reserve
- Complete road construction to a Liveable Neighbourhoods Integrator B standard
- Associated drainage works including water sensitive urban design measures
- Shared paths
- Utility removal, relocation and insertion
- Associated costs including design, administration and management.

Kargotich Road

Completed

Integrator B - between the freight rail crossing and Mundijong Road

Kargotich Road is located to the west of DCA2, providing a north-south connection. Kargotich Road is a Shire controlled road and is not reserved under the MRS. The existing state of Kargotich Road is rural in nature, with a narrow single carriageway allowing for one lane in either direction. The width of Kargotich Road will be 30m.

The following items are included in the West Mundijong Industrial Development Contribution Plan for Kargotich Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve
- Land to accommodate channelization and/or roundabout construction at the noted intersections
- Intersection treatments and associated traffic control devices as follows:
 1. N/A
- Earthworks for the whole road reserve
- Complete road construction to a Liveable Neighbourhoods Integrator B standard
- Associated drainage works including water sensitive urban design measures
- Shared paths
- Utility removal, relocation and insertion
- Associated costs including design, administration and management.

Mundijong Road West

Completed

Integrator B - between Kargotich Road and the Tonkin Highway reservation

Mundijong Road borders the West Mundijong Industrial DCA to the south. Under the Metropolitan Region Scheme (MRS), the road is reserved as an “Other Regional Road” and is identified as a district distributor. The portion of Mundijong Road abutting DCA2 is under control of the Shire.

The road currently exists, but will require changes in width, alignment and configuration to support development envisaged under the MDSP. The width of the Mundijong Road reserve will be 40m.

The following items are included within the West Mundijong Development Contribution Plan for Mundijong Road:

- Land required in excess of a standard 20m reserve, to achieve a 40m wide road reserve
- Land to accommodate channelization and/or roundabout construction at the noted intersections
- Intersection treatments and associated traffic control devices as follows:
 1. Kargotich Road (Roundabout)
 2. North South Spine Road (RAV7 Roundabout)
- Earthworks for the whole road reserve
- Complete road construction to a Liveable Neighbourhoods Integrator B standard
- Associated drainage works including water sensitive urban design measures
- Shared paths
- Utility removal, relocation and insertion
- Associated costs including design, administration and management.

North South Spine Road

Completed

Integrator B - between Bishop Road and Mundijong Road

The North South Spine Road bisects the developable land between Bishop Road to the north and Mundijong Road to the south. The road will be a Shire road and is not reserved under the MRS. The width of the road will be 30 metres.

The following items are included in the West Mundijong Industrial Development Contribution Plan for North South Spine Road:

- Land required in excess of a standard 20m reserve, to achieve a 30m wide road reserve
- Land to accommodate channelization and/or roundabout construction at the noted intersections
- Intersection treatments and associated traffic control devices as follows:
 1. Bishop Road (RAV7 Roundabout)
 2. Future East/West Spine Road (between Scott Rd/Sparkman Rd (RAV7 Roundabout))
- Earthworks for the whole road reserve
- Complete road construction to a Liveable Neighbourhoods Integrator B standard
- Associated drainage works including water sensitive urban design measures
- Shared paths
- Utility removal, relocation and insertion
- Associated costs including design, administration and management.

Appendix B - Cost Apportionment Schedule

DCA	2	Revision	6	Land Value Res	\$0.00	DER	\$0.000	Area A	Area B	Area C	Area D		
				Land Value Non Res	\$66.00	DER	\$0.005	\$27.82	\$0.00	\$0.00	\$0.00		
								WALGA Briefing 1/12/2025	Daily Escalation	\$0.002	\$0.000	\$0.000	\$0.000

	Precinct	Total Cost	Grants	Shire %	DCP %	Shire Cost	DCP Cost	Shire Remaining	DCP Remaining	Area A	Area B	Area C	Area D	
Adjustment 0.00%		\$0	\$0			\$0	-\$3,355,107	\$0	-\$3,355,107	-\$1.06	\$0.00	\$0.00	\$0.00	
<i>DER: (Index % x Area sub total) / 365</i>											<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>
Cost Reconciliation	A	\$0	\$0	0%	100%	\$0	-\$3,355,107	\$0	-\$3,355,107	-\$1.06	\$0.00	\$0.00	\$0.00	
AER 4.30%		\$381,441	\$0			\$0	\$381,441	\$0	\$43,838	\$0.01	\$0.00	\$0.00	\$0.00	
<i>DER: (Index % x Area sub total) / 365</i>											<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>
Administration	A	\$381,441	\$0	0%	100%	\$0	\$381,441	\$0	\$43,838	\$0.01	\$0.00	\$0.00	\$0.00	
IER 3.00%		\$54,926,853	-\$1,250,000			\$0	\$53,676,853	\$0	\$52,127,657	\$16.55	\$0.00	\$0.00	\$0.00	
<i>DER: (Index % x Area sub total) / 365</i>											<i>\$0.001</i>	<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>
Bishop Road West	A	\$5,007,962	\$0	0%	100%	\$0	\$5,007,962	\$0	\$5,007,962	\$1.59	\$0.00	\$0.00	\$0.00	
Kargotich Road	A	\$24,159,811	\$0	0%	100%	\$0	\$24,159,811	\$0	\$24,142,243	\$7.66	\$0.00	\$0.00	\$0.00	
Mundijong Road West	A	\$9,494,819	-\$1,250,000	0%	100%	\$0	\$8,244,819	\$0	\$8,244,819	\$2.62	\$0.00	\$0.00	\$0.00	
North South Spine Road	A	\$16,264,261	\$0	0%	100%	\$0	\$16,264,261	\$0	\$14,732,634	\$4.68	\$0.00	\$0.00	\$0.00	
LVER 3.00%		\$40,032,460	\$0			\$0	\$40,032,460	\$0	\$38,831,958	\$12.33	\$0.00	\$0.00	\$0.00	
<i>DER: (Index % x Area sub total) / 365</i>											<i>\$0.001</i>	<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>
Land For Infrastructure	A	\$6,304,990	\$0	0%	100%	\$0	\$6,304,990	\$0	\$6,004,106	\$1.91	\$0.00	\$0.00	\$0.00	
Land For POS and Drainage	A	\$33,727,469	\$0	0%	100%	\$0	\$33,727,469	\$0	\$32,827,852	\$10.42	\$0.00	\$0.00	\$0.00	
Area Total		\$95,340,754	-\$1,250,000			\$0	\$90,735,647	\$0	\$87,648,346	\$27.82	\$0.00	\$0.00	\$0.00	
<i>Total DER (to 3 decimal places)</i>											<i>\$0.002</i>	<i>\$0.000</i>	<i>\$0.000</i>	<i>\$0.000</i>

Appendix C - Capital Expenditure Plan

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ItemName	Precinct	Start Date	End Date	Delivered by the Shire	Completed
Administration	A			<input checked="" type="checkbox"/>	<input type="checkbox"/>
North South Spine Road	A	27/07/2027	13/02/2028	<input type="checkbox"/>	<input type="checkbox"/>
Mundijong Road West	A	27/07/2027	13/02/2028	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Kargotich Road	A	27/07/2022	13/02/2028	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bishop Road West	A	27/07/2027	13/02/2028	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Appendix D - Lots/m2 Area Report

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ItemName	Parent Lots	Res Lots	Non Res m2	Non Res Lot Equivalent	Total Lots	Total Cleared	Remaining Lots
Precinct A							
Mundijong Industrial Area	0	0	3,515,419	3,515,419.00	3,515,419	223,798	3,291,621
Subtotal					3,515,419	223,798	3,291,621
Totals	0	0	3,515,419	3,515,419.00	3,515,419	223,798	3,291,621

Appendix E - Cost Reconciliation Report

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At close of previous revision	Gross Contributions	Interest Credited	Administration Costs	Works Settled	POS/Drainage Land Credited	Infra Land Credited	Cleared Lots	Surplus or Deficit
Cost Reconciliation	\$6,358,706	\$83,702	-\$337,603	-\$1,549,196	-\$899,617	-\$300,884	364,763	\$3,355,107

Appendix F - Administration Detail Report

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Budget This FY	Legal Expenses	Loan Interest	Consultancy	Wages	Annual Forecast	Years Remaining	Total Future Cost	Completed Cost	Total Cost
Administration	\$4,000	\$0	\$3,000	\$14,810	\$21,810	1.96	\$42,748	\$337,603	\$380,351

Admin Spend to Date

DCAID	Revision	Order Date	Description	Amount
2	1	4/06/2018	Pre-Gazettal Set up costs	-\$265,392.00
2	1	19/09/2019	Administration Costs 2019	-\$3,500.00
2	1	20/09/2020	Administration Costs 2020	-\$3,329.00
2	2	27/07/2021	Annual Administration Fee - Budget	\$156,038.72
2	2	27/07/2021	Annual Administration Fee - Budget	-\$65,491.81
2	3	14/02/2022	Administration costs	-\$12,815.43
2	3	27/07/2022	Administration	-\$39,689.91
2	3	27/07/2022	Administration	-\$45,812.00
2	4	27/07/2023	Administration Costs	-\$13,030.90
2	4	30/06/2024	Administration	-\$17,197.31
2	4	9/02/2025	Annual Rev Est Administration - FY 2024/25 July 2024 to February 2025	-\$12,971.13
2	5	30/06/2025	Confirmed Admin Costs FY 24/25 (adj for Order 493)	-\$14,412.61
				-\$337,603.38

Appendix G - Infrastructure Cost Summary Report

DCA 2
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ItemName	Precinct	Total Cost	Grants	Shire %	DCP %	Shire Cost	DCP Cost	DCP Completed	DCP Remaining
North South Spine Road	A	\$16,264,261	\$0	0%	100%	\$0	\$16,264,261	-\$1,531,627	\$14,732,634
Mundijong Road West	A	\$9,494,819	-\$1,250,000	0%	100%	\$0	\$8,244,819	\$0	\$8,244,819
Kargotich Road	A	\$24,159,811	\$0	0%	100%	\$0	\$24,159,811	-\$17,569	\$24,142,243
Bishop Road West	A	\$5,007,962	\$0	0%	100%	\$0	\$5,007,962	\$0	\$5,007,962
Administration	A	\$381,441	\$0	0%	100%	\$0	\$381,441	-\$337,603	\$43,838
Totals		\$55,308,294	-\$1,250,000			\$0	\$54,058,294	-\$1,886,799	\$52,171,495

Appendix H - Infrastructure Land Detail Report

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Revision 6

ItemName	Precinct	Res m2 Total	Non Res m2 Total	Res m2 Cleared	Non Res m2 Cleared	Res m2 Remaining	Non Res m2 Remaining	Total Cost Cleared Land	Total Cost Remaining	Total Cost All Land
Bishop Road West	A	0	8,593	0	0.00	0	8,593	\$0	\$567,138	\$567,138
Kargotich Road	A	0	32,666	0	5,327.70	0	27,338	-\$134,308	\$1,804,328	\$1,938,636
Mundijong Road West	A	0	30,400	0	1,187.00	0	29,213	-\$38,980	\$1,928,058	\$1,967,038
North South Spine Road	A	0	29,257	0	3,430.00	0	25,827	-\$127,596	\$1,704,582	\$1,832,178
Totals		0	100,916	0	9,944.70	0	90,971	-\$300,884	\$6,004,106	\$6,304,990

Appendix I - Public Open Space and Drainage Land Detail Report

DCA 2 Revision 6											
ItemName	Precinct	Res m2 Total	Non Res m2 Total	Res m2 Cleared	Non Res m2 Cleared	Res m2 Remaining	Non Res m2 Remaining	Total Cost Cleared	Total Cost Remaining	Total Cost All Land	
Mundijong Industrial Area	A	0	530,099	0	32,707.30	0	497,392	-\$899,617	\$32,827,852	\$33,727,469	
Totals		0	530,099	0	32,707.30	0	497,392	-\$899,617	\$32,827,852	\$33,727,469	

Appendix J - Infrastructure Designs

To reduce file size, only designs for uncompleted infrastructure projects will be shown, where available.

Appendix K - Detailed Infrastructure Costings

These costings are current at the last date they were independently reviewed by an external QS. At each DCP Report Revision, only the remaining cost value is indexed, based on the latest WALGA index available at the time the report is produced.

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong Industrial**

Our Ref: E22/14030

Summary of Costs:	DCP4		
	Costed by	Date	Cost
Mundijong Road (West) – Integrator B	Rawlinsons	Jun-23	\$9,071,943
Kargotich Road – Integrator B	Rawlinsons	Jun-23	\$23,017,928
Bishop Road (West) – Integrator B	Rawlinsons	Jun-23	\$4,771,360
North South Spine Road – Integrator B	Rawlinsons	Jun-23	\$15,536,712
TOTAL (excl. GST)			\$52,397,943

For each DCP revision since the last independent cost assessment, the remaining value has been indexed using the most recent WALGA Economic Briefing rates available for the previous year at the time of the DCP Annual Update.

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
A	ROAD - MUNDIJONG ROAD (WEST)							
A.A	Road Construction							
A.A.A	Road Works							
	Earthworks and Site Preparation				0			
A.A.A.1	Site Clearance (based on light shrubs)	15,900	m2	\$4	\$55,968			
A.A.A.2	Site Clearance (based on heavy vegetation)	10,086	m2	\$8	\$75,847			
A.A.A.3	Removal of topsoil 150mm and stockpile for later re-use	25,985	m2	\$2	\$41,836			
A.A.A.4	Cut to Fill - General Earthworks	8,700	m3	\$8	\$71,601			
A.A.A.5	Detailed excavation - mill and profile	6,814	m2	\$19	\$129,330			
A.A.A.6	Imported Fill	0	m3	\$30	\$0			
A.A.A.7	Form swale	3,635	m2	\$4	\$13,777			
	Subgrade Preparation				\$0			
A.A.A.8	Preparation, trim and compact Sub Base and Base Course	32,799	m2	\$6	\$180,395			
A.A.A.9	100mm thick crushed rock base course	25,894	m2	\$8	\$212,849			
A.A.A.10	250mm thick compacted limestone sub base	25,894	m2	\$17	\$452,627			
	Road Paving							
A.A.A.11	50mm thick (AC14)	23,714	m2	\$31	\$740,825			
A.A.A.12	Extra over for 2% red oxide	2,726	m2	\$6	\$16,983			
A.A.A.13	Primer seal	23,714	m2	\$4	\$95,805			
	Kerbing							
A.A.A.14	Mountable Kerb (MK)	1,818	m	\$25	\$46,250			
A.A.A.15	Kerb openings	91	no	\$350	\$31,850			
A.A.A.16	Semi Mountable Kerb (SMK)	1,818	m	\$30	\$53,904			
	Line Marking and Furniture							
A.A.A.17	Line marking	7,669	m	\$6	\$48,621			
	Landscaping							
A.A.A.18	Soft landscaping	4,520	m2	\$0	\$0			
A.A.A.19	Landscape mix	1,130	m3	\$90	\$101,700			
A.A.A.20	Rock pitching	270	m2	\$155	\$41,918			
A.A.A.21	Drainage layer	4,852	m2	\$0	\$0			
	Other							
A.A.A.22	Allow for connections to existing Mundijong Road		Item		\$25,000			
	TOTAL Road Works		Item			\$2,437,084		
A.A.B	Shared Paths							
	Earthworks and Site Preparation							
A.A.B.1	Site Clearance (based on light shrubs)	4,543	m2	\$4	\$15,991			
A.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	4,543	m2	\$2	\$7,314			
A.A.B.3	Cut to Fill - General Earthworks	1,363	m3	\$8	\$11,217			
	Detailed excavation - mill and profile		m3	\$19				
A.A.B.4	Imported Fill	3,407	m3	\$30	\$102,210			
	Subgrade Preparation							
A.A.B.5	Preparation, trim and compact Pathway	4,543	m2	\$6	\$24,987			
A.A.B.6	100 thick concrete footpath with broomed finish	4,543	m2	\$71	\$321,826			
A.A.B.7	Sand fill below concrete footpath (100mm)	4,543	m2	\$5	\$24,805			
A.A.B.8	Pram ramp		no	\$670	Included with intersections			
	TOTAL Shared Paths		Item			\$508,350		
A.A.C	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	57	no	\$3,442	\$196,178			
A.A.C.2	6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	33	no	\$5,111	\$168,662			
	TOTAL Street Lighting		Item			\$364,840		
A.A.D	Road Drainage							
	450dia reinforced concrete pipe including excavation and backfill	1,312	m	\$233	\$305,762			
A.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	809	m	\$189	\$152,577			

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
A.A.D.3	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	48	no	\$3,021	\$144,988			
	TOTAL Road Drainage		Item			\$603,327		
A.A.E	Preliminaries and Project Costs							
A.A.E.1	Traffic Management	5.0000	%	\$3,913,601	\$195,680			
A.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$3,913,601	\$587,040			
A.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$3,913,601	\$293,520			
A.A.E.4	Risk Contingency Allowance	10.0000	%	\$4,989,842	\$498,984			
	TOTAL Preliminaries and Project Costs		Item			\$1,575,224		
	TOTAL Road Construction						\$5,488,825	
A.B	Kargotich Road (Roundabout)							
A.B.A	Road Works							
A.B.A.1	Already Constructed				\$0			
	TOTAL Road Works		Item			\$0		
A.B.B	Shared Paths							
A.B.B.1	Already Constructed				\$0			
	TOTAL Shared Paths		Item			\$0		
A.B.C	Street Lighting							
A.B.C.1	Already Constructed				\$0			
	TOTAL Street Lighting		Item			\$0		
A.B.D	Road Drainage							
A.B.D.1	Already Constructed				\$0			
	TOTAL Road Drainage		Item			\$0		
A.B.E	Preliminaries and Project Costs							
A.B.E.1	Already Constructed				\$0			
	TOTAL Preliminaries and Project Costs		Item			\$0		
	TOTAL Kargotich Road (Roundabout)						\$0	
A.C	North South Spine Road (Roundabout RAV7)							
A.C.A	Road Works							
	Earthworks and Site Preparation							
A.C.A.1	Site Clearance (based on light shrubs)	5,722	m2	\$4	\$20,141			
A.C.A.2	Removal of topsoil 150mm and stockpile for later re-use	5,722	m2	\$2	\$9,212			
A.C.A.3	Cut to Fill - General Earthworks	1,717	m3	\$8	\$14,131			
A.C.A.4	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation							
A.C.A.5	Preparation, trim and compact Sub Base and Base Course	5,722	m2	\$6	\$31,471			
A.C.A.6	100mm thick crushed rock base course	4,859	m2	\$8	\$39,941			
A.C.A.7	250mm thick compacted limestone sub base	4,859	m2	\$17	\$84,935			
	Road Paving							
A.C.A.8	50mm thick (AC14)	3,168	m2	\$31	\$98,968			
A.C.A.9	Primer seal	3,168	m2	\$4	\$12,799			
	Brick Paving		Item					
A.C.A.10	80 thick brick pavers	566	m2	\$100	\$56,657			
A.C.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
A.C.A.12	40 thick compacted sand bed (RAB)	386	m2	\$2	\$845			
A.C.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
A.C.A.14	250mm thick compacted limestone sub base	264	m2	\$17	\$4,615			
	Kerbing							
A.C.A.15	Mountable Kerb (MK)	139	m	\$25	\$3,536			
A.C.A.16	Semi Mountable Kerb (SMK)	285	m	\$30	\$8,450			
A.C.A.17	Barrier Kerb (BK)	120	m	\$53	\$6,376			
	Line Marking and Furniture							
A.C.A.18	Line marking	75	m	\$6	\$476			
A.C.A.19	Street sign post	1	no	\$122	\$122			
A.C.A.20	Street name plate	2	no	\$199	\$398			
A.C.A.21	Chevron sign	1	no	\$613	\$613			

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
A.C.A.22	Traffic sign	3	no	\$450	\$1,350			
	Landscaping				\$0			
A.C.A.23	Soft landscaping	1,134	m2	\$0	Excl.			
A.C.A.24	Landscape mix	284	m3	\$90	\$25,560			
	TOTAL Road Works		Item			\$422,937		
A.C.B	Shared Paths							
	Earthworks and Site Preparation							
A.C.B.1	Site Clearance (based on light shrubs)	712	m2	\$4	\$2,506			
A.C.B.2	Removal of topsoil 150mm and stockpile for later re-use	712	m2	\$2	\$1,146			
A.C.B.3	Cut to Fill - General Earthworks	214	m3	\$8	\$1,761			
A.C.B.4	Imported Fill	0	m3	\$30	\$0			
	Subgrade Preparation							
A.C.B.5	Preparation, trim and compact Pathway	712	m2	\$6	\$3,916			
A.C.B.6	100 thick concrete footpath with broomed finish	712	m2	\$71	\$50,438			
A.C.B.7	Sand fill below concrete path (100mm)	712	m2	\$5	\$3,888			
A.C.B.8	Pram ramp including tactile	6	no	\$973	\$5,836			
A.C.B.9	Tactile paving	10	m2	\$325	\$3,250			
	Line Marking and Furniture							
A.C.B.10	Traffic sign	2	no	\$450	\$900			
	TOTAL Shared Paths		Item			\$73,641		
A.C.C	Street Lighting							
A.C.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			\$13,767		
A.C.D	Road Drainage							
A.C.D.1	450dia reinforced concrete pipe including excavation and backfill	170	m	\$233	\$39,619			
A.C.D.2	Side entry pits including liner, cover, excavation, and associated works	4	no	\$2,667	\$10,666			
	TOTAL Road Drainage		Item			\$50,285		
A.C.E	Preliminaries and Project Costs							
A.C.E.1	Traffic Management	5.0000	%	\$560,630	\$28,031			
A.C.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$560,630	\$84,094			
A.C.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$560,630	\$42,047			
A.C.E.4	Risk Contingency Allowance	10.0000	%	\$714,803	\$71,480			
	TOTAL Preliminaries and Project Costs		Item			\$225,654		
	TOTAL North South Spine Road (Roundabout RAV7)						\$786,284	
A.D	Utilities							
A.D.A	Power and Lighting (Western Power)							
A.D.A.1	Relocate 1009m of Overhead Power underground - Provisional Sum	1	PS	\$1,631,536	\$1,631,536			
	TOTAL Power and Lighting (Western Power)		Item			\$1,631,536		
A.D.B	Communications (NBN / Telstra / Westnet / etc.)							
A.D.B.1	Relocate 1009m road length of communications related infrastructure about 10m from the current location - Provisional Sum	1	PS	\$324,292	\$324,292			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$324,292		
A.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 desktop study		Note					
	TOTAL Water and Sewer (Water Corporation)		Item			\$0		
A.D.D	Gas (ATCO)							

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
	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.D.E</u>	<u>Preliminaries and Project Costs</u>							
A.D.E.1	Traffic Management	10.0000	%	\$1,955,828	\$195,583			
A.D.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$1,955,828	\$293,374			
A.D.E.3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$1,955,828	\$97,791			
A.D.E.4	Risk Contingency Allowance	10.0000	%	\$2,542,576	\$254,258			
	TOTAL Preliminaries and Project Costs		Item			\$841,006		
	TOTAL Utilities						\$2,796,834	
A.A.A.7	Estimated Imported Fill	8,985	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	11,994	m3					
	Less Cut to Fill costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)						\$0	
	TOTAL Road - Mundijong Road (West)							\$9,071,943

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
B	ROAD - KARGOTICH ROAD							
B.A	Road Construction							
B.A.A	Road Works							
	Earthworks and Site Preparation				\$0			
B.A.A.1	Site Clearance (based on light shrubs)	53,917	m2	\$4	\$189,788			
B.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	53,917	m2	\$2	\$86,806			
B.A.A.3	Cut to Fill - General Earthworks	26,805	m3	\$8	\$220,605			
B.A.A.4	Detailed excavation - mill and profile	23,108	m2	\$19	\$438,590			
B.A.A.5	Imported Fill	0	m3	\$30	Excl.			
B.A.A.6	Form swale	12,324	m2	\$4	\$46,708			
	Subgrade Preparation				\$0			
B.A.A.7	Preparation, trim and compact	77,024	m2	\$6	\$423,632			
	Sub Base and Base Course				\$0			
B.A.A.8	100mm thick crushed rock base course	53,609	m2	\$8	\$440,666			
B.A.A.9	250mm thick compacted limestone sub base	53,609	m2	\$17	\$937,085			
	Road Paving				\$0			
B.A.A.10	50mm thick (AC14)	46,215	m2	\$31	\$1,443,757			
B.A.A.11	Extra over for 2% red oxide	9,243	m2	\$6	\$57,584			
B.A.A.12	Primer seal	46,215	m2	\$4	\$186,709			
	Kerbing				\$0			
B.A.A.13	Mountable Kerb (MK)	6,162	m	\$25	\$156,761			
B.A.A.14	Kerb openings	309	no	\$350	\$108,150			
B.A.A.15	Semi Mountable Kerb (SMK)	6,162	m	\$30	\$182,703			
	Line Marking and Furniture				\$0			
B.A.A.16	Line marking	12,324	m	\$6	\$78,134			
	Landscaping				\$0			
B.A.A.17	Soft landscaping	17,459	m2	\$0	Excl.			
B.A.A.18	Landscape mix	4,365	m3	\$90	\$392,850			
B.A.A.19	Rock pitching	1,027	m2	\$155	\$159,442			
B.A.A.20	Drainage layer	18,486	m2	\$0	Excl.			
	Other							
B.A.A.21	Allow for connections to existing Kargotich Road		Item		\$20,000			
	TOTAL Road Works		Item			\$5,569,970		
B.A.B	Shared Paths							
	Earthworks and Site Preparation							
B.A.B.1	Site Clearance (based on light shrubs)	15,405	m2	\$4	\$54,226			
B.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	15,405	m2	\$2	\$24,802			
B.A.B.3	Cut to Fill - General Earthworks	4,622	m3	\$8	\$38,039			
B.A.B.4	Imported Fill	15,405	m3	\$30	\$462,150			
	Subgrade Preparation							
B.A.B.5	Preparation, trim and compact	15,405	m2	\$6	\$84,728			
	Pathway							
B.A.B.6	100 thick concrete footpath with broomed finish	15,405	m2	\$71	\$1,091,290			
B.A.B.7	Sand fill below concrete footpath (100mm)	15,405	m2	\$5	\$84,111			
B.A.B.8	Pram ramp		no	\$670	Included with intersections			
	TOTAL Shared Paths		Item			\$1,839,346		
B.A.C	Street Lighting							
B.A.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	177	no	\$3,442	\$609,184			
B.A.C.2	6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	89	no	\$5,111	\$454,877			
	TOTAL Street Lighting		Item			\$1,064,062		
B.A.D	Road Drainage							
B.A.D.1	450dia reinforced concrete pipe including excavation and backfill	3,081	m	\$233	\$718,027			
B.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	3,081	m	\$189	\$581,077			

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
B.A.D.3	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	103	no	\$3,021	\$311,120			
B.A.D.4	4000x900mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$6,977	\$209,323			
B.A.D.5	5400x900mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$9,420	\$282,586			
B.A.D.6	3600x1200mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$6,945	\$208,348			
	TOTAL Road Drainage		Item			\$2,310,480		
B.A.E	Preliminaries and Project Costs							
B.A.E.1	Traffic Management	5.0000	%	\$10,783,857	\$539,193			
B.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$10,783,857	\$1,617,579			
B.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$10,783,857	\$808,789			
B.A.E.4	Risk Contingency Allowance	10.0000	%	\$13,749,418	\$1,374,942			
	TOTAL Preliminaries and Project Costs		Item			\$4,340,503		
	TOTAL Road Construction						\$15,124,360	
B.B	Utilities							
B.B.A	Power and Lighting (Western Power)							
B.B.A.1	Relocate 3081m of Overhead Power underground - Provisional Sum	1	PS	\$4,665,553	\$4,665,553			
	TOTAL Power and Lighting (Western Power)		Item			\$4,665,553		
B.B.B	Communications (NBN / Telstra / Westnet / etc.)							
B.B.B.1	Relocate 3081m road length of communications related infrastructure about 10m from the current location - Provisional Sum	1	PS	\$854,425	\$854,425			
	TOTAL Communications (NBN / Telstra / Westnet / etc.)		Item			\$854,425		
B.B.C	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		Note					
	TOTAL Water and Sewer (Water Corporation)		Item			\$0		
B.B.D	Gas (ATCO)							
	No allowance has been made for ATCO diversions as we do not see existing valves from our desktop study		Note					
	TOTAL Gas (ATCO)		Item			\$0		
B.B.E	Preliminaries and Project Costs							
B.B.E.1	Traffic Management	10.0000	%	\$5,519,978	\$551,998			
B.B.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$5,519,978	\$827,997			
B.B.E.3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$5,519,978	\$275,999			
B.B.E.4	Risk Contingency Allowance	10.0000	%	\$7,175,971	\$717,597			
	TOTAL Preliminaries and Project Costs		Item			\$2,373,591		
	TOTAL Utilities						\$7,893,569	
A.A.A.7	Estimated Imported Fill	22,093	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	31,427	m3					
	Less Cut to Fill costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)						\$0	
	<i>See "Imported Fill" sheet at the end of these costings.</i>							
	TOTAL Road - Kargotich Road							\$23,017,928

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
C	ROAD - BISHOP ROAD (WEST)							
C.A	Road Construction							
C.A.A	Road Works							
	Earthworks and Site Preparation							
C.A.A.1	Site Clearance (based on light shrubs)	18,913	m2	3.52	66,574			
C.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	18,913	m2	1.61	30,450			
C.A.A.3	Cut to Fill - General Earthworks	9,291	m3	8.23	76,465			
C.A.A.4	Detailed excavation - mill and profile	7,374	m2	18.98	139,959			
C.A.A.5	Imported Fill	0	m3	30	0			
C.A.A.6	Form swale	3,933	m2	3.79	14,906			
	Subgrade Preparation							
C.A.A.7	Preparation, trim and compact	27,036	m2	5.5	148,698			
	Sub Base and Base Course							
C.A.A.8	100mm thick crushed rock base course	17,107	m2	8.22	140,620			
C.A.A.9	250mm thick compacted limestone sub base	17,107	m2	17.48	299,030			
	Road Paving							
C.A.A.10	50mm thick (AC14)	14,747	m2	31.24	460,696			
C.A.A.11	Extra over for 2% red oxide	2,950	m2	6.23	18,379			
C.A.A.12	Primer seal	14,747	m2	4.04	59,578			
	Kerbing							
C.A.A.13	Mountable Kerb (MK)	1,967	m	25.44	50,040			
C.A.A.14	Kerb openings	99	no	350	34,650			
C.A.A.15	Semi Mountable Kerb (SMK)	1,967	m	29.65	58,322			
	Line Marking and Furniture							
C.A.A.16	Line marking	3,933	m	6.34	24,935			
	Landscaping							
C.A.A.17	Soft landscaping	5,537	m2	0	0			
C.A.A.18	Landscape mix	1,347	m3	90	121,230			
C.A.A.19	Rock pitching	328	m2	155.25	50,922			
C.A.A.20	Drainage layer	5,899	m2	0	0			
	TOTAL Road Works		Item			1,795,454		
C.A.B	Shared Paths							
	Earthworks and Site Preparation							
C.A.B.1	Site Clearance (based on light shrubs)	2,458	m2	3.52	8,652			
C.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	2,458	m2	1.61	3,957			
C.A.B.3	Cut to Fill - General Earthworks	738	m3	8.23	6,074			
C.A.B.4	Imported Fill	0	m3	30	0			
	Subgrade Preparation							
C.A.B.5	Preparation, trim and compact	2,458	m2	5.5	13,519			
	Pathway							
C.A.B.6	100 thick concrete footpath with broomed finish	2,458	m2	70.84	174,125			
C.A.B.7	Sand fill below concrete footpath (100mm)	2,458	m2	5.46	13,421			
C.A.B.8	Pram ramp		no	670.03				
	TOTAL Shared Paths		Item			219,748		
C.A.C	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	57	no	3,441.72	196,178			
C.A.C.2	6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	29	no	5,110.98	148,218			
	TOTAL Street Lighting		Item			344,396		
C.A.D	Road Drainage							
	450dia reinforced concrete pipe including excavation and backfill	984	m	233.05	229,321			
C.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	984	m	188.6	185,582			
C.A.D.3	Side entry pits including liner, cover, excavation, and associated works	0	no	2,666.58	0			
C.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	33	no	3,020.58	99,679			
	TOTAL Road Drainage		Item			514,582		
C.A.E	Preliminaries and Project Costs							
C.A.E.1	Traffic Management	5	%	2,874,180	143,709			
C.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15	%	2,874,180	431,127			
C.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5	%	2,874,180	215,563			
C.A.E.4	Risk Contingency Allowance	10	%	3,664,579	366,458			
	TOTAL Preliminaries and Project Costs		Item			1,156,857		
	TOTAL Road Construction						\$4,031,037	

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
C.B	<u>Kargotich Road (T-Junction)</u>							
C.B.A	<u>Road Works</u>							
	Earthworks and Site Preparation				\$0			
C.B.A.1	Site Clearance (based on light shrubs)	1,611	m2	\$4	\$5,671			
C.B.A.2	Removal of topsoil 150mm and stockpile for later re-use	1,611	m2	\$2	\$2,594			
C.B.A.3	Cut to Fill - General Earthworks	484	m3	\$8	\$3,983			
C.B.A.4	Imported Fill	806	m3	\$30	\$24,180			
	Subgrade Preparation				\$0			
C.B.A.5	Preparation, trim and compact	1,611	m2	\$6	\$8,861			
	Sub Base and Base Course				\$0			
C.B.A.6	100mm thick crushed rock base course	1,563	m2	\$8	\$12,848			
C.B.A.7	250mm thick compacted limestone sub base	1,563	m2	\$17	\$27,321			
	Road Paving				\$0			
C.B.A.8	50mm thick (AC14)	1,491	m2	\$31	\$46,579			
C.B.A.9	Extra over for 2% red oxide	90	m2	\$6	\$561			
C.B.A.10	Primer seal	1,371	m2	\$4	\$5,539			
	Kerbing				\$0			
C.B.A.11	Mountable Kerb (MK)	12	m	\$25	\$305			
C.B.A.12	Semi Mountable Kerb (SMK)	71	m	\$30	\$2,105			
	Line Marking and Furniture				\$0			
C.B.A.13	Line marking	140	m	\$6	\$888			
C.B.A.14	Street sign post	1	no	\$122	\$122			
C.B.A.15	Street name plate	2	no	\$199	\$398			
C.B.A.16	Chevron sign	0	no	\$613	\$0			
C.B.A.17	Traffic sign	2	no	\$450	\$900			
	Landscaping				\$0			
C.B.A.18	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
C.B.A.19	Trees (100l)	0	no	\$506	\$0			
C.B.A.20	Soft landscaping	0	m2	\$0	\$0			
C.B.A.21	Landscape mix	0	m3	\$90	\$0			
C.B.A.22	Rock pitching	0	m2	\$155	\$0			
C.B.A.23	Drainage layer	0	m2	\$0	\$0			
	Other							
C.B.A.24	Allowed for connection to Portwine Avenue		item		\$5,000			
	TOTAL Road Works		Item			\$147,853		
C.B.B	<u>Shared Paths</u>							
	Earthworks and Site Preparation							
C.B.B.1	Site Clearance (based on light shrubs)	252	m2	\$4	\$887			
C.B.B.2	Removal of topsoil 150mm and stockpile for later re-use	252	m2	\$2	\$406			
C.B.B.3	Cut to Fill - General Earthworks	76	m3	\$8	\$625			
C.B.B.4	Detailed excavation - mill and profile	0	m3	\$19	\$0			
C.B.B.5	Imported Fill	126	m3	\$30	\$3,780			
	Subgrade Preparation							
C.B.B.6	Preparation, trim and compact	252	m2	\$6	\$1,386			
	Pathway							
C.B.B.7	100 thick concrete footpath with broomed finish	252	m2	\$71	\$17,852			
C.B.B.8	Sand fill below concrete footpath (100mm)	252	m2	\$5	\$1,376			
C.B.B.9	Pram ramp	0	no	\$670	\$0			
C.B.B.10	Pram ramp including tactile	2	no	\$973	\$1,945			
	Line Marking and Furniture							
C.B.B.11	Line marking	0	m	\$6	\$0			
C.B.B.12	Street sign post	0	no	\$122	\$0			
C.B.B.13	Street name plate	0	no	\$199	\$0			
C.B.B.14	Chevron sign	0	no	\$613	\$0			
C.B.B.15	Traffic sign	3	no	\$450	\$1,350			
	Landscaping							
C.B.B.16	Mulch to planter boxes (2m x 2m)	0	m2	\$16	\$0			
C.B.B.17	Trees (100l)	0	no	\$506	\$0			
C.B.B.18	Soft landscaping	0	m2	\$0	\$0			
	TOTAL Shared Paths		Item			\$29,607		
C.B.C	<u>Street Lighting</u>							

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
C.B.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.B.D</u>	<u>Road Drainage</u>							
C.B.D.1	450dia reinforced concrete pipe including excavation and backfill	120	m	\$233	\$27,966			
C.B.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	0	m	\$189	\$0			
C.B.D.3	Side entry pits including liner, cover, excavation, and associated works	2	no Note	\$2,667	\$5,333			
C.B.D.4	Drainage layer measured with landscaping 1800x900mm box culvert incl. headwall, excavation, backfill, etc. TOTAL Road Drainage	30	m Item	\$3,543	\$106,295	\$139,594		
<u>C.B.E</u>	<u>Preliminaries and Project Costs</u>							
C.B.E.1	Traffic Management	5.0000	%	\$323,938	\$16,197			
C.B.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$323,938	\$48,591			
C.B.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$323,938	\$24,295			
C.B.E.4	Risk Contingency Allowance	10.0000	%	\$413,021	\$41,302			
	TOTAL Preliminaries and Project Costs TOTAL Kargotich Road (T-Junction)		Item			\$130,385	\$454,323	
<u>C.C</u>	<u>Utilities</u>							
<u>C.C.A</u>	<u>Power and Lighting (Western Power)</u>							
C.C.A.1	General Provisional Sum of \$100,000 as it is not clear if there is inground services requiring diversion TOTAL Power and Lighting (Western Power)	1	PS Item	\$100,000	\$100,000	\$100,000		
<u>C.C.B</u>	<u>Communications (NBN / Telstra / Westnet / etc.)</u>							
C.C.B.1	General Provisional Sum of \$100,000 as it is not clear if there is inground services requiring diversion TOTAL Communications (NBN / Telstra / Westnet / etc.)	1	PS Item	\$100,000	\$100,000	\$100,000		
<u>C.C.C</u>	<u>Water and Sewer (Water Corporation)</u>							
	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.C.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		
<u>C.C.E</u>	<u>Preliminaries and Project Costs</u>							
C.C.E.1	Traffic Management	10.0000	%	\$200,000	\$20,000			
C.C.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$200,000	\$30,000			
C.C.E.3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$200,000	\$10,000			
C.C.E.4	Risk Contingency Allowance	10.0000	%	\$260,000	\$26,000			
	TOTAL Preliminaries and Project Costs TOTAL Utilities		Item			\$86,000	\$286,000	
A.A.A.7	Estimated Imported Fill	9,567	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	10,589	m3					
	Less Cut to Fill costed	0	m3	\$30	\$0			
	Total Adjustment for Imported Fill (less Cut to Fill)						\$0	
	TOTAL Road - Bishop Road (West)							\$4,771,360

**Shire of Serpentine Jarrahdale DCP
 DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D	ROAD – NORTH SOUTH SPINE ROAD							
D.A	Road Construction							
D.A.A	Road Works							
	Earthworks and Site Preparation				\$0			
D.A.A.1	Site Clearance (based on light shrubs)	70,550	m2	\$4	\$248,336			
D.A.A.2	Removal of topsoil 150mm and stockpile for later re-use	70,550	m2	\$2	\$113,586			
D.A.A.3	Cut to Fill - General Earthworks	25,455	m3	\$8	\$209,495			
D.A.A.4	Imported Fill	0	m3	\$30	Excl.			
D.A.A.5	Form swale	10,546	m2	\$4	\$39,969			
	Subgrade Preparation				\$0			
D.A.A.6	Preparation, trim and compact	70,550	m2	\$6	\$388,025			
	Sub Base and Base Course				\$0			
D.A.A.7	100mm thick crushed rock base course	50,123	m2	\$8	\$412,011			
D.A.A.8	250mm thick compacted limestone sub base	50,123	m2	\$17	\$876,150			
	Road Paving				\$0			
D.A.A.9	50mm thick (AC14)	43,209	m2	\$31	\$1,349,849			
D.A.A.10	Extra over for 2% red oxide	8,642	m2	\$6	\$53,840			
D.A.A.11	Primer seal	43,209	m2	\$4	\$174,564			
	Kerbing				\$0			
D.A.A.12	Mountable Kerb (MK)	5,762	m	\$25	\$146,585			
D.A.A.13	Kerb openings	289	no	\$350	\$101,150			
D.A.A.14	Semi Mountable Kerb (SMK)	5,762	m	\$30	\$170,843			
	Line Marking and Furniture				\$0			
D.A.A.15	Line marking	11,523	m	\$6	\$73,056			
	Landscaping				\$0			
D.A.A.16	Soft landscaping	17,117	m2	\$0	Excl.			
D.A.A.17	Landscape mix	3,493	m3	\$90	\$314,370			
D.A.A.18	Rock pitching	914	m2	\$155	\$141,899			
D.A.A.19	Drainage layer	16,444	m2	\$0	Excl.			
	Other							
D.A.A.20	Allow for connection to existing Mundijong Road		Item		\$10,000			
	TOTAL Road Works		Item			\$4,823,728		
D.A.B	Shared Paths							
	Earthworks and Site Preparation							
D.A.B.1	Site Clearance (based on light shrubs)	14,403	m2	\$4	\$50,699			
D.A.B.2	Removal of topsoil 150mm and stockpile for later re-use	14,823	m2	\$2	\$23,865			
D.A.B.3	Cut to Fill - General Earthworks	4,510	m3	\$8	\$37,117			
D.A.B.4	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation							
D.A.B.5	Preparation, trim and compact	14,403	m2	\$6	\$79,217			
	Pathway							
D.A.B.6	100 thick concrete footpath with broomed finish	14,403	m2	\$71	\$1,020,309			
D.A.B.7	Sand fill below concrete footpath (100mm)	14,403	m2	\$5	\$78,640			
D.A.B.8	Pram ramp		no	\$670	Included with intersections			
	TOTAL Shared Paths		Item			\$1,289,846		
D.A.C	Street Lighting							
	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	165	no	\$3,442	\$567,884			
D.A.C.2	6.5 DOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	83	no	\$5,111	\$424,211			
	TOTAL Street Lighting		Item			\$992,095		
D.A.D	Road Drainage							
	450dia reinforced concrete pipe including excavation and backfill	2,881	m	\$233	\$671,417			
D.A.D.2	150dia slotted PVC subsoil drainage pipe including aggregate, geofabric and porous sand	2,881	m	\$189	\$543,357			

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D.A.D.3	Side entry pits including liner, cover, excavation, and associated works	0	no	\$2,667	CESP measured at intersections, RAB's			
D.A.D.4	Raised gully / bubble up pits including liner, cover, grate, excavation, rock pitching, and associated works	97	no	\$3,021	\$292,996			
D.A.D.5	800x900mm box culvert incl. headwall, excavation, backfill, etc.	25	m	\$1,395	\$34,887			
D.A.D.6	2000x900mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$3,356	\$100,686			
D.A.D.7	3000x900mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$4,444	\$133,329			
D.A.D.8	4000x900mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$6,712	\$201,372			
D.A.D.9	5400x900mm box culvert incl. headwall, excavation, backfill, etc.	30	m	\$9,420	\$282,586			
	TOTAL Road Drainage		Item			\$2,260,630		
D.A.E	Preliminaries and Project Costs							
D.A.E.1	Traffic Management	5.0000	%	\$9,366,299	\$468,315			
D.A.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$9,366,299	\$1,404,945			
D.A.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$9,366,299	\$702,472			
D.A.E.4	Risk Contingency Allowance	10.0000	%	\$11,942,031	\$1,194,203			
	TOTAL Preliminaries and Project Costs		Item			\$3,769,935		
	TOTAL Road Construction						\$13,136,234	
D.B	Bishop Road (Roundabout RAV7)							
D.B.A	Road Works							
	Earthworks and Site Preparation							
D.B.A.1	Site Clearance (based on light shrubs)	5,722	m2	\$4	\$20,141			
D.B.A.2	Removal of topsoil 150mm and stockpile for later re-use	5,722	m2	\$2	\$9,212			
D.B.A.3	Cut to Fill - General Earthworks	1,717	m3	\$8	\$14,131			
D.B.A.4	Imported Fill	0	m3	\$30	Excl.			
	Subgrade Preparation							
D.B.A.5	Preparation, trim and compact Sub Base and Base Course	5,722	m2	\$6	\$31,471			
D.B.A.6	100mm thick crushed rock base course	4,859	m2	\$8	\$39,941			
D.B.A.7	250mm thick compacted limestone sub base	4,859	m2	\$17	\$84,935			
	Road Paving							
D.B.A.8	50mm thick (AC14)	3,168	m2	\$31	\$98,968			
D.B.A.9	Primer seal	3,168	m2	\$4	\$12,799			
	Brick Paving		Item					
D.B.A.10	80 thick brick pavers	566	m2	\$100	\$56,657			
D.B.A.11	30 thick compacted sand bed	180	m2	\$2	\$295			
D.B.A.12	40 thick compacted sand bed (RAB)	386	m2	\$2	\$845			
D.B.A.13	170mm thick compacted limestone	180	m2	\$11	\$2,047			
D.B.A.14	250mm thick compacted limestone sub base	264	m2	\$17	\$4,615			
	Kerbing							
D.B.A.15	Mountable Kerb (MK)	139	m	\$25	\$3,536			
D.B.A.16	Semi Mountable Kerb (SMK)	285	m	\$30	\$8,450			
D.B.A.17	Barrier Kerb (BK)	120	m	\$53	\$6,376			
	Line Marking and Furniture							
D.B.A.18	Line marking	75	m	\$6	\$476			
D.B.A.19	Street sign post	1	no	\$122	\$122			
D.B.A.20	Street name plate	2	no	\$199	\$398			
D.B.A.21	Chevron sign	1	no	\$613	\$613			
D.B.A.22	Traffic sign	3	no	\$450	\$1,350			
	Landscaping				\$0			
D.B.A.23	Soft landscaping	1,134	m2	\$0	Excl.			
D.B.A.24	Landscape mix	284	m3	\$90	\$25,560			
	TOTAL Road Works		Item			\$422,937		
D.B.B	Shared Paths							
	Earthworks and Site Preparation							

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D.B.B.1	Site Clearance (based on light shrubs)	712	m2	\$4	\$2,506			
D.B.B.2	Removal of topsoil 150mm and stockpile for later re-use	712	m2	\$2	\$1,146			
D.B.B.3	Cut to Fill - General Earthworks	214	m3	\$8	\$1,761			
D.B.B.4	Imported Fill	0	m3	\$30	\$0			
D.B.B.5	Subgrade Preparation Preparation, trim and compact Pathway	712	m2	\$6	\$3,916			
D.B.B.6	100 thick concrete footpath with broomed finish	712	m2	\$71	\$50,438			
D.B.B.7	Sand fill below concrete path (100mm)	712	m2	\$5	\$3,888			
D.B.B.8	Pram ramp including tactile	6	no	\$973	\$5,836			
D.B.B.9	Tactile paving	10	m2	\$325	\$3,250			
D.B.B.10	Line Marking and Furniture Traffic sign	2	no Item	\$450	\$900			
	TOTAL Shared Paths					\$73,641		
D.B.C	Street Lighting							
D.B.C.1	6.5 SOR Street Light Pole incl. all conduits, light cabling, excavation, and related overheads	4	no Item	\$3,442	\$13,767			
	TOTAL Street Lighting					\$13,767		
D.B.D	Road Drainage							
D.B.D.1	450dia reinforced concrete pipe including excavation and backfill	170	m	\$233	\$39,619			
D.B.D.2	Side entry pits including liner, cover, excavation, and associated works	4	no Item	\$2,667	\$10,666			
	TOTAL Road Drainage					\$50,285		
D.B.E	Preliminaries and Project Costs							
D.B.E.1	Traffic Management	5.0000	%	\$560,630	\$28,031			
D.B.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$560,630	\$84,094			
D.B.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$560,630	\$42,047			
D.B.E.4	Risk Contingency Allowance	10.0000	%	\$714,803	\$71,480			
	TOTAL Preliminaries and Project Costs		Item			\$225,654		
	TOTAL Bishop Road (Roundabout RAV7)						\$786,284	
D.C	New roundabout between Scott and Sparkman (RAV7)							
D.C.A	Road Works							
D.C.A.1	Earthworks and Site Preparation Site Clearance (based on light shrubs)	6,422	m2	\$4	\$22,605			
D.C.A.2	Removal of topsoil 150mm and stockpile for later re-use	6,422	m2	\$2	\$10,339			
D.C.A.3	Cut to Fill - General Earthworks	1,927	m3	\$8	\$15,859			
D.C.A.4	Imported Fill	0	m3	\$30	Excl.			
D.C.A.5	Subgrade Preparation Preparation, trim and compact Sub Base and Base Course	6,422	m2	\$6	\$35,321			
D.C.A.6	100mm thick crushed rock base course	6,182	m2	\$8	\$50,816			
D.C.A.7	250mm thick compacted limestone sub base	6,182	m2	\$17	\$108,061			
D.C.A.8	Road Paving 50mm thick (AC14)	3,788	m2	\$31	\$118,337			
D.C.A.9	Primer seal	3,788	m2	\$4	\$15,304			
D.C.A.10	Brick Paving 80 thick brick pavers	626	m2	\$100	\$62,663			
D.C.A.11	30 thick compacted sand bed	240	m2	\$2	\$394			
D.C.A.12	40 thick compacted sand bed (RAB)	386	m2	\$2	\$845			
D.C.A.13	170mm thick compacted limestone	240	m2	\$11	\$2,729			
D.C.A.14	250mm thick compacted limestone sub base	264	m2	\$17	\$4,615			
D.C.A.15	Kerbing Mountable Kerb (MK)	139	m	\$25	\$3,536			
D.C.A.16	Semi Mountable Kerb (SMK)	292	m	\$30	\$8,658			
D.C.A.17	Barrier Kerb (BK)	120	m	\$53	\$6,376			
D.C.A.18	Line Marking and Furniture Line marking	100	m	\$6	\$634			
D.C.A.19	Street sign post	1	no	\$122	\$122			

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D.C.A.20	Street name plate	2	no	\$199	\$398			
D.C.A.21	Chevron sign	1	no	\$613	\$613			
D.C.A.22	Traffic sign	4	no	\$450	\$1,800			
	Landscaping				\$0			
D.C.A.23	Soft landscaping	1,134	m2	\$0	Excl.			
D.C.A.24	Landscape mix	284	m3	\$90	\$25,560			
	TOTAL Road Works		Item			\$495,584		
D.C.B	Shared Paths							
	Earthworks and Site Preparation							
D.C.B.1	Site Clearance (based on light shrubs)	728	m2	\$4	\$2,563			
D.C.B.2	Removal of topsoil 150mm and stockpile for later re-use	728	m2	\$2	\$1,172			
D.C.B.3	Cut to Fill - General Earthworks	219	m3	\$8	\$1,802			
D.C.B.4	Imported Fill	0	m3	\$30	\$0			
	Subgrade Preparation							
D.C.B.5	Preparation, trim and compact Pathway	728	m2	\$6	\$4,004			
D.C.B.6	100 thick concrete footpath with broomed finish	728	m2	\$71	\$51,572			
D.C.B.7	Sand fill below concrete path (100mm)	728	m2	\$5	\$3,975			
D.C.B.8	Pram ramp including tactile	8	no	\$973	\$7,781			
D.C.B.9	Tactile paving	13	m2	\$325	\$4,225			
	Line Marking and Furniture							
D.C.B.10	Traffic sign	2	no	\$450	\$900			
	TOTAL Shared Paths		Item			\$77,994		
D.C.C	Street Lighting							
	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			\$13,767		
D.C.D	Road Drainage							
	450dia reinforced concrete pipe including excavation and backfill	170	m	\$233	\$39,619			
	Side entry pits including liner, cover, excavation, and associated works	4	no	\$2,667	\$10,666			
	TOTAL Road Drainage		Item			\$50,285		
D.C.E	Preliminaries and Project Costs							
D.C.E.1	Traffic Management	5.0000	%	\$637,629	\$31,881			
D.C.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$637,629	\$95,644			
D.C.E.3	Project Owner's Cost (Planning and Design Costs)	7.5000	%	\$637,629	\$47,822			
D.C.E.4	Risk Contingency Allowance	10.0000	%	\$812,977	\$81,298			
	TOTAL Preliminaries and Project Costs		Item			\$256,646		
	TOTAL New roundabout between Scott and Sparkman (RAV7)						\$894,275	
D.D	Utilities							
D.D.A	Power and Lighting (Western Power)							
	General Provisional Sum of \$50,000 as it is not clear if there is inground services requiring diversion	1	PS	\$50,000	\$50,000			
	TOTAL Power and Lighting (Western Power)		Item			\$50,000		
D.D.B	Communications (NBN / Telstra / Westnet / etc.)							
	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		
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 desktop study		Note					
	TOTAL Water and Sewer (Water Corporation)		Item			\$0		

**Shire of Serpentine Jarrahdale DCP
DCA 2 - West Mundijong - Update**

Code	Description	Quantity	UOM	Rate	Subtotal	Sub Section Total	Section Total	Road/ DOS Total
D.D.D	<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		
D.D.E	<u>Preliminaries and Project Costs</u>							
D.D.E.1	Traffic Management	10.0000	%	\$50,000	\$5,000			
D.D.E.2	Project Overheads and Preliminaries (Indirect Construction Costs)	15.0000	%	\$50,000	\$7,500			
D.D.E.3	Project Owner's Cost (Planning and Design Costs)	5.0000	%	\$50,000	\$2,500			
D.D.E.4	Risk Contingency Allowance	10.0000	%	\$65,000	\$6,500			
	TOTAL Preliminaries and Project Costs		Item			\$21,500		
	TOTAL Utilities						\$71,500	
A.A.A.7	Estimated Imported Fill	55,656	m3					
A.A.A.5	Total m3 of Cut to Fill - General Earthworks	34,042	m3					
	Less Cut to Fill costed	21,614	m3	\$30	\$648,420			
	Total Adjustment for Imported Fill (less Cut to Fill)						\$648,420	
	TOTAL Road – North South Spine Road							\$15,536,712

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
DCA2	Mundijong Road West	300	150	450	1141	17.5	0.45	8,985.4	Existing Southern carriageway to be upgraded, no fill required. Full length Northern New carriageway 300mm fill required
	Kargotich Road	300	150	450	3273	15	0.45	22,092.8	Existing Eastern carriageway to be upgraded, no fill required. Full length Western carriageway 300mm fill required
	Bishop Road West	450	150	600	1063	15	0.6	9,567.0	Existing carriageway to be upgraded, no fill required, pavement to be upgraded. Full length new carriageway 450mm fill required
	North South Spine Road	450	150	600	3092	30	0.6	55,656.0	450mm fill required to lift full length

This information has been internally generated by the Shire in order to calculate Fill volumes to inform the costings provided by Rawlinsons. These calculations are reflected at the bottom of each costing sheet as supplementary to the information Rawlinson's has provided.