creo civil
Suite 1/2 Bloomsbury Street,
Newtown, VIC, 3220

Our Ref: 240113-009-M-TM-Burnside Rd Widening Cost Estimate (REVB)
Contact: Tom Moorfoot

25 May 2026

Ramsey Property Group
P.O. Box 522
SOUTH YARRA VIC 3141

Attention: Samantha Ramsey

Dear Sam,

RE: Bannockburn South-East PSP/DCP - Cost Estimate Basis - Burnside Road Widening (REVB)

Introduction

On behalf of Ramsey Property Group, Creo Consultants have prepared a concept design and cost estimate for the widening of Burnside Road between the railway line and the Hamilton Highway intersection.

The cost estimates relate to the concept plans prepared by Creo Civil (dated 14 May 2026) and consider the existing conditions Road Safety Audit prepared by RSA Industries Pty Ltd (dated 23 April 2026).

Concept Design Rationale

In accordance with the Road Safety Audit undertaken for the existing conditions, the concept design incorporates the following key road safety improvements:

- **Road and Shoulder Widening (where practicable)**
  - Provision of 3.5 m travel lanes and 1.5 m sealed shoulders.
- **Installation of Road Safety Barrier**
  - Protection of power poles predominantly located on the western side of the road.
    - The Road Safety Audit identifies offsets ranging from 3.7 m to 4.6 m from the existing edge line.
  - Protection of large mature trees (greater than 300 mm trunk diameter).
  - Protection of steep roadside cuttings and embankments.
- **Sealing of Property Access Bellmouths and Installation of Driveable Endwalls to Culvert Crossings**
  - Reduction of loose stones on the pavement.
  - Mitigation of exposed drainage hazards adjacent to the roadway.
- **Augmentation of Existing Manholes and Valve Covers, predominantly within the eastern verge**
  - Removal of exposed roadside hazards.
- **Vegetation Removal and Trimming**
  - Reduction of roadside hazards.
  - Improvement of sight lines for vehicles entering and exiting adjoining properties.
- **Protection of Steep Cut and Fill Batters at the Main Culvert Crossing (Bruce Creek Tributary)**
  - Reduction of roadside hazards associated with steep embankments and drainage infrastructure.

The concept design allows for 2.0 m pavement widening on both sides of the carriageway to provide minimum 3.5 m traffic lanes and 1.5 m sealed shoulders. However, widening of the existing formation between CH2950 and CH3350 (approximately 400 m) is considered impractical due to significant cut and fill batters adjacent to the Bruce Creek Tributary crossing. For this section, the concept design instead includes an asphalt overlay to the existing 2 x 3.0 m pavement and installation of Type B safety barrier at a 1.0 m offset. We also recommend an 80km/hr posted speed zone through this section to reflect the alignment constraints (subject to DTP approval).

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Rates Background Data

In 2018, the Victorian Planning Authority (VPA) completed a Benchmark Infrastructure Costings (BIC) exercise to streamline future ICP preparation across growth areas in Victoria. The BIC rates, derived from a range of projects and locations, provide a robust and consistent basis for infrastructure cost estimation. Creo Civil considers these rates appropriate for adoption in cost estimates for DCP/ICP infrastructure projects. The BIC rates are published in 2018 dollars and indexed annually. The applicable indexation factor for 2025/26 is 1.32. Table 1 outlines the indexed P50 and P90 rates adopted for road and intersection cost estimation purposes.

Table 1 - Benchmark Infrastructure Costing Rates

VPA Benchmark Rates					
Group	**Sub Item**	**Indexation – 2018 Rates**	**2025/26 VPA P50 Rate**	**2025/26 VPA P90 Rate**	**Unit**
Siteworks/ Earthworks	Site Preparation	1.32	$4.86	$6.55	m2
	Earthworks (All Inclusive)	1.32	$44.97	$53.49	m3
Road Pavement	Primary Arterial Pavement	1.32	$223.90	$245.86	m2
	Secondary Arterial Pavement	1.32	$167.65	$176.59	m2
	Collector Arterial Pavement	1.32	$138.80	$148.42	m2
	Subgrade Preparation	1.32	$18.77	$21.33	m2
Concrete Works	Kerb and Channel	1.32	$72.35	$80.39	m
	Cycle Path	1.32	$101.10	$121.36	m2
	SUP/ Footpath	1.32	$83.83	$97.19	m2
	Traffic Island	1.32	$102.43	$110.97	m2
Drainage	Drainage Pipe 300mm CR Bfilled	1.32	$237.40	$261.31	m
	Drainage Pipe 375mm CR Bfilled	1.32	$342.01	$373.51	m
	Drainage Pipe 450mm CR Bfilled	1.32	$395.25	$441.32	m
	Drainage - pits	1.32	$3,386.31	$3,704.05	No.
	Drainage – Sub-soil drainage	1.32	$44.72	$57.29	m
Traffic signals	Traffic Signals (all inclusive)	1.32	$144,843.97	$169,997.97	Item/Per Leg
Landscape	Tree Planting	1.32	$400.41	$479.17	No.
	Landscaping	1.32	$28.53	$33.21	m2
	Topsoil Seeding	1.32	$9.52	$11.14	m2
Street Lighting	Street Lighting - Intersections	1.32	$63,978.99	$73,415.42	Item/Per Leg
Misc.	Regulatory Signage	1.32	$446.73	$502.11	Item
	Line marking	1.32	$4.11	$5.40	m2 of Pavement
	Landscape maintenance (intersections)	1.32	$94,174.95	$116,333.49	Item
	Landscape maintenance (road)	1.32	$3.83	$3.91	m^2
	Tactile Pavers (Hazard Only)	1.32	$386.01	$422.11	Item
Delivery	Council Fees	N/A	3.25	3.25	%
	VicRoads Fees	N/A	1.00	1.00	%
	Traffic Management	N/A	5.00	5.00	%
	Environmental Management	N/A	0.50	0.50	%
	Surveying and Design	N/A	5.00	5.00	%
	Supervision and Project management	N/A	9.00	9.00	%
	Site Establishment	N/A	2.50	2.50	%
	Contingency	N/A	15.00	15.00	%

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Adopted Quantities

The quantities adopted within the cost estimate are based on the scope of works described in the "Concept Design Rationale" section above and the assumptions listed in Table 2 below.

Table 2 – Adopted Quantities

Category	Sub Item	Adopted Rate	Unit	Basis
Siteworks / Earthworks	Site Preparation	18,600	m2	3.1 km length (widening locations only) x 6 m width (3m pavement, 3m verge)
	Earthworks (All Inclusive) -	15,390	m3	3.1 km length x 10m width (widening locations only) + 400m length x 8m width (constrained section) x 0.45m depth (boxing depth)
New Road Pavement	Rural Arterial Pavement	34,200	m2	3.1 km length x 10m width (widening locations only) + 400m length x 8m width (constrained section)
	Asphalt Overlay to existing lanes (all locations)	0	m2	N/A
	Subgrade Preparation	34,200	m2	3.1 km length x 10m width (widening locations only) + 400m length x 8m width (constrained section)
Property Access Works	Driveway culverts including driveable Endwalls (DN300 assumed)	26	Item	26 existing property accesses. Allowed for 2 x driveable Endwalls & 10m DN300 pipe at each location
	40mm Type V Asphalt-Driveway Bellmouth	26	Item	Allowed for 50 m^2 (ave) at each location
Concrete Works	Kerb and channel	N/A	m	Not Required. Use existing table drains
Drainage Works	Drainage Pipe 450mm CR Bfilled Road Crossings	4	Item	Assume 4 x Road crossings, 15m length with two driveable Endwalls
	Re-Grading of Table Drains	6,200	m	Assume 3.1km length on both sides of road
	Drainage – Sub-soil drainage	0	m	N/A
Landscape	Topsoil Seeding	12,400	m2	Allowance for topsoil seeding to 2m width of verge adjacent to each widening. (3.1km x 4)
Miscellaneous	Regulatory Signage	10	Item	Allowance for 10 signs (namely speed signs)
	Roadside Safety Barrier (EzyGuard Flexible W-Beam or Type B)	1,620	m	Quantity based on concept design plans, excludes 15 m GREAT terminal length. Total protect length including terminals is 2,670m.
	Safety Barrier End Terminals (GREAT Terminal)	70	Item	Quantity as per concept design plans. 15 m (terminal length) deducted from barrier quantities (forming part of total barrier length)
	Line marking	24,500	m2 of Pavement	Assume Linemarking to 7m width (3.5 m lanes) for 3.5km length of pavement
Other	Electrical overhead relocation poles (</=22kV)	2	No.	2 Property service poles on east side of road to be removed.
	DN100 AC Water Main - Augmentation of Existing Valve Pits Located in Eastern Verge	3	Item	3 air valve/fire plug above ground pits to be augmented to be flush with ground level.
	Tree/vegetation removal	100	Item	Assume 100 trees to be removed in total
	Tree Trimming	1,000	m	Assume 1,000 lin.m of pine trees/scrub to be trimmed
	Pavement removal	24,500	m2	Assume 3.5km x 6m width of existing surface to be removed prior to asphalt overlay
Delivery Costs (% construction cost)	Council Fees	1.00	Item	Refer to % Construction Cost applied in Table 3
	VicRoads Fees	1.00	Item	
	Traffic Management	1.00	Item	
	Environmental Management	1.00	Item	

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	Surveying and Design	1.00	Item	
	Supervision and Project management	1.00	Item	
	Site Establishment	1.00	Item	
	Contingency	1.00	Item	

Adopted Rates

Creo Civil notes that the VPA BIC rates do not account for site-specific adjustments. The adopted rates outlined in Table 3 have been informed by local road & subdivision experience within the Geelong and Golden Plains Shire region.

Table 3 - Adopted Rates

Category	Sub Item	Adopted Rate	Unit	Basis
Siteworks / Earthworks	Site Preparation	$6.55	m2	Adopt VPA P90 Rate
	Earthworks (All Inclusive) -	$53.49	m3	Adopt VPA P90 Rate
New Road Pavement	Rural Arterial Pavement	$176.59	m2	Refer below section
	Asphalt Overlay to existing lanes (all locations)	$35.00	m2	Based on local market rates and asphalt contractor discussion
	Subgrade Preparation	$21.33	m2	Adopt VPA P90 Rate
Property Access Works	Driveway culverts including driveable Endwalls (DN300 assumed)	$7,500.00	Item	Based on local market rates
	40mm Type V Asphalt-Driveway Bellmouth	$3,750.00	Item	Based on local market rates and asphalt contractor discussion
Concrete Works	Kerb and channel	N/A	m	Not required
Drainage Works	Drainage Pipe 450mm CR Bfilled Road Crossings	$15,000.00	Item	Based on local market rates
	Re-Grading of Table Drains	$15.00	m	Based on local market rates
	Drainage – Sub-soil drainage	N/A	m	Not required
Landscape	Topsoil Seeding	$11.14	m2	Adopt VPA P90 Rate
Miscellaneous	Regulatory Signage	$502.11	Item	Adopt VPA P90 Rate
	Roadside Safety Barrier (EzyGuard Flexible W-Beam or Type B)	$246.97	m	Adopt VPA P50 Rate
	Safety Barrier End Terminals (GREAT Terminal)	$11,572.99	Item	Adopt VPA P50 Rate
	Line marking	$5.40	m2 of Pavement	Adopt VPA P50 Rate
Other	Electrical overhead relocation poles (</=22kV)	$40,000.00	No.	Adopt rate based on local industry market rate (Powercor Option 1 works)
	DN100 AC Water Main - Augmentation of Existing Valve Pits Located in Eastern Verge	$10,000.00	Item	Adopt rate based on local industry market rate (specialist water contractor)
	Tree/vegetation removal	$1,000.00	Item	Adopt rate based on local industry market rate / expected duration of works
	Tree Trimming	$100.00	m	Adopt rate based on local industry market rate / expected duration of works
	Pavement removal	$10.00	m2	Adopt rate based on local industry market rate / expected duration of works
Delivery Costs (% const. cost)	Council Fees	3.25 %	Item	
	VicRoads Fees	0 %	Item	Not required. Council Road

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	Traffic Management	7.50 %	Item	Increase above VPA BIC rate to allow long linear alignment and expected contraflow to keep road open and functional
	Environmental Management	5.00 %	Item	Increase above VPA BIC rate to allow for additional environmental management associated with vegetation protection & long linear alignment
	Surveying and Design	5.00 %	Item	Per VPA BIC Rate
	Supervision and Project management	9.00 %	Item	Per VPA BIC Rate
	Site Establishment	2.50 %	Item	Per VPA BIC Rate
	Contingency	20.00 %	Item	Increased to 20% to be consistent with other BSEDCP projects

Rural Arterial Pavement

For cost estimation purposes, and in line with GPSC comments, the following pavement profile has been adopted:

- Wearing Course: 40mm Type H Asphalt
- Prime
- Base Course: 150mm compacted depth of Class 2 Crushed Rock
- Subbase Course: 250mm compacted depth of Class 3 Crushed Rock, placed and compacted in two layers

The rates for these pavement layers have been derived from local greenfield subdivision rates and are summarised in Table 4 below.

Table 4 - Rates for Rural Arterial Pavement Construction

Item	Per m2 Rate
40mm Type H Asphalt	$31.00
Prime	$4.00
150mm Compacted Depth Class 2 Crushed Rock	$20.00
250mm Compacted Depth Class 3 Crushed Rock	$35.00
Total	**$90.00**

It is noted that, based on local experience, the subgrade preparation allowance included in the estimate, consistent with VPA BIC P90, is considered sufficient to cover typical subgrade improvement options, including:

- 300mm insitu lime/cement stabilisation; and
- removal and replacement with VicRoads Type A material to a depth of 300mm, including excavation and disposal of unsuitable material.

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Conclusion

In summary, the concept design and cost estimate prepared for the Burnside Road widening project provide a preliminary assessment of the likely infrastructure scope and associated delivery costs based on the available information and concept-level investigations.

Any future detailed design and refined cost estimates will be subject to further investigations and approvals, including detailed feature and level survey, 3D road design, safety barrier design by an accredited road safety barrier consultant, consideration of detailed design Road Safety Audit findings, and review, comments, and approvals from the relevant authorities

Please don't hesitate to call or email me if you have any further queries.

Yours sincerely,
Creo Civil Consultants



Tom Moorfoot
Principal
Ph: 0414 704 868
Em: tom.moorfoot@creocivil.com.au

BURNSIDE RD - BANNOCKBURN

PAVEMENT WIDENING

CONCEPT DESIGN

◀ INVERLEIGH



GEELONG ▶

LOCALITY PLAN
N.T.S.

WARNING

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PROJECT

BANNOCKBURN DEVELOPMENT
BURNSIDE RD ROAD WIDENING

DRAWING TITLE

BURNSIDE RD ROAD WIDENING
CONCEPT DESIGN
LOCALITY PLAN

REGISTERED ENGINEER
NAME: J.RAMSAY
PE REG. NO: PE0015586
LOCAL AUTHORITY: GOLDEN PLAINS SHIRE COUNCIL
PLANNING PERMIT No: TBC

STATUS

PRELIMINARY
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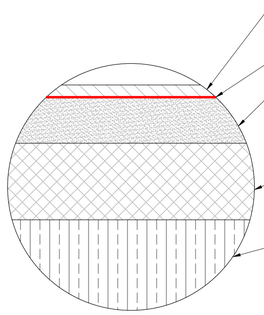
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DRAWN	PROJECT MANAGER
M.SURRAO	T.MOORFOOT

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ASPHALT (WEARING) COURSE:
40mm COMPACTED DEPTH TYPE H ASPHALT

PRIME

BASE COURSE:
150mm COMPACTED DEPTH CLASS 2
CRUSHED ROCK

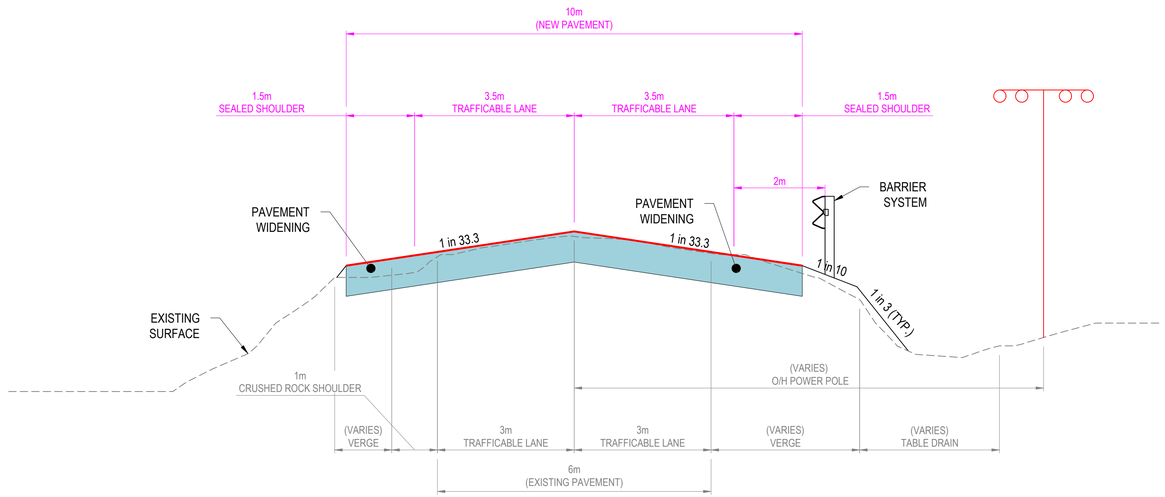
SUBBASE COURSE:
250mm COMPACTED DEPTH CLASS 3
CRUSHED ROCK

SUBGRADE IMPROVEMENT:
300mm REMOVE AND REPLACE WITH VICROADS TYPE A
OR
300mm DEPTH INSITU STABILISATION WITH LIME/CEMENT

FULL DEPTH PAVEMENT

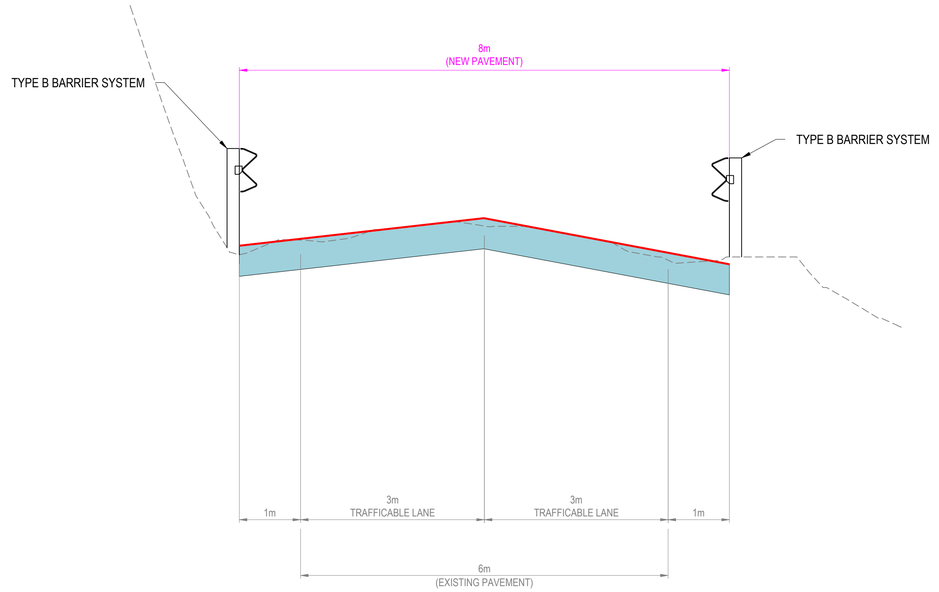
PAVEMENT COMPOSITION

BURNSIDE ROAD
440mm DEPTH



TYPICAL CROSS SECTION BURNSIDE RD CH0 - CH2950 & CH3350 - CH3498 PAVEMENT WIDENING
EXISTING 20m ROAD RESERVE - (APPROX.)

NOT TO SCALE



TYPICAL CROSS SECTION BURNSIDE RD CH2950 - CH3350 NO PAVEMENT WIDENING
EXISTING 20m ROAD RESERVE (APPROX.)

NOT TO SCALE

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BURNSIDE RD ROAD WIDENING

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BURNSIDE RD ROAD WIDENING
CONCEPT DESIGN
TYPICAL CROSS SECTIONS

REGISTERED ENGINEER
NAME: J.RAMSAY
PE REG. NO: PE0015586
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DRAWN	PROJECT MANAGER
M.SURRAO	T.MOORFOOT

PROJECT No.	DRAWING No.	REVISION
240113	G251	A

EXISTING SITE CONDITIONS CH2950 - CH3350 - NO PAVEMENT WIDENING DUE TO CONSTRAINED ROAD RESERVE



CH2950 - LOOKING SOUTH



APPROACH TO CULVERT (CH3000) - LOOKING SOUTH



CH3300 - LOOKING NORTH



APPROACH TO CULVERT (CH3250) - LOOKING NORTH

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BURNSIDE RD ROAD WIDENING

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BURNSIDE RD ROAD WIDENING
CONCEPT DESIGN
EXISTING CONDITIONS

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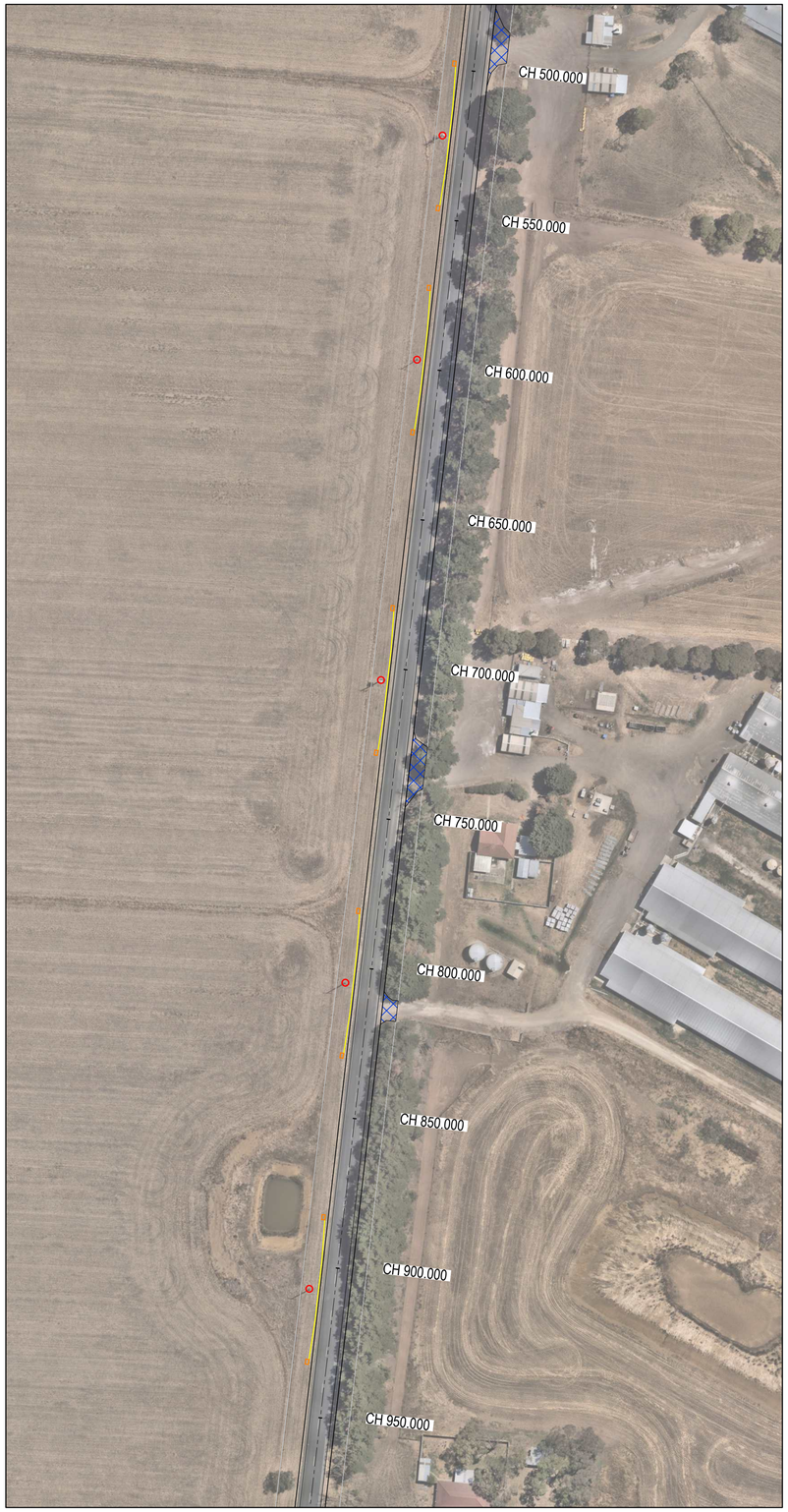
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M.SURRAO	T.MOORFOOT
PROJECT No.	**DRAWING No.** / **REVISION**
240113	**G252** / **A**



REFER ABOVE RIGHT VIEWPORT FOR CONTINUATION

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KEY SHEET

1:10000 100 0 100 200 300 400 500

LEGEND

- FLEXIBLE W-BEAM SAFETY BARRIER
- BARRIER END TERMINAL (G.R.E.A.T)
- TYPE B GUARD FENCE (VICROADS SD3661)
- EXISTING POWER POLE
- VEGETATION TO BE TRIMMED
- TREE REMOVAL/TRIMMING (<300mm DIA. TRUNKS)
- BELL-MOUTH SEAL TO PROPERTY BOUNDARY

NOTES:

- GUARD FENCE AND ROAD SAFETY BARRIER LOCATIONS ARE INDICATIVE ONLY
- FINAL ROAD SAFETY BARRIER DESIGN SHALL BE UNDERTAKEN BY A VICROADS PRE-QUALIFIED DESIGNER
- TREE REMOVAL/TRIMMING WITHIN ROAD RESERVE ON WESTERN SIDE (<300mm DIAMETER TRUNKS) REQUIRED BETWEEN CH1050.00 - CH1650.00
- VEGETATION TRIMMING REQUIRED ON PINE TREES GROWING INTO ROAD RESERVE ON EASTERN SIDE OF THE ROAD BETWEEN CH300.00 - CH2500.00
- POSTED SPEED LIMIT OF 100 KM/H SHALL BE RETAINED ALONG BURNSIDE RD UNLESS OTHERWISE INDICATED ON THE PLANS, SUBJECT TO DTP APPROVAL

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PROJECT: BANNOCKBURN DEVELOPMENT
BURNSIDE RD ROAD WIDENING

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CONCEPT DESIGN
ALIGNMENT PLAN - SH. 1

REGISTERED ENGINEER
NAME: J.RAMSAY
PE REG. NO: PE0015586
LOCAL AUTHORITY: GOLDEN PLAINS SHIRE COUNCIL
PLANNING PERMIT No: TBC

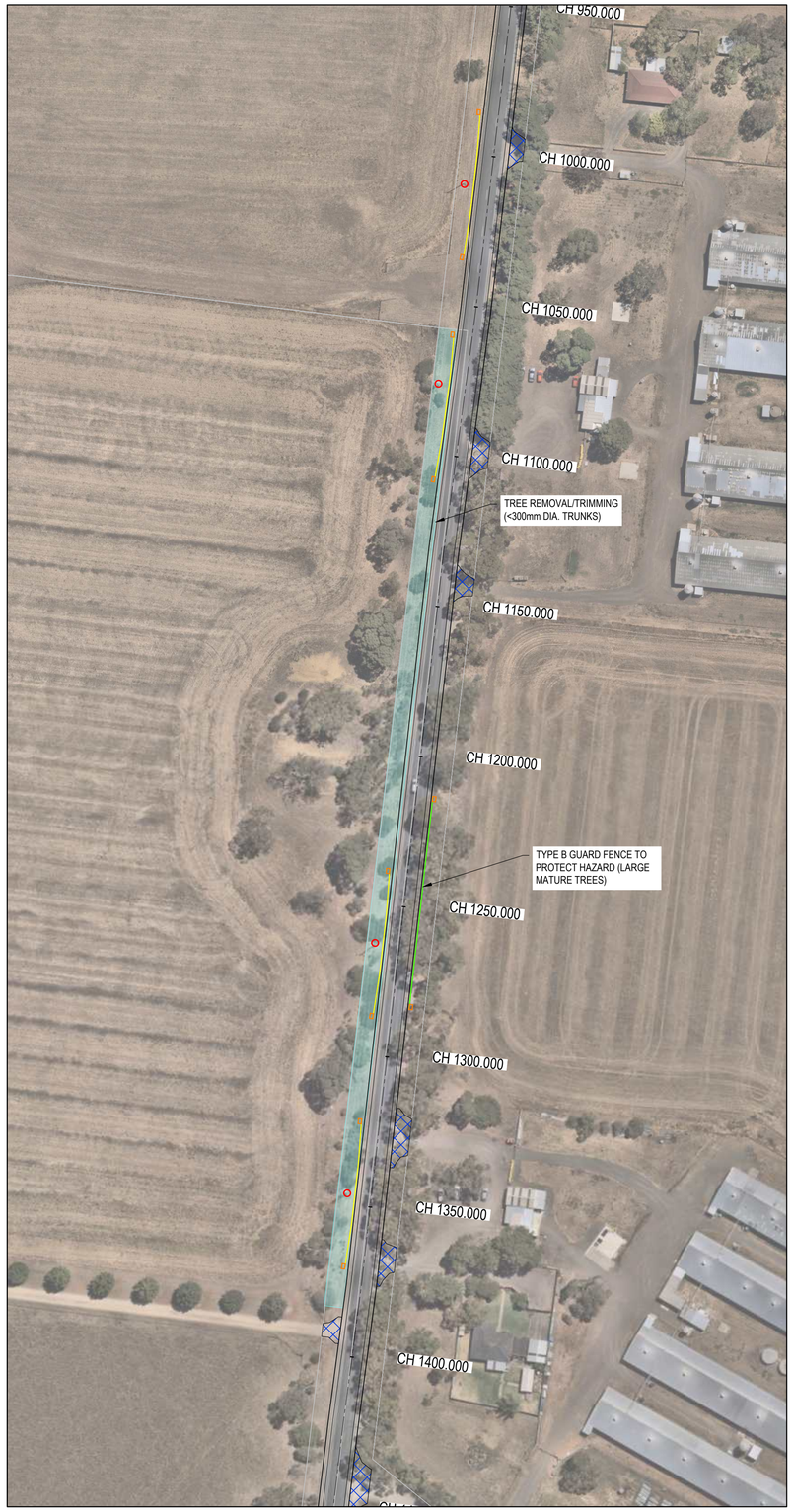
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M.SURRAO	T.MOORFOOT

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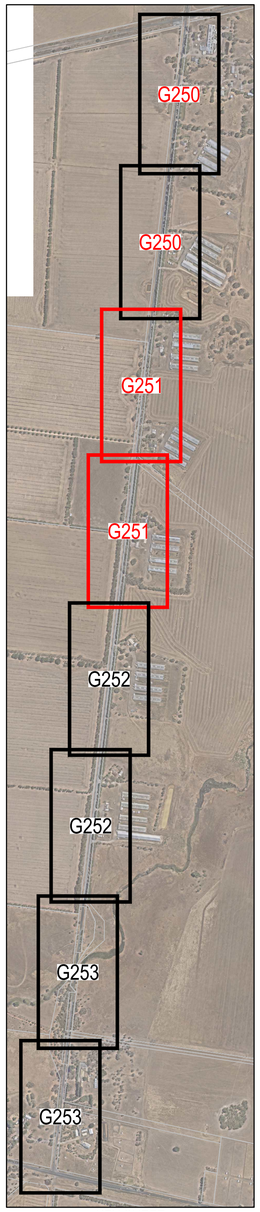


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- TREE REMOVAL/TRIMMING WITHIN ROAD RESERVE ON WESTERN SIDE (<300mm DIAMETER TRUNKS) REQUIRED BETWEEN CH1050.00 - CH1650.00
- VEGETATION TRIMMING REQUIRED ON PINE TREES GROWING INTO ROAD RESERVE ON EASTERN SIDE OF THE ROAD BETWEEN CH300.00 - CH2500.00
- POSTED SPEED LIMIT OF 100 KM/H SHALL BE RETAINED ALONG BURNSIDE RD UNLESS OTHERWISE INDICATED ON THE PLANS, SUBJECT TO DTP APPROVAL

WARNING

BEWARE OF UNDERGROUND & OVERHEAD SERVICES

THE LOCATIONS OF UNDERGROUND & OVERHEAD SERVICES ARE APPROXIMATE ONLY & THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN. LOCATE ALL UNDERGROUND SERVICES BEFORE COMMENCEMENT OF WORKS

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REVISION	DATE	ISSUE DESCRIPTION	DRAWN	CHECKED	APPROVED
B	25.05.26	FOR INFORMATION	M.S	M.T	M.T
A	14.05.26	FOR INFORMATION	M.S	T.M	T.M

CLIENT

RAMSEY PROPERTY GROUP.

creo civil

Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220

PRINTED BY: SVC 120 on 05/26/2026 at 16:45:00
CREO CIVIL FILE REF: 240113 - G250 - BURNSIDE RD

PROJECT

BANNOCKBURN DEVELOPMENT
BURNSIDE RD ROAD WIDENING

DRAWING TITLE

BURNSIDE RD ROAD WIDENING
CONCEPT DESIGN
ALIGNMENT PLAN - SH. 2

REGISTERED ENGINEER
NAME: J.RAMSAY
PE REG. NO: PE0015586
LOCAL AUTHORITY: GOLDEN PLAINS SHIRE COUNCIL
PLANNING PERMIT No: TBC

STATUS

PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:1000

10 0 10 20 30 40 50

N

DATUM (AHD): MGA2020 ZONE 55

DESIGNED	PROJECT ENGINEER
M.SURRAO	J.RAMSAY
DRAWN	PROJECT MANAGER
M.SURRAO	T.MOORFOOT

PROJECT No.	DRAWING No.	REVISION
240113	G254	A

REFER DRAWING NO. G251 FOR CONTINUATION

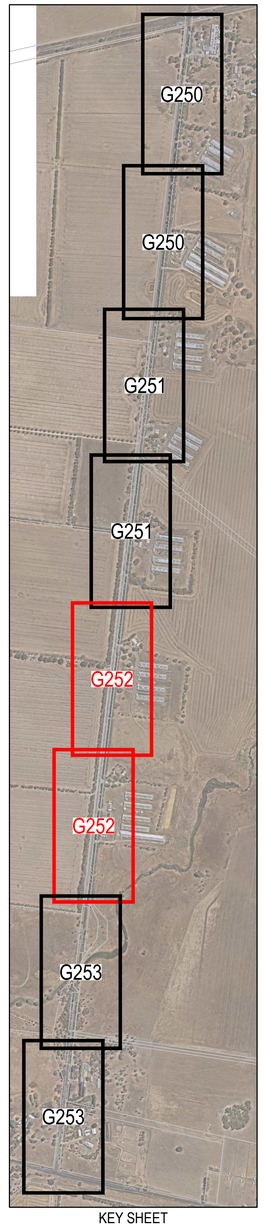


REFER ABOVE RIGHT VIEWPORT FOR CONTINUATION

REFER BELOW LEFT VIEWPORT FOR CONTINUATION



REFER DRAWING NO. G253 FOR CONTINUATION



KEY SHEET

1:10000 100 0 100 200 300 400 500

LEGEND

- FLEXIBLE W-BEAM SAFETY BARRIER
- BARRIER END TERMINAL (G.R.E.A.T)
- TYPE B GUARD FENCE (VICROADS SD3661)
- EXISTING POWER POLE
- VEGETATION TO BE TRIMMED
- TREE REMOVAL/TRIMMING (<300mm DIA. TRUNKS)
- BELL-MOUTH SEAL TO PROPERTY BOUNDARY

NOTES:

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A	14.05.26	FOR INFORMATION	M.S	T.M	T.M

CLIENT: RAMSEY PROPERTY GROUP.

creo CIVIL
Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220
PRINTED BY: SVC_12D on 05/25/2026 at 16:45:19
CREO CIVIL FILE REF: 240113 - G250 - BURNSIDE RD

PROJECT: BANNOCKBURN DEVELOPMENT
BURNSIDE RD ROAD WIDENING

DRAWING TITLE: BURNSIDE RD ROAD WIDENING
CONCEPT DESIGN
ALIGNMENT PLAN - SH. 3

REGISTERED ENGINEER
NAME: J.RAMSAY
PE REG. NO: PE0015586
LOCAL AUTHORITY: GOLDEN PLAINS SHIRE COUNCIL
PLANNING PERMIT No: TBC

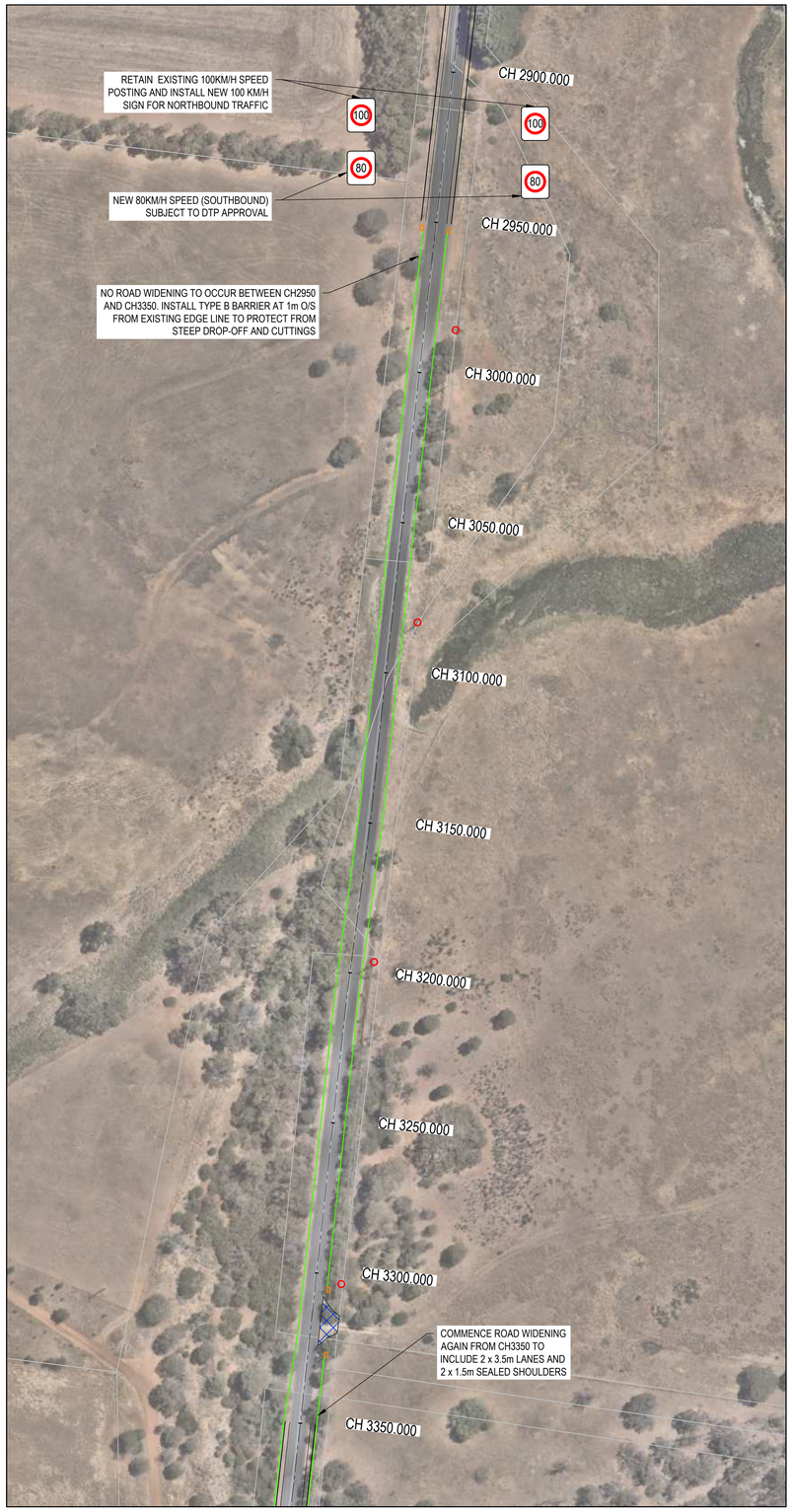
STATUS: PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:1000
10 0 10 20 30 40 50
N
DATUM (AHD): MGA2020 ZONE 55

DESIGNED	PROJECT ENGINEER
M.SURRAO	J.RAMSAY
DRAWN	PROJECT MANAGER
M.SURRAO	T.MOORFOOT

PROJECT No.	DRAWING No.	REVISION
240113	G255	A

REFER DRAWING NO. G252 FOR CONTINUATION



REFER ABOVE RIGHT VIEWPORT FOR CONTINUATION

REFER BELOW LEFT VIEWPORT FOR CONTINUATION





KEY SHEET

1:10000 100 0 100 200 300 400 500

LEGEND

- FLEXIBLE W-BEAM SAFETY BARRIER
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- TYPE B GUARD FENCE (VICROADS SD3661)
- EXISTING POWER POLE
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WARNING

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CLIENT: RAMSEY PROPERTY GROUP.

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Suite 1, 2 Bloomsbury Street
Newtown, VIC, Australia 3220
PRINTED BY: SVC, 12D on 05/25/2026 at 16:45:38
CREO CIVIL FILE REF: 240113 - G250 - BURNSIDE RD

PROJECT: BANNOCKBURN DEVELOPMENT
BURNSIDE RD ROAD WIDENING

DRAWING TITLE: BURNSIDE RD ROAD WIDENING
CONCEPT DESIGN
ALIGNMENT PLAN - SH. 4

REGISTERED ENGINEER
NAME: J.RAMSAY
PE REG. NO: PE0015586
LOCAL AUTHORITY: GOLDEN PLAINS SHIRE COUNCIL
PLANNING PERMIT No: TBC

STATUS: PRELIMINARY
NOT FOR CONSTRUCTION

SCALE @ A1 : 1:1000
10 0 10 20 30 40 50
N
DATUM (AHD): MGA2020 ZONE 55

DESIGNED	PROJECT ENGINEER
M.SURRAO	J.RAMSAY
DRAWN	PROJECT MANAGER
M.SURRAO	T.MOORFOOT

PROJECT No.	DRAWING No.	REVISION
240113	G256	A

creo civil
Sutit 1/2 Bloomsbury Street,
Newtown, VIC, 3220

PRELIMINARY COST ESTIMATE
BURNSIDE ROAD WIDENING/RECONSTRUCTION CONCEPT DESIGN
RAILWAY CROSSING TO HAMILTON HIGHWAY INTERSECTION

25/05/2026 | **REVB**

Group	Sub Item	Qty	Unit	Adopted Rate	Adopted Amount
Siteworks/ Earthworks	Site Preparation (3.1km - 3m extra pavement width, 3m extra verge for barrier and table drain 0.4 km - existing condition only)	18,600	m2	6.55	$ 121,778
	Earthworks (All Inclusive) - Full Pavement Boxing (3.1km x 10m width + 400m x 8m width) - 600mm depth assumed	15,390	m3	53.49	$ 823,156
New Road Pavement	Rural Arterial Pavement (3.1km x 10m width + 400m x 8m width)	34,200	m2	90.00	$ 3,078,000
	Asphalt Overlay to existing lanes (all locations) - Regulate & install 40 mm depth Type H Asphalt overlay (6 m width x 3.5km length)	0	m2	35.00	$ -
	Subgrade Preparation (3.1km x 10m width + 400m x 8m width)	34,200	m2	21.33	$ 729,527
Property Access Works	Driveway culverts including driveable endwalls (DN300 assumed)	26	Item	7,500.00	$ 195,000.00
	40mm Type V Asphalt- Driveway Bellmouth (ave 50m2 per entry)	26	Item	3,750.00	$ 97,500.00
Concrete Works	Kerb and Channel	N/A	m	80.39	N/A
Drainage	Drainage Pipe 450mm CR Bfilled - Allowance for Road Crossings + New Endwalls	4	Item	15,000.00	$ 60,000
	Re-Grading of Table Drains	6,200	m	15.00	$ 93,000
	Drainage – Sub-soil drainage	0	m	57.29	$ -
Landscape	Topsoil Seeding (2m width on each verge - 3.1 km length)	12,400	m2	11.14	$ 138,146
Misc.	Regulatory Signage	10	Item	502.11	$ 5,021
	Roadside Safety Barrier (EzyGuard Flexible W-Beam or Type B) including allowance for increased post spacing at hazard locations	1,620	m	246.97	$ 400,095
	Safety Barrier End Terminals (GREAT Terminal) Individual Terminal Length of 15 m not included in barrier quantities	70	Item	11,572.99	$ 810,110
	Line marking	21,000	m2 of Pavement	5.40	$ 113,375
Other	Electrical overhead relocation poles (</=22kV) - East side of road (property service poles)	2	No.	40,000.00	$ 80,000
	DN100 AC Water Main - Augmentation of Existing Valve Pits Located in Eastern Verge	3	Item	10,000.00	$ 30,000
	Tree/vegetation removal	100	Item	1,000.00	$ 100,000
	Tree Trimming	1,000	m	100.00	$ 100,000
	Pavement removal - allowance for sawcut and removal of all existing seal only.	24,500	m2	10.00	$ 245,000
Delivery (% of construction cost)	Council Fees	1.00	Item	3.25	$ 234,640
	VicRoads Fees	0.00	Item	-	$ -
	Traffic Management	1.00	Item	7.50	$ 541,478
	Environmental Management	1.00	Item	5.00	$ 360,985
	Surveying and Design	1.00	Item	5.00	$ 360,985
	Supervision and Project management	1.00	Item	9.00	$ 649,774
	Site Establishment	1.00	Item	2.50	$ 180,493
	Contingency	1.00	Item	20.00	$ 1,443,941
Total	**Excluding Delivery**				**$ 7,219,707**
	Including Delivery				**$ 10,992,004**