

Recommended Changes to Toolern PSP and DCP Documents

Toolern PSP

V190196

Prepared for
Melton Council

17 March 2022



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1 Introduction

Cardno was retained by Melton Council to undertake a Review of the Transport Infrastructure items identified in the Toolern Precinct Structure Plan (PSP) and supporting Development Contributions Plan (DCP).

The Toolern PSP and DCP documents were approved in 2010. The PSP includes a requirement for Council to monitor the implementation of the PSP and evaluate its effectiveness at least every five (5) years, stating that the content may be revised and updated following the review. Further, Section 3.1.7 of the DCP states the following:

The DCP should be reviewed and if necessary updated every five years (or more if required). This process will require an amendment to the Melton Planning Scheme and incorporated document. This review is anticipated to include:

- > *Update any aspect of the plan which is required;*
- > *Review of projects require, as well as their costs and scope (as relevant) and indicative provision trigger;*
- > *Review estimated new development area; and*
- > *Review of land values for land to be purchased through the plan.*

On the basis of the above, Cardno has been engaged to review the road network design in the interim and ultimate scenarios and recommend intersection treatments in order to facilitate future traffic movements through the PSP area.

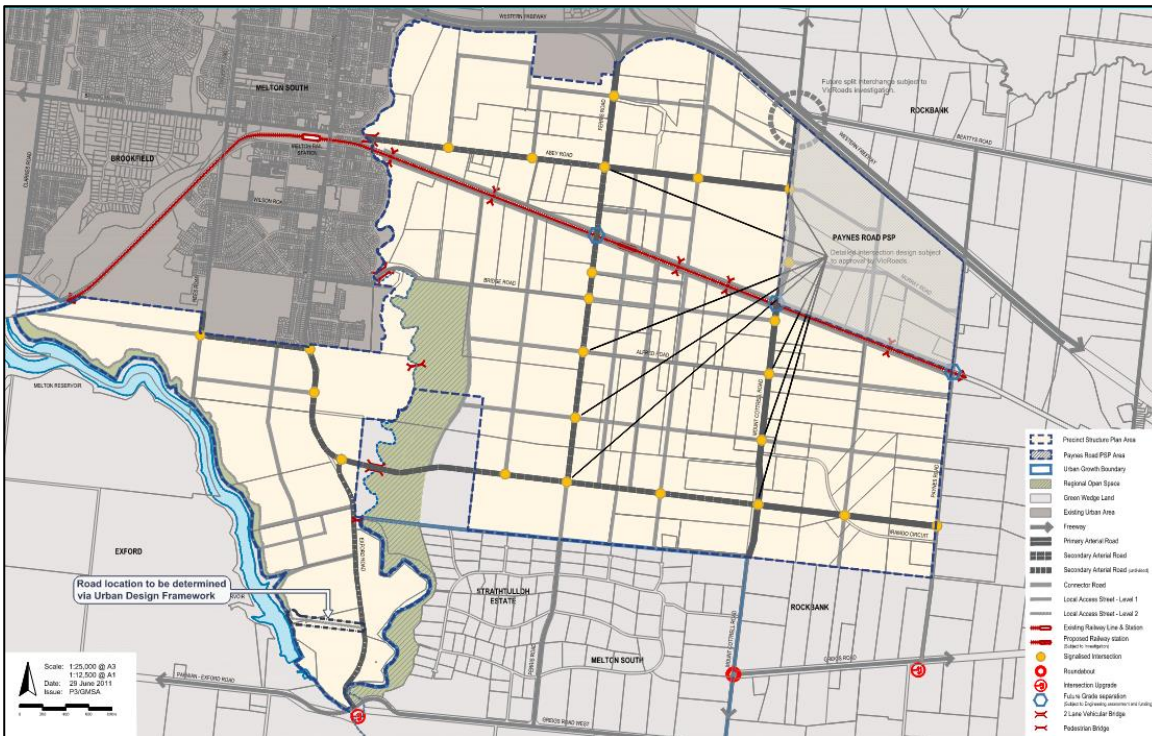
This report outlines the recommended changes to the PSP and DCP documents based on updated designs and benchmark costings.

2 Study Area

The Toolern PSP and DCP is a long term plan for urban development. It describes how the land is expected to be developed, the services planned to support development and how they will be delivered.

The PSP area is bounded by Western Highway to the north, Paynes Road to the east, Renaissance Drive to the south, with built-up areas of Brookfield to the north-west and the Werribee River to the south-west. The study area, including the indicative road network is presented in Figure 2-1.

Figure 2-1 Toolern PSP Plan 15 – Road Network



The PSP road network includes north-south primary and secondary divided/undivided arterial roads – Ferris Road, Mt. Cottrell Road and Exford Road, with connections to Western Freeway to the north. East-west arterial roads, Abey Road and Toolern Road, connect communities to the east and west of the PSP area. Various connector road and local access streets make up the internal road network of the PSP area.

3 Methodology

As part of the proposed works, the transport projects within the Cobblebank Metropolitan Activity Centre (CMAC) and Cobblebank Employment Mixed Use (CMEU) Urban Design Framework areas have been reviewed. A number of transport infrastructure items from within the CMAC and CMEU Urban Design Framework, as prepared by Council, are proposed to be included within the Toolern PSP and DCP.

Functional Layout Plans (FLPs) of all identified projects (either approved functional layouts as provided by Council or adaptation of the benchmark functional layouts as per VPA standards) have been prepared. The FLPs include road projects, intersection projects and structural (road bridge, pedestrian bridge, shared user path rail underpass and road flyover) projects. For intersection and road projects, designs for both the ultimate and interim layouts have been prepared.

The land take area for each road, intersection and bridge projects has been calculated on a property number basis.

Cost estimates for each of the nominated road, intersection and structural projects have been prepared based on VPA standard cost estimates.

Comments provided by internal and external stakeholders have been incorporated into the final designs and costings.

4 Recommended Changes to DCP

It is recommended that the changes incorporated in the various items (FLPs, cross-sections, land takes and cost estimates) shown within the following appendices be adopted:

- > Appendix A – Intersection Project Costings (note: interim intersection designs form the bases for the costings)
- > Appendix B – Road Project Costings
- > Appendix C – Land Take Table
- > Appendix D – Land Take Plans
- > Appendix E – PSP Road Cross Sections
- > Appendix F – Toolern Precinct Bridges Costings Report
- > Appendix G – Intersection Projects Functional Layout Plans
- > Appendix H – Road Projects Functional Layout Plans
- > Appendix I – Bridge Designs

APPENDIX

A

INTERSECTION PROJECT COSTINGS

| Appendix A | |
|--------------------------------|--|
| Description: | IT-01 - Secondary - Connector Intersection (Rees Road & East-West Arterial Road) |
| Civil Component Number: | IT-01 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---------------------------------------|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 17422 | m2 | 3.68 | 64112.96 | 4.96 | 86413.12 |
| | Earthworks | 4136 | m3 | 34.07 | 140913.52 | 40.52 | 167590.72 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 6512 | m2 | 127.01 | 827089.12 | 133.78 | 871175.36 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1303 | m2 | 14.22 | 18528.66 | 16.16 | 21056.48 |
| | Pavement Rehab | 2106 | m2 | 51.58 | 108627.48 | 59.32 | 124927.92 |
| | Pavement Removal | 416 | m2 | 140.00 | 58240.00 | 161.00 | 66976.00 |
| Concrete Works | Kerb and Channel | 1842 | m | 54.81 | 100960.02 | 60.90 | 112177.80 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2488 | m2 | 63.51 | 158012.88 | 73.63 | 183191.44 |
| | Traffic Island | 293 | m2 | 77.60 | 22736.80 | 84.07 | 24632.51 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 400 | m | 259.10 | 103640.00 | 282.96 | 113184.00 |
| | Drainage Pipe 450mm CR Bfilled | 269 | m | 299.43 | 80546.67 | 334.33 | 89934.77 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 14 | No. | 2565.39 | 35915.46 | 2806.10 | 39285.40 |
| | Drainage – Sub-soil drainage | 759 | m | 33.88 | 25714.92 | 43.40 | 32940.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 60 | No. | 303.34 | 18200.40 | 363.01 | 21780.60 |
| | Landscaping | 5709 | m2 | 21.61 | 123371.49 | 25.16 | 143638.44 |
| | Topsoil Seeding | 5709 | m2 | 7.21 | 41161.89 | 8.44 | 48183.96 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 10 | Item | 338.43 | 3384.30 | 380.39 | 3803.90 |
| | Line marking | 9040 | m2 of Pavement | 3.11 | 28114.40 | 4.09 | 36973.60 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 24 | Item | 292.43 | 7018.32 | 319.78 | 7674.72 |
| Other | Rock excavation | 159 | m3 | 100.00 | 15900.00 | 115.00 | 18285.00 |
| | Telecom/power relocation allowance | 48 | m | 1300.00 | 62400.00 | 1495.00 | 71760.00 |
| | Water/gas relocation allowance | 46 | m | 300.00 | 13800.00 | 345.00 | 15870.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 90107.25 | 3.25 | 102007.88 |
| | VicRoads Fees | 1 | % | 1.00 | 27725.31 | 1.00 | 31387.04 |
| | Traffic Management | 1 | % | 5.00 | 138626.54 | 5.00 | 156935.20 |
| | Environmental Management | 1 | % | 0.50 | 13862.65 | 0.50 | 15693.52 |
| | Surveying and Design | 1 | % | 5.00 | 138626.54 | 5.00 | 156935.20 |
| | Supervision and Project management | 1 | % | 9.00 | 249527.77 | 9.00 | 282483.37 |
| | Site Establishment | 1 | % | 2.50 | 69313.27 | 2.50 | 78467.60 |
| | Contingency | 1 | % | 15.00 | 415879.62 | 15.00 | 470805.61 |
| Total - (2018) rates | Excluding Delivery | | | | 2,772,531 | | 3,138,704 |
| | Including Delivery | | | | 3,916,200 | | 4,433,420 |
| Total - (2021) rates | Excluding Delivery | | | | 3,022,059 | | 3,421,188 |
| | Including Delivery | | | | 4,268,658 | | 4,832,428 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-02 - Secondary - Secondary T-Intersection (Exford Road & East-West Arterial Road) |
| Civil Component Number: | IT-02 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 20039 | m2 | 3.68 | 73743.52 | 4.96 | 99393.44 |
| | Earthworks | 4224 | m3 | 34.07 | 143911.68 | 40.52 | 171156.48 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 6651 | m2 | 127.01 | 844743.51 | 133.78 | 889770.78 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1331 | m2 | 14.22 | 18926.82 | 16.16 | 21508.96 |
| | Pavement Rehab | 3891 | m2 | 51.58 | 200697.78 | 59.32 | 230814.12 |
| | Pavement Removal | 490 | m2 | 140.00 | 68600.00 | 161.00 | 78890.00 |
| Concrete Works | Kerb and Channel | 2036 | m | 54.81 | 111593.16 | 60.90 | 123992.40 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2588 | m2 | 63.51 | 164363.88 | 73.63 | 190554.44 |
| | Traffic Island | 186 | m2 | 77.60 | 14433.60 | 84.07 | 15637.02 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 591 | m | 259.10 | 153128.10 | 282.96 | 167229.36 |
| | Drainage Pipe 450mm CR Bfilled | 400 | m | 299.43 | 119772.00 | 334.33 | 133732.00 |
| | Drainage Pipe 525mm CR Bfilled | 84 | m | 403.86 | 33924.24 | 448.03 | 37634.52 |
| | Drainage - pits | 23 | No. | 2565.39 | 59003.97 | 2806.10 | 64540.30 |
| | Drainage – Sub-soil drainage | 2036 | m | 33.88 | 68979.68 | 43.40 | 88362.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 30 | No. | 303.34 | 9100.20 | 363.01 | 10890.30 |
| | Landscaping | 6879 | m2 | 21.61 | 148655.19 | 25.16 | 173075.64 |
| | Topsoil Seeding | 6879 | m2 | 7.21 | 49597.59 | 8.44 | 58058.76 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 5 | Item | 338.43 | 1692.15 | 380.39 | 1901.95 |
| | Line marking | 6651 | m2 of Pavement | 3.11 | 20684.61 | 4.09 | 27202.59 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| Other | Tactile Pavers (Hazard only) | 18 | Item | 292.43 | 5263.74 | 319.78 | 5756.04 |
| | Rock excavation | 845 | m3 | 100.00 | 84500.00 | 115.00 | 97175.00 |
| | Telecom/power relocation allowance | 295 | m | 1300.00 | 383500.00 | 1495.00 | 441025.00 |
| | Water/gas relocation allowance | 365 | m | 300.00 | 109500.00 | 345.00 | 125925.00 |
| | Service proving fee | 1 | Item | 3000.00 | 10000.00 | 3450.00 | 3450.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 111938.38 | 3.25 | 126718.16 |
| | VicRoads Fees | 1 | % | 1.00 | 34442.58 | 1.00 | 38990.20 |
| | Traffic Management | 1 | % | 5.00 | 172212.89 | 5.00 | 194951.01 |
| | Environmental Management | 1 | % | 0.50 | 172212.29 | 0.50 | 194951.01 |
| | Surveying and Design | 1 | % | 5.00 | 172212.89 | 5.00 | 194951.01 |
| | Supervision and Project management | 1 | % | 9.00 | 309983.19 | 9.00 | 350911.82 |
| | Site Establishment | 1 | % | 2.50 | 86106.44 | 2.50 | 97475.50 |
| | Contingency | 1 | % | 15.00 | 516638.66 | 15.00 | 584853.03 |
| Total - (2018) rates | Excluding Delivery | | | | 3,444,258 | | 3,899,020 |
| | Including Delivery | | | | 4,865,014 | | 5,507,366 |
| Total - (2021) rates | Excluding Delivery | | | | 3,754,241 | | 4,249,932 |
| | Including Delivery | | | | 5,302,865 | | 6,003,029 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-03 - Secondary - Secondary T-Intersection (Exford Road & Toolern Road) |
| Civil Component Number: | IT-03 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 28152 | m2 | 3.68 | 103599.36 | 4.96 | 139633.92 |
| | Earthworks | 6715 | m3 | 34.07 | 228780.05 | 40.52 | 272091.80 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 10574 | m2 | 127.01 | 1343003.74 | 133.78 | 1414589.72 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 2115 | m2 | 14.22 | 30075.30 | 16.16 | 34178.40 |
| | Pavement Rehab | 2344 | m2 | 51.58 | 120903.52 | 59.32 | 139046.08 |
| | Pavement Removal | 2156 | m2 | 140.00 | 301840.00 | 161.00 | 347116.00 |
| Concrete Works | Kerb and Channel | 2999 | m | 54.81 | 164375.19 | 60.90 | 182639.10 |
| | Kerb Removal | 105 | m | 60.00 | 6300.00 | 69.00 | 7245.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 3865 | m2 | 63.51 | 245466.15 | 73.63 | 284579.95 |
| | Concrete Removal | 342 | m2 | 45.03 | 15400.26 | 49.53 | 16939.26 |
| | Traffic Island | 605 | m2 | 77.60 | 46948.00 | 84.07 | 50862.35 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 849 | m | 259.10 | 219975.90 | 282.96 | 240233.04 |
| | Drainage Pipe 450mm CR Bfilled | 425 | m | 299.43 | 127257.75 | 334.33 | 142090.25 |
| | Drainage Pipe 525mm CR Bfilled | 142 | m | 403.86 | 57348.12 | 448.03 | 63620.26 |
| | Drainage - pits | 27 | No. | 2565.39 | 69265.53 | 2806.10 | 75764.70 |
| | Drainage – Sub-soil drainage | 2999 | m | 33.88 | 101606.12 | 43.40 | 130156.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 131 | No. | 303.34 | 39737.54 | 363.01 | 47554.31 |
| | Landscaping | 10800 | m2 | 21.61 | 233388.00 | 25.16 | 271728.00 |
| | Topsoil Seeding | 10800 | m2 | 7.21 | 77868.00 | 8.44 | 91152.00 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 9 | Item | 338.43 | 3045.87 | 380.39 | 3423.51 |
| | Line marking | 12918 | m2 of Pavement | 3.11 | 40174.98 | 4.09 | 52834.62 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 18 | Item | 292.43 | 5263.74 | 319.78 | 5756.04 |
| Other | Rock excavation | 1343 | m3 | 100.00 | 134300.00 | 115.00 | 154445.00 |
| | Telecom/power relocation allowance | 262 | m | 1300.00 | 340600.00 | 1495.00 | 391690.00 |
| | Water/gas relocation allowance | 1006 | m | 300.00 | 301800.00 | 345.00 | 347070.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Light pole relocation allowance | 2 | Item | 10000.00 | 20000.00 | 11500.00 | 23000.00 |
| | Power pole relocation allowance | 4 | Item | 40000.00 | 160000.00 | 46000.00 | 184000.00 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 2037 | m | 14.00 | 28518.00 | 16.10 | 32795.70 |
| Delivery | Council Fees | 1 | % | 3.25 | 166490.46 | 3.25 | 188470.08 |
| | VicRoads Fees | 1 | % | 1.00 | 51227.83 | 1.00 | 57990.79 |
| | Traffic Management | 1 | % | 5.00 | 256139.17 | 5.00 | 289953.96 |
| | Environmental Management | 1 | % | 0.50 | 25613.92 | 0.50 | 28995.40 |
| | Surveying and Design | 1 | % | 5.00 | 256139.17 | 5.00 | 289953.96 |
| | Supervision and Project management | 1 | % | 9.00 | 461050.51 | 9.00 | 521917.14 |
| | Site Establishment | 1 | % | 2.50 | 128069.59 | 2.50 | 144976.98 |
| | Contingency | 1 | % | 15.00 | 768417.51 | 15.00 | 869861.89 |
| Total - (2018) rates | Excluding Delivery | | | | 5,122,783 | | 5,799,079 |
| | Including Delivery | | | | 7,235,932 | | 8,191,199 |
| Total - (2021) rates | Excluding Delivery | | | | 5,583,834 | | 6,320,997 |
| | Including Delivery | | | | 7,887,166 | | 8,928,408 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-04 - Secondary - Secondary Lane Upgrades (Exford Road & Greigs Road) |
| Civil Component Number: | IT-04 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------|---|------|----------------|------------|--------------|------------|--------------|
| Sitemworks/ Earthworks | Site Preparation | 7451 | m2 | 3.68 | 27419.68 | 4.96 | 36956.96 |
| | Earthworks | 1708 | m3 | 34.07 | 58191.56 | 40.52 | 69208.16 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 2689 | m2 | 127.01 | 341529.89 | 133.78 | 359734.42 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 538 | m2 | 14.22 | 7650.36 | 16.16 | 8694.08 |
| | Pavement Rehab | 710 | m2 | 51.58 | 36621.80 | 59.32 | 42117.20 |
| | Pavement Removal | 872 | m2 | 140.00 | 122080.00 | 161.00 | 140392.00 |
| Concrete Works | Kerb and Channel | 777 | m | 54.81 | 42587.37 | 60.90 | 47319.30 |
| | Kerb Removal | 58 | m | 60.00 | 3480.00 | 69.00 | 4002.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 1043 | m2 | 63.51 | 66240.93 | 73.63 | 76796.09 |
| | Concrete Removal | 35 | m2 | 45.03 | 1576.05 | 49.53 | 1733.55 |
| | Traffic Island | 84 | m2 | 77.60 | 6518.40 | 84.07 | 7061.88 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 242 | m | 259.10 | 62702.20 | 282.96 | 68476.32 |
| | Drainage Pipe 450mm CR Bfilled | 121 | m | 299.43 | 36231.03 | 334.33 | 40453.93 |
| | Drainage Pipe 525mm CR Bfilled | 41 | m | 403.86 | 16558.26 | 448.03 | 18369.23 |
| | Drainage - pits | 9 | No. | 2565.39 | 23088.51 | 2806.10 | 25254.90 |
| | Drainage – Sub-soil drainage | 777 | m2 | 33.88 | 26324.76 | 43.40 | 33721.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 42 | No. | 303.34 | 12740.28 | 363.01 | 15246.42 |
| | Landscaping | 2918 | m2 | 21.61 | 63057.98 | 25.16 | 73416.88 |
| | Topsoil Seeding | 2918 | m2 | 7.21 | 21038.78 | 8.44 | 24627.92 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 1 | Item/ Per Leg | 48468.93 | 48468.93 | 55617.74 | 55617.74 |
| Misc. | Regulatory Signage | 4 | Item | 338.43 | 1353.72 | 380.39 | 1521.56 |
| | Line marking | 3399 | m2 of Pavement | 3.11 | 10570.89 | 4.09 | 13901.91 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 6 | Item | 292.43 | 1754.58 | 319.78 | 1918.68 |
| Other | Rock excavation | 342 | m3 | 100.00 | 34200.00 | 115.00 | 39330.00 |
| | Telecom/power relocation allowance | 162 | m | 1300.00 | 210600.00 | 1495.00 | 242190.00 |
| | Water/gas relocation allowance | 369 | m | 300.00 | 110700.00 | 345.00 | 127305.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Light pole relocation allowance | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Power pole relocation allowance | 1 | Item | 40000.00 | 40000.00 | 46000.00 | 46000.00 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 761 | m | 14.00 | 10654.00 | 16.10 | 12252.10 |
| Delivery | Council Fees | 1 | % | 3.25 | 49896.75 | 3.25 | 56704.42 |
| | VicRoads Fees | 1 | % | 1.00 | 15352.85 | 1.00 | 17447.51 |
| | Traffic Management | 1 | % | 5.00 | 76764.23 | 5.00 | 87237.57 |
| | Environmental Management | 1 | % | 0.50 | 7676.42 | 0.50 | 8723.76 |
| | Surveying and Design | 1 | % | 5.00 | 76764.23 | 5.00 | 87237.57 |
| | Supervision and Project management | 1 | % | 9.00 | 138175.62 | 9.00 | 157027.63 |
| | Site Establishment | 1 | % | 2.50 | 38382.12 | 2.50 | 43618.79 |
| | Contingency | 1 | % | 15.00 | 230292.69 | 15.00 | 261712.72 |
| Total - (2018) rates | Excluding Delivery | | | | 1,535,285 | | 1,744,751 |
| | Including Delivery | | | | 2,168,590 | | 2,464,461 |
| Total - (2021) rates | Excluding Delivery | | | | 1,673,461 | | 1,901,780 |
| | Including Delivery | | | | 2,363,764 | | 2,686,264 |

| Appendix A | |
|--------------------------------|---|
| Description: | IT-05 - Secondary - Secondary Intersection (Ferris Road & Toolern Road) |
| Civil Component Number: | IT-05 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 28076 | m2 | 3.68 | 103319.68 | 4.96 | 139256.96 |
| | Earthworks | 10010 | m3 | 34.07 | 341040.70 | 40.52 | 405605.20 |
| Road Pavement | Primary Arterial Pavement | 14000 | m2 | 169.62 | 2374680.00 | 186.26 | 2607640.00 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 2800 | m2 | 14.22 | 39816.00 | 16.16 | 45248.00 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 2936 | m | 54.81 | 160922.16 | 60.90 | 178802.40 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 3940 | m2 | 63.51 | 250229.40 | 73.63 | 290102.20 |
| | Traffic Island | 467 | m2 | 77.60 | 36239.20 | 84.07 | 39260.69 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 831 | m | 259.10 | 215312.10 | 282.96 | 235139.76 |
| | Drainage Pipe 450mm CR Bfilled | 416 | m | 299.43 | 124562.88 | 334.33 | 139081.28 |
| | Drainage Pipe 525mm CR Bfilled | 139 | m | 403.86 | 56136.54 | 448.03 | 62276.17 |
| | Drainage - pits | 22 | No. | 2565.39 | 56438.58 | 2806.10 | 61734.20 |
| | Drainage – Sub-soil drainage | 2936 | m | 33.88 | 99471.68 | 43.40 | 127422.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 149 | No. | 303.34 | 45197.66 | 363.01 | 54088.49 |
| | Landscaping | 9647 | m2 | 21.61 | 208471.67 | 25.16 | 242718.52 |
| | Topsoil Seeding | 9647 | m2 | 7.21 | 69554.87 | 8.44 | 81420.68 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 20 | Item | 338.43 | 6768.60 | 380.39 | 7607.80 |
| | Line marking | 14000 | m2 of Pavement | 3.11 | 43540.00 | 4.09 | 57260.00 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 24 | Item | 292.43 | 7018.32 | 319.78 | 7674.72 |
| Other | Rock excavation | 2002 | m3 | 100.00 | 200200.00 | 115.00 | 230230.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 48 | m | 300.00 | 14400.00 | 345.00 | 16560.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 167942.50 | 3.25 | 190657.26 |
| | VicRoads Fees | 1 | % | 1.00 | 51674.62 | 1.00 | 58663.77 |
| | Traffic Management | 1 | % | 5.00 | 258373.08 | 5.00 | 293318.86 |
| | Environmental Management | 1 | % | 0.50 | 25837.31 | 0.50 | 29331.89 |
| | Surveying and Design | 1 | % | 5.00 | 258373.08 | 5.00 | 293318.86 |
| | Supervision and Project management | 1 | % | 9.00 | 465071.54 | 9.00 | 527973.95 |
| | Site Establishment | 1 | % | 2.50 | 129186.54 | 2.50 | 146659.43 |
| | Contingency | 1 | % | 15.00 | 775119.23 | 15.00 | 879956.58 |
| Total - (2018) rates | Excluding Delivery | | | | 5,167,462 | | 5,866,377 |
| | Including Delivery | | | | 7,299,039 | | 8,286,258 |
| Total - (2021) rates | Excluding Delivery | | | | 5,632,534 | | 6,394,352 |
| | Including Delivery | | | | 7,955,954 | | 9,032,022 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-06 - Primary - Secondary Intersection (Mt Cottrell Road & Toolern Road) |
| Civil Component Number: | IT-06 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|-------------------|------------|-------------------|
| Siteworks/ Earthworks | Site Preparation | 37888 | m2 | 3.68 | 139427.84 | 4.96 | 187924.48 |
| | Earthworks | 13272 | m3 | 34.07 | 452177.04 | 40.52 | 537781.44 |
| Road Pavement | Primary Arterial Pavement | 15199 | m2 | 169.62 | 2578054.38 | 186.26 | 2830965.74 |
| | Secondary Arterial Pavement | 3786 | m2 | 127.01 | 480859.86 | 133.78 | 506491.08 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 3797 | m2 | 14.22 | 53993.34 | 16.16 | 61359.52 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 3556 | m | 54.81 | 194904.36 | 60.90 | 216560.40 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 5575 | m2 | 63.51 | 354068.25 | 73.63 | 410487.25 |
| | Traffic Island | 726 | m2 | 77.60 | 56337.60 | 84.07 | 61034.82 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 969 | m | 259.10 | 251067.90 | 282.96 | 274188.24 |
| | Drainage Pipe 450mm CR Bfilled | 485 | m | 299.43 | 145223.55 | 334.33 | 162150.05 |
| | Drainage Pipe 525mm CR Bfilled | 162 | m | 403.86 | 65425.32 | 448.03 | 72580.86 |
| | Drainage - pits | 28 | No. | 2565.39 | 71830.92 | 2806.10 | 78570.80 |
| | Drainage – Sub-soil drainage | 3556 | m | 33.88 | 120477.28 | 43.40 | 154330.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 172 | No. | 303.34 | 52174.48 | 363.01 | 62437.72 |
| | Landscaping | 12587 | m2 | 21.61 | 272005.07 | 25.16 | 316688.92 |
| | Topsoil Seeding | 12587 | m2 | 7.21 | 90752.27 | 8.44 | 106234.28 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 20 | Item | 338.43 | 6768.60 | 380.39 | 7607.80 |
| | Line marking | 18985 | m2 of Pavement | 3.11 | 59043.35 | 4.09 | 77648.65 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 24 | Item | 292.43 | 7018.32 | 319.78 | 7674.72 |
| Other | Rock excavation | 2655 | m3 | 100.00 | 265500.00 | 115.00 | 305325.00 |
| | Telecom/power relocation allowance | 31 | m | 1300.00 | 40300.00 | 1495.00 | 46345.00 |
| | Water/gas relocation allowance | 77 | m | 300.00 | 23100.00 | 345.00 | 26565.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Power pole relocation allowance | 6 | Item | 40000.00 | 240000.00 | 46000.00 | 276000.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 218876.16 | 3.25 | 247786.50 |
| | VicRoads Fees | 1 | % | 1.00 | 67346.51 | 1.00 | 76242.00 |
| | Traffic Management | 1 | % | 5.00 | 336732.56 | 5.00 | 381210.00 |
| | Environmental Management | 1 | % | 0.50 | 33673.26 | 0.50 | 38121.00 |
| | Surveying and Design | 1 | % | 5.00 | 336732.56 | 5.00 | 381210.00 |
| | Supervision and Project management | 1 | % | 9.00 | 606118.61 | 9.00 | 686177.99 |
| | Site Establishment | 1 | % | 2.50 | 168366.28 | 2.50 | 190605.00 |
| | Contingency | 1 | % | 15.00 | 1010197.68 | 15.00 | 1143629.99 |
| Total - (2018) rates | Excluding Delivery | | | | 6,734,651 | | 7,624,200 |
| | Including Delivery | | | | 9,512,695 | | 10,769,182 |
| Total - (2021) rates | Excluding Delivery | | | | 7,340,770 | | 8,310,378 |
| | Including Delivery | | | | 10,368,838 | | 11,738,409 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-10 - Primary - Primary Intersection (Mt Cottrell Road & Shogaki Drive) |
| Civil Component Number: | IT-10 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 31773 | m2 | 3.68 | 116924.64 | 4.96 | 157594.08 |
| | Earthworks | 4789 | m3 | 34.07 | 163161.23 | 40.52 | 194050.28 |
| Road Pavement | Primary Arterial Pavement | 6697 | m2 | 169.62 | 1135945.14 | 186.26 | 1247383.22 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1340 | m2 | 14.22 | 19054.80 | 16.16 | 21654.40 |
| | Pavement Rehab | 3590 | m2 | 51.58 | 185172.20 | 59.32 | 212958.80 |
| | Pavement Removal | 804 | m2 | 140.00 | 112560.00 | 161.00 | 129444.00 |
| Concrete Works | Kerb and Channel | 1651 | m | 54.81 | 90491.31 | 60.90 | 100545.90 |
| | Kerb Removal | 105 | m | 60.00 | 6300.00 | 69.00 | 7245.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2085 | m2 | 63.51 | 132418.35 | 73.63 | 153518.55 |
| | Concrete Removal | 342 | m2 | 45.03 | 15400.26 | 49.53 | 16939.26 |
| | Traffic Island | 390 | m2 | 77.60 | 30264.00 | 84.07 | 32787.30 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 396 | m | 259.10 | 102603.60 | 282.96 | 112052.16 |
| | Drainage Pipe 450mm CR Bfilled | 198 | m | 299.43 | 59287.14 | 334.33 | 66197.34 |
| | Drainage Pipe 525mm CR Bfilled | 66 | m | 403.86 | 26654.76 | 448.03 | 29569.98 |
| | Drainage - pits | 16 | No. | 2565.39 | 41046.24 | 2806.10 | 44897.60 |
| | Drainage - Sub-soil drainage | 1651 | m | 33.88 | 55935.88 | 43.40 | 71653.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 82 | No. | 303.34 | 24873.88 | 363.01 | 29766.82 |
| | Landscaping | 11725 | m2 | 21.61 | 253377.25 | 25.16 | 295001.00 |
| | Topsoil Seeding | 11725 | m2 | 7.21 | 84537.25 | 8.44 | 98959.00 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 9 | Item | 338.43 | 3045.87 | 380.39 | 3423.51 |
| | Line marking | 10287 | m2 of Pavement | 3.11 | 31992.57 | 4.09 | 42073.83 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 18 | Item | 292.43 | 5263.74 | 319.78 | 5756.04 |
| Other | Rock excavation | 958 | m3 | 100.00 | 95800.00 | 115.00 | 110170.00 |
| | Telecom/power relocation allowance | 362 | m | 1300.00 | 470600.00 | 1495.00 | 541190.00 |
| | Water/gas relocation allowance | 276 | m | 300.00 | 82800.00 | 345.00 | 95220.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Light pole relocation allowance | 0 | Item | 10000.00 | 0.00 | 11500.00 | 0.00 |
| | Power pole relocation allowance | 3 | Item | 40000.00 | 120000.00 | 46000.00 | 138000.00 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 427 | m | 14.00 | 5978.00 | 16.10 | 6874.70 |
| Delivery | Council Fees | 1 | % | 3.25 | 130891.49 | 3.25 | 150077.52 |
| | VicRoads Fees | 1 | % | 1.00 | 40274.30 | 1.00 | 46177.70 |
| | Traffic Management | 1 | % | 5.00 | 201371.52 | 5.00 | 230888.49 |
| | Environmental Management | 1 | % | 0.50 | 20137.15 | 0.50 | 23088.85 |
| | Surveying and Design | 1 | % | 5.00 | 201371.52 | 5.00 | 230888.49 |
| | Supervision and Project management | 1 | % | 9.00 | 362468.74 | 9.00 | 415599.29 |
| | Site Establishment | 1 | % | 2.50 | 100685.76 | 2.50 | 115444.25 |
| | Contingency | 1 | % | 15.00 | 604114.56 | 15.00 | 692665.48 |
| Total - (2018) rates | Excluding Delivery | | | | 4,027,430 | | 4,617,770 |
| | Including Delivery | | | | 5,688,745 | | 6,522,600 |
| Total - (2021) rates | Excluding Delivery | | | | 4,389,900 | | 5,033,370 |
| | Including Delivery | | | | 6,200,734 | | 7,109,635 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-12 - Primary - Connector T-Intersection (Shogaki Drive & Connector Road) |
| Civil Component Number: | IT-12 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---------------------------------------|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 30768 | m2 | 3.68 | 113226.24 | 4.96 | 152609.28 |
| | Earthworks | 9788 | m3 | 34.07 | 333477.16 | 40.52 | 396609.76 |
| Road Pavement | Primary Arterial Pavement | 11285 | m2 | 169.62 | 1914161.70 | 186.26 | 2101944.10 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 3212 | m2 | 105.15 | 337741.80 | 112.44 | 361157.28 |
| | Subgrade Preparation | 2900 | m2 | 14.22 | 41238.00 | 16.16 | 46864.00 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Removal | 0 | m2 | 140.00 | 0.00 | 161.00 | 0.00 |
| Concrete Works | Kerb and Channel | 2770 | m | 54.81 | 151823.70 | 60.90 | 168693.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 5686 | m2 | 63.51 | 361117.86 | 73.63 | 418660.18 |
| | Traffic Island | 534 | m2 | 77.60 | 41438.40 | 84.07 | 44893.38 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 775 | m | 259.10 | 200802.50 | 282.96 | 219294.00 |
| | Drainage Pipe 450mm CR Bfilled | 388 | m | 299.43 | 116178.84 | 334.33 | 129720.04 |
| | Drainage Pipe 525mm CR Bfilled | 130 | m | 403.86 | 52501.80 | 448.03 | 58243.90 |
| | Drainage - pits | 22 | No. | 2565.39 | 56438.58 | 2806.10 | 61734.20 |
| | Drainage – Sub-soil drainage | 2770 | m | 33.88 | 93847.60 | 43.40 | 120218.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 125 | No. | 303.34 | 37917.50 | 363.01 | 45376.25 |
| | Landscaping | 9982 | m2 | 21.61 | 215711.02 | 25.16 | 251147.12 |
| | Topsoil Seeding | 9982 | m2 | 7.21 | 71970.22 | 8.44 | 84248.08 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 16 | Item | 338.43 | 5414.88 | 380.39 | 6086.24 |
| | Line marking | 14497 | m2 of Pavement | 3.11 | 45085.67 | 4.09 | 59292.73 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 24 | Item | 292.43 | 7018.32 | 319.78 | 7674.72 |
| Other | Rock excavation | 1958 | m3 | 100.00 | 195800.00 | 115.00 | 225170.00 |
| | Telecom/power relocation allowance | 235 | m | 1300.00 | 305500.00 | 1495.00 | 351325.00 |
| | Water/gas relocation allowance | 1344 | m | 300.00 | 403200.00 | 345.00 | 463680.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 189011.98 | 3.25 | 214886.39 |
| | VicRoads Fees | 1 | % | 1.00 | 58157.53 | 1.00 | 66118.89 |
| | Traffic Management | 1 | % | 5.00 | 290787.66 | 5.00 | 330594.45 |
| | Environmental Management | 1 | % | 0.50 | 29078.77 | 0.50 | 33059.45 |
| | Surveying and Design | 1 | % | 5.00 | 290787.66 | 5.00 | 330594.45 |
| | Supervision and Project management | 1 | % | 9.00 | 523417.80 | 9.00 | 595070.01 |
| | Site Establishment | 1 | % | 2.50 | 145393.83 | 2.50 | 165297.23 |
| | Contingency | 1 | % | 15.00 | 872362.99 | 15.00 | 991783.35 |
| Total - (2018) rates | Excluding Delivery | | | | 5,815,753 | | 6,611,889 |
| | Including Delivery | | | | 8,214,752 | | 9,339,293 |
| Total - (2021) rates | Excluding Delivery | | | | 6,339,172 | | 7,206,960 |
| | Including Delivery | | | | 8,954,080 | | 10,179,831 |

| Appendix A | |
|--------------------------------|---|
| Description: | IT-13 - Primary - Secondary Intersection (Ferris Road, Shogaki Drive & Abey Road) |
| Civil Component Number: | IT-13 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------------|--|-------|----------------|------------|------------------|------------|-------------------|
| Siteworks/ Earthworks | Site Preparation | 29964 | m2 | 3.68 | 110267.52 | 4.96 | 148621.44 |
| | Earthworks | 5198 | m3 | 34.07 | 177095.86 | 40.52 | 210622.96 |
| Road Pavement | Primary Arterial Pavement | 1576 | m2 | 169.62 | 267321.12 | 186.26 | 293545.76 |
| | Secondary Arterial Pavement | 6410 | m2 | 127.01 | 814134.10 | 133.78 | 857529.80 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1598 | m2 | 14.22 | 22723.56 | 16.16 | 25823.68 |
| | Pavement Rehab | 4823 | m2 | 51.58 | 248770.34 | 59.32 | 286100.36 |
| | Pavement Removal | 4017 | m2 | 140.00 | 562380.00 | 161.00 | 646737.00 |
| Concrete Works | Kerb and Channel | 2781 | m | 54.81 | 152426.61 | 60.90 | 169362.90 |
| | Kerb Removal | 1204 | m | 60.00 | 72240.00 | 69.00 | 83076.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 4551 | m2 | 63.51 | 289034.01 | 73.63 | 335090.13 |
| | Traffic Island | 1474 | m2 | 77.60 | 114382.40 | 84.07 | 123919.18 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 750 | m | 259.10 | 194325.00 | 282.96 | 212220.00 |
| | Drainage Pipe 450mm CR Bfilled | 252 | m | 299.43 | 75456.36 | 334.33 | 84251.16 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 29 | No. | 2565.39 | 74396.31 | 2806.10 | 81376.90 |
| | Drainage – Sub-soil drainage | 2781 | m | 33.88 | 94220.28 | 43.40 | 120695.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 128 | No. | 303.34 | 38827.52 | 363.01 | 46465.28 |
| | Landscaping | 11063 | m2 | 21.61 | 239071.43 | 25.16 | 278345.08 |
| | Topsoil Seeding | 11063 | m2 | 7.21 | 79764.23 | 8.44 | 93371.72 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 16 | Item | 338.43 | 5414.88 | 380.39 | 6086.24 |
| | Line marking | 12809 | m2 of Pavement | 3.11 | 39835.99 | 4.09 | 52388.81 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1040 | m3 | 100.00 | 104000.00 | 115.00 | 119600.00 |
| | Telecom/power relocation allowance | 947 | m | 1300.00 | 1231100.00 | 1495.00 | 1415765.00 |
| | Water/gas relocation allowance | 743 | m | 300.00 | 222900.00 | 345.00 | 256335.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Earthen mound removal | 2090 | m3 | 34.07 | 71206.30 | 40.52 | 84686.80 |
| | Light pole relocation allowance | 8 | Item | 10000.00 | 80000.00 | 11500.00 | 92000.00 |
| | Power pole relocation allowance | 4 | Item | 40000.00 | 160000.00 | 46000.00 | 184000.00 |
| | Sawcut pavement tie ins, new kerb & channe | 2500 | m | 14.00 | 35000.00 | 16.10 | 40250.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 204439.15 | 3.25 | 233529.22 |
| | VicRoads Fees | 1 | % | 1.00 | 62904.35 | 1.00 | 71855.14 |
| | Traffic Management | 1 | % | 5.00 | 314521.77 | 5.00 | 359275.72 |
| | Environmental Management | 1 | % | 0.50 | 31452.18 | 0.50 | 35927.57 |
| | Surveying and Design | 1 | % | 5.00 | 314521.77 | 5.00 | 359275.72 |
| | Supervision and Project management | 1 | % | 9.00 | 566139.18 | 9.00 | 646696.29 |
| | Site Establishment | 1 | % | 2.50 | 157260.88 | 2.50 | 179637.86 |
| | Contingency | 1 | % | 15.00 | 943565.30 | 15.00 | 1077827.15 |
| Total - (2018) rates | Excluding Delivery | | | | 6,290,435 | | 7,185,514 |
| | Including Delivery | | | | 8,885,240 | | 10,149,539 |
| Total - (2021) rates | Excluding Delivery | | | | 6,856,575 | | 7,832,211 |
| | Including Delivery | | | | 9,684,912 | | 11,062,998 |

| Appendix A | |
|--------------------------------|---|
| Description: | IT-15 - Secondary - Connector Intersection (Ferris Road, Bridge Road) |
| Civil Component Number: | IT-15 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 18690 | m2 | 3.68 | 68779.20 | 4.96 | 92702.40 |
| | Earthworks | 5755 | m3 | 34.07 | 196072.85 | 40.52 | 233192.60 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 8067 | m2 | 127.01 | 1024589.67 | 133.78 | 1079203.26 |
| | Collector Arterial Pavement | 1182 | m2 | 105.15 | 124287.30 | 112.44 | 132904.08 |
| | Subgrade Preparation | 1850 | m2 | 14.22 | 26307.00 | 16.16 | 29896.00 |
| | Pavement Rehab | 3044 | m2 | 51.58 | 157009.52 | 59.32 | 180570.08 |
| | Pavement Removal | 0 | m2 | 140.00 | 0.00 | 161.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1775 | m | 54.81 | 97287.75 | 60.90 | 108097.50 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2622 | m2 | 63.51 | 166523.22 | 73.63 | 193057.86 |
| | Traffic Island | 154 | m2 | 77.60 | 11950.40 | 84.07 | 12946.78 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 800 | m | 259.10 | 207280.00 | 282.96 | 226368.00 |
| | Drainage Pipe 450mm CR Bfilled | 124 | m | 299.43 | 37129.32 | 334.33 | 41456.92 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 22 | No. | 2565.39 | 56438.58 | 2806.10 | 61734.20 |
| | Drainage – Sub-soil drainage | 1775 | m | 33.88 | 60137.00 | 43.40 | 77035.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 62 | No. | 303.34 | 18807.08 | 363.01 | 22506.62 |
| | Landscaping | 6636 | m2 | 21.61 | 143403.96 | 25.16 | 166961.76 |
| | Topsoil Seeding | 0 | m2 | 7.21 | 0.00 | 8.44 | 0.00 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 5 | Item | 338.43 | 1692.15 | 380.39 | 1901.95 |
| | Line marking | 9249 | m2 of Pavement | 3.11 | 28764.39 | 4.09 | 37828.41 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 18 | Item | 292.43 | 5263.74 | 319.78 | 5756.04 |
| Other | Rock excavation | 1151 | m3 | 100.00 | 115100.00 | 115.00 | 132365.00 |
| | Telecom/power relocation allowance | 554 | m | 1300.00 | 720200.00 | 1495.00 | 828230.00 |
| | Water/gas relocation allowance | 576 | m | 300.00 | 172800.00 | 345.00 | 198720.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 135003.85 | 3.25 | 152772.17 |
| | VicRoads Fees | 1 | % | 1.00 | 41539.65 | 1.00 | 47006.82 |
| | Traffic Management | 1 | % | 5.00 | 207698.23 | 5.00 | 235034.11 |
| | Environmental Management | 1 | % | 0.50 | 20769.82 | 0.50 | 23503.41 |
| | Surveying and Design | 1 | % | 5.00 | 207698.23 | 5.00 | 235034.11 |
| | Supervision and Project management | 1 | % | 9.00 | 373856.82 | 9.00 | 423061.40 |
| | Site Establishment | 1 | % | 2.50 | 103849.12 | 2.50 | 117517.06 |
| | Contingency | 1 | % | 15.00 | 623094.69 | 15.00 | 705102.33 |
| Total - (2018) rates | Excluding Delivery | | | | 4,153,965 | | 4,700,682 |
| | Including Delivery | | | | 5,867,475 | | 6,639,714 |
| Total - (2021) rates | Excluding Delivery | | | | 4,527,822 | | 5,123,744 |
| | Including Delivery | | | | 6,395,549 | | 7,237,288 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-16 - Secondary - Connector T-Intersection (Abey Road, Industry Collector Road) |
| Civil Component Number: | IT-16 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------|---|-------|----------------|------------|--------------|------------|--------------|
| Sitemworks/ Earthworks | Site Preparation | 16107 | m2 | 3.68 | 59273.76 | 4.96 | 79890.72 |
| | Earthworks | 2845 | m3 | 34.07 | 96929.15 | 40.52 | 115279.40 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 3805 | m2 | 127.01 | 483273.05 | 133.78 | 509032.90 |
| | Collector Arterial Pavement | 801 | m2 | 105.15 | 84225.15 | 112.44 | 90064.44 |
| | Subgrade Preparation | 922 | m2 | 14.22 | 13110.84 | 16.16 | 14899.52 |
| | Pavement Rehab | 3459 | m2 | 51.58 | 178415.22 | 59.32 | 205187.88 |
| | Pavement Removal | 0 | m2 | 140.00 | 0.00 | 161.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1599 | m | 54.81 | 87641.19 | 60.90 | 97379.10 |
| | Kerb Removal | 413 | m | 60.00 | 24780.00 | 69.00 | 28497.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2404 | m2 | 63.51 | 152678.04 | 73.63 | 177006.52 |
| | Concrete Removal | 0 | m3 | 45.03 | 0.00 | 49.53 | 0.00 |
| | Traffic Island | 227 | m2 | 77.60 | 17615.20 | 84.07 | 19083.89 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 236 | m | 259.10 | 61147.60 | 282.96 | 66778.56 |
| | Drainage Pipe 450mm CR Bfilled | 118 | m | 299.43 | 35332.74 | 334.33 | 39450.94 |
| | Drainage Pipe 525mm CR Bfilled | 40 | m | 403.86 | 16154.40 | 448.03 | 17921.20 |
| | Drainage - pits | 10 | No. | 2565.39 | 25653.90 | 2806.10 | 28061.00 |
| | Drainage - Sub-soil drainage | 1599 | m | 33.88 | 54174.12 | 43.40 | 69396.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 87 | No. | 303.34 | 26390.58 | 363.01 | 31581.87 |
| | Landscaping | 5371 | m2 | 21.61 | 116067.31 | 25.16 | 135134.36 |
| | Topsoil Seeding | 5371 | m2 | 7.21 | 38724.91 | 8.44 | 45331.24 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 5 | Item | 338.43 | 1692.15 | 380.39 | 1901.95 |
| | Line marking | 8065 | m2 of Pavement | 3.11 | 25082.15 | 4.09 | 32985.85 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 18 | Item | 292.43 | 5263.74 | 319.78 | 5756.04 |
| Other | Rock excavation | 569 | m3 | 100.00 | 56900.00 | 115.00 | 65435.00 |
| | Telecom/power relocation allowance | 413 | m | 1300.00 | 536900.00 | 1495.00 | 617435.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Light pole relocation allowance | 3 | Item | 10000.00 | 30000.00 | 11500.00 | 34500.00 |
| | Power pole relocation allowance | 4 | Item | 40000.00 | 160000.00 | 46000.00 | 184000.00 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 413 | m | 14.00 | 5782.00 | 16.10 | 6649.30 |
| Delivery | Council Fees | 1 | % | 3.25 | 95847.36 | 3.25 | 109573.23 |
| | VicRoads Fees | 1 | % | 1.00 | 29491.49 | 1.00 | 33714.84 |
| | Traffic Management | 1 | % | 5.00 | 147457.47 | 5.00 | 168574.20 |
| | Environmental Management | 1 | % | 0.50 | 14745.75 | 0.50 | 16857.42 |
| | Surveying and Design | 1 | % | 5.00 | 147457.47 | 5.00 | 168574.20 |
| | Supervision and Project management | 1 | % | 9.00 | 265423.45 | 9.00 | 303433.56 |
| | Site Establishment | 1 | % | 2.50 | 73728.74 | 2.50 | 84287.10 |
| | Contingency | 1 | % | 15.00 | 442372.42 | 15.00 | 505722.59 |
| Total - (2018) rates | Excluding Delivery | | | | 2,949,149 | | 3,371,484 |
| | Including Delivery | | | | 4,165,674 | | 4,762,221 |
| Total - (2021) rates | Excluding Delivery | | | | 3,214,573 | | 3,674,918 |
| | Including Delivery | | | | 4,540,584 | | 5,190,822 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-17 - Secondary - Connector T-Intersection (Abey Road, Bundy Drive) |
| Civil Component Number: | IT-17 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------|---|-------|----------------|------------|--------------|------------|--------------|
| Sitemworks/ Earthworks | Site Preparation | 16463 | m2 | 3.68 | 60583.84 | 4.96 | 81656.48 |
| | Earthworks | 2855 | m3 | 34.07 | 97269.85 | 40.52 | 115684.60 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 3883 | m2 | 127.01 | 493179.83 | 133.78 | 519467.74 |
| | Collector Arterial Pavement | 727 | m2 | 105.15 | 76444.05 | 112.44 | 81743.88 |
| | Subgrade Preparation | 922 | m2 | 14.22 | 13110.84 | 16.16 | 14899.52 |
| | Pavement Rehab | 3731 | m2 | 51.58 | 192444.98 | 59.32 | 221322.92 |
| | Pavement Removal | 385 | m2 | 140.00 | 53900.00 | 161.00 | 61985.00 |
| Concrete Works | Kerb and Channel | 1714 | m | 54.81 | 93944.34 | 60.90 | 104382.60 |
| | Kerb Removal | 1031 | m | 60.00 | 61860.00 | 69.00 | 71139.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2339 | m2 | 63.51 | 148549.89 | 73.63 | 172220.57 |
| | Concrete Removal | 1286 | m3 | 45.03 | 57908.58 | 49.53 | 63695.58 |
| | Traffic Island | 342 | m2 | 77.60 | 26539.20 | 84.07 | 28751.94 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 242 | m | 259.10 | 62702.20 | 282.96 | 68476.32 |
| | Drainage Pipe 450mm CR Bfilled | 121 | m | 299.43 | 36231.03 | 334.33 | 40453.93 |
| | Drainage Pipe 525mm CR Bfilled | 41 | m | 403.86 | 16558.26 | 448.03 | 18369.23 |
| | Drainage - pits | 10 | No. | 2565.39 | 25653.90 | 2806.10 | 28061.00 |
| | Drainage – Sub-soil drainage | 1714 | m | 33.88 | 58070.32 | 43.40 | 74387.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 87 | No. | 303.34 | 26390.58 | 363.01 | 31581.87 |
| | Landscaping | 5493 | m2 | 21.61 | 118703.73 | 25.16 | 138203.88 |
| | Topsoil Seeding | 5493 | m2 | 7.21 | 39604.53 | 8.44 | 46360.92 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 5 | Item | 338.43 | 1692.15 | 380.39 | 1901.95 |
| | Line marking | 8341 | m2 of Pavement | 3.11 | 25940.51 | 4.09 | 34114.69 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 18 | Item | 292.43 | 5263.74 | 319.78 | 5756.04 |
| Other | Rock excavation | 571 | m3 | 100.00 | 57100.00 | 115.00 | 65665.00 |
| | Telecom/power relocation allowance | 453 | m | 1300.00 | 588900.00 | 1495.00 | 677235.00 |
| | Water/gas relocation allowance | 39 | m | 300.00 | 11700.00 | 345.00 | 13455.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Light pole relocation allowance | 4 | Item | 10000.00 | 40000.00 | 11500.00 | 46000.00 |
| | Power pole relocation allowance | 4 | Item | 40000.00 | 160000.00 | 46000.00 | 184000.00 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 459 | m | 14.00 | 6426.00 | 16.10 | 7389.90 |
| Delivery | Council Fees | 1 | % | 3.25 | 104409.98 | 3.25 | 119314.19 |
| | VicRoads Fees | 1 | % | 1.00 | 32126.15 | 1.00 | 36712.06 |
| | Traffic Management | 1 | % | 5.00 | 160630.73 | 5.00 | 183560.29 |
| | Environmental Management | 1 | % | 0.50 | 16063.07 | 0.50 | 18356.03 |
| | Surveying and Design | 1 | % | 5.00 | 160630.73 | 5.00 | 183560.29 |
| | Supervision and Project management | 1 | % | 9.00 | 289135.32 | 9.00 | 330408.52 |
| | Site Establishment | 1 | % | 2.50 | 80315.37 | 2.50 | 91780.15 |
| | Contingency | 1 | % | 15.00 | 481892.20 | 15.00 | 550680.87 |
| Total - (2018) rates | Excluding Delivery | | | | 3,212,615 | | 3,671,206 |
| | Including Delivery | | | | 4,537,818 | | 5,185,578 |
| Total - (2021) rates | Excluding Delivery | | | | 3,501,750 | | 4,001,615 |
| | Including Delivery | | | | 4,946,222 | | 5,652,281 |

| Appendix A | |
|-------------------------|---|
| Description: | IT-18 - Primary- Connector Intersection (Ferris Road, Shakamaker Drive) |
| Civil Component Number: | IT-18 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 24432 | m2 | 3.68 | 89909.76 | 4.96 | 121182.72 |
| | Earthworks | 2513 | m3 | 34.07 | 85617.91 | 40.52 | 101826.76 |
| Road Pavement | Primary Arterial Pavement | 2717 | m2 | 169.62 | 460857.54 | 186.26 | 506068.42 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 1066 | m2 | 105.15 | 112089.90 | 112.44 | 119861.04 |
| | Subgrade Preparation | 757 | m2 | 14.22 | 10764.54 | 16.16 | 12233.12 |
| | Pavement Rehab | 5809 | m2 | 51.58 | 299628.22 | 59.32 | 344589.88 |
| | Pavement Removal | 1243 | m2 | 140.00 | 174020.00 | 161.00 | 200123.00 |
| Concrete Works | Kerb and Channel | 2244 | m | 54.81 | 122993.64 | 60.90 | 136659.60 |
| | Kerb Removal | 1500 | m | 60.00 | 90000.00 | 69.00 | 103500.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 4561 | m2 | 63.51 | 289669.11 | 73.63 | 335826.43 |
| | Concrete Removal | 14 | m3 | 45.03 | 630.42 | 49.53 | 693.42 |
| | Traffic Island | 510 | m2 | 77.60 | 39576.00 | 84.07 | 42875.70 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 750 | m | 259.10 | 194325.00 | 282.96 | 212220.00 |
| | Drainage Pipe 450mm CR Bfilled | 282 | m | 299.43 | 84439.26 | 334.33 | 94281.06 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 24 | No. | 2565.39 | 61569.36 | 2806.10 | 67346.40 |
| | Drainage – Sub-soil drainage | 2244 | m | 33.88 | 76026.72 | 43.40 | 97389.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 113 | No. | 303.34 | 34277.42 | 363.01 | 41020.13 |
| | Landscaping | 9046 | m2 | 21.61 | 195484.06 | 25.16 | 227597.36 |
| | Topsoil Seeding | 9046 | m2 | 7.21 | 65221.66 | 8.44 | 76348.24 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 16 | Item | 338.43 | 5414.88 | 380.39 | 6086.24 |
| | Line marking | 9592 | m2 of Pavement | 3.11 | 29831.12 | 4.09 | 39231.28 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 24 | Item | 292.43 | 7018.32 | 319.78 | 7674.72 |
| Other | Rock excavation | 503 | m3 | 100.00 | 50300.00 | 115.00 | 57845.00 |
| | Telecom/power relocation allowance | 542 | m | 1300.00 | 704600.00 | 1495.00 | 810290.00 |
| | Water/gas relocation allowance | 157 | m | 300.00 | 47100.00 | 345.00 | 54165.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Earthen mound removal | 6480 | m3 | 34.07 | 220773.60 | 40.52 | 262569.60 |
| | Light pole relocation allowance | 3 | Item | 10000.00 | 30000.00 | 11500.00 | 34500.00 |
| | Power pole relocation allowance | 4 | Item | 40000.00 | 160000.00 | 46000.00 | 184000.00 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 2704 | m | 14.00 | 37856.00 | 16.10 | 43534.40 |
| Delivery | Council Fees | 1 | % | 3.25 | 146059.42 | 3.25 | 168310.57 |
| | VicRoads Fees | 1 | % | 1.00 | 44941.36 | 1.00 | 51787.87 |
| | Traffic Management | 1 | % | 5.00 | 224706.80 | 5.00 | 258939.34 |
| | Environmental Management | 1 | % | 0.50 | 22470.68 | 0.50 | 25893.93 |
| | Surveying and Design | 1 | % | 5.00 | 224706.80 | 5.00 | 258939.34 |
| | Supervision and Project management | 1 | % | 9.00 | 404472.23 | 9.00 | 466090.82 |
| | Site Establishment | 1 | % | 2.50 | 112353.40 | 2.50 | 129469.67 |
| | Contingency | 1 | % | 15.00 | 674120.39 | 15.00 | 776818.03 |
| Total - (2018) rates | Excluding Delivery | | | | 4,494,136 | | 5,178,787 |
| | Including Delivery | | | | 6,347,967 | | 7,315,036 |
| Total - (2021) rates | Excluding Delivery | | | | 4,898,609 | | 5,644,878 |
| | Including Delivery | | | | 6,919,285 | | 7,973,390 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-20 - Primary- Connector Intersection (Mt Cottrell Road, South Connector Road) |
| Civil Component Number: | IT-20 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 25670 | m2 | 3.68 | 94465.60 | 4.96 | 127323.20 |
| | Earthworks | 9003 | m3 | 34.07 | 306732.21 | 40.52 | 364801.56 |
| Road Pavement | Primary Arterial Pavement | 11412 | m2 | 169.62 | 1935703.44 | 186.26 | 2125599.12 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 1576 | m2 | 105.15 | 165716.40 | 112.44 | 177205.44 |
| | Subgrade Preparation | 2598 | m2 | 14.22 | 36943.56 | 16.16 | 41983.68 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 2394 | m | 54.81 | 131215.14 | 60.90 | 145794.60 |
| | Cycle Path | 3505 | m2 | 76.59 | 268447.95 | 91.94 | 322249.70 |
| | SUP/ Footpath | 1103 | m2 | 63.51 | 70051.53 | 73.63 | 81213.89 |
| | Traffic Island | 145 | m2 | 77.60 | 11252.00 | 84.07 | 12190.15 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 1000 | m | 259.10 | 259100.00 | 282.96 | 282960.00 |
| | Drainage Pipe 450mm CR Bfilled | 194 | m | 299.43 | 58089.42 | 334.33 | 64860.02 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 32 | No. | 2565.39 | 82092.48 | 2806.10 | 89795.20 |
| | Drainage – Sub-soil drainage | 2394 | m | 33.88 | 81108.72 | 43.40 | 103899.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 115 | No. | 303.34 | 34884.10 | 363.01 | 41746.15 |
| | Landscaping | 7920 | m2 | 21.61 | 171151.20 | 25.16 | 199267.20 |
| | Topsoil Seeding | 7920 | m2 | 7.21 | 57103.20 | 8.44 | 66844.80 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 16 | Item | 338.43 | 5414.88 | 380.39 | 6086.24 |
| | Line marking | 12988 | m2 of Pavement | 3.11 | 40392.68 | 4.09 | 53120.92 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 16 | Item | 292.43 | 4678.88 | 319.78 | 5116.48 |
| Other | Rock excavation | 1801 | m3 | 100.00 | 180100.00 | 115.00 | 207115.00 |
| | Telecom/power relocation allowance | 270 | m | 1300.00 | 351000.00 | 1495.00 | 403650.00 |
| | Water/gas relocation allowance | 56 | m | 300.00 | 16800.00 | 345.00 | 19320.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Power pole removal | 7 | Item | 40000.00 | 280000.00 | 46000.00 | 322000.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 174089.01 | 3.25 | 198295.20 |
| | VicRoads Fees | 1 | % | 1.00 | 53565.85 | 1.00 | 61013.91 |
| | Traffic Management | 1 | % | 5.00 | 267829.24 | 5.00 | 305069.54 |
| | Environmental Management | 1 | % | 0.50 | 26782.92 | 0.50 | 30506.95 |
| | Surveying and Design | 1 | % | 5.00 | 267829.24 | 5.00 | 305069.54 |
| | Supervision and Project management | 1 | % | 9.00 | 482092.64 | 9.00 | 549125.16 |
| | Site Establishment | 1 | % | 2.50 | 133914.62 | 2.50 | 152534.77 |
| Contingency | 1 | % | 15.00 | 803487.73 | 15.00 | 915208.61 | |
| Total - (2018) rates | Excluding Delivery | | | | 5,356,585 | | 6,101,391 |
| | Including Delivery | | | | 7,566,176 | | 8,618,214 |
| Total - (2021) rates | Excluding Delivery | | | | 5,838,678 | | 6,650,516 |
| | Including Delivery | | | | 8,247,133 | | 9,393,854 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-21 - Primary- Connector Intersection (Toolern Road, Eastern North-South Connector Road) |
| Civil Component Number: | IT-21 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preperation | 18525 | m2 | 3.68 | 68172.00 | 4.96 | 91884.00 |
| | Earthworks | 6457 | m3 | 34.07 | 219989.99 | 40.52 | 261637.64 |
| Road Pavement | Primary Arterial Pavement | 7682 | m2 | 169.62 | 1303020.84 | 186.26 | 1430849.32 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 1801 | m2 | 105.15 | 189375.15 | 112.44 | 202504.44 |
| | Subgrade Preparation | 1897 | m2 | 14.22 | 26975.34 | 16.16 | 30655.52 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1916 | m | 54.81 | 105015.96 | 60.90 | 116684.40 |
| | Cycle Path | 2444 | m2 | 76.59 | 187185.96 | 91.94 | 224701.36 |
| | SUP/ Footpath | 377 | m2 | 63.51 | 23943.27 | 73.63 | 27758.51 |
| | Traffic Island | 117 | m2 | 77.60 | 9079.20 | 84.07 | 9836.19 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 943 | m | 259.10 | 244331.30 | 282.96 | 266831.28 |
| | Drainage Pipe 450mm CR Bfilled | 0 | m | 299.43 | 0.00 | 334.33 | 0.00 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 25 | No. | 2565.39 | 64134.75 | 2806.10 | 70152.50 |
| | Drainage – Sub-soil drainage | 1916 | m | 33.88 | 64914.08 | 43.40 | 83154.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 87 | No. | 303.34 | 26390.58 | 363.01 | 31581.87 |
| | Landscaping | 6082 | m2 | 21.61 | 131432.02 | 25.16 | 153023.12 |
| | Topsoil Seeding | 6082 | m2 | 7.21 | 43851.22 | 8.44 | 51332.08 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 16 | Item | 338.43 | 5414.88 | 380.39 | 6086.24 |
| | Line marking | 9483 | m2 of Pavement | 3.11 | 29492.13 | 4.09 | 38785.47 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 16 | Item | 292.43 | 4678.88 | 319.78 | 5116.48 |
| Other | Rock excavation | 1292 | m3 | 100.00 | 129200.00 | 115.00 | 148580.00 |
| | Telecom/power relocation allowance | 60 | m | 1300.00 | 78000.00 | 1495.00 | 89700.00 |
| | Water/gas relocation allowance | 50 | m | 300.00 | 15000.00 | 345.00 | 17250.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Power pole removal | 1 | Item | 30000.00 | 30000.00 | 34500.00 | 34500.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 120696.52 | 3.25 | 137470.21 |
| | VicRoads Fees | 1 | % | 1.00 | 37137.39 | 1.00 | 42298.53 |
| | Traffic Management | 1 | % | 5.00 | 185686.95 | 5.00 | 211492.63 |
| | Environmental Management | 1 | % | 0.50 | 18568.70 | 0.50 | 21149.26 |
| | Surveying and Design | 1 | % | 5.00 | 185686.95 | 5.00 | 211492.63 |
| | Supervision and Project management | 1 | % | 9.00 | 334236.51 | 9.00 | 380686.73 |
| | Site Establishment | 1 | % | 2.50 | 92843.48 | 2.50 | 105746.31 |
| Contingency | 1 | % | 15.00 | 557060.86 | 15.00 | 634477.89 | |
| Total - (2018) rates | Excluding Delivery | | | | 3,713,739 | | 4,229,853 |
| | Including Delivery | | | | 5,245,656 | | 5,974,667 |
| Total - (2021) rates | Excluding Delivery | | | | 4,047,976 | | 4,610,540 |
| | Including Delivery | | | | 5,717,766 | | 6,512,388 |

| Appendix A | |
|-------------------------|--|
| Description: | IT-22 - Secondary- Connector Intersection (Toolern Road, Central North-South Connector Road) |
| Civil Component Number: | IT-22 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---------------------------------------|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 18549 | m2 | 3.68 | 68260.32 | 4.96 | 92003.04 |
| | Earthworks | 5862 | m3 | 34.07 | 199718.34 | 40.52 | 237528.24 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 7713 | m2 | 127.01 | 979628.13 | 133.78 | 1031845.14 |
| | Collector Arterial Pavement | 1801 | m2 | 105.15 | 189375.15 | 112.44 | 202504.44 |
| | Subgrade Preparation | 1903 | m2 | 14.22 | 27060.66 | 16.16 | 30752.48 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1867 | m | 54.81 | 102330.27 | 60.90 | 113700.30 |
| | Cycle Path | 2452 | m2 | 76.59 | 187798.68 | 91.94 | 225436.88 |
| | SUP/ Footpath | 377 | m2 | 63.51 | 23943.27 | 73.63 | 27758.51 |
| | Traffic Island | 183 | m2 | 77.60 | 14200.80 | 84.07 | 15384.81 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 922 | m | 259.10 | 238890.20 | 282.96 | 260889.12 |
| | Drainage Pipe 450mm CR Bfilled | 0 | m | 299.43 | 0.00 | 334.33 | 0.00 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 22 | No. | 2565.39 | 56438.58 | 2806.10 | 61734.20 |
| | Drainage – Sub-soil drainage | 1867 | m | 33.88 | 63253.96 | 43.40 | 81027.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 88 | No. | 303.34 | 26693.92 | 363.01 | 31944.88 |
| | Landscaping | 6007 | m2 | 21.61 | 129811.27 | 25.16 | 151136.12 |
| | Topsoil Seeding | 6007 | m2 | 7.21 | 43310.47 | 8.44 | 50699.08 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 10 | Item | 338.43 | 3384.30 | 380.39 | 3803.90 |
| | Line marking | 9514 | m2 of Pavement | 3.11 | 29588.54 | 4.09 | 38912.26 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 16 | Item | 292.43 | 4678.88 | 319.78 | 5116.48 |
| Other | Rock excavation | 1173 | m3 | 100.00 | 117300.00 | 115.00 | 134895.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 104643.74 | 3.25 | 118115.41 |
| | VicRoads Fees | 1 | % | 1.00 | 32198.07 | 1.00 | 36343.20 |
| | Traffic Management | 1 | % | 5.00 | 160990.36 | 5.00 | 181716.02 |
| | Environmental Management | 1 | % | 0.50 | 16099.04 | 0.50 | 18171.60 |
| | Surveying and Design | 1 | % | 5.00 | 160990.36 | 5.00 | 181716.02 |
| | Supervision and Project management | 1 | % | 9.00 | 289782.65 | 9.00 | 327088.84 |
| | Site Establishment | 1 | % | 2.50 | 80495.18 | 2.50 | 90858.01 |
| Contingency | 1 | % | 15.00 | 482971.09 | 15.00 | 545148.06 | |
| Total - (2018) rates | Excluding Delivery | | | | 3,219,807 | | 3,634,320 |
| | Including Delivery | | | | 4,547,978 | | 5,133,478 |
| Total - (2021) rates | Excluding Delivery | | | | 3,509,590 | | 3,961,410 |
| | Including Delivery | | | | 4,957,296 | | 5,595,492 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-23 - Secondary- Connector T-Intersection (Toolern Road, Western North-South Connector Road) |
| Civil Component Number: | IT-23 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 16357 | m2 | 3.68 | 60193.76 | 4.96 | 81130.72 |
| | Earthworks | 5065 | m3 | 34.07 | 172564.55 | 40.52 | 205233.80 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 7226 | m2 | 127.01 | 917774.26 | 133.78 | 966694.28 |
| | Collector Arterial Pavement | 889 | m2 | 105.15 | 93478.35 | 112.44 | 99959.16 |
| | Subgrade Preparation | 1623 | m2 | 14.22 | 23079.06 | 16.16 | 26227.68 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1739 | m | 54.81 | 95314.59 | 60.90 | 105905.10 |
| | Cycle Path | 2269 | m2 | 76.59 | 173782.71 | 91.94 | 208611.86 |
| | SUP/ Footpath | 183 | m2 | 63.51 | 11622.33 | 73.63 | 13474.29 |
| | Traffic Island | 197 | m2 | 77.60 | 15287.20 | 84.07 | 16561.79 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 866 | m | 259.10 | 224380.60 | 282.96 | 245043.36 |
| | Drainage Pipe 450mm CR Bfilled | 26 | m | 299.43 | 7785.18 | 334.33 | 8692.58 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 20 | No. | 2565.39 | 51307.80 | 2806.10 | 56122.00 |
| | Drainage – Sub-soil drainage | 1739 | m | 33.88 | 58917.32 | 43.40 | 75472.60 |
| Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 | |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 78 | No. | 303.34 | 23660.52 | 363.01 | 28314.78 |
| | Landscaping | 5548 | m2 | 21.61 | 119892.28 | 25.16 | 139587.68 |
| | Topsoil Seeding | 5548 | m2 | 7.21 | 40001.08 | 8.44 | 46825.12 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 5 | Item | 338.43 | 1692.15 | 380.39 | 1901.95 |
| | Line marking | 8115 | m2 of Pavement | 3.11 | 25237.65 | 4.09 | 33190.35 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 8 | Item | 292.43 | 2339.44 | 319.78 | 2558.24 |
| Other | Rock excavation | 1013 | m3 | 100.00 | 101300.00 | 115.00 | 116495.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 10000.00 | 0.00 | 11500.00 | 0.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 89880.48 | 3.25 | 101378.75 |
| | VicRoads Fees | 1 | % | 1.00 | 27655.53 | 1.00 | 31193.46 |
| | Traffic Management | 1 | % | 5.00 | 138277.66 | 5.00 | 155967.30 |
| | Environmental Management | 1 | % | 0.50 | 13827.77 | 0.50 | 15596.73 |
| | Surveying and Design | 1 | % | 5.00 | 138277.66 | 5.00 | 155967.30 |
| | Supervision and Project management | 1 | % | 9.00 | 248899.78 | 9.00 | 280741.14 |
| | Site Establishment | 1 | % | 2.50 | 69138.83 | 2.50 | 77983.65 |
| | Contingency | 1 | % | 15.00 | 414832.97 | 15.00 | 467901.90 |
| Total - (2018) rates | Excluding Delivery | | | | 2,765,553 | | 3,119,346 |
| | Including Delivery | | | | 3,906,344 | | 4,406,076 |
| Total - (2021) rates | Excluding Delivery | | | | 3,014,453 | | 3,400,088 |
| | Including Delivery | | | | 4,257,915 | | 4,802,624 |

| Appendix A | |
|--------------------------------|---|
| Description: | IT-25 - Primary- Connector T-Intersection (Mt Cottrell Road, Bridge Road) |
| Civil Component Number: | IT-25 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------|--|------|----------------|------------|--------------|------------|--------------|
| Sitemworks/ Earthworks | Site Preparation | 2448 | m2 | 3.68 | 9008.64 | 4.96 | 12142.08 |
| | Earthworks | 592 | m3 | 34.07 | 20169.44 | 40.52 | 23987.84 |
| Road Pavement | Primary Arterial Pavement | 365 | m2 | 169.62 | 61911.30 | 186.26 | 67984.90 |
| | Secondary Arterial Pavement | 521 | m2 | 127.01 | 66172.21 | 133.78 | 69699.38 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 178 | m2 | 14.22 | 2531.16 | 16.16 | 2876.48 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 265 | m | 54.81 | 14524.65 | 60.90 | 16138.50 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 623 | m2 | 63.51 | 39566.73 | 73.63 | 45871.49 |
| | Traffic Island | 70 | m2 | 77.60 | 5432.00 | 84.07 | 5884.90 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 150 | m | 259.10 | 38865.00 | 282.96 | 42444.00 |
| | Drainage Pipe 450mm CR Bfilled | 35 | m | 299.43 | 10480.05 | 334.33 | 11701.55 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 7 | No. | 2565.39 | 17957.73 | 2806.10 | 19642.70 |
| | Drainage – Sub-soil drainage | 265 | m | 33.88 | 8978.20 | 43.40 | 11501.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 10 | No. | 303.34 | 3033.40 | 363.01 | 3630.10 |
| | Landscaping | 871 | m2 | 21.61 | 18822.31 | 25.16 | 21914.36 |
| | Topsoil Seeding | 871 | m2 | 7.21 | 6279.91 | 8.44 | 7351.24 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 1 | Item/ Per Leg | 48468.93 | 48468.93 | 55617.74 | 55617.74 |
| Misc. | Regulatory Signage | 4 | Item | 338.43 | 1353.72 | 380.39 | 1521.56 |
| | Line marking | 886 | m2 of Pavement | 3.11 | 2755.46 | 4.09 | 3623.74 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 4 | Item | 292.43 | 1169.72 | 319.78 | 1279.12 |
| Other | Rock excavation | 119 | m3 | 100.00 | 11900.00 | 115.00 | 13685.00 |
| | Telecom/power relocation allowance | 56 | m | 1300.00 | 72800.00 | 1495.00 | 83720.00 |
| | Water/gas relocation allowance | 23 | m | 300.00 | 6900.00 | 345.00 | 7935.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Construct hump (Asphalt Size 10 Type N) | 91 | m2 | 57.15 | 5200.65 | 65.72 | 5980.75 |
| | Hump asphalt disposal fee (inc. transport) | 91 | m2 | 26.79 | 2437.89 | 30.81 | 2803.57 |
| Delivery | Council Fees | 1 | % | 3.25 | 18137.07 | 3.25 | 20753.47 |
| | VicRoads Fees | 1 | % | 1.00 | 5580.64 | 1.00 | 6385.68 |
| | Traffic Management | 1 | % | 5.00 | 27903.19 | 5.00 | 31928.42 |
| | Environmental Management | 1 | % | 0.50 | 2790.32 | 0.50 | 3192.84 |
| | Surveying and Design | 1 | % | 5.00 | 27903.19 | 5.00 | 31928.42 |
| | Supervision and Project management | 1 | % | 9.00 | 50225.74 | 9.00 | 57471.16 |
| | Site Establishment | 1 | % | 2.50 | 13951.59 | 2.50 | 15964.21 |
| | Contingency | 1 | % | 15.00 | 83709.56 | 15.00 | 95785.26 |
| Total - (2018) rates | Excluding Delivery | | | | 558,064 | | 638,568 |
| | Including Delivery | | | | 788,265 | | 901,978 |
| Total - (2021) rates | Excluding Delivery | | | | 608,290 | | 696,040 |
| | Including Delivery | | | | 859,210 | | 983,157 |

| Appendix A | |
|--------------------------------|---|
| Description: | IT-26 - Primary- Connector Intersection (Mt Cottrell Road, Alfred Road) |
| Civil Component Number: | IT-26 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 18764 | m2 | 3.68 | 69051.52 | 4.96 | 93069.44 |
| | Earthworks | 6904 | m3 | 34.07 | 235219.28 | 40.52 | 279750.08 |
| Road Pavement | Primary Arterial Pavement | 7710 | m2 | 169.62 | 1307770.20 | 186.26 | 1436064.60 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 2600 | m2 | 105.15 | 273390.00 | 112.44 | 292344.00 |
| | Subgrade Preparation | 2062 | m2 | 14.22 | 29321.64 | 16.16 | 33321.92 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1829 | m | 54.81 | 100247.49 | 60.90 | 111386.10 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2825 | m2 | 63.51 | 179415.75 | 73.63 | 208004.75 |
| | Traffic Island | 327 | m2 | 77.60 | 25375.20 | 84.07 | 27490.89 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 700 | m | 259.10 | 181370.00 | 282.96 | 198072.00 |
| | Drainage Pipe 450mm CR Bfilled | 274 | m | 299.43 | 82043.82 | 334.33 | 91606.42 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 36 | No. | 2565.39 | 92354.04 | 2806.10 | 101019.60 |
| | Drainage – Sub-soil drainage | 1829 | m | 33.88 | 61966.52 | 43.40 | 79378.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 91 | No. | 303.34 | 27603.94 | 363.01 | 33033.91 |
| | Landscaping | 5301 | m2 | 21.61 | 114554.61 | 25.16 | 133373.16 |
| | Topsoil Seeding | 5301 | m2 | 7.21 | 38220.21 | 8.44 | 44740.44 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 14 | Item | 338.43 | 4738.02 | 380.39 | 5325.46 |
| | Line marking | 10310 | m2 of Pavement | 3.11 | 32064.10 | 4.09 | 42167.90 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 16 | Item | 292.43 | 4678.88 | 319.78 | 5116.48 |
| Other | Rock excavation | 1381 | m3 | 100.00 | 138100.00 | 115.00 | 158815.00 |
| | Telecom/power relocation allowance | 471 | m | 1300.00 | 612300.00 | 1495.00 | 704145.00 |
| | Water/gas relocation allowance | 22 | m | 300.00 | 6600.00 | 345.00 | 7590.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Power pole relocation allowance | 4 | Item | 40000.00 | 160000.00 | 46000.00 | 184000.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 145942.12 | 3.25 | 165979.56 |
| | VicRoads Fees | 1 | % | 1.00 | 44905.27 | 1.00 | 51070.64 |
| | Traffic Management | 1 | % | 5.00 | 224526.34 | 5.00 | 255353.18 |
| | Environmental Management | 1 | % | 0.50 | 22452.63 | 0.50 | 25535.32 |
| | Surveying and Design | 1 | % | 5.00 | 224526.34 | 5.00 | 255353.18 |
| | Supervision and Project management | 1 | % | 9.00 | 404147.40 | 9.00 | 459635.72 |
| | Site Establishment | 1 | % | 2.50 | 112263.17 | 2.50 | 127676.59 |
| | Contingency | 1 | % | 15.00 | 673579.01 | 15.00 | 766059.53 |
| Total - (2018) rates | Excluding Delivery | | | | 4,490,527 | | 5,107,064 |
| | Including Delivery | | | | 6,342,869 | | 7,213,727 |
| Total - (2021) rates | Excluding Delivery | | | | 4,894,675 | | 5,566,700 |
| | Including Delivery | | | | 6,913,728 | | 7,862,964 |

| Appendix A | |
|--------------------------------|---|
| Description: | IT-27- Secondary- Connector Intersection (Ferris Road, Alfred Road) |
| Civil Component Number: | IT-27 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 12442 | m2 | 3.68 | 45786.56 | 4.96 | 61712.32 |
| | Earthworks | 3428 | m3 | 34.07 | 116791.96 | 40.52 | 138902.56 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 1867 | m2 | 127.01 | 237127.67 | 133.78 | 249767.26 |
| | Collector Arterial Pavement | 4191 | m2 | 105.15 | 440683.65 | 112.44 | 471236.04 |
| | Subgrade Preparation | 1212 | m2 | 14.22 | 17234.64 | 16.16 | 19585.92 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1043 | m | 54.81 | 57166.83 | 60.90 | 63518.70 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 1131 | m2 | 63.51 | 71829.81 | 73.63 | 83275.53 |
| | Traffic Island | 84 | m2 | 77.60 | 6518.40 | 84.07 | 7061.88 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 102 | m | 259.10 | 26428.20 | 282.96 | 28861.92 |
| | Drainage Pipe 450mm CR Bfilled | 173 | m | 299.43 | 51801.39 | 334.33 | 57839.09 |
| | Drainage Pipe 525mm CR Bfilled | 279 | m | 403.86 | 112676.94 | 448.03 | 125000.37 |
| | Drainage - pits | 20 | No. | 2565.39 | 51307.80 | 2806.10 | 56122.00 |
| | Drainage – Sub-soil drainage | 1043 | m | 33.88 | 35336.84 | 43.40 | 45266.20 |
| | Concrete headwall | 2 | No. | 4500.00 | 9000.00 | 5175.00 | 10350.00 |
| | Rock riprap | 49 | m2 | 200.00 | 9800.00 | 230.00 | 11270.00 |
| Traffic signals | Traffic Signals (all inclusive) | 4 | Item/ Per Leg | 109730.28 | 438921.12 | 128786.34 | 515145.36 |
| Landscape | Tree Planting | 91 | No. | 303.34 | 27603.94 | 363.01 | 33033.91 |
| | Landscaping | 4803 | m2 | 21.61 | 103792.83 | 25.16 | 120843.48 |
| | Topsail Seeding | 4803 | m2 | 7.21 | 34629.63 | 8.44 | 40537.32 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 4 | Item/ Per Leg | 48468.93 | 193875.72 | 55617.74 | 222470.96 |
| Misc. | Regulatory Signage | 0 | Item | 338.43 | 0.00 | 380.39 | 0.00 |
| | Line marking | 6058 | m2 of Pavement | 3.11 | 18840.38 | 4.09 | 24777.22 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 686 | m3 | 100.00 | 68600.00 | 115.00 | 78890.00 |
| | Telecom/power relocation allowance | 134 | m | 1300.00 | 174200.00 | 1495.00 | 200330.00 |
| | Water/gas relocation allowance | 143 | m | 300.00 | 42900.00 | 345.00 | 49335.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 80411.47 | 3.25 | 91479.85 |
| | VicRoads Fees | 1 | % | 1.00 | 24741.99 | 1.00 | 28147.64 |
| | Traffic Management | 1 | % | 5.00 | 123709.95 | 5.00 | 140738.22 |
| | Environmental Management | 1 | % | 0.50 | 12370.99 | 0.50 | 14073.82 |
| | Surveying and Design | 1 | % | 5.00 | 123709.95 | 5.00 | 140738.22 |
| | Supervision and Project management | 1 | % | 9.00 | 222677.91 | 9.00 | 253328.80 |
| | Site Establishment | 1 | % | 2.50 | 61854.97 | 2.50 | 70369.11 |
| | Contingency | 1 | % | 15.00 | 371129.85 | 15.00 | 422214.67 |
| Total - (2018) rates | Excluding Delivery | | | | 2,474,199 | | 2,814,764 |
| | Including Delivery | | | | 3,494,806 | | 3,975,855 |
| Total - (2021) rates | Excluding Delivery | | | | 2,696,877 | | 3,068,094 |
| | Including Delivery | | | | 3,809,339 | | 4,333,683 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-28- Secondary- Connector Intersection (Ferris Road, South Connector Road) |
| Civil Component Number: | IT-28 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 12126 | m2 | 3.68 | 44623.68 | 4.96 | 60144.96 |
| | Earthworks | 2978 | m3 | 34.07 | 101460.46 | 40.52 | 120668.56 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 3353 | m2 | 127.01 | 425864.53 | 133.78 | 448564.34 |
| | Collector Arterial Pavement | 1586 | m2 | 105.15 | 166767.90 | 112.44 | 178329.84 |
| | Subgrade Preparation | 988 | m2 | 14.22 | 14049.36 | 16.16 | 15966.08 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1108 | m | 54.81 | 60729.48 | 60.90 | 67477.20 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 1155 | m2 | 63.51 | 73354.05 | 73.63 | 85042.65 |
| | Traffic Island | 3 | m2 | 77.60 | 232.80 | 84.07 | 252.21 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 50 | m | 259.10 | 12955.00 | 282.96 | 14148.00 |
| | Drainage Pipe 450mm CR Bfilled | 0 | m | 299.43 | 0.00 | 334.33 | 0.00 |
| | Drainage Pipe 525mm CR Bfilled | 245 | m | 403.86 | 98945.70 | 448.03 | 109767.35 |
| | Drainage - pits | 7 | No. | 2565.39 | 17957.73 | 2806.10 | 19642.70 |
| | Drainage – Sub-soil drainage | 1108 | m | 33.88 | 37539.04 | 43.40 | 48087.20 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 76 | No. | 303.34 | 23053.84 | 363.01 | 27588.76 |
| | Landscaping | 4795 | m2 | 21.61 | 103619.95 | 25.16 | 120642.20 |
| | Topsoil Seeding | 4795 | m2 | 7.21 | 34571.95 | 8.44 | 40469.80 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 10 | Item | 338.43 | 3384.30 | 380.39 | 3803.90 |
| | Line marking | 4939 | m2 of Pavement | 3.11 | 15360.29 | 4.09 | 20200.51 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 12 | Item | 292.43 | 3509.16 | 319.78 | 3837.36 |
| Other | Rock excavation | 596 | m3 | 100.00 | 59600.00 | 115.00 | 68540.00 |
| | Telecom/power relocation allowance | 71 | m | 1300.00 | 92300.00 | 1495.00 | 106145.00 |
| | Water/gas relocation allowance | 68 | m | 300.00 | 20400.00 | 345.00 | 23460.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| | Tree removal | 30 | Item | 1000.00 | 30000.00 | 1150.00 | 34500.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 64877.20 | 3.25 | 73778.97 |
| | VicRoads Fees | 1 | % | 1.00 | 19962.22 | 1.00 | 22701.22 |
| | Traffic Management | 1 | % | 5.00 | 99811.08 | 5.00 | 113506.11 |
| | Environmental Management | 1 | % | 0.50 | 9981.11 | 0.50 | 11350.61 |
| | Surveying and Design | 1 | % | 5.00 | 99811.08 | 5.00 | 113506.11 |
| | Supervision and Project management | 1 | % | 9.00 | 179659.94 | 9.00 | 204311.01 |
| | Site Establishment | 1 | % | 2.50 | 49905.54 | 2.50 | 56753.06 |
| | Contingency | 1 | % | 15.00 | 299433.23 | 15.00 | 340518.34 |
| Total - (2018) rates | Excluding Delivery | | | | 1,996,222 | | 2,270,122 |
| | Including Delivery | | | | 2,819,663 | | 3,206,548 |
| Total - (2021) rates | Excluding Delivery | | | | 2,175,882 | | 2,474,434 |
| | Including Delivery | | | | 3,073,433 | | 3,495,138 |

| Appendix A | |
|--------------------------------|--|
| Description: | IT-29- Secondary- Connector Intersection (Ferris Road, South Connector Road) |
| Civil Component Number: | IT-29 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 13711 | m2 | 3.68 | 50456.48 | 4.96 | 68006.56 |
| | Earthworks | 2432 | m3 | 34.07 | 82858.24 | 40.52 | 98544.64 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 3039 | m2 | 127.01 | 385983.39 | 133.78 | 406557.42 |
| | Collector Arterial Pavement | 937 | m2 | 105.15 | 98525.55 | 112.44 | 105356.28 |
| | Subgrade Preparation | 796 | m2 | 14.22 | 11319.12 | 16.16 | 12863.36 |
| | Pavement Rehab | 2638 | m2 | 51.58 | 136068.04 | 59.32 | 156486.16 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1352 | m | 54.81 | 74103.12 | 60.90 | 82336.80 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 2243 | m2 | 63.51 | 142452.93 | 73.63 | 165152.09 |
| | Traffic Island | 145 | m2 | 77.60 | 11252.00 | 84.07 | 12190.15 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 400 | m | 259.10 | 103640.00 | 282.96 | 113184.00 |
| | Drainage Pipe 450mm CR Bfilled | 300 | m | 299.43 | 89829.00 | 334.33 | 100299.00 |
| | Drainage Pipe 525mm CR Bfilled | 70 | m | 403.86 | 28270.20 | 448.03 | 31362.10 |
| | Drainage - pits | 17 | No. | 2565.39 | 43611.63 | 2806.10 | 47703.70 |
| | Drainage – Sub-soil drainage | 1352 | m | 33.88 | 45805.76 | 43.40 | 58676.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 3 | Item/ Per Leg | 109730.28 | 329190.84 | 128786.34 | 386359.02 |
| Landscape | Tree Planting | 77 | No. | 303.34 | 23357.18 | 363.01 | 27951.77 |
| | Landscaping | 4663 | m2 | 21.61 | 100767.43 | 25.16 | 117321.08 |
| | Topsoil Seeding | 4663 | m2 | 7.21 | 33620.23 | 8.44 | 39355.72 |
| Street Lighting | Street Lighting - Road | 0 | m | 216.34 | 0.00 | 225.67 | 0.00 |
| | Street Lighting - Intersections | 3 | Item/ Per Leg | 48468.93 | 145406.79 | 55617.74 | 166853.22 |
| Misc. | Regulatory Signage | 8 | Item | 338.43 | 2707.44 | 380.39 | 3043.12 |
| | Line marking | 3976 | m2 of Pavement | 3.11 | 12365.36 | 4.09 | 16261.84 |
| | Landscape maintenance (intersections) | 1 | Item | 71344.66 | 71344.66 | 88131.43 | 88131.43 |
| | Landscape maintenance (roads) | 0 | m2 of l'scape | 2.90 | 0.00 | 2.96 | 0.00 |
| | Tactile Pavers (Hazard only) | 12 | Item | 292.43 | 3509.16 | 319.78 | 3837.36 |
| Other | Rock excavation | 487 | m3 | 100.00 | 48700.00 | 115.00 | 56005.00 |
| | Telecom/power relocation allowance | 409 | m | 1300.00 | 531700.00 | 1495.00 | 611455.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 1 | Item | 10000.00 | 10000.00 | 11500.00 | 11500.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 85047.45 | 3.25 | 97070.79 |
| | VicRoads Fees | 1 | % | 1.00 | 26168.45 | 1.00 | 29867.94 |
| | Traffic Management | 1 | % | 5.00 | 130842.23 | 5.00 | 149339.68 |
| | Environmental Management | 1 | % | 0.50 | 13084.22 | 0.50 | 14933.97 |
| | Surveying and Design | 1 | % | 5.00 | 130842.23 | 5.00 | 149339.68 |
| | Supervision and Project management | 1 | % | 9.00 | 235516.01 | 9.00 | 268811.43 |
| | Site Establishment | 1 | % | 2.50 | 65421.11 | 2.50 | 74669.84 |
| | Contingency | 1 | % | 15.00 | 392526.68 | 15.00 | 448019.04 |
| Total - (2018) rates | Excluding Delivery | | | | 2,616,845 | | 2,986,794 |
| | Including Delivery | | | | 3,696,293 | | 4,218,846 |
| Total - (2021) rates | Excluding Delivery | | | | 2,852,361 | | 3,255,606 |
| | Including Delivery | | | | 4,028,960 | | 4,598,543 |

APPENDIX

B

ROAD PROJECT COSTINGS

| |
|------------------------|
| Road Length (m) |
| 180 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-01 - Secondary Undivided Interim Arterial Road (Coburns Rd to E-W Arterial, 180m) |
| Civil Component Number: | RD-01 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|------------------------------|---------------------------------------|------|----------------|------------|----------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 6120 | m2 | 3.68 | 22521.60 | 4.96 | 30355.20 |
| | Earthworks | 458 | m3 | 34.07 | 15604.06 | 40.52 | 18558.16 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 720 | m2 | 127.01 | 91447.20 | 133.78 | 96321.60 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 144 | m2 | 14.22 | 2047.68 | 16.16 | 2327.04 |
| | Pavement Rehab | 1260 | m2 | 51.58 | 64990.80 | 59.32 | 74743.20 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 720 | m | 54.81 | 39463.20 | 60.90 | 43848.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 1080 | m2 | 63.51 | 68590.80 | 73.63 | 79520.40 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 168 | m | 259.10 | 43528.80 | 282.96 | 47537.28 |
| | Drainage Pipe 450mm CR Bfilled | 90 | m | 299.43 | 26948.70 | 334.33 | 30089.70 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 9 | No. | 2565.39 | 23088.51 | 2806.10 | 25254.90 |
| | Drainage – Sub-soil drainage | 720 | m | 33.88 | 24393.60 | 43.40 | 31248.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 12 | No. | 303.34 | 3640.08 | 363.01 | 4356.12 |
| | Landscaping | 3060 | m2 | 21.61 | 66126.60 | 25.16 | 76989.60 |
| | Topsoil Seeding | 3060 | m2 | 7.21 | 22062.60 | 8.44 | 25826.40 |
| Street Lighting | Street Lighting - Road | 180 | m | 216.34 | 38941.20 | 225.67 | 40620.60 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 5 | Item | 338.43 | 1692.15 | 380.39 | 1901.95 |
| | Line marking | 720 | m2 of Pavement | 3.11 | 2239.20 | 4.09 | 2944.80 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 3060 | m2 of l'scape | 2.90 | 8874.00 | 2.96 | 9057.60 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 92 | m3 | 100.00 | 9200.00 | 115.00 | 10580.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 1 | Item | 3000.00 | 3000.00 | 3450.00 | 3450.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 18798.03 | 3.25 | 21304.74 |
| | VicRoads Fees | 1 | % | 1.00 | 5784.01 | 1.00 | 6555.31 |
| | Traffic Management | 1 | % | 5.00 | 28920.04 | 5.00 | 32776.53 |
| | Environmental Management | 1 | % | 0.50 | 2892.00 | 0.50 | 3277.65 |
| | Surveying and Design | 1 | % | 5.00 | 28920.04 | 5.00 | 32776.53 |
| | Supervision and Project management | 1 | % | 9.00 | 52056.07 | 9.00 | 58997.75 |
| | Site Establishment | 1 | % | 2.50 | 14460.02 | 2.50 | 16388.26 |
| | Contingency | 1 | % | 15.00 | 86760.12 | 15.00 | 98329.58 |
| Total - (2018) rates | Excluding Delivery | | | | 578,401 | | 655,531 |
| | Including Delivery | | | | 816,991 | | 925,937 |
| Total - (2021) rates | Excluding Delivery | | | | 630,457 | | 714,529 |
| | Including Delivery | | | | 890,521 | | 1,009,272 |

Road Length (m)
528

| Appendix B | |
|-------------------------|--|
| Description: | RD-02 - Secondary Divided Interim Arterial Road (E-W Arterial, 528m) |
| Civil Component Number: | RD-02 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|--------------------------|---------------------------------------|-------|----------------|------------|--------------|------------|--------------|
| Siteworks/ Earthworks | Site Preparation | 17952 | m2 | 3.68 | 66063.36 | 4.96 | 89041.92 |
| | Earthworks | 6036 | m3 | 34.07 | 205646.52 | 40.52 | 244578.72 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 9504 | m2 | 127.01 | 1207103.04 | 133.78 | 1271445.12 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1901 | m2 | 14.22 | 27032.22 | 16.16 | 30720.16 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 2112 | m | 54.81 | 115758.72 | 60.90 | 128620.80 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 3168 | m2 | 63.51 | 201199.68 | 73.63 | 233259.84 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 524 | m | 259.10 | 135768.40 | 282.96 | 148271.04 |
| | Drainage Pipe 450mm CR Bfilled | 264 | m | 299.43 | 79049.52 | 334.33 | 88263.12 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 30 | No. | 2565.39 | 76961.70 | 2806.10 | 84183.00 |
| | Drainage – Sub-soil drainage | 2112 | m | 33.88 | 71554.56 | 43.40 | 91660.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 35 | No. | 303.34 | 10616.90 | 363.01 | 12705.35 |
| | Landscaping | 5280 | m2 | 21.61 | 114100.80 | 25.16 | 132844.80 |
| | Topsoil Seeding | 5280 | m2 | 7.21 | 38068.80 | 8.44 | 44563.20 |
| Street Lighting | Street Lighting - Road | 528 | m | 216.34 | 114227.52 | 225.67 | 119153.76 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 12 | Item | 338.43 | 4061.16 | 380.39 | 4564.68 |
| | Line marking | 9504 | m2 of Pavement | 3.11 | 29557.44 | 4.09 | 38871.36 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 5280 | m2 of l'scape | 2.90 | 15312.00 | 2.96 | 15628.80 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1208 | m3 | 100.00 | 120800.00 | 115.00 | 138920.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 1 | Item | 3000.00 | 3000.00 | 3450.00 | 3450.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 85666.18 | 3.25 | 94924.26 |
| | VicRoads Fees | 1 | % | 1.00 | 26358.82 | 1.00 | 29207.46 |
| | Traffic Management | 1 | % | 5.00 | 131794.12 | 5.00 | 146037.32 |
| | Environmental Management | 1 | % | 0.50 | 13179.41 | 0.50 | 14603.73 |
| | Surveying and Design | 1 | % | 5.00 | 131794.12 | 5.00 | 146037.32 |
| | Supervision and Project management | 1 | % | 9.00 | 237229.41 | 9.00 | 262867.18 |
| | Site Establishment | 1 | % | 2.50 | 65897.06 | 2.50 | 73018.66 |
| | Contingency | 1 | % | 15.00 | 395382.35 | 15.00 | 438111.97 |
| Total - (2018) rates | Excluding Delivery | | | | 2,635,882 | | 2,920,746 |
| | Including Delivery | | | | 3,723,184 | | 4,125,554 |
| Total - (2021) rates | Excluding Delivery | | | | 2,873,112 | | 3,183,614 |
| | Including Delivery | | | | 4,058,271 | | 4,496,855 |

Road Length (m)
339

| Appendix B | |
|--------------------------------|---|
| Description: | RD-03 - Secondary Divided Interim Arterial Road (Exford Road, 339m) |
| Civil Component Number: | RD-03 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 11526 | m2 | 3.68 | 42415.68 | 4.96 | 57168.96 |
| | Earthworks | 862 | m3 | 34.07 | 29368.34 | 40.52 | 34928.24 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 1356 | m2 | 127.01 | 172225.56 | 133.78 | 181405.68 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 272 | m2 | 14.22 | 3867.84 | 16.16 | 4395.52 |
| | Pavement Rehab | 2373 | m2 | 51.58 | 122399.34 | 59.32 | 140766.36 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1356 | m | 54.81 | 74322.36 | 60.90 | 82580.40 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 1865 | m2 | 63.51 | 118446.15 | 73.63 | 137319.95 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 326 | m | 259.10 | 84466.60 | 282.96 | 92244.96 |
| | Drainage Pipe 450mm CR Bfilled | 170 | m | 299.43 | 50903.10 | 334.33 | 56836.10 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 18 | No. | 2565.39 | 46177.02 | 2806.10 | 50509.80 |
| | Drainage – Sub-soil drainage | 1356 | m | 33.88 | 45941.28 | 43.40 | 58850.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 22 | No. | 303.34 | 6673.48 | 363.01 | 7986.22 |
| | Landscaping | 5933 | m2 | 21.61 | 128212.13 | 25.16 | 149274.28 |
| | Topsoil Seeding | 5933 | m2 | 7.21 | 42776.93 | 8.44 | 50074.52 |
| Street Lighting | Street Lighting - Road | 339 | m | 216.34 | 73339.26 | 225.67 | 76502.13 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 8 | Item | 338.43 | 2707.44 | 380.39 | 3043.12 |
| | Line marking | 1356 | m2 of Pavement | 3.11 | 4217.16 | 4.09 | 5546.04 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 5933 | m2 of l'scape | 2.90 | 17205.70 | 2.96 | 17561.68 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 173 | m3 | 100.00 | 17300.00 | 115.00 | 19895.00 |
| | Telecom/power relocation allowance | 25 | m | 1300.00 | 32500.00 | 1495.00 | 37375.00 |
| | Water/gas relocation allowance | 6 | m | 300.00 | 1800.00 | 345.00 | 2070.00 |
| | Service proving fee | 1 | Item | 3000.00 | 3000.00 | 3450.00 | 3450.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 36408.62 | 3.25 | 41267.99 |
| | VicRoads Fees | 1 | % | 1.00 | 11202.65 | 1.00 | 12697.84 |
| | Traffic Management | 1 | % | 5.00 | 56013.27 | 5.00 | 63489.22 |
| | Environmental Management | 1 | % | 0.50 | 5601.33 | 0.50 | 6348.92 |
| | Surveying and Design | 1 | % | 5.00 | 56013.27 | 5.00 | 63489.22 |
| | Supervision and Project management | 1 | % | 9.00 | 100823.88 | 9.00 | 114280.59 |
| | Site Establishment | 1 | % | 2.50 | 28006.63 | 2.50 | 31744.61 |
| | Contingency | 1 | % | 15.00 | 168039.81 | 15.00 | 190467.65 |
| Total - (2018) rates | Excluding Delivery | | | | 1,120,265 | | 1,269,784 |
| | Including Delivery | | | | 1,582,375 | | 1,793,570 |
| Total - (2021) rates | Excluding Delivery | | | | 1,221,090 | | 1,384,065 |
| | Including Delivery | | | | 1,724,790 | | 1,954,992 |

| |
|------------------------|
| Road Length (m) |
| 1857 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-04 - Secondary Undivided Interim Arterial Road (Exford Road, 1857m) |
| Civil Component Number: | RD-04 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------------|---------------------------------------|-------|----------------|------------|-------------------|------------|-------------------|
| Siteworks/ Earthworks | Site Preparation | 63138 | m2 | 3.68 | 232347.84 | 4.96 | 313164.48 |
| | Earthworks | 4717 | m3 | 34.07 | 160708.19 | 40.52 | 191132.84 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 7428 | m2 | 127.01 | 943430.28 | 133.78 | 993717.84 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1486 | m2 | 14.22 | 21130.92 | 16.16 | 24013.76 |
| | Pavement Rehab | 12999 | m2 | 51.58 | 670488.42 | 59.32 | 771100.68 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 7428 | m | 54.81 | 407128.68 | 60.90 | 452365.20 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 11142 | m2 | 63.51 | 707628.42 | 73.63 | 820385.46 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 1669 | m | 259.10 | 432437.90 | 282.96 | 472260.24 |
| | Drainage Pipe 450mm CR Bfilled | 929 | m | 299.43 | 278170.47 | 334.33 | 310592.57 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 111 | No. | 2565.39 | 284758.29 | 2806.10 | 311477.10 |
| | Drainage – Sub-soil drainage | 7428 | m | 33.88 | 251660.64 | 43.40 | 322375.20 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 123 | No. | 303.34 | 37310.82 | 363.01 | 44650.23 |
| | Landscaping | 31569 | m2 | 21.61 | 682206.09 | 25.16 | 794276.04 |
| | Topsoil Seeding | 31569 | m2 | 7.21 | 227612.49 | 8.44 | 266442.36 |
| Street Lighting | Street Lighting - Road | 1857 | m | 216.34 | 401743.38 | 225.67 | 419069.19 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 42 | Item | 338.43 | 14214.06 | 380.39 | 15976.38 |
| | Line marking | 7428 | m2 of Pavement | 3.11 | 23101.08 | 4.09 | 30380.52 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 31569 | m2 of l'scape | 2.90 | 91550.10 | 2.96 | 93444.24 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 944 | m3 | 100.00 | 94400.00 | 115.00 | 108560.00 |
| | Telecom/power relocation allowance | 587 | m | 1300.00 | 763100.00 | 1495.00 | 877565.00 |
| | Water/gas relocation allowance | 1924 | m | 300.00 | 577200.00 | 345.00 | 663780.00 |
| | Service proving fee | 1 | Item | 20000.00 | 20000.00 | 23000.00 | 23000.00 |
| | Light pole relocation allowance | 4 | Item | 10000.00 | 40000.00 | 11500.00 | 46000.00 |
| | Power pole relocation allowance | 3 | Item | 40000.00 | 120000.00 | 46000.00 | 138000.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 243175.66 | 3.25 | 276371.20 |
| | VicRoads Fees | 1 | % | 1.00 | 74823.28 | 1.00 | 85037.29 |
| | Traffic Management | 1 | % | 5.00 | 374116.40 | 5.00 | 425186.47 |
| | Environmental Management | 1 | % | 0.50 | 37411.64 | 0.50 | 42518.65 |
| | Surveying and Design | 1 | % | 5.00 | 374116.40 | 5.00 | 425186.47 |
| | Supervision and Project management | 1 | % | 9.00 | 673409.53 | 9.00 | 765335.64 |
| | Site Establishment | 1 | % | 2.50 | 187058.20 | 2.50 | 212593.23 |
| | Contingency | 1 | % | 15.00 | 1122349.21 | 15.00 | 1275559.40 |
| Total - (2018) rates | Excluding Delivery | | | | 7,482,328 | | 8,503,729 |
| | Including Delivery | | | | 10,568,788 | | 12,011,518 |
| Total - (2021) rates | Excluding Delivery | | | | 8,155,738 | | 9,269,065 |
| | Including Delivery | | | | 11,519,980 | | 13,092,554 |

| Appendix B | |
|--------------------------------|---|
| Description: | RD-05 - Secondary Divided Interim Arterial Road (Toolern Road [Exford to Toolern Ck], 136m) |
| Civil Component Number: | RD-05 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|------|----------------|------------|----------------|------------|----------------|
| Sitemworks/ Earthworks | Site Preparation | 3230 | m2 | 3.68 | 11886.40 | 4.96 | 16020.80 |
| | Earthworks | 664 | m3 | 34.07 | 22622.48 | 40.52 | 26905.28 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 1045 | m2 | 127.01 | 132725.45 | 133.78 | 139800.10 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 209 | m2 | 14.22 | 2971.98 | 16.16 | 3377.44 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 380 | m | 54.81 | 20827.80 | 60.90 | 23142.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 570 | m2 | 63.51 | 36200.70 | 73.63 | 41969.10 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 74 | m | 259.10 | 19173.40 | 282.96 | 20939.04 |
| | Drainage Pipe 450mm CR Bfilled | 48 | m | 299.43 | 14372.64 | 334.33 | 16047.84 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 3 | No. | 2565.39 | 7696.17 | 2806.10 | 8418.30 |
| | Drainage - Sub-soil drainage | 380 | m | 33.88 | 12874.40 | 43.40 | 16492.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 6 | No. | 303.34 | 1820.04 | 363.01 | 2178.06 |
| | Landscaping | 1615 | m2 | 21.61 | 34900.15 | 25.16 | 40633.40 |
| | Topsoil Seeding | 1615 | m2 | 7.21 | 11644.15 | 8.44 | 13630.60 |
| Street Lighting | Street Lighting - Road | 95 | m | 216.34 | 20552.30 | 225.67 | 21438.65 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 3 | Item | 338.43 | 1015.29 | 380.39 | 1141.17 |
| | Line marking | 1045 | m2 of Pavement | 3.11 | 3249.95 | 4.09 | 4274.05 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 1615 | m2 of l'scape | 2.90 | 4683.50 | 2.96 | 4780.40 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 133 | m3 | 100.00 | 13300.00 | 115.00 | 15295.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 12106.80 | 3.25 | 13535.70 |
| | VicRoads Fees | 1 | % | 1.00 | 3725.17 | 1.00 | 4164.83 |
| | Traffic Management | 1 | % | 5.00 | 18625.84 | 5.00 | 20824.16 |
| | Environmental Management | 1 | % | 0.50 | 1862.58 | 0.50 | 2082.42 |
| | Surveying and Design | 1 | % | 5.00 | 18625.84 | 5.00 | 20824.16 |
| | Supervision and Project management | 1 | % | 9.00 | 33526.51 | 9.00 | 37483.49 |
| | Site Establishment | 1 | % | 2.50 | 9312.92 | 2.50 | 10412.08 |
| | Contingency | 1 | % | 15.00 | 55877.52 | 15.00 | 62472.48 |
| Total - (2018) rates | Excluding Delivery | | | | 372,517 | | 416,483 |
| | Including Delivery | | | | 526,180 | | 588,283 |
| Total - (2021) rates | Excluding Delivery | | | | 406,044 | | 453,967 |
| | Including Delivery | | | | 573,537 | | 641,228 |

| |
|------------------------|
| Road Length (m) |
| 970 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-06 - Secondary Divided Interim Arterial Road (Toolern Road [Toolern Ck to Ferris], 1011m) |
| Civil Component Number: | RD-06 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 32980 | m2 | 3.68 | 121366.40 | 4.96 | 163580.80 |
| | Earthworks | 6776 | m3 | 34.07 | 230858.32 | 40.52 | 274563.52 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 10670 | m2 | 127.01 | 1355196.70 | 133.78 | 1427432.60 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 2134 | m2 | 14.22 | 30345.48 | 16.16 | 34485.44 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 3880 | m | 54.81 | 212662.80 | 60.90 | 236292.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 5820 | m2 | 63.51 | 369628.20 | 73.63 | 428526.60 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 979 | m | 259.10 | 253658.90 | 282.96 | 277017.84 |
| | Drainage Pipe 450mm CR Bfilled | 485 | m | 299.43 | 145223.55 | 334.33 | 162150.05 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 57 | No. | 2565.39 | 146227.23 | 2806.10 | 159947.70 |
| | Drainage - Sub-soil drainage | 3880 | m | 33.88 | 131454.40 | 43.40 | 168392.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 64 | No. | 303.34 | 19413.76 | 363.01 | 23232.64 |
| | Landscaping | 16490 | m2 | 21.61 | 356348.90 | 25.16 | 414888.40 |
| | Topsoil Seeding | 16490 | m2 | 7.21 | 118892.90 | 8.44 | 139175.60 |
| Street Lighting | Street Lighting - Road | 970 | m | 216.34 | 209849.80 | 225.67 | 218899.90 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 22 | Item | 338.43 | 7445.46 | 380.39 | 8368.58 |
| | Line marking | 10670 | m2 of Pavement | 3.11 | 33183.70 | 4.09 | 43640.30 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 16490 | m2 of l'scape | 2.90 | 47821.00 | 2.96 | 48810.40 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1356 | m3 | 100.00 | 135600.00 | 115.00 | 155940.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 127568.27 | 3.25 | 142523.69 |
| | VicRoads Fees | 1 | % | 1.00 | 39251.78 | 1.00 | 43853.44 |
| | Traffic Management | 1 | % | 5.00 | 196258.88 | 5.00 | 219267.22 |
| | Environmental Management | 1 | % | 0.50 | 19625.89 | 0.50 | 21926.72 |
| | Surveying and Design | 1 | % | 5.00 | 196258.88 | 5.00 | 219267.22 |
| | Supervision and Project management | 1 | % | 9.00 | 353265.98 | 9.00 | 394680.99 |
| | Site Establishment | 1 | % | 2.50 | 98129.44 | 2.50 | 109633.61 |
| | Contingency | 1 | % | 15.00 | 588776.63 | 15.00 | 657801.66 |
| Total - (2018) rates | Excluding Delivery | | | | 3,925,178 | | 4,385,344 |
| | Including Delivery | | | | 5,544,313 | | 6,194,299 |
| Total - (2021) rates | Excluding Delivery | | | | 4,278,444 | | 4,780,026 |
| | Including Delivery | | | | 6,043,302 | | 6,751,787 |

| |
|------------------------|
| Road Length (m) |
| 806 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-07 - Secondary Divided Interim Arterial Road (Toolern Road [Ferris to Mt Cottrell], 806m) |
| Civil Component Number: | RD-07 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 27404 | m2 | 3.68 | 100846.72 | 4.96 | 135923.84 |
| | Earthworks | 5630 | m3 | 34.07 | 191814.10 | 40.52 | 228127.60 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 8866 | m2 | 127.01 | 1126070.66 | 133.78 | 1186093.48 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1774 | m2 | 14.22 | 25226.28 | 16.16 | 28667.84 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 3224 | m | 54.81 | 176707.44 | 60.90 | 196341.60 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 4836 | m2 | 63.51 | 307134.36 | 73.63 | 356074.68 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 819 | m | 259.10 | 212202.90 | 282.96 | 231744.24 |
| | Drainage Pipe 450mm CR Bfilled | 403 | m | 299.43 | 120670.29 | 334.33 | 134734.99 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 48 | No. | 2565.39 | 123138.72 | 2806.10 | 134692.80 |
| | Drainage - Sub-soil drainage | 3224 | m | 33.88 | 109229.12 | 43.40 | 139921.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 53 | No. | 303.34 | 16077.02 | 363.01 | 19239.53 |
| | Landscaping | 13702 | m2 | 21.61 | 296100.22 | 25.16 | 344742.32 |
| | Topsoil Seeding | 13702 | m2 | 7.21 | 98791.42 | 8.44 | 115644.88 |
| Street Lighting | Street Lighting - Road | 806 | m | 216.34 | 174370.04 | 225.67 | 181890.02 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 19 | Item | 338.43 | 6430.17 | 380.39 | 7227.41 |
| | Line marking | 8866 | m2 of Pavement | 3.11 | 27573.26 | 4.09 | 36261.94 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 13702 | m2 of l'scape | 2.90 | 39735.80 | 2.96 | 40557.92 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1126 | m3 | 100.00 | 112600.00 | 115.00 | 129490.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 106103.35 | 3.25 | 118539.74 |
| | VicRoads Fees | 1 | % | 1.00 | 32647.19 | 1.00 | 36473.77 |
| | Traffic Management | 1 | % | 5.00 | 163235.93 | 5.00 | 182368.83 |
| | Environmental Management | 1 | % | 0.50 | 16323.59 | 0.50 | 18236.88 |
| | Surveying and Design | 1 | % | 5.00 | 163235.93 | 5.00 | 182368.83 |
| | Supervision and Project management | 1 | % | 9.00 | 293824.67 | 9.00 | 328263.90 |
| | Site Establishment | 1 | % | 2.50 | 81617.96 | 2.50 | 91184.42 |
| | Contingency | 1 | % | 15.00 | 489707.78 | 15.00 | 547106.50 |
| Total - (2018) rates | Excluding Delivery | | | | 3,264,719 | | 3,647,377 |
| | Including Delivery | | | | 4,611,415 | | 5,151,920 |
| Total - (2021) rates | Excluding Delivery | | | | 3,558,544 | | 3,975,641 |
| | Including Delivery | | | | 5,026,443 | | 5,615,593 |

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|------------------------|
| Road Length (m) |
| 927 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-08 - Secondary Interim Arterial Road (Toolern Road [Mt Cottrell to Paynes], 927m) |
| Civil Component Number: | RD-08 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 31518 | m2 | 3.68 | 115986.24 | 4.96 | 156329.28 |
| | Earthworks | 6476 | m3 | 34.07 | 220637.32 | 40.52 | 262407.52 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 10197 | m2 | 127.01 | 1295120.97 | 133.78 | 1364154.66 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 2040 | m2 | 14.22 | 29008.80 | 16.16 | 32966.40 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 3708 | m | 54.81 | 203235.48 | 60.90 | 225817.20 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 5562 | m2 | 63.51 | 353242.62 | 73.63 | 409530.06 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 981 | m | 259.10 | 254177.10 | 282.96 | 277583.76 |
| | Drainage Pipe 450mm CR Bfilled | 927 | m | 299.43 | 277571.61 | 334.33 | 309923.91 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 148 | No. | 2565.39 | 379677.72 | 2806.10 | 415302.80 |
| | Drainage – Sub-soil drainage | 3708 | m | 33.88 | 125627.04 | 43.40 | 160927.20 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 61 | No. | 303.34 | 18503.74 | 363.01 | 22143.61 |
| | Landscaping | 15759 | m2 | 21.61 | 340551.99 | 25.16 | 396496.44 |
| | Topsoil Seeding | 15759 | m2 | 7.21 | 113622.39 | 8.44 | 133005.96 |
| Street Lighting | Street Lighting - Road | 927 | m | 216.34 | 200547.18 | 225.67 | 209196.09 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 21 | Item | 338.43 | 7107.03 | 380.39 | 7988.19 |
| | Line marking | 10197 | m2 of Pavement | 3.11 | 31712.67 | 4.09 | 41705.73 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 15759 | m2 of l'scape | 2.90 | 45701.10 | 2.96 | 46646.64 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1296 | m3 | 100.00 | 129600.00 | 115.00 | 149040.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 134603.01 | 3.25 | 150187.88 |
| | VicRoads Fees | 1 | % | 1.00 | 41416.31 | 1.00 | 46211.65 |
| | Traffic Management | 1 | % | 5.00 | 207081.55 | 5.00 | 231058.27 |
| | Environmental Management | 1 | % | 0.50 | 20708.16 | 0.50 | 23105.83 |
| | Surveying and Design | 1 | % | 5.00 | 207081.55 | 5.00 | 231058.27 |
| | Supervision and Project management | 1 | % | 9.00 | 372746.79 | 9.00 | 415904.89 |
| | Site Establishment | 1 | % | 2.50 | 103540.78 | 2.50 | 115529.14 |
| | Contingency | 1 | % | 15.00 | 621244.65 | 15.00 | 693174.82 |
| Total - (2018) rates | Excluding Delivery | | | | 4,141,631 | | 4,621,165 |
| | Including Delivery | | | | 5,850,054 | | 6,527,396 |
| Total - (2021) rates | Excluding Delivery | | | | 4,514,378 | | 5,037,071 |
| | Including Delivery | | | | 6,376,559 | | 7,114,863 |

| |
|------------------------|
| Road Length (m) |
| 878 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-11 - Primary Interim Arterial Road (Mt Cottrell Road [UGB to Toolern Rd to Rail], 678m) |
| Civil Component Number: | RD-11 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 35998 | m2 | 3.68 | 132472.64 | 4.96 | 178550.08 |
| | Earthworks | 8789 | m3 | 34.07 | 299441.23 | 40.52 | 356130.28 |
| Road Pavement | Primary Arterial Pavement | 12292 | m2 | 169.62 | 2084969.04 | 186.26 | 2289507.92 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 2459 | m2 | 14.22 | 34966.98 | 16.16 | 39737.44 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 3512 | m | 54.81 | 192492.72 | 60.90 | 213880.80 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 6585 | m2 | 63.51 | 418213.35 | 73.63 | 484853.55 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 929 | m | 259.10 | 240703.90 | 282.96 | 262869.84 |
| | Drainage Pipe 450mm CR Bfilled | 878 | m | 299.43 | 262899.54 | 334.33 | 293541.74 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 140 | No. | 2565.39 | 359154.60 | 2806.10 | 392854.00 |
| | Drainage - Sub-soil drainage | 3512 | m | 33.88 | 118986.56 | 43.40 | 152420.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 58 | No. | 303.34 | 17593.72 | 363.01 | 21054.58 |
| | Landscaping | 17121 | m2 | 21.61 | 369984.81 | 25.16 | 430764.36 |
| | Topsoil Seeding | 17121 | m2 | 7.21 | 123442.41 | 8.44 | 144501.24 |
| Street Lighting | Street Lighting - Road | 878 | m | 216.34 | 189946.52 | 225.67 | 198138.26 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 20 | Item | 338.43 | 6768.60 | 380.39 | 7607.80 |
| | Line marking | 12292 | m2 of Pavement | 3.11 | 38228.12 | 4.09 | 50274.28 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 17121 | m2 of l'scape | 2.90 | 49650.90 | 2.96 | 50678.16 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1758 | m3 | 100.00 | 175800.00 | 115.00 | 202170.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| | Power pole relocation allowance | 6 | Item | 40000.00 | 240000.00 | 46000.00 | 276000.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 174060.76 | 3.25 | 196479.89 |
| | VicRoads Fees | 1 | % | 1.00 | 53557.16 | 1.00 | 60455.35 |
| | Traffic Management | 1 | % | 5.00 | 267785.78 | 5.00 | 302276.76 |
| | Environmental Management | 1 | % | 0.50 | 26778.58 | 0.50 | 30227.68 |
| | Surveying and Design | 1 | % | 5.00 | 267785.78 | 5.00 | 302276.76 |
| | Supervision and Project management | 1 | % | 9.00 | 482014.41 | 9.00 | 544098.16 |
| | Site Establishment | 1 | % | 2.50 | 133892.89 | 2.50 | 151138.38 |
| Contingency | 1 | % | 15.00 | 803357.35 | 15.00 | 906830.27 | |
| Total - (2018) rates | Excluding Delivery | | | | 5,355,716 | | 6,045,535 |
| | Including Delivery | | | | 7,564,948 | | 8,539,318 |
| Total - (2021) rates | Excluding Delivery | | | | 5,837,731 | | 6,589,634 |
| | Including Delivery | | | | 8,245,795 | | 9,307,858 |

Road Length (m)
312

| Appendix B | |
|--------------------------------|--|
| Description: | RD-12 - Primary Interim Arterial Road (Mt Cottrell Road [Western Fwy to Rail], 312m) |
| Civil Component Number: | RD-12 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 12792 | m2 | 3.68 | 47074.56 | 4.96 | 63448.32 |
| | Earthworks | 3124 | m3 | 34.07 | 106434.68 | 40.52 | 126584.48 |
| Road Pavement | Primary Arterial Pavement | 4368 | m2 | 169.62 | 740900.16 | 186.26 | 813583.68 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 874 | m2 | 14.22 | 12428.28 | 16.16 | 14123.84 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 2496 | m | 54.81 | 136805.76 | 60.90 | 152006.40 |
| | Cycle Path | 936 | m2 | 76.59 | 71688.24 | 91.94 | 86055.84 |
| | SUP/ Footpath | 1560 | m2 | 63.51 | 99075.60 | 73.63 | 114862.80 |
| | Traffic Island | 936 | m2 | 77.60 | 72633.60 | 84.07 | 78689.52 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 330 | m | 259.10 | 85503.00 | 282.96 | 93376.80 |
| | Drainage Pipe 450mm CR Bfilled | 312 | m | 299.43 | 93422.16 | 334.33 | 104310.96 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 48 | No. | 2565.39 | 123138.72 | 2806.10 | 134692.80 |
| | Drainage - Sub-soil drainage | 2496 | m | 33.88 | 84564.48 | 43.40 | 108326.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 60 | No. | 303.34 | 18200.40 | 363.01 | 21780.60 |
| | Landscaping | 4992 | m2 | 21.61 | 107877.12 | 25.16 | 125598.72 |
| | Topsoil Seeding | 4992 | m2 | 7.21 | 35992.32 | 8.44 | 42132.48 |
| Street Lighting | Street Lighting - Road | 312 | m | 216.34 | 67498.08 | 225.67 | 70409.04 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 8 | Item | 338.43 | 2707.44 | 380.39 | 3043.12 |
| | Line marking | 4368 | m2 of Pavement | 3.11 | 13584.48 | 4.09 | 17865.12 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 4992 | m2 of l'scape | 2.90 | 14476.80 | 2.96 | 14776.32 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 625 | m3 | 100.00 | 62500.00 | 115.00 | 71875.00 |
| | Telecom/power relocation allowance | 335 | m | 1300.00 | 435500.00 | 1495.00 | 500825.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| | Power pole relocation allowance | 3 | Item | 40000.00 | 120000.00 | 46000.00 | 138000.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 82940.19 | 3.25 | 94131.94 |
| | VicRoads Fees | 1 | % | 1.00 | 25520.06 | 1.00 | 28963.67 |
| | Traffic Management | 1 | % | 5.00 | 127600.29 | 5.00 | 144818.36 |
| | Environmental Management | 1 | % | 0.50 | 12760.03 | 0.50 | 14481.84 |
| | Surveying and Design | 1 | % | 5.00 | 127600.29 | 5.00 | 144818.36 |
| | Supervision and Project management | 1 | % | 9.00 | 229680.53 | 9.00 | 260673.05 |
| | Site Establishment | 1 | % | 2.50 | 63800.15 | 2.50 | 72409.18 |
| Contingency | 1 | % | 15.00 | 382800.88 | 15.00 | 434455.09 | |
| Total - (2018) rates | Excluding Delivery | | | | 2,552,006 | | 2,896,367 |
| | Including Delivery | | | | 3,604,708 | | 4,091,119 |
| Total - (2021) rates | Excluding Delivery | | | | 2,781,687 | | 3,157,041 |
| | Including Delivery | | | | 3,929,133 | | 4,459,320 |

| |
|------------------------|
| Road Length (m) |
| 438 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-14 - Primary Interim Arterial Road (Shogaki Drive West [Mt Cottrell to Ferris], 438m) |
| Civil Component Number: | RD-14 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Sitemworks/ Earthworks | Site Preparation | 19710 | m2 | 3.68 | 72532.80 | 4.96 | 97761.60 |
| | Earthworks | 2193 | m3 | 34.07 | 74715.51 | 40.52 | 88860.36 |
| Road Pavement | Primary Arterial Pavement | 3066 | m2 | 169.62 | 520054.92 | 186.26 | 571073.16 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 614 | m2 | 14.22 | 8731.08 | 16.16 | 9922.24 |
| | Pavement Rehab | 3066 | m2 | 51.58 | 158144.28 | 59.32 | 181875.12 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1752 | m | 54.81 | 96027.12 | 60.90 | 106696.80 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 3942 | m2 | 63.51 | 250356.42 | 73.63 | 290249.46 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 462 | m | 259.10 | 119704.20 | 282.96 | 130727.52 |
| | Drainage Pipe 450mm CR Bfilled | 438 | m | 299.43 | 131150.34 | 334.33 | 146436.54 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 68 | No. | 2565.39 | 174446.52 | 2806.10 | 190814.80 |
| | Drainage – Sub-soil drainage | 1752 | m | 33.88 | 59357.76 | 43.40 | 76036.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 29 | No. | 303.34 | 8796.86 | 363.01 | 10527.29 |
| | Landscaping | 9636 | m2 | 21.61 | 208233.96 | 25.16 | 242441.76 |
| | Topsoil Seeding | 9636 | m2 | 7.21 | 69475.56 | 8.44 | 81327.84 |
| Street Lighting | Street Lighting - Road | 438 | m | 216.34 | 94756.92 | 225.67 | 98843.46 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 10 | Item | 338.43 | 3384.30 | 380.39 | 3803.90 |
| | Line marking | 3066 | m2 of Pavement | 3.11 | 9535.26 | 4.09 | 12539.94 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 9636 | m2 of l'scape | 2.90 | 27944.40 | 2.96 | 28522.56 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 439 | m3 | 100.00 | 43900.00 | 115.00 | 50485.00 |
| | Telecom/power relocation allowance | 383 | m | 1300.00 | 497900.00 | 1495.00 | 572585.00 |
| | Water/gas relocation allowance | 876 | m | 300.00 | 262800.00 | 345.00 | 302220.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 93988.32 | 3.25 | 107046.91 |
| | VicRoads Fees | 1 | % | 1.00 | 28919.48 | 1.00 | 32937.51 |
| | Traffic Management | 1 | % | 5.00 | 144597.41 | 5.00 | 164687.56 |
| | Environmental Management | 1 | % | 0.50 | 14459.74 | 0.50 | 16468.76 |
| | Surveying and Design | 1 | % | 5.00 | 144597.41 | 5.00 | 164687.56 |
| | Supervision and Project management | 1 | % | 9.00 | 260275.34 | 9.00 | 296437.60 |
| | Site Establishment | 1 | % | 2.50 | 72298.71 | 2.50 | 82343.78 |
| | Contingency | 1 | % | 15.00 | 433792.23 | 15.00 | 494062.67 |
| Total - (2018) rates | Excluding Delivery | | | | 2,891,948 | | 3,293,751 |
| | Including Delivery | | | | 4,084,877 | | 4,652,423 |
| Total - (2021) rates | Excluding Delivery | | | | 3,152,224 | | 3,590,189 |
| | Including Delivery | | | | 4,452,516 | | 5,071,142 |

| |
|-----------------|
| Road Length (m) |
| 350 |

| Appendix B | |
|--------------------------------|---|
| Description: | RD-15 - Primary Ultimate Arterial Road (Ferris Road [Western Hwy to Shogaki], 350m) |
| Civil Component Number: | RD-15 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|-----------------------------|---|-------|----------------|------------|------------------|------------|------------------|
| Sitemeworks/ Earthworks | Site Preparation | 14630 | m2 | 3.68 | 53838.40 | 4.96 | 72564.80 |
| | Earthworks | 3504 | m3 | 34.07 | 119381.28 | 40.52 | 141982.08 |
| Road Pavement | Primary Arterial Pavement | 4900 | m2 | 169.62 | 831138.00 | 186.26 | 912674.00 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 980 | m2 | 14.22 | 13935.60 | 16.16 | 15836.80 |
| | Pavement Rehab | 2450 | m2 | 51.58 | 126371.00 | 59.32 | 145334.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1050 | m | 54.81 | 57550.50 | 60.90 | 63945.00 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 1050 | m2 | 63.51 | 66685.50 | 73.63 | 77311.50 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 371 | m | 259.10 | 96126.10 | 282.96 | 104978.16 |
| | Drainage Pipe 450mm CR Bfilled | 350 | m | 299.43 | 104800.50 | 334.33 | 117015.50 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 56 | No. | 2565.39 | 143661.84 | 2806.10 | 157141.60 |
| | Drainage - Sub-soil drainage | 1050 | m | 33.88 | 35574.00 | 43.40 | 45570.00 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 23 | No. | 303.34 | 6976.82 | 363.01 | 8349.23 |
| | Landscaping | 4130 | m2 | 21.61 | 89249.30 | 25.16 | 103910.80 |
| | Topsoil Seeding | 4130 | m2 | 7.21 | 29777.30 | 8.44 | 34857.20 |
| Street Lighting | Street Lighting - Road | 350 | m | 216.34 | 75719.00 | 225.67 | 78984.50 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 8 | Item | 338.43 | 2707.44 | 380.39 | 3043.12 |
| | Line marking | 4900 | m2 of Pavement | 3.11 | 15239.00 | 4.09 | 20041.00 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 4130 | m2 of l'scape | 2.90 | 11977.00 | 2.96 | 12224.80 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 701 | m3 | 100.00 | 70100.00 | 115.00 | 80615.00 |
| | Telecom/power relocation allowance | 323 | m | 1300.00 | 419900.00 | 1495.00 | 482885.00 |
| | Water/gas relocation allowance | 85 | m | 300.00 | 25500.00 | 345.00 | 29325.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| | Kerb Removal | 323 | m | 60.00 | 19380.00 | 69.00 | 22287.00 |
| | Earthen mound removal | 8320 | m3 | 34.07 | 283462.40 | 40.52 | 337126.40 |
| | Sawcut pavement tie ins, new kerb & channel, etc. | 323 | m | 14.00 | 4522.00 | 16.10 | 5200.30 |
| Delivery | Council Fees | 1 | % | 3.25 | 87866.12 | 3.25 | 99879.09 |
| | VicRoads Fees | 1 | % | 1.00 | 27035.73 | 1.00 | 30732.03 |
| | Traffic Management | 1 | % | 5.00 | 135178.65 | 5.00 | 153660.14 |
| | Environmental Management | 1 | % | 0.50 | 13517.86 | 0.50 | 15366.01 |
| | Surveying and Design | 1 | % | 5.00 | 135178.65 | 5.00 | 153660.14 |
| | Supervision and Project management | 1 | % | 9.00 | 243321.57 | 9.00 | 276588.25 |
| | Site Establishment | 1 | % | 2.50 | 67589.32 | 2.50 | 76830.07 |
| | Contingency | 1 | % | 15.00 | 405535.95 | 15.00 | 460980.42 |
| Total - (2018) rates | Excluding Delivery | | | | 2,703,573 | | 3,073,203 |
| | Including Delivery | | | | 3,818,797 | | 4,340,899 |
| Total - (2021) rates | Excluding Delivery | | | | 2,946,895 | | 3,349,792 |
| | Including Delivery | | | | 4,162,489 | | 4,731,581 |

Road Length (m)
69

| Appendix B | |
|--------------------------------|--|
| Description: | RD-16 - Secondary Divided Interim Arterial Road (Ferris Road [Shogaki to Rail], 69m) |
| Civil Component Number: | RD-16 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|---------------------------------|---------------------------------------|------|----------------|------------|----------------|------------|----------------|
| Siteworks/ Earthworks | Site Preparation | 2622 | m2 | 3.68 | 9648.96 | 4.96 | 13005.12 |
| | Earthworks | 482 | m3 | 34.07 | 16421.74 | 40.52 | 19530.64 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 759 | m2 | 127.01 | 96400.59 | 133.78 | 101539.02 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 152 | m2 | 14.22 | 2161.44 | 16.16 | 2456.32 |
| | Pavement Rehab | 483 | m2 | 51.58 | 24913.14 | 59.32 | 28651.56 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 276 | m | 54.81 | 15127.56 | 60.90 | 16808.40 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 414 | m2 | 63.51 | 26293.14 | 73.63 | 30482.82 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 61 | m | 259.10 | 15805.10 | 282.96 | 17260.56 |
| | Drainage Pipe 450mm CR Bfilled | 35 | m | 299.43 | 10480.05 | 334.33 | 11701.55 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 3 | No. | 2565.39 | 7696.17 | 2806.10 | 8418.30 |
| | Drainage – Sub-soil drainage | 276 | m | 33.88 | 9350.88 | 43.40 | 11978.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 4 | No. | 303.34 | 1213.36 | 363.01 | 1452.04 |
| | Landscaping | 966 | m2 | 21.61 | 20875.26 | 25.16 | 24304.56 |
| | Topsoil Seeding | 966 | m2 | 7.21 | 6964.86 | 8.44 | 8153.04 |
| Street Lighting | Street Lighting - Road | 69 | m | 216.34 | 14927.46 | 225.67 | 15571.23 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 2 | Item | 338.43 | 676.86 | 380.39 | 760.78 |
| | Line marking | 759 | m2 of Pavement | 3.11 | 2360.49 | 4.09 | 3104.31 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 966 | m2 of l'scape | 2.90 | 2801.40 | 2.96 | 2859.36 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 97 | m3 | 100.00 | 9700.00 | 115.00 | 11155.00 |
| | Telecom/power relocation allowance | 69 | m | 1300.00 | 89700.00 | 1495.00 | 103155.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 12464.35 | 3.25 | 14051.31 |
| | VicRoads Fees | 1 | % | 1.00 | 3835.18 | 1.00 | 4323.48 |
| | Traffic Management | 1 | % | 5.00 | 19175.92 | 5.00 | 21617.40 |
| | Environmental Management | 1 | % | 0.50 | 1917.59 | 0.50 | 2161.74 |
| | Surveying and Design | 1 | % | 5.00 | 19175.92 | 5.00 | 21617.40 |
| | Supervision and Project management | 1 | % | 9.00 | 34516.66 | 9.00 | 38911.32 |
| | Site Establishment | 1 | % | 2.50 | 9587.96 | 2.50 | 10808.70 |
| | Contingency | 1 | % | 15.00 | 57527.77 | 15.00 | 64852.20 |
| Total - (2018) rates | Excluding Delivery | | | | 383,518 | | 432,348 |
| | Including Delivery | | | | 541,720 | | 610,692 |
| Total - (2021) rates | Excluding Delivery | | | | 418,036 | | 471,260 |
| | Including Delivery | | | | 590,476 | | 665,655 |

| |
|------------------------|
| Road Length (m) |
| 729 |

| Appendix B | |
|--------------------------------|---|
| Description: | RD-17 - Secondary Divided Interim Arterial Road (Ferris Road (Rail to Toolern), 729m) |
| Civil Component Number: | RD-17 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|------------------------|---------------------------------------|-------|----------------|------------|--------------|------------|--------------|
| Sitemworks/ Earthworks | Site Preparation | 27702 | m2 | 3.68 | 101943.36 | 4.96 | 137401.92 |
| | Earthworks | 7217 | m3 | 34.07 | 245883.19 | 40.52 | 292432.84 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 11364 | m2 | 127.01 | 1443341.64 | 133.78 | 1520275.92 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 2273 | m2 | 14.22 | 32322.06 | 16.16 | 36731.68 |
| | Pavement Rehab | 1759 | m2 | 51.58 | 90729.22 | 59.32 | 104343.88 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 2916 | m | 54.81 | 159825.96 | 60.90 | 177584.40 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 4374 | m2 | 63.51 | 277792.74 | 73.63 | 322057.62 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 729 | m | 259.10 | 188883.90 | 282.96 | 206277.84 |
| | Drainage Pipe 450mm CR Bfilled | 365 | m | 299.43 | 109291.95 | 334.33 | 122030.45 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 42 | No. | 2565.39 | 107746.38 | 2806.10 | 117856.20 |
| | Drainage - Sub-soil drainage | 2916 | m | 33.88 | 98794.08 | 43.40 | 126554.40 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 48 | No. | 303.34 | 14560.32 | 363.01 | 17424.48 |
| | Landscaping | 10206 | m2 | 21.61 | 220551.66 | 25.16 | 256782.96 |
| | Topsoil Seeding | 10206 | m2 | 7.21 | 73585.26 | 8.44 | 86138.64 |
| Street Lighting | Street Lighting - Road | 729 | m | 216.34 | 157711.86 | 225.67 | 164513.43 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 17 | Item | 338.43 | 5753.31 | 380.39 | 6466.63 |
| | Line marking | 11364 | m2 of Pavement | 3.11 | 35342.04 | 4.09 | 46478.76 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 10206 | m2 of l'scape | 2.90 | 29597.40 | 2.96 | 30209.76 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 1444 | m3 | 100.00 | 144400.00 | 115.00 | 166060.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 0 | Item | 3000.00 | 0.00 | 3450.00 | 0.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 114986.83 | 3.25 | 127972.71 |
| | VicRoads Fees | 1 | % | 1.00 | 35380.56 | 1.00 | 39376.22 |
| | Traffic Management | 1 | % | 5.00 | 176902.82 | 5.00 | 196881.09 |
| | Environmental Management | 1 | % | 0.50 | 17690.28 | 0.50 | 19688.11 |
| | Surveying and Design | 1 | % | 5.00 | 176902.82 | 5.00 | 196881.09 |
| | Supervision and Project management | 1 | % | 9.00 | 318425.07 | 9.00 | 354385.96 |
| | Site Establishment | 1 | % | 2.50 | 88451.41 | 2.50 | 98440.55 |
| | Contingency | 1 | % | 15.00 | 530708.45 | 15.00 | 590643.27 |
| Total - (2018) rates | Excluding Delivery | | | | 3,538,056 | | 3,937,622 |
| | Including Delivery | | | | 4,997,505 | | 5,561,891 |
| Total - (2021) rates | Excluding Delivery | | | | 3,856,482 | | 4,292,008 |
| | Including Delivery | | | | 5,447,281 | | 6,062,461 |

| |
|-----------------|
| Road Length (m) |
| 544 |

| Appendix B | |
|-------------------------|---|
| Description: | RD-18 - Secondary Divided Interim Arterial Road (Abey Road [Shogaki to Toolern Ck], 544m) |
| Civil Component Number: | RD-18 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|------------------------|---------------------------------------|-------|----------------|------------|--------------|------------|--------------|
| Sitemworks/ Earthworks | Site Preparation | 18496 | m2 | 3.68 | 68065.28 | 4.96 | 91740.16 |
| | Earthworks | 3800 | m3 | 34.07 | 129466.00 | 40.52 | 153976.00 |
| Road Pavement | Primary Arterial Pavement | 0 | m2 | 169.62 | 0.00 | 186.26 | 0.00 |
| | Secondary Arterial Pavement | 5984 | m2 | 127.01 | 760027.84 | 133.78 | 800539.52 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1197 | m2 | 14.22 | 17021.34 | 16.16 | 19343.52 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 3264 | m | 54.81 | 178899.84 | 60.90 | 198777.60 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 3264 | m2 | 63.51 | 207296.64 | 73.63 | 240328.32 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 532 | m | 259.10 | 137841.20 | 282.96 | 150534.72 |
| | Drainage Pipe 450mm CR Bfilled | 272 | m | 299.43 | 81444.96 | 334.33 | 90937.76 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 30 | No. | 2565.39 | 76961.70 | 2806.10 | 84183.00 |
| | Drainage – Sub-soil drainage | 3264 | m | 33.88 | 110584.32 | 43.40 | 141657.60 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 108 | No. | 303.34 | 32760.72 | 363.01 | 39205.08 |
| | Landscaping | 9248 | m2 | 21.61 | 199849.28 | 25.16 | 232679.68 |
| | Topsoil Seeding | 9248 | m2 | 7.21 | 66678.08 | 8.44 | 78053.12 |
| Street Lighting | Street Lighting - Road | 544 | m | 216.34 | 117688.96 | 225.67 | 122764.48 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 13 | Item | 338.43 | 4399.59 | 380.39 | 4945.07 |
| | Line marking | 5984 | m2 of Pavement | 3.11 | 18610.24 | 4.09 | 24474.56 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 9248 | m2 of l'scape | 2.90 | 26819.20 | 2.96 | 27374.08 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 760 | m3 | 100.00 | 76000.00 | 115.00 | 87400.00 |
| | Telecom/power relocation allowance | 18 | m | 1300.00 | 23400.00 | 1495.00 | 26910.00 |
| | Water/gas relocation allowance | 0 | m | 300.00 | 0.00 | 345.00 | 0.00 |
| | Service proving fee | 1 | Item | 3000.00 | 3000.00 | 3450.00 | 3450.00 |
| Delivery | Council Fees | 1 | % | 3.25 | 75946.49 | 3.25 | 85126.41 |
| | VicRoads Fees | 1 | % | 1.00 | 23368.15 | 1.00 | 26192.74 |
| | Traffic Management | 1 | % | 5.00 | 116840.76 | 5.00 | 130963.71 |
| | Environmental Management | 1 | % | 0.50 | 11684.08 | 0.50 | 13096.37 |
| | Surveying and Design | 1 | % | 5.00 | 116840.76 | 5.00 | 130963.71 |
| | Supervision and Project management | 1 | % | 9.00 | 210313.37 | 9.00 | 235734.68 |
| | Site Establishment | 1 | % | 2.50 | 58420.38 | 2.50 | 65481.86 |
| Contingency | 1 | % | 15.00 | 350522.28 | 15.00 | 392891.14 | |
| Total - (2018) rates | Excluding Delivery | | | | 2,336,815 | | 2,619,274 |
| | Including Delivery | | | | 3,300,751 | | 3,699,725 |
| Total - (2021) rates | Excluding Delivery | | | | 2,547,129 | | 2,855,009 |
| | Including Delivery | | | | 3,597,820 | | 4,032,700 |

| |
|------------------------|
| Road Length (m) |
| 438 |

| Appendix B | |
|--------------------------------|--|
| Description: | RD-19 - Primary Interim Arterial Road (Shogaki Drive East [Mt Cottrell to Ferris], 438m) |
| Civil Component Number: | RD-19 |

| Group | Sub Item | Qty | Unit | Rate (P50) | Amount (P50) | Rate (P90) | Amount (P90) |
|------------------------------|---------------------------------------|-------|----------------|------------|------------------|------------|------------------|
| Siteworks/ Earthworks | Site Preparation | 19710 | m2 | 3.68 | 72532.80 | 4.96 | 97761.60 |
| | Earthworks | 4385 | m3 | 34.07 | 149396.95 | 40.52 | 177680.20 |
| Road Pavement | Primary Arterial Pavement | 6132 | m2 | 169.62 | 1040109.84 | 186.26 | 1142146.32 |
| | Secondary Arterial Pavement | 0 | m2 | 127.01 | 0.00 | 133.78 | 0.00 |
| | Collector Arterial Pavement | 0 | m2 | 105.15 | 0.00 | 112.44 | 0.00 |
| | Subgrade Preparation | 1227 | m2 | 14.22 | 17447.94 | 16.16 | 19828.32 |
| | Pavement Rehab | 0 | m2 | 51.58 | 0.00 | 59.32 | 0.00 |
| | Pavement Other | 0 | m2 | 0.00 | 0.00 | 0.00 | 0.00 |
| Concrete Works | Kerb and Channel | 1752 | m | 54.81 | 96027.12 | 60.90 | 106696.80 |
| | Cycle Path | 0 | m2 | 76.59 | 0.00 | 91.94 | 0.00 |
| | SUP/ Footpath | 3942 | m2 | 63.51 | 250356.42 | 73.63 | 290249.46 |
| | Traffic Island | 0 | m2 | 77.60 | 0.00 | 84.07 | 0.00 |
| Drainage | Drainage Pipe 300mm CR Bfilled | 0 | m | 179.85 | 0.00 | 197.96 | 0.00 |
| | Drainage Pipe 375mm CR Bfilled | 462 | m | 259.10 | 119704.20 | 282.96 | 130727.52 |
| | Drainage Pipe 450mm CR Bfilled | 438 | m | 299.43 | 131150.34 | 334.33 | 146436.54 |
| | Drainage Pipe 525mm CR Bfilled | 0 | m | 403.86 | 0.00 | 448.03 | 0.00 |
| | Drainage - pits | 68 | No. | 2565.39 | 174446.52 | 2806.10 | 190814.80 |
| | Drainage – Sub-soil drainage | 1752 | m | 33.88 | 59357.76 | 43.40 | 76036.80 |
| | Drainage Culvert | 0 | No. | 0.00 | 0.00 | 0.00 | 0.00 |
| Traffic signals | Traffic Signals (all inclusive) | 0 | Item/ Per Leg | 109730.28 | 0.00 | 128786.34 | 0.00 |
| Landscape | Tree Planting | 29 | No. | 303.34 | 8796.86 | 363.01 | 10527.29 |
| | Landscaping | 9636 | m2 | 21.61 | 208233.96 | 25.16 | 242441.76 |
| | Topsoil Seeding | 9636 | m2 | 7.21 | 69475.56 | 8.44 | 81327.84 |
| Street Lighting | Street Lighting - Road | 438 | m | 216.34 | 94756.92 | 225.67 | 98843.46 |
| | Street Lighting - Intersections | 0 | Item/ Per Leg | 48468.93 | 0.00 | 55617.74 | 0.00 |
| Misc. | Regulatory Signage | 10 | Item | 338.43 | 3384.30 | 380.39 | 3803.90 |
| | Line marking | 6132 | m2 of Pavement | 3.11 | 19070.52 | 4.09 | 25079.88 |
| | Landscape maintenance (intersections) | 0 | Item | 71344.66 | 0.00 | 88131.43 | 0.00 |
| | Landscape maintenance (roads) | 9636 | m2 of l'scape | 2.90 | 27944.40 | 2.96 | 28522.56 |
| | Tactile Pavers (Hazard only) | 0 | Item | 292.43 | 0.00 | 319.78 | 0.00 |
| Other | Rock excavation | 877 | m3 | 100.00 | 87700.00 | 115.00 | 100855.00 |
| | Telecom/power relocation allowance | 0 | m | 1300.00 | 0.00 | 1495.00 | 0.00 |
| | Water/gas relocation allowance | 480 | m | 300.00 | 144000.00 | 345.00 | 165600.00 |
| | Service proving fee | 1 | Item | 3000.00 | 3000.00 | 3450.00 | 3450.00 |
| | | | | | | | |
| Delivery | Council Fees | 1 | % | 3.25 | 90249.00 | 3.25 | 102011.98 |
| | VicRoads Fees | 1 | % | 1.00 | 27768.92 | 1.00 | 31388.30 |
| | Traffic Management | 1 | % | 5.00 | 138844.62 | 5.00 | 156941.50 |
| | Environmental Management | 1 | % | 0.50 | 13884.46 | 0.50 | 15694.15 |
| | Surveying and Design | 1 | % | 5.00 | 138844.62 | 5.00 | 156941.50 |
| | Supervision and Project management | 1 | % | 9.00 | 249920.32 | 9.00 | 282494.70 |
| | Site Establishment | 1 | % | 2.50 | 69422.31 | 2.50 | 78470.75 |
| Contingency | 1 | % | 15.00 | 416533.86 | 15.00 | 470824.51 | |
| Total - (2018) rates | Excluding Delivery | | | | 2,776,892 | | 3,138,830 |
| | Including Delivery | | | | 3,922,361 | | 4,433,597 |

APPENDIX

C

LAND TAKE TABLE

| Property No. | Infrastructure Code Reference | Parcel Number | Toolern Parcel Number | Area (m ²) |
|--------------|-------------------------------|---------------|-----------------------|------------------------|
| | BD-03 | EA\PS828064 | Outside PSP | 2750 |
| | | | TOTAL | 2750 |
| | BD-15 | 5\PS817483 | 30 | 432 |
| | BD-15 | B\PS817483 | 30 | 1277 |
| | BD-15 | 1\PS431980 | 123B | 2280 |
| | BD-15 | 5\PS419106 | 113 | 75 |
| | BD-15 | RES2\PS419106 | 114 | 1970 |
| | BD-15 | R1\PS817474 | 23 | 1753 |
| | | | TOTAL | 7787 |
| | BD-19 | 2\LP202585 | 128 | 3203 |
| | BD-19 | 1\LP202585 | 127 | 1243 |
| | BD-19 | R1\PS732578 | Outside PSP | 4206 |
| | BD-19 | R2\PS732578 | Outside PSP | 5905 |
| | BD-19 | 1\PS516977 | Outside PSP | 1374 |
| | BD-19 | 6\LP317226 | Outside PSP | 6072 |
| | BD-19 | 1\PS217378 | Outside PSP | 11926 |
| | | | TOTAL | 33929 |
| | BD-20 | 3\PS438336 | 124 | 2249 |
| | BD-20 | R1\PS816927 | Outside PSP | 5536 |
| | BD-20 | 1\PS431980 | 123B | 3663 |
| | BD-20 | 5\PS419106 | 113 | 2948 |
| | BD-20 | RES2\PS419106 | 114 | 659 |
| | | | TOTAL | 15055 |
| | IT-01 | A\PS831655 | Outside PSP | 2765 |
| | IT-01 | R2\PS811249 | 2 | 7095 |
| | IT-01 | A\PS825869 | 2 | 396 |
| | | | TOTAL | 10256 |
| | IT-02 | R2\PS811249 | 2 | 6877 |
| | IT-02 | R3\PS811249 | 2 | 4015 |
| | IT-02 | AC\PS822753 | 4 | 41 |
| | IT-02 | D\PS817593 | 2 | 104 |
| | | | TOTAL | 11037 |
| | IT-03 | R1\PS803175 | 6 | 1562 |
| | IT-03 | R1\PS813564 | 7 | 17595 |
| | IT-03 | K\PS806376 | 7 | 286 |
| | IT-03 | RES1\PS841661 | 7 | 540 |
| | IT-03 | R1\PS640644 | 8 | 416 |
| | IT-03 | EA\PS828064 | 29 | 1763 |
| | | | TOTAL | 22162 |
| | IT-04 | 1\TP372474 | 147 | 65 |
| | IT-04 | L\PS813104 | 147 | 3088 |
| | IT-04 | 1\TP163899 | Outside PSP | 768 |
| | | | TOTAL | 3921 |
| | IT-05 | EA\PS828064 | 29 | 6965 |
| | IT-05 | DZ\PS828064 | 29 | 21112 |
| | | | TOTAL | 28077 |
| | IT-06 | 2\LP208087 | 58 | 6634 |
| | IT-06 | 9\LP146147 | 78 | 21021 |
| | IT-06 | 1\PS515052 | 79 | 3136 |
| | IT-06 | 10\LP146147 | 77 | 4095 |
| | | | TOTAL | 34886 |

| | | | | |
|--|-------|-------------|--------------|--------------|
| | IT-10 | R1\PS732578 | Outside PSP | 7291 |
| | IT-10 | 1\LP201653 | 129 | 2842 |
| | IT-10 | 3\PS438336 | 124 | 5934 |
| | IT-10 | 2\LP201653 | 128 | 66 |
| | | | TOTAL | 16133 |
| | IT-12 | 4\LP438336 | 122 | 896 |
| | IT-12 | 3\PS438336 | 124 | 16248 |
| | IT-12 | 2\LP201653 | 128 | 4274 |
| | | | TOTAL | 21418 |
| | IT-13 | 3\PS438336 | 124 | 3126 |
| | IT-13 | 1\PS431981 | 121 | 2121 |
| | IT-13 | 2\PS410948 | 100 | 109 |
| | IT-13 | 1\PS419294 | 111 | 430 |
| | | | TOTAL | 5786 |
| | IT-15 | 2\LP111799 | 31 | 5201 |
| | IT-15 | 3\LP111799 | 33 | 2665 |
| | IT-15 | 4A~C\PP2927 | 32 | 963 |
| | IT-15 | R1\PS705745 | 24 | 33 |
| | IT-15 | R1\PS701079 | 26 | 542 |
| | IT-15 | R1\PS713301 | 26 | 110 |
| | IT-15 | R1\PS817183 | 26 | 156 |
| | IT-15 | R1\PS721249 | 26 | 75 |
| | | | TOTAL | 9745 |
| | IT-16 | 3\PS441521 | 90 | 23 |
| | IT-16 | 2\PS543417 | 88 | 1712 |
| | | | TOTAL | 1735 |
| | IT-17 | 2\PS410948 | 100 | 613 |
| | IT-17 | 3\PS414897 | 95 | 337 |
| | | | TOTAL | 950 |
| | IT-18 | 1\TP117962 | 116 | 182 |
| | IT-18 | 1\PS300617 | 117 | 2694 |
| | IT-18 | 2\LP136316 | 96 | 101 |
| | IT-18 | 1\TP189113 | 97 | 325 |
| | IT-18 | 1\PS438336 | 119 | 1907 |
| | | | TOTAL | 5209 |
| | IT-20 | 4\LP208087 | 55 | 46 |
| | IT-20 | 10\LP146147 | 77 | 2519 |
| | IT-20 | 1\LP208087 | 56 | 49 |
| | IT-20 | 9\LP115214 | 54 | 1684 |
| | IT-20 | 2\PS515962 | 53 | 865 |
| | IT-20 | 11\LP146147 | 69 | 7789 |
| | IT-20 | 7\LP129316 | 65 | 1709 |
| | | | TOTAL | 14661 |
| | IT-21 | 5\LP146148 | 81 | 8571 |
| | IT-21 | 1\PS435183 | 82 | 1712 |
| | IT-21 | 3\LP146148 | 72 | 2078 |
| | IT-21 | 4\LP146148 | 73 | 8569 |
| | | | TOTAL | 20930 |
| | IT-22 | 5\LP208087 | 57 | 17826 |
| | IT-22 | 4\LP208087 | 55 | 722 |
| | | | TOTAL | 18548 |
| | IT-23 | EA\PS828064 | Outside PSP | 7065 |

| | | | | |
|--|-------|---------------|--------------|--------------|
| | IT-23 | EA\PS828064 | 29 | 9292 |
| | | | TOTAL | 16357 |
| | IT-25 | R1\PS822264 | 62 | 3132 |
| | IT-25 | PC371993 | 38 | 1376 |
| | | | TOTAL | 4508 |
| | IT-26 | 3\LP129316 | 64 | 7226 |
| | IT-26 | 1\PS515962 | 52 | 585 |
| | IT-26 | 1\PS515336 | 41 | 1028 |
| | IT-26 | 2\LP129316 | 63 | 1795 |
| | | | TOTAL | 10634 |
| | IT-27 | R1\PS721249 | 26 | 351 |
| | IT-27 | R1\PS817181 | 26 | 932 |
| | IT-27 | R1\PS833859 | 26 | 1091 |
| | IT-27 | 4\LP111799 | 34 | 2177 |
| | IT-27 | 1\PS518409 | 42 | 1036 |
| | IT-27 | R2\PS817194 | 26 | 48 |
| | | | TOTAL | 5635 |
| | IT-28 | DY\PS828064 | 28 | 3778 |
| | IT-28 | 1\LP115214 | 44 | 6108 |
| | | | TOTAL | 9886 |
| | IT-29 | 3\PS438336 | 124 | 362 |
| | IT-29 | 1\PS431980 | 123 | 895 |
| | | | TOTAL | 1257 |
| | RD-02 | R2\PS811249 | 2 | 17927 |
| | | | TOTAL | 17927 |
| | RD-03 | R3\PS811249 | 2 | 4735 |
| | RD-03 | R1\PS813559 | 7 | 57 |
| | RD-03 | R1\PS803175 | 6 | 1705 |
| | RD-03 | R1\PS813564 | 7 | 26 |
| | | | TOTAL | 6523 |
| | RD-04 | R1\PS813564 | 7 | 384 |
| | RD-04 | RES1\PS841661 | 7 | 93 |
| | RD-04 | R1\PS640644 | 8 | 115 |
| | RD-04 | R1\PS832759 | 8 | 176 |
| | RD-04 | R4\PS640644 | 8 | 342 |
| | RD-04 | RES5\PS640644 | 8 | 71 |
| | RD-04 | EA\PS828064 | 29 | 41 |
| | RD-04 | L\PS813104 | 146 | 4940 |
| | RD-04 | R7\PS640644 | 10 | 2287 |
| | RD-04 | R1\PS832757 | 10 | 186 |
| | RD-04 | 1\PS422772 | 11 | 908 |
| | RD-04 | 2\PS422772 | 12 | 1474 |
| | RD-04 | 3\PS422772 | 13 | 4486 |
| | RD-04 | 4\PS422772 | 14 | 25 |
| | RD-04 | 1\TP372474 | 147 | 1410 |
| | RD-04 | L\PS813104 | 147 | 3971 |
| | | | TOTAL | 20909 |
| | RD-05 | EA\PS828064 | Outside PSP | 3198 |
| | | | TOTAL | 3198 |
| | RD-06 | EA\PS828064 | Outside PSP | 20215 |
| | RD-06 | EA\PS828064 | Property 29 | 12795 |
| | | | TOTAL | 33010 |

| | | | | |
|--|-------|--------------|-------------|--------------|
| | RD-07 | DZ\PS828064 | 29 | 7356 |
| | RD-07 | 5\LP208087 | 57 | 5873 |
| | RD-07 | 2\LP208087 | 58 | 14165 |
| | | TOTAL | | 27394 |
| | RD-08 | 9\LP146147 | 78 | 7792 |
| | RD-08 | 5\LP146148 | 81 | 6889 |
| | RD-08 | 4\LP146148 | 73 | 8567 |
| | RD-08 | 14\LP146147 | 76 | 18069 |
| | | TOTAL | | 41317 |
| | RD-11 | 10\LP146147 | 77 | 1582 |
| | RD-11 | 1\LP208087 | 56 | 30 |
| | RD-11 | 7\LP129316 | 65 | 3100 |
| | RD-11 | 3\LP129316 | 64 | 135 |
| | RD-11 | 2\LP129316 | 63 | 2906 |
| | RD-11 | R1\PS822264 | 62 | 3065 |
| | RD-11 | 1\PS515052 | 79 | 338 |
| | RD-11 | 2\PS515052 | 80 | 4788 |
| | | TOTAL | | 15944 |
| | RD-12 | R1\PS732578 | Outside PSP | 6637 |
| | RD-12 | 2\LP202585 | 128 | 1277 |
| | RD-12 | 1\LP202585 | 127 | 1303 |
| | RD-12 | 2\LP201653 | 128 | 123 |
| | RD-12 | R1\PS816927 | Outside PSP | 19950 |
| | RD-12 | R1\PS822719 | Outside PSP | 9119 |
| | | TOTAL | | 38409 |
| | RD-14 | 3\PS438336 | 124 | 2899 |
| | | TOTAL | | 2899 |
| | RD-15 | 1\TP117962 | 116 | 110 |
| | RD-15 | 1\PS438336 | 119 | 1176 |
| | RD-15 | 1\PS431981 | 121 | 3087 |
| | | TOTAL | | 4373 |
| | RD-16 | 1\PS431980 | 123B | 129 |
| | | TOTAL | | 129 |
| | RD-17 | DZ\PS828064 | 29 | 3549 |
| | RD-17 | R1\PS817474 | 30 | 5295 |
| | RD-17 | 5\PS817483 | 30 | 165 |
| | RD-17 | 2\LP111799 | 31 | 255 |
| | RD-17 | R1\PS817181 | 26 | 300 |
| | RD-17 | 3\LP111799 | 33 | 387 |
| | RD-17 | R1\PS817183 | 26 | 133 |
| | RD-17 | R1\PS721249 | 26 | 1215 |
| | RD-17 | 4\LP111799 | 34 | 1440 |
| | RD-17 | 1\PS518409 | 42 | 821 |
| | RD-17 | R2\PS817194 | 26 | 291 |
| | RD-17 | R2\PS820453 | 27 | 324 |
| | RD-17 | DY\PS828064 | 28 | 576 |
| | RD-17 | CW\PS820453 | 28 | 29 |
| | RD-17 | 2\PS518409 | 43 | 2789 |
| | RD-17 | 1\LP115214 | 44 | 4615 |
| | | TOTAL | | 22184 |
| | RD-19 | 3\PS438336 | 124 | 19677 |
| | | TOTAL | | 19677 |

Project: TOOLERN PSP

Date: 16/03/2022

Issue : C

Status: ISSUE

| | | |
|--|-------------------------|--------|
| | TOTAL (m ²) | 527624 |
|--|-------------------------|--------|