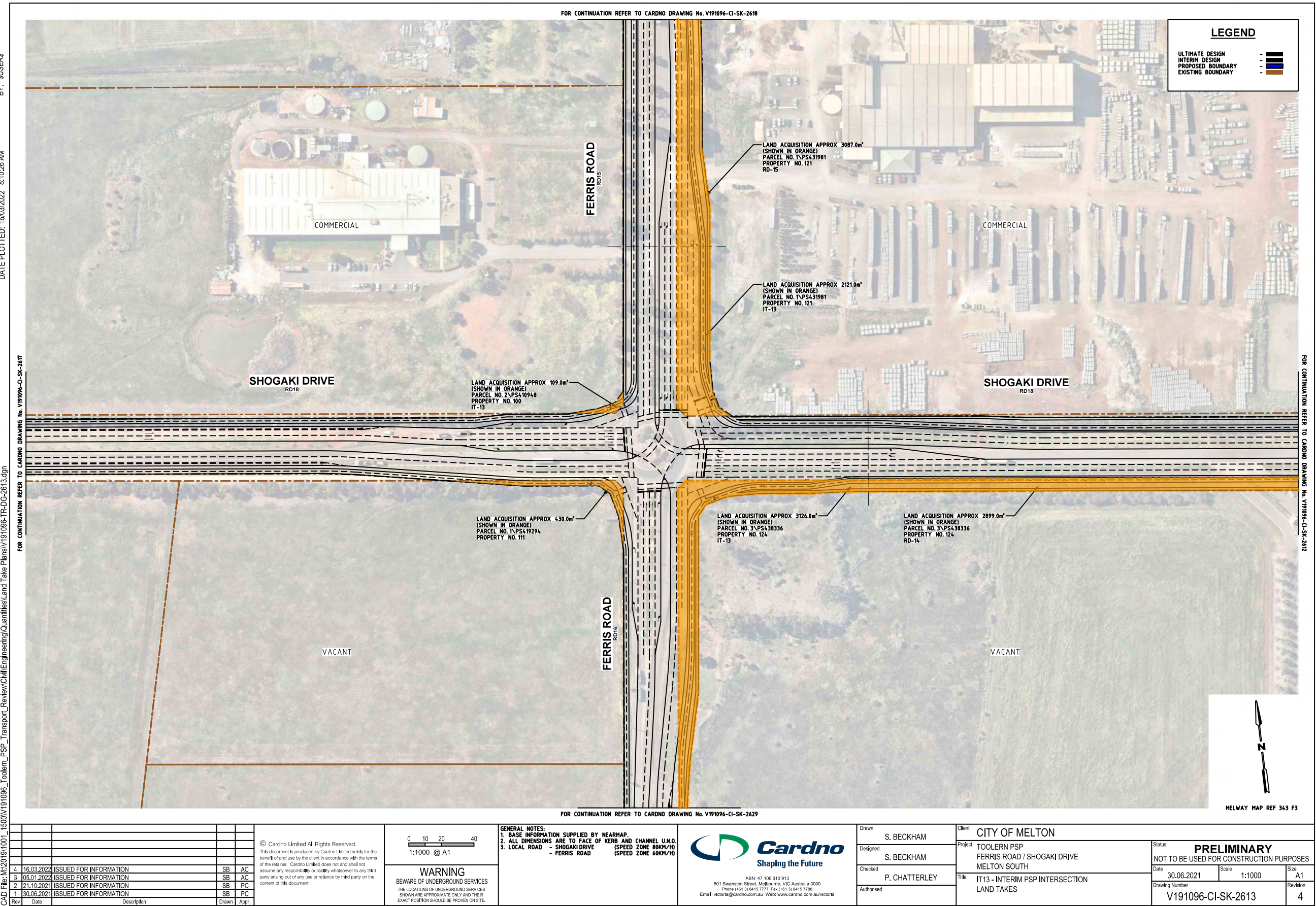
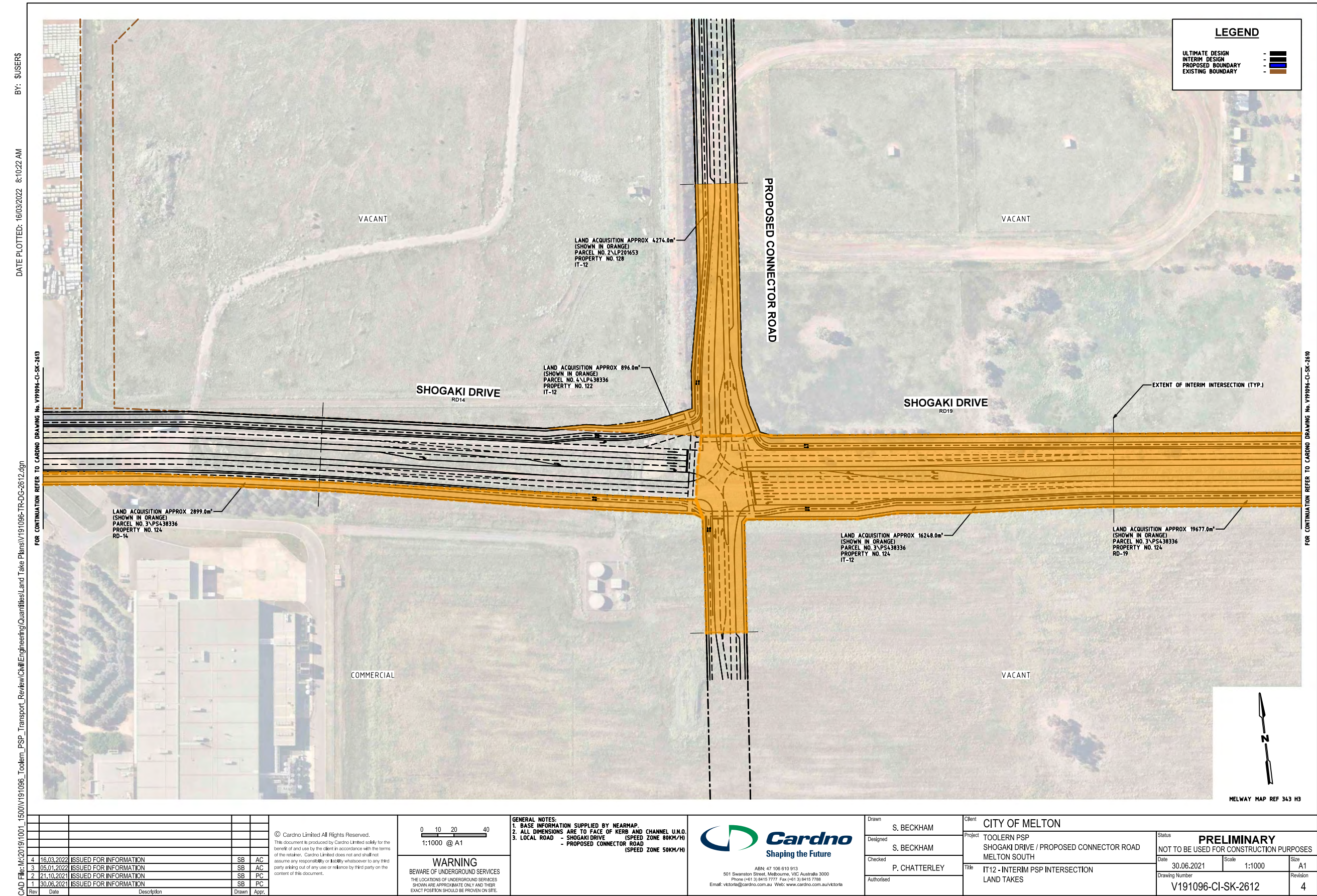
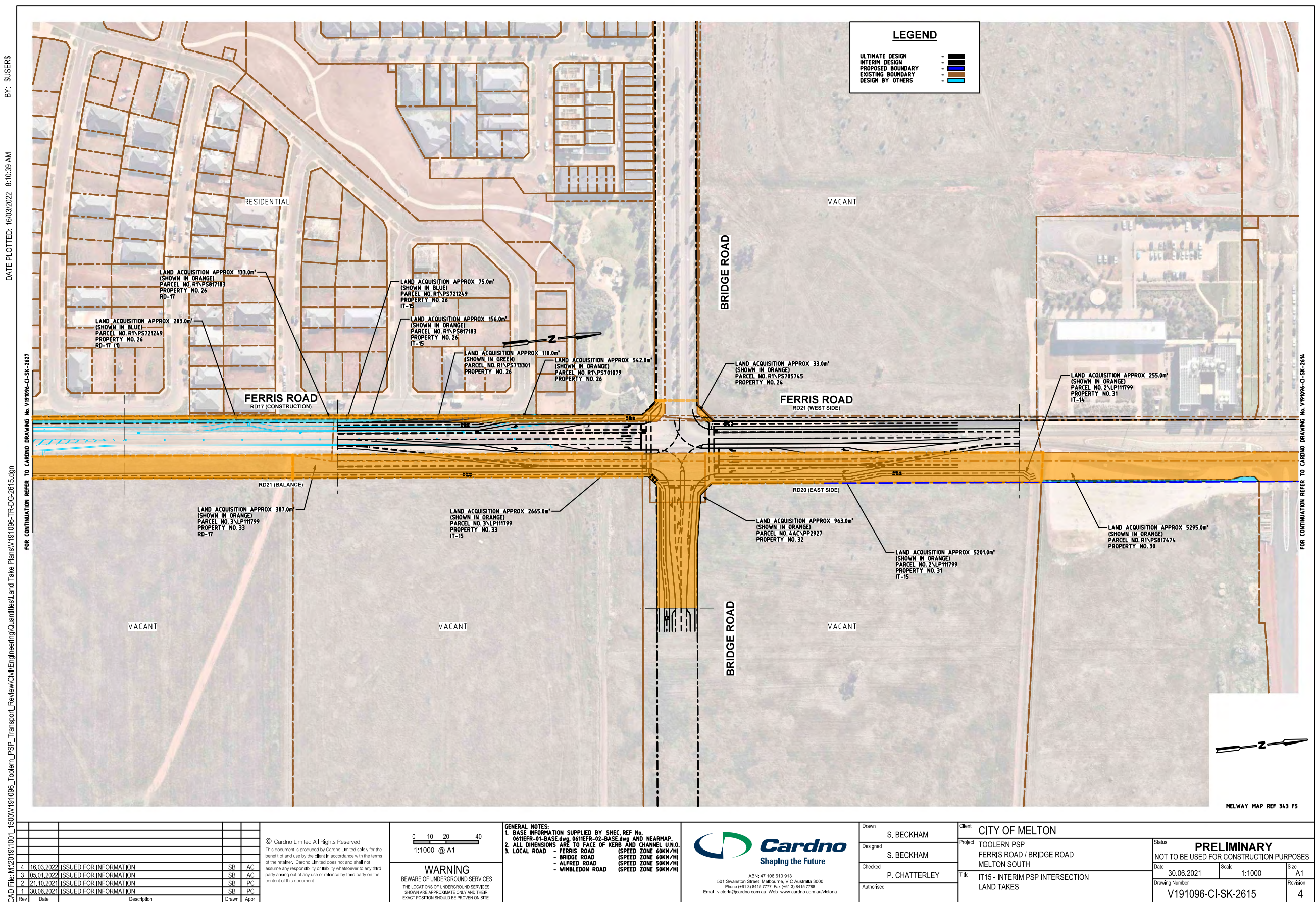
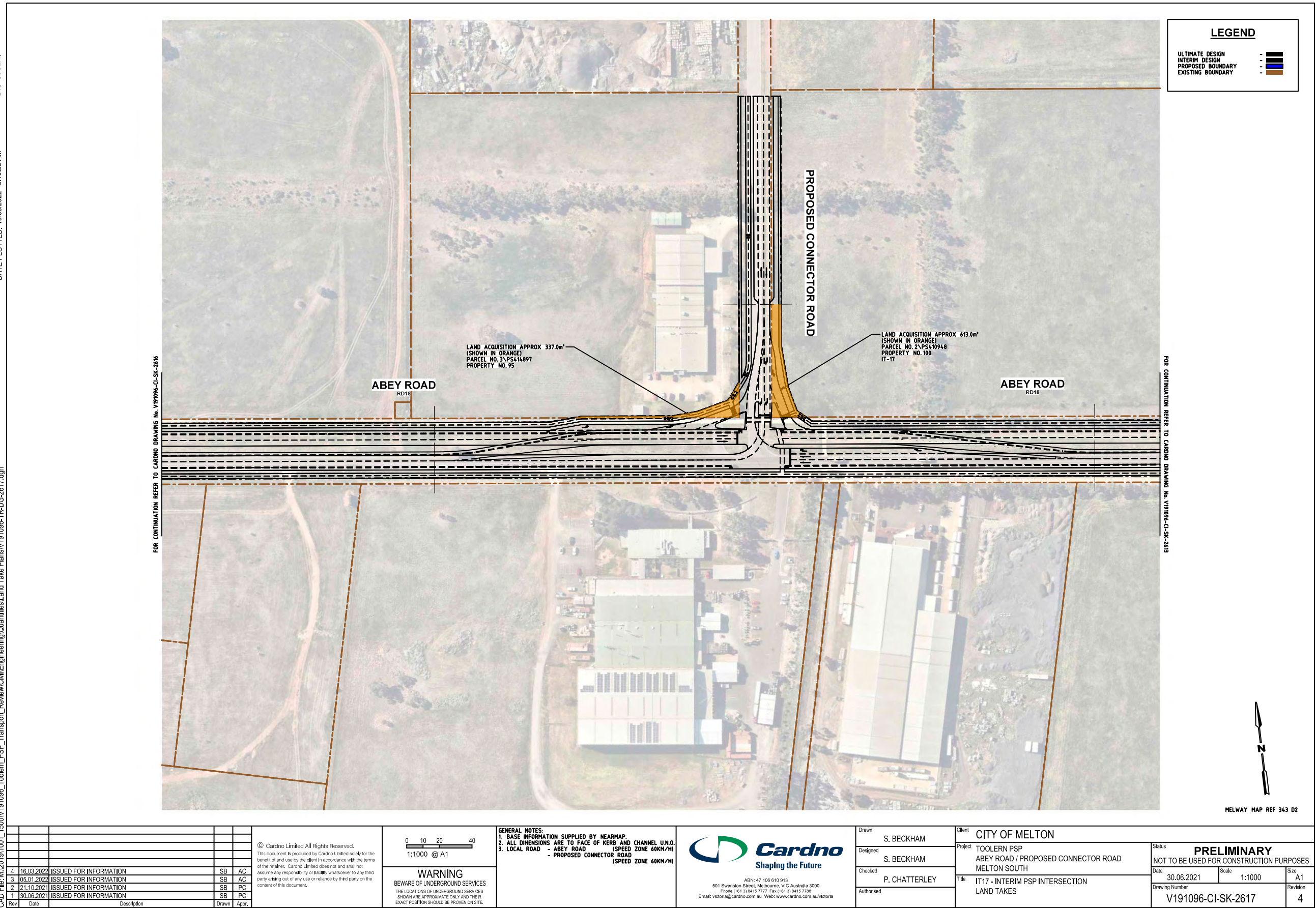
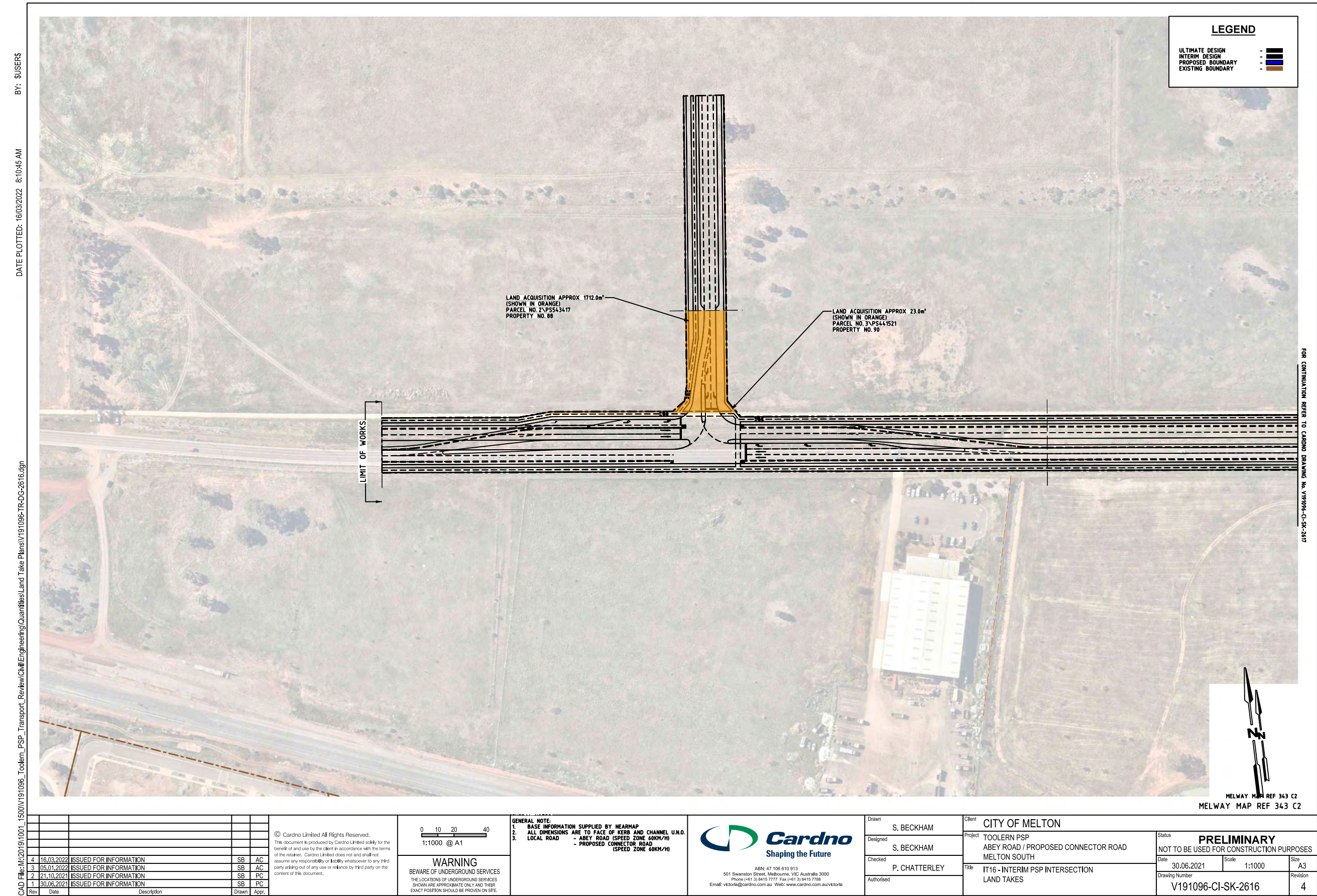
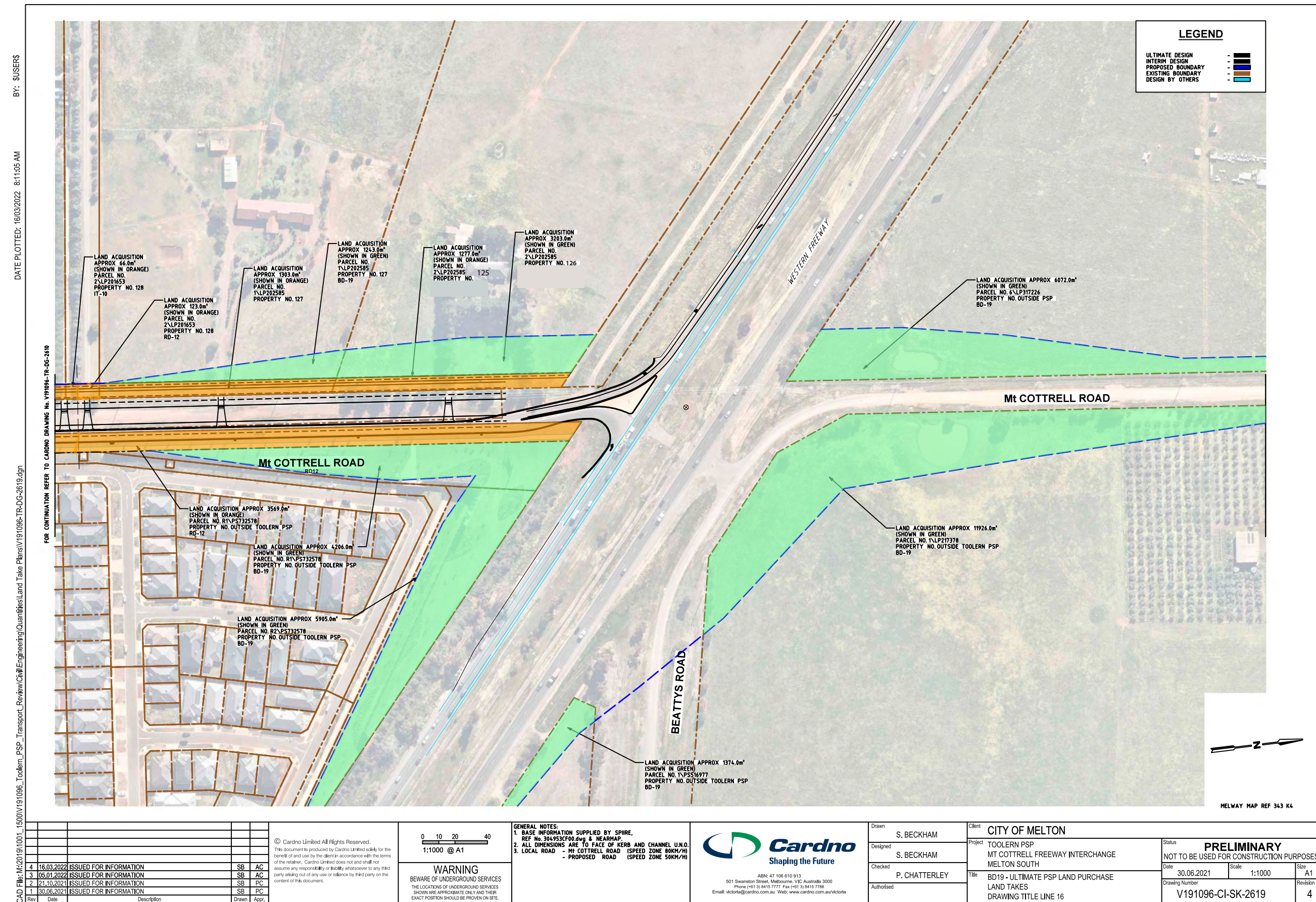
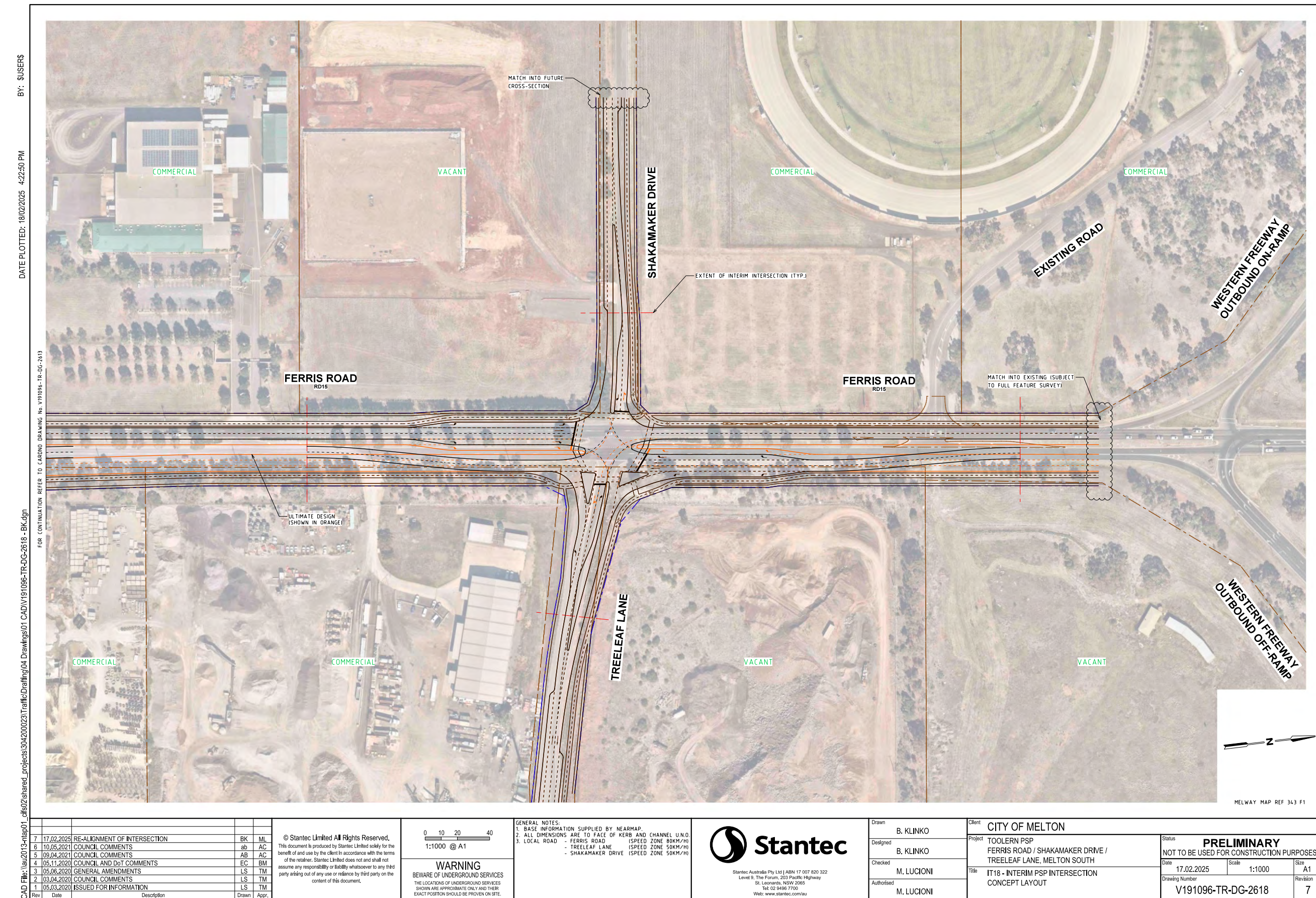
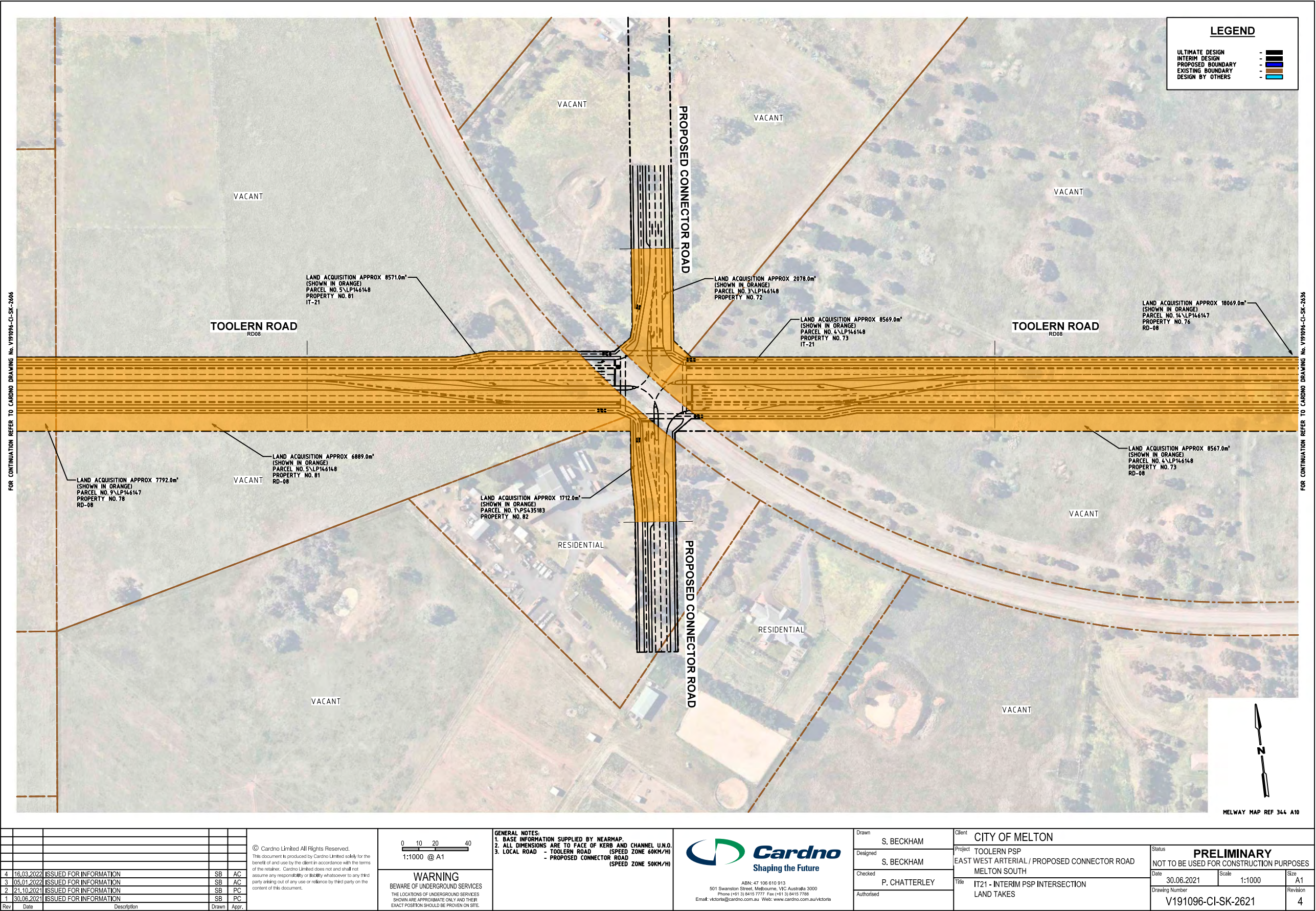
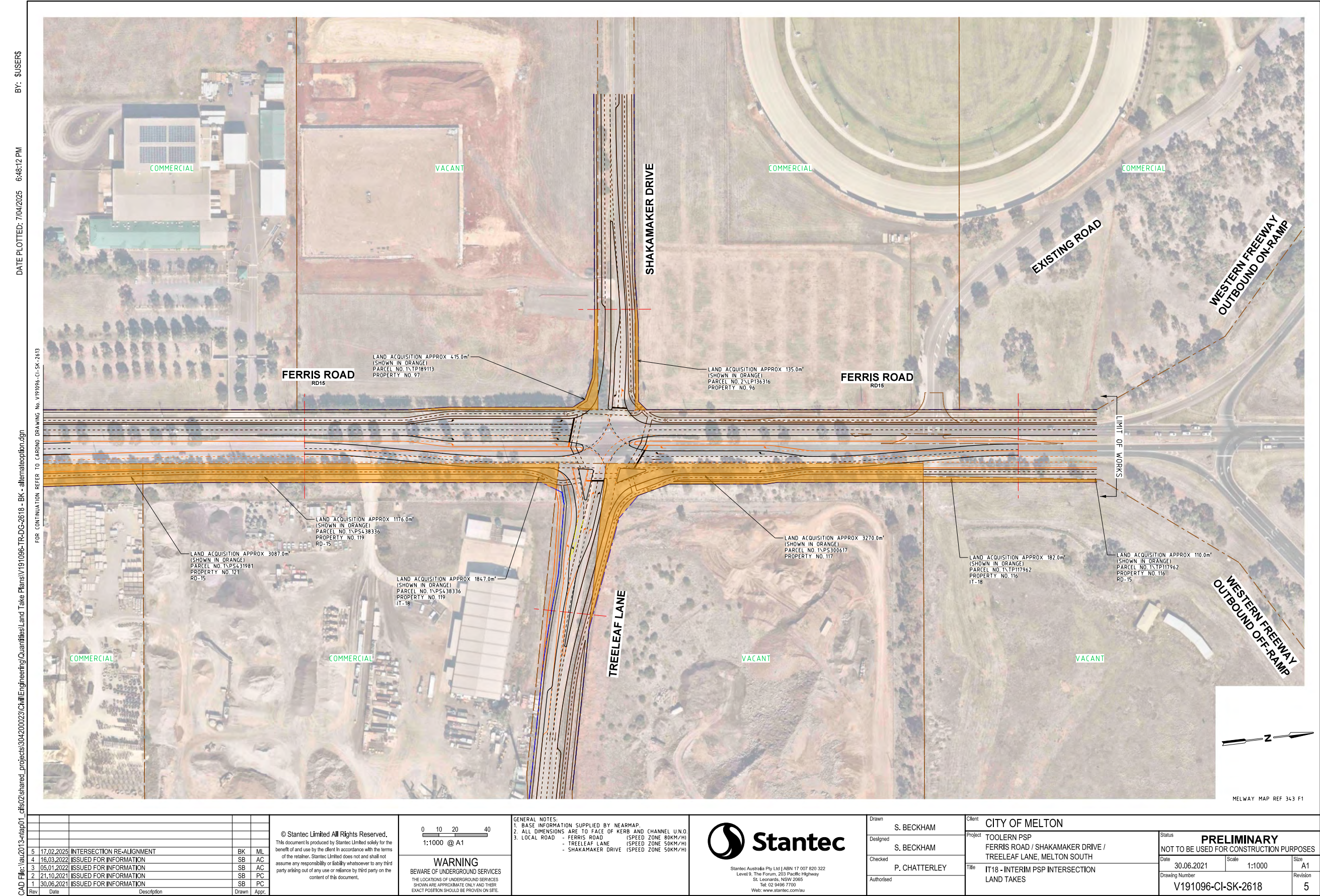


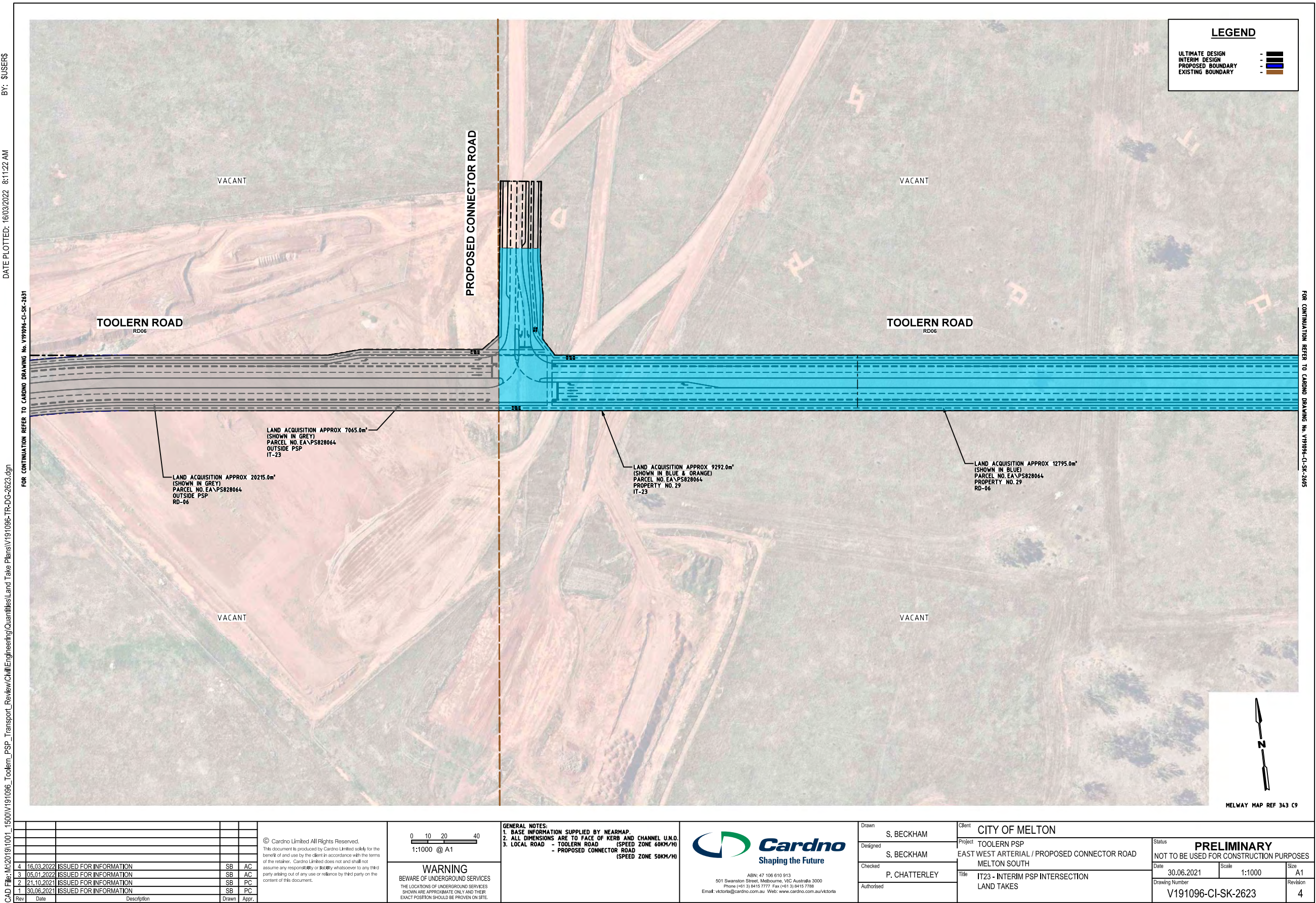
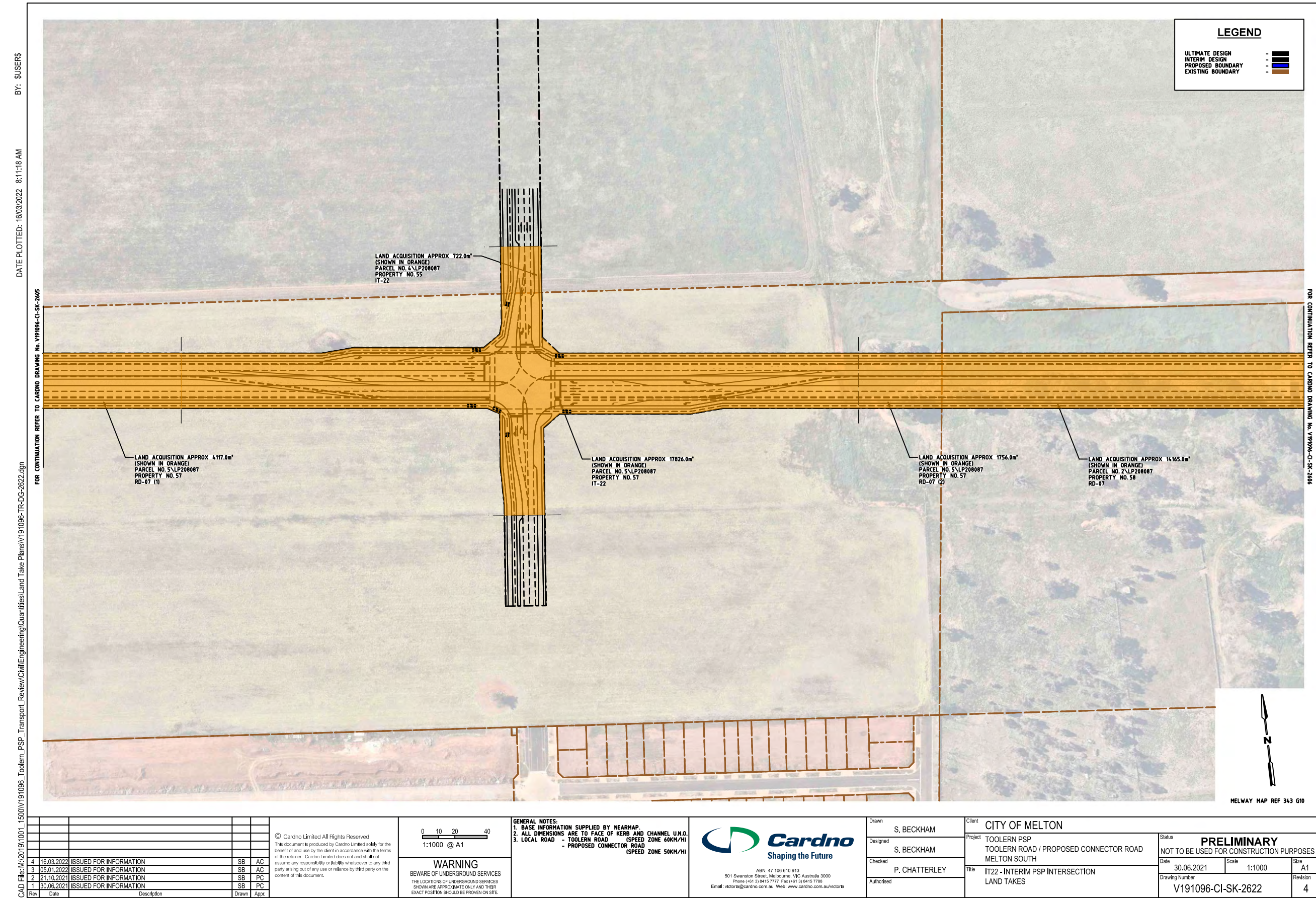


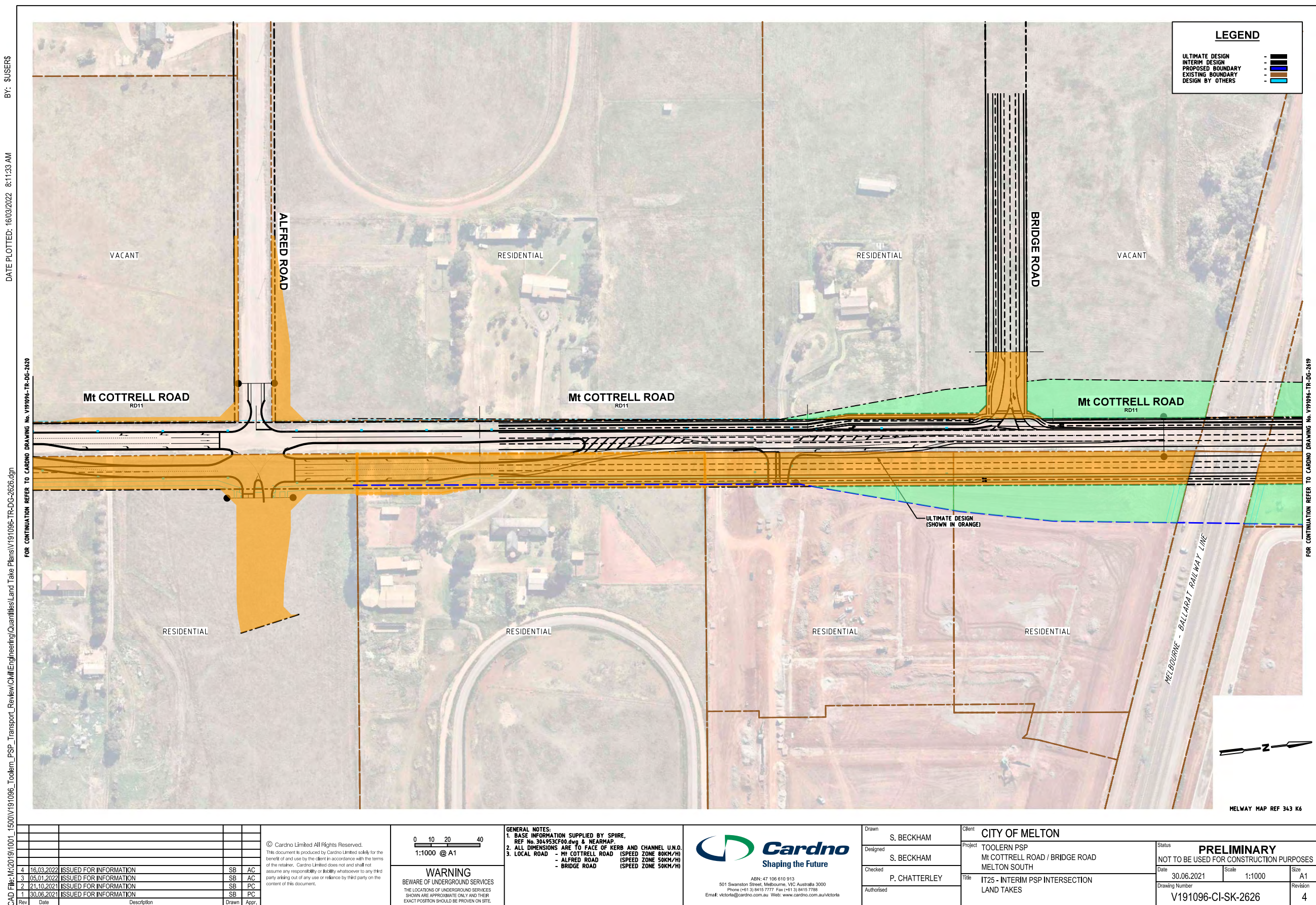


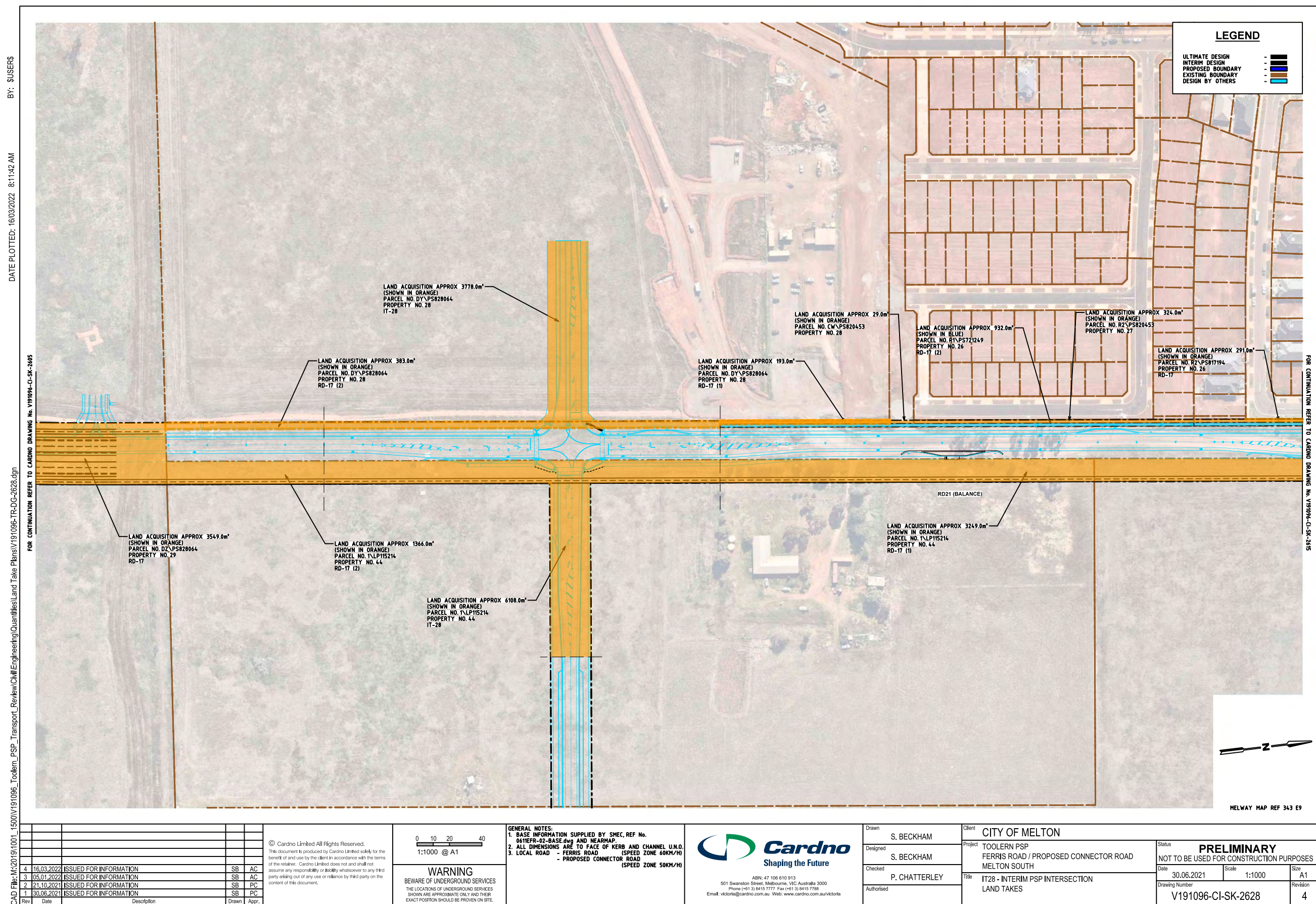
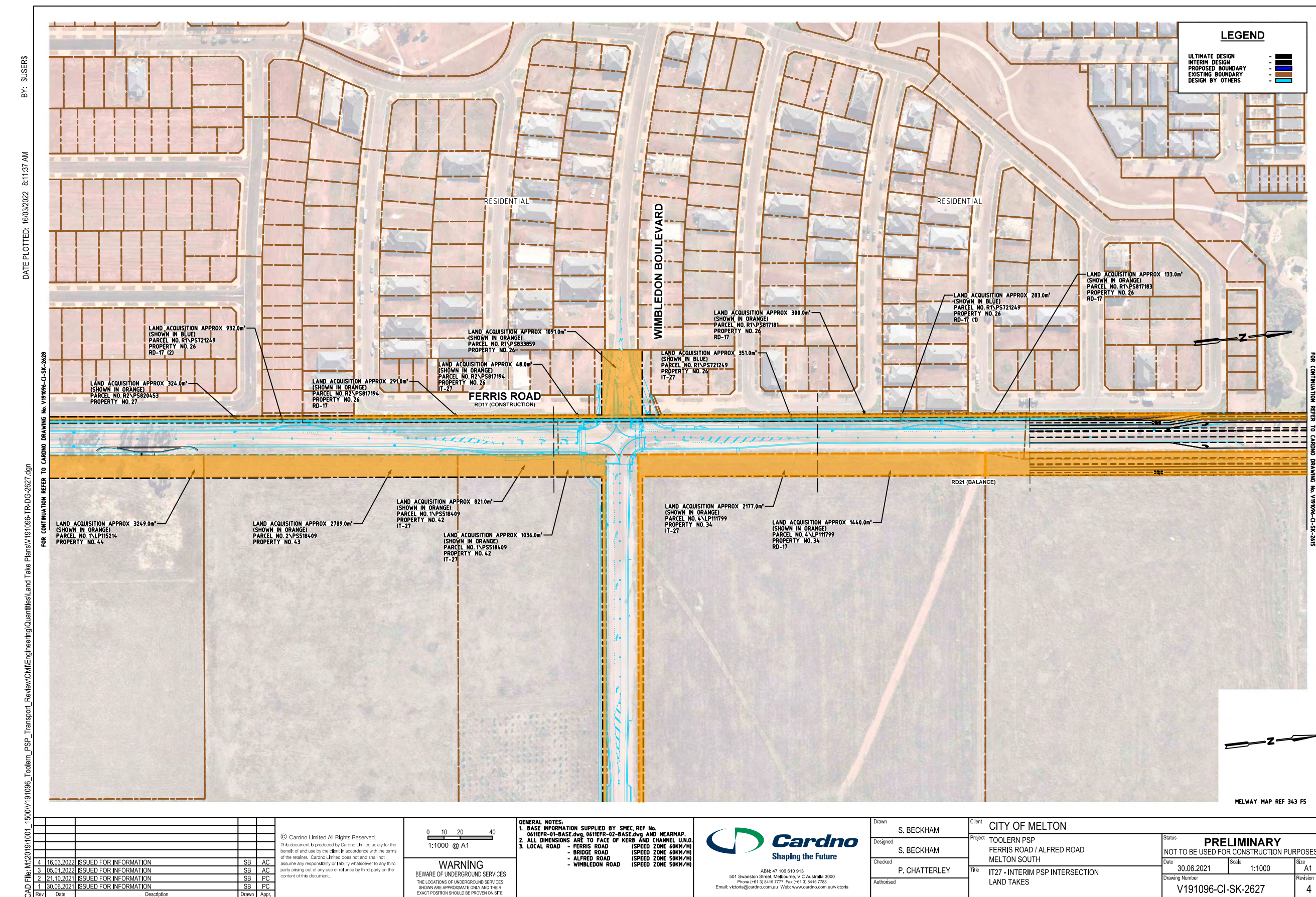




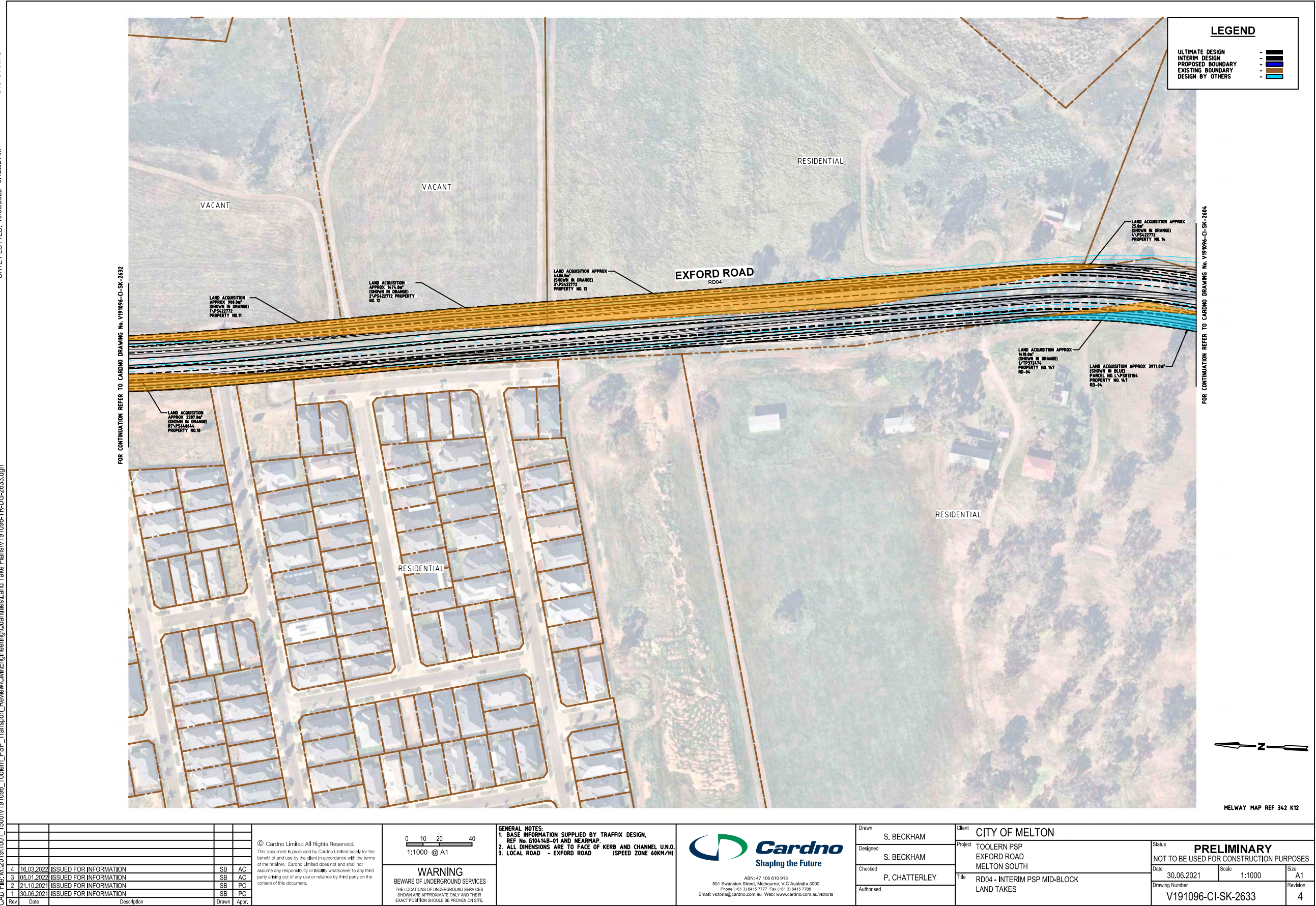
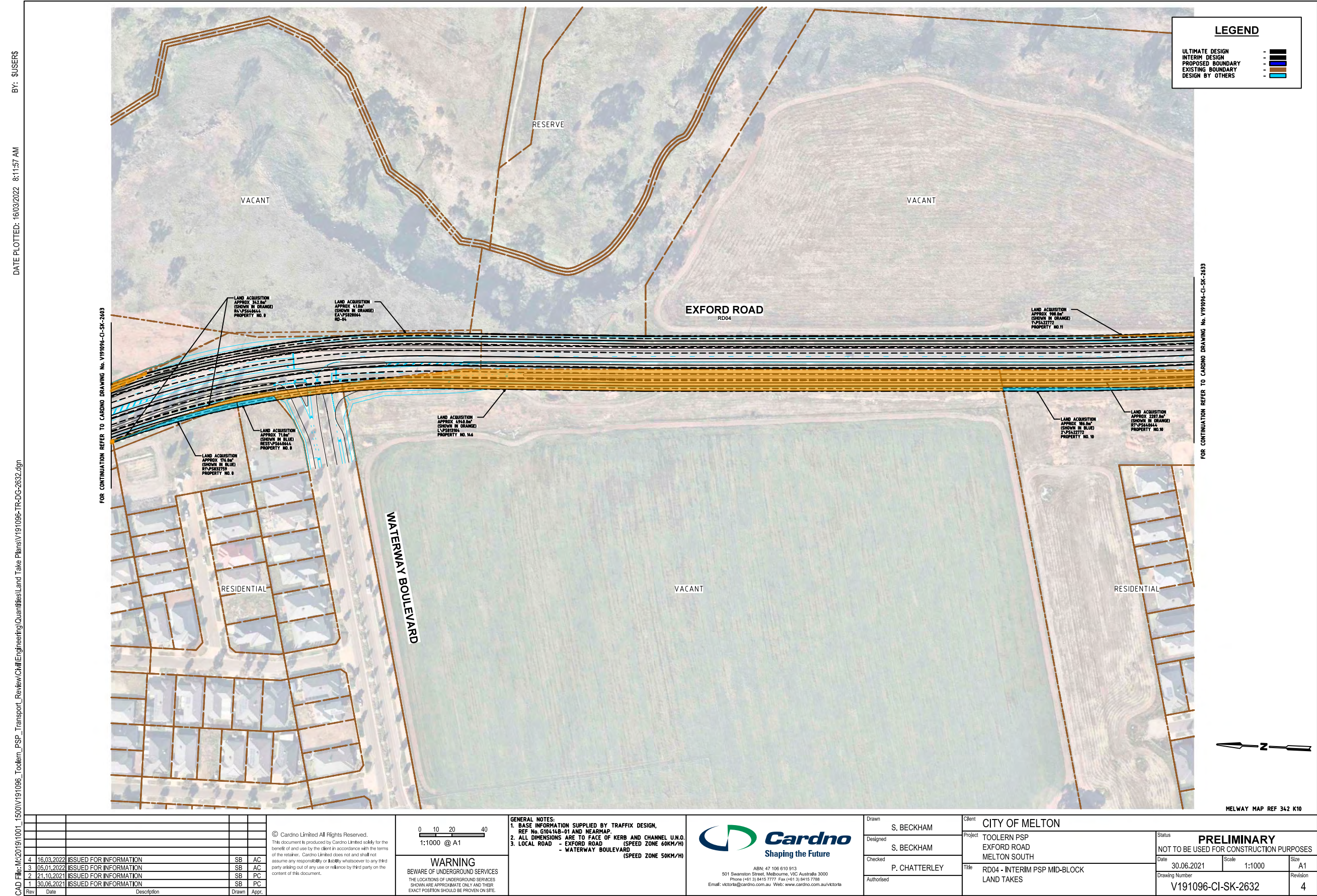


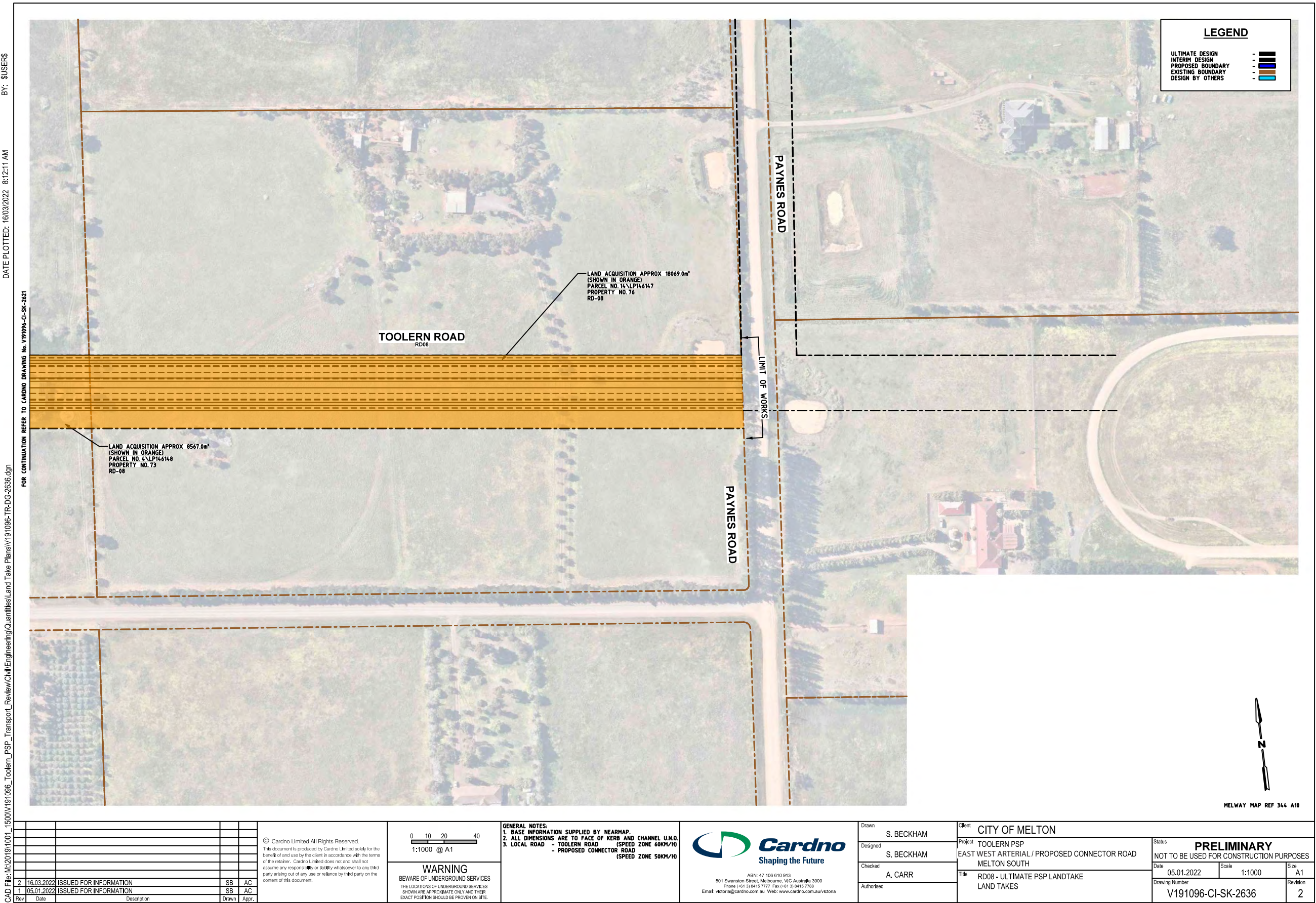
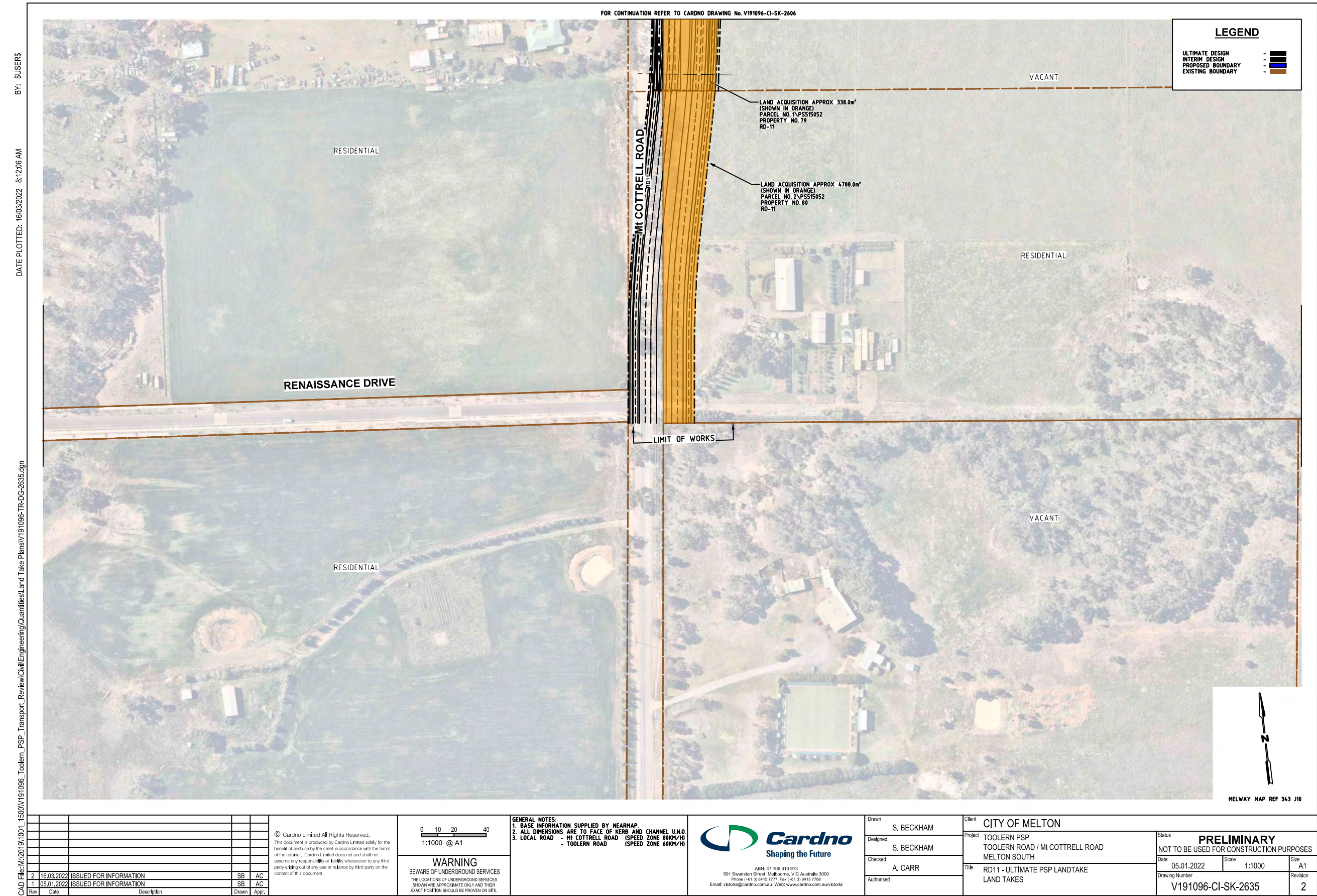


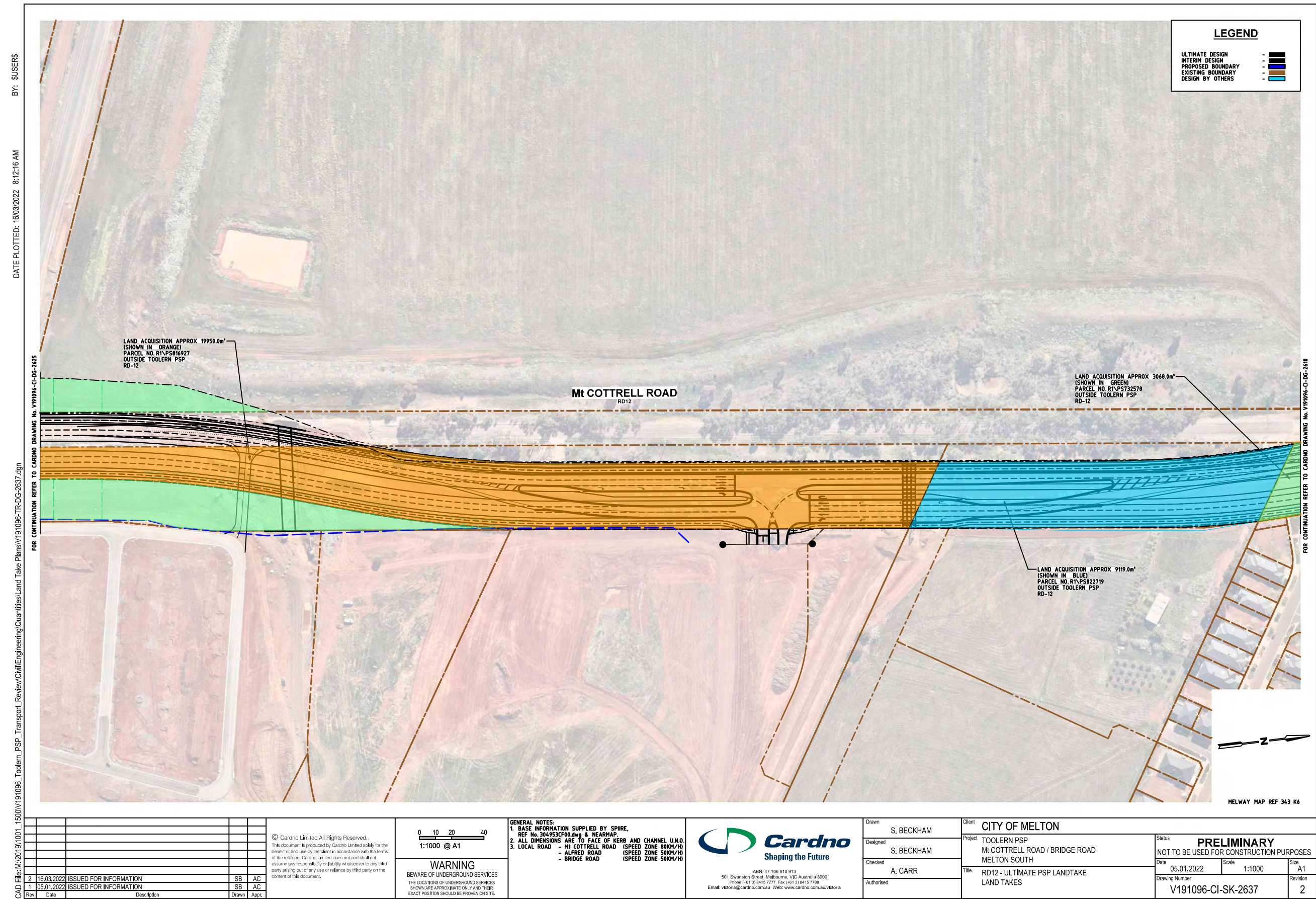






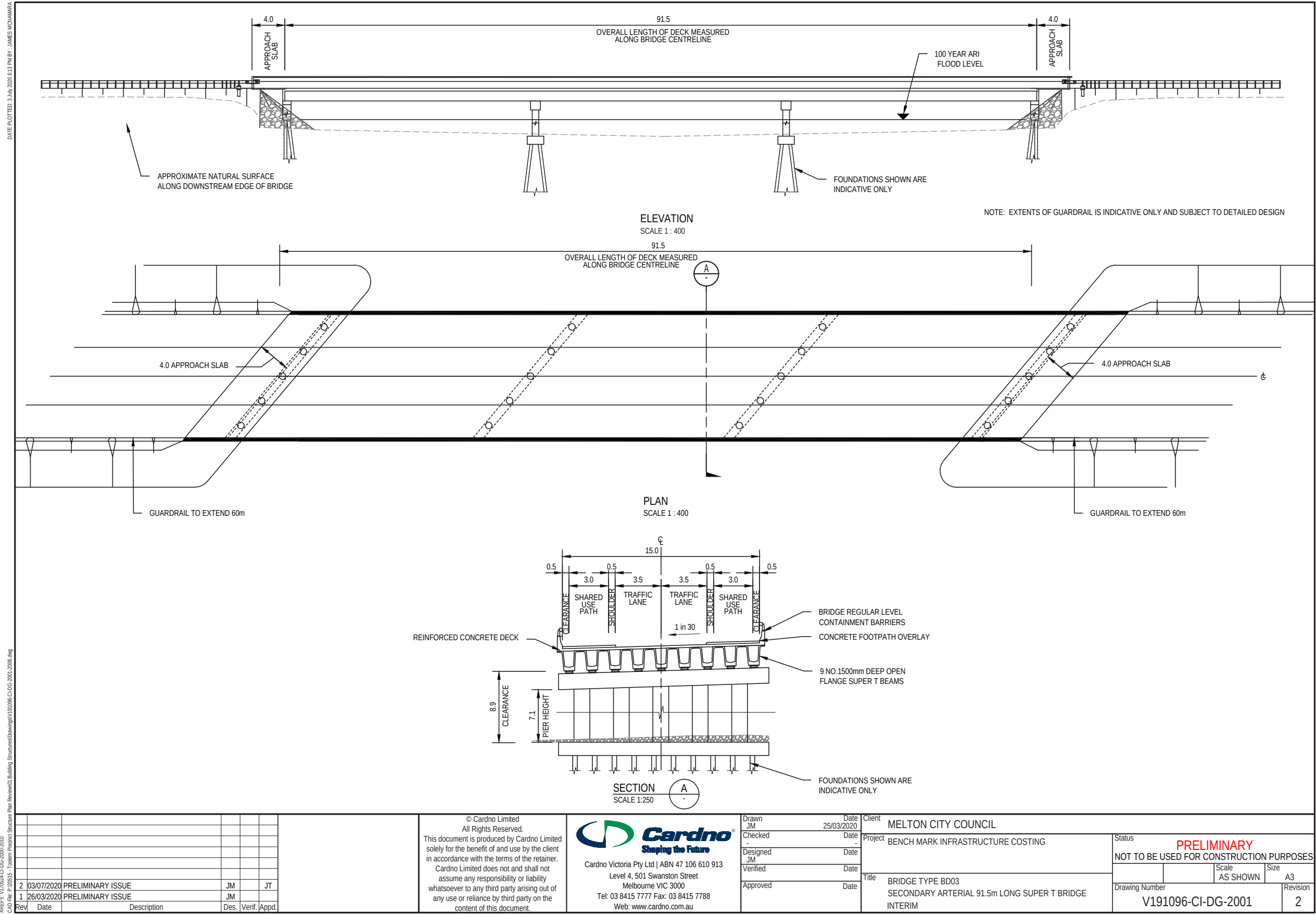


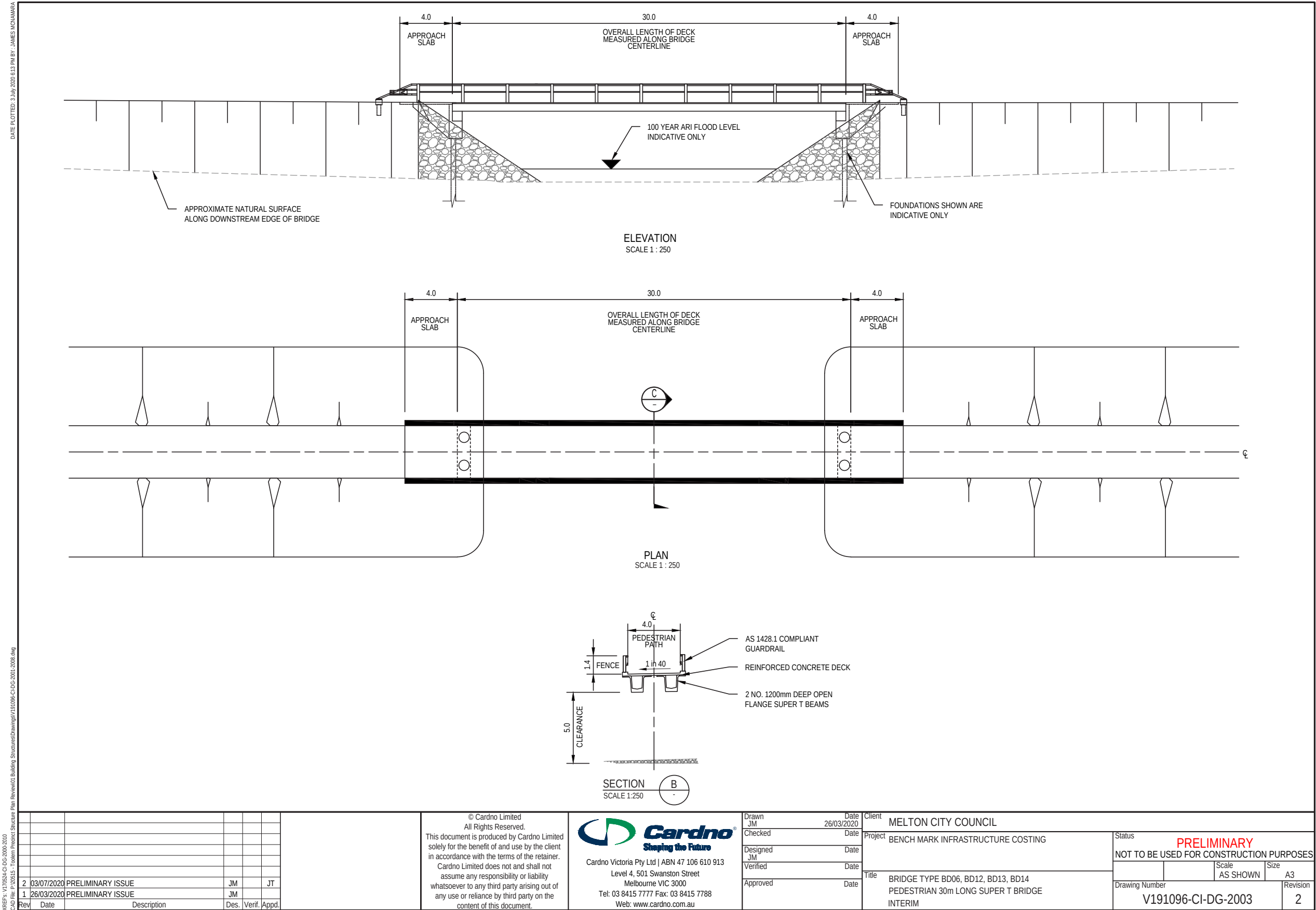
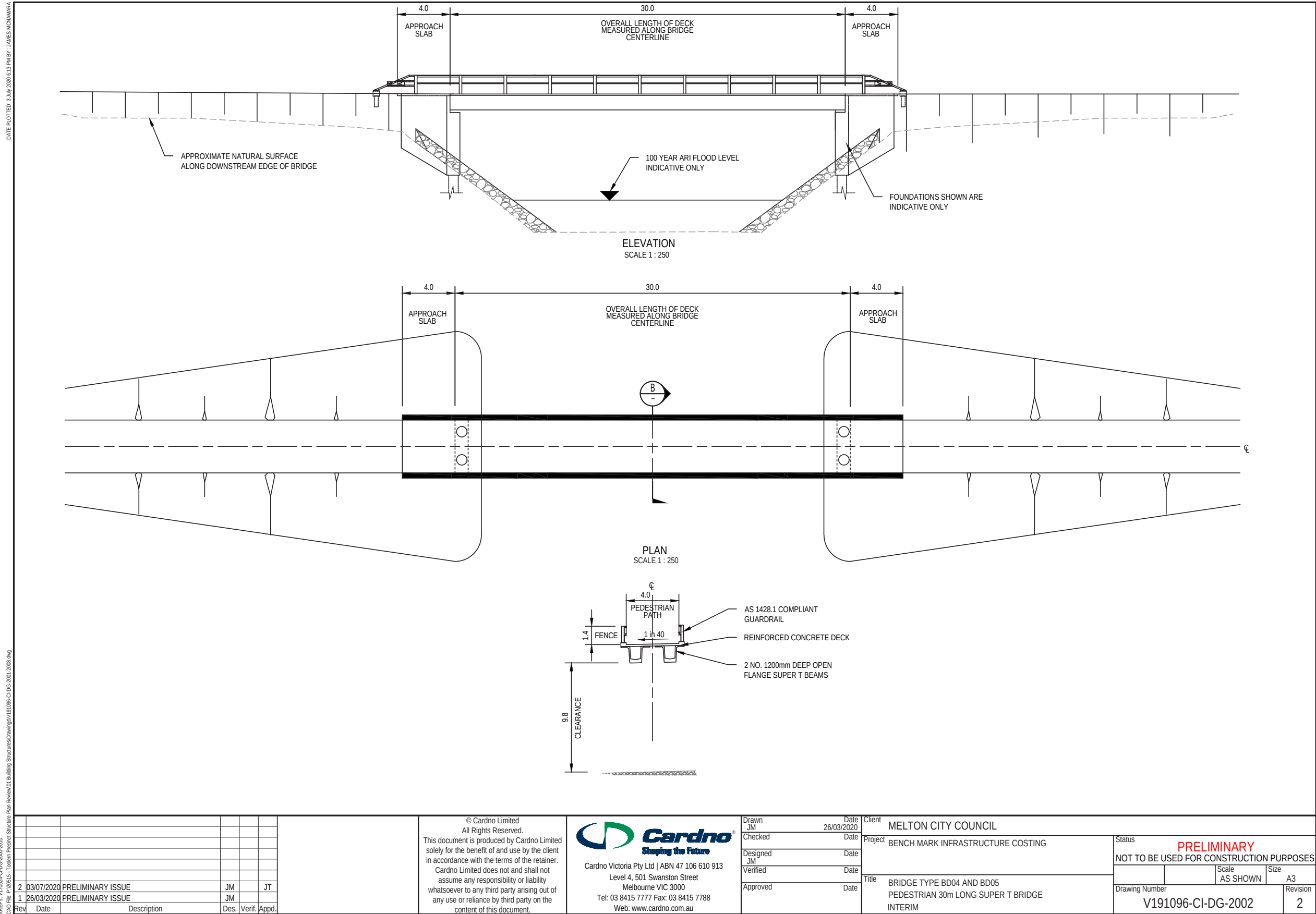


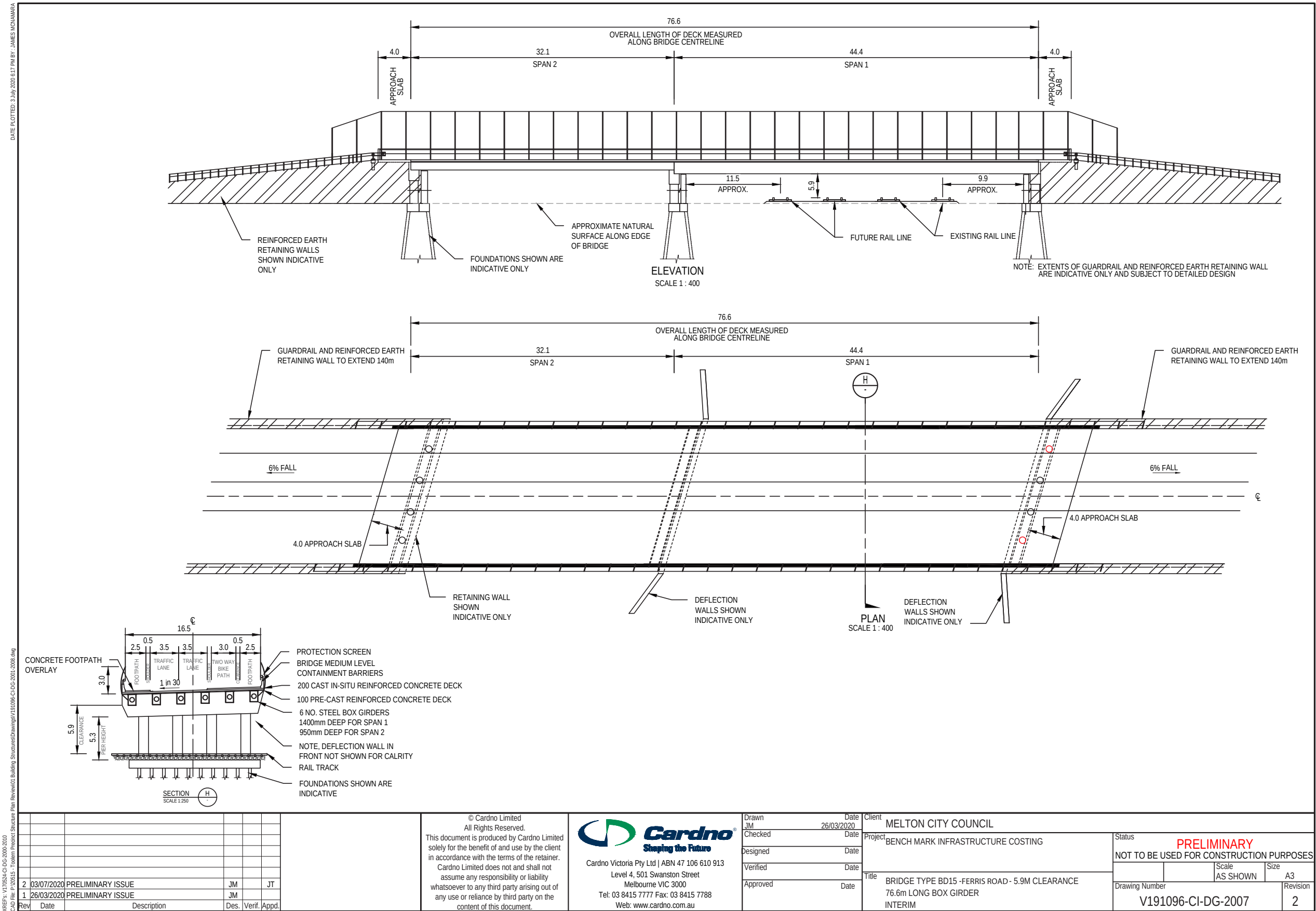
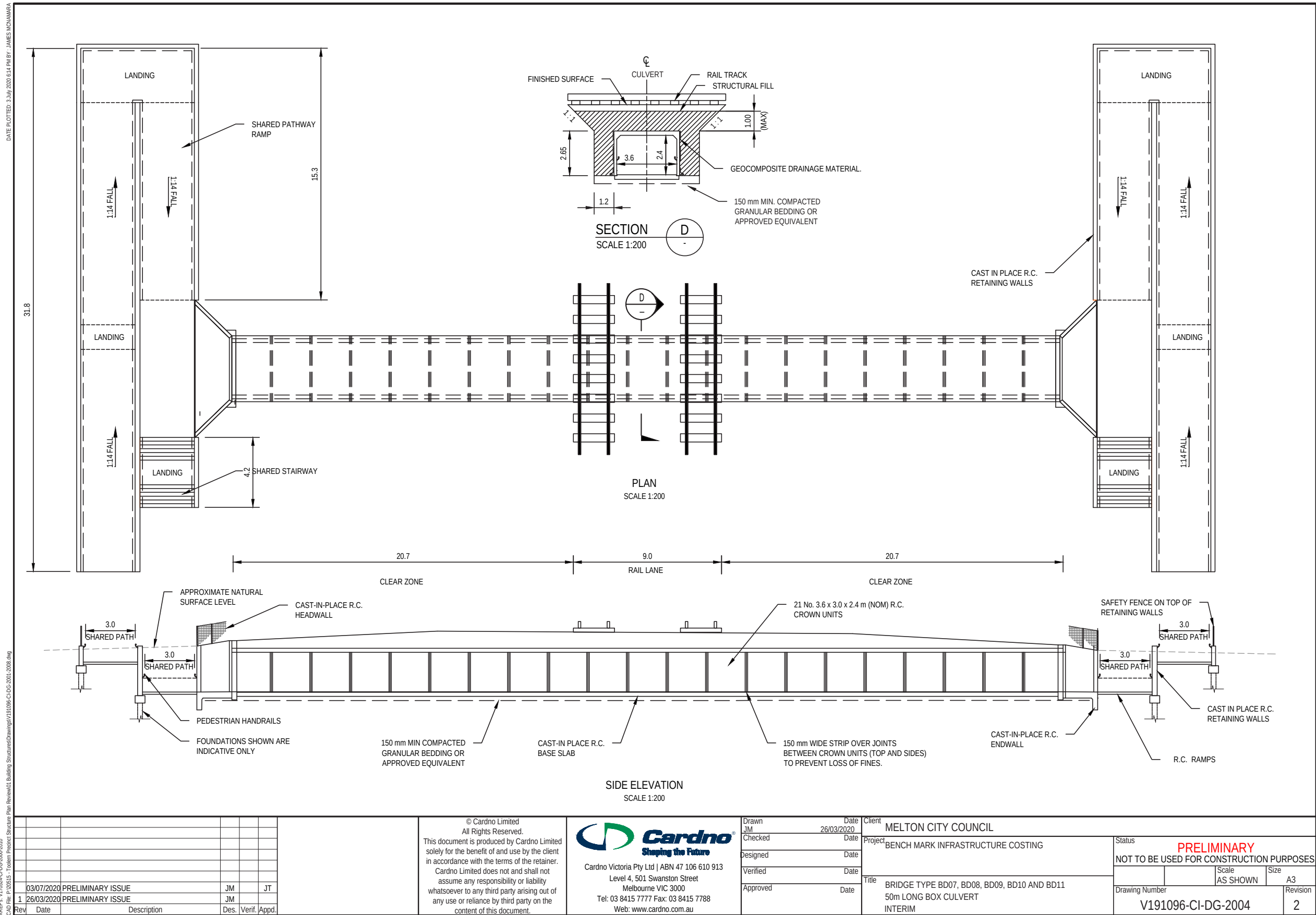


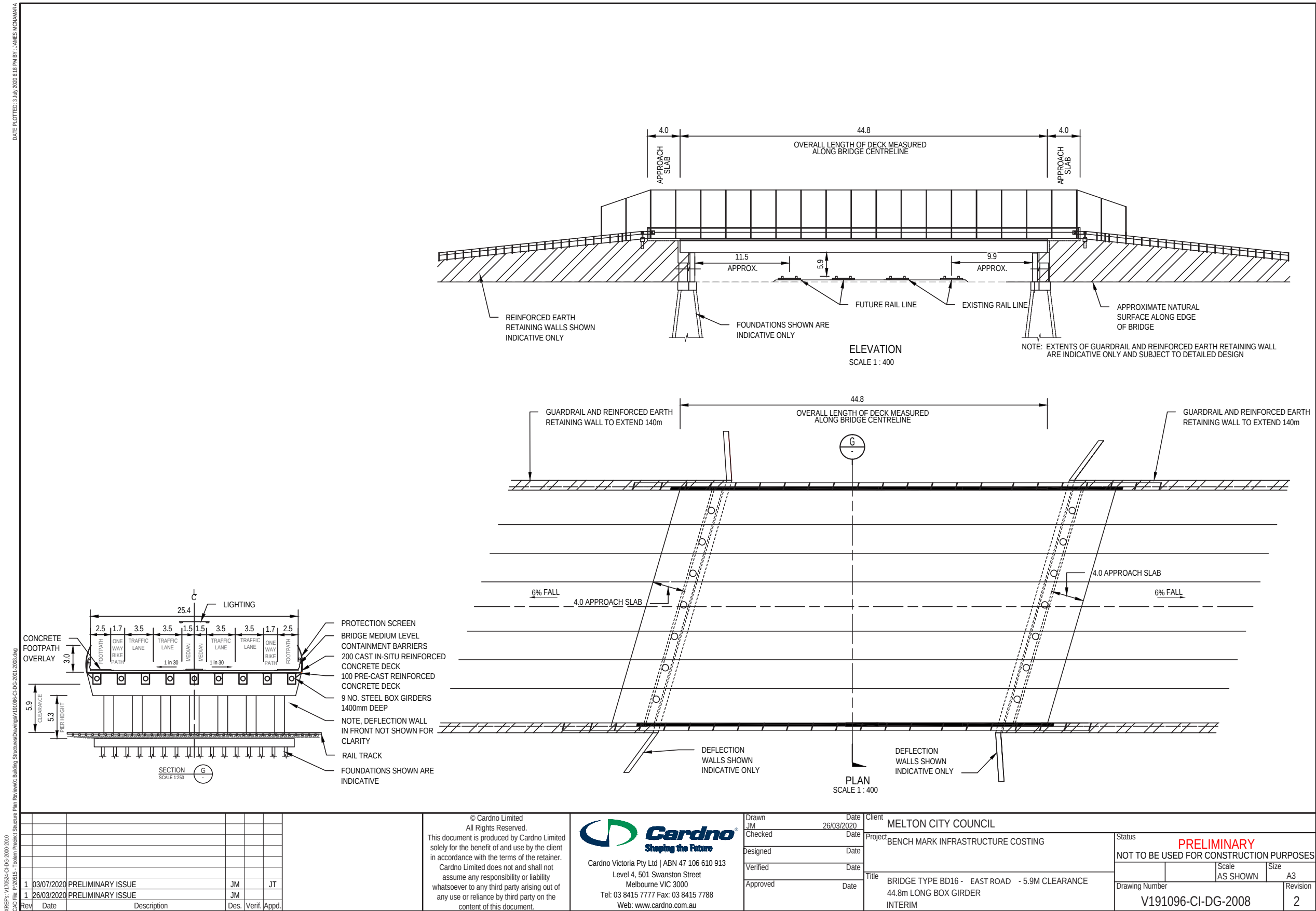
Amended
by C232

Appendix 2 - Bridge Designs



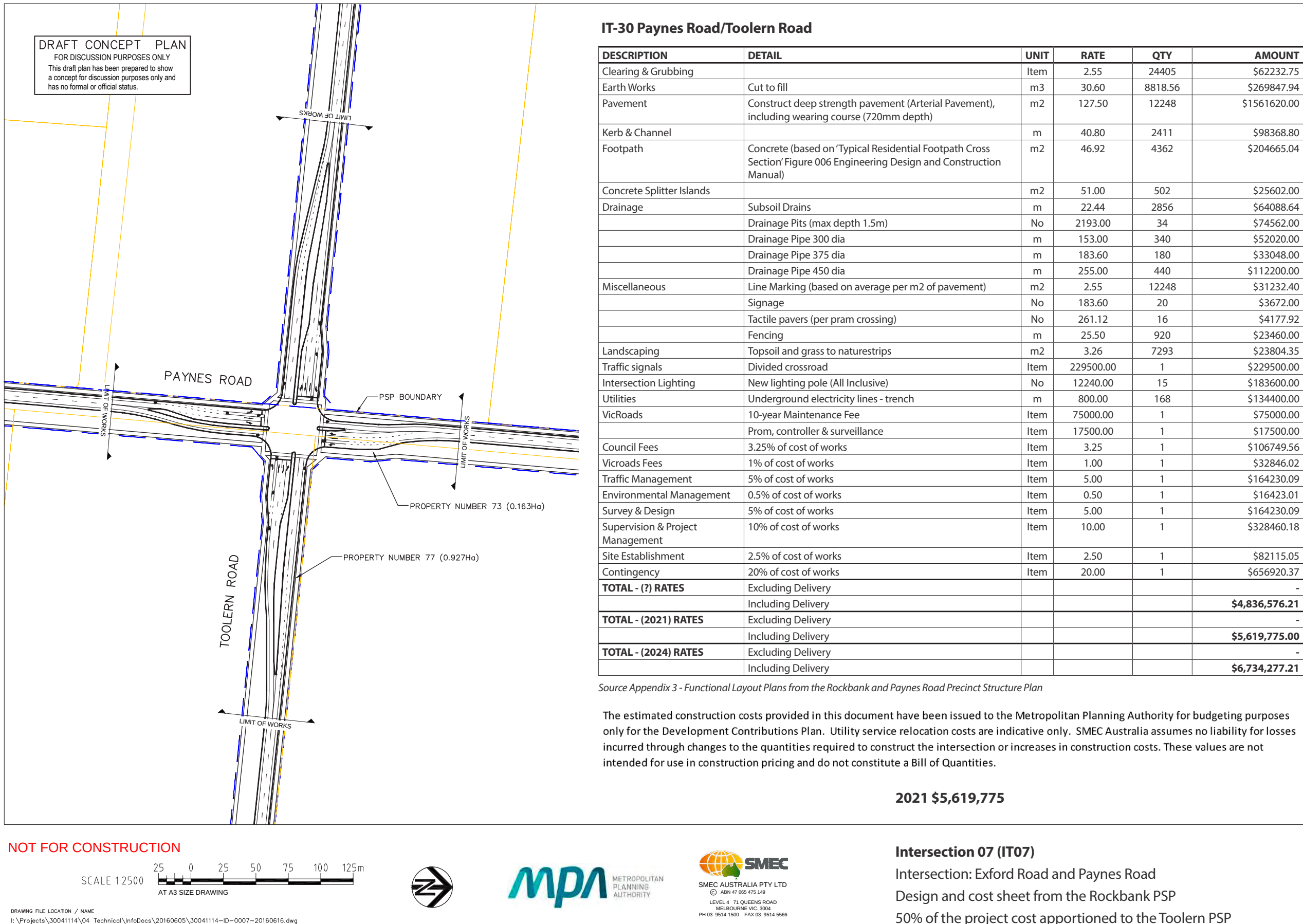




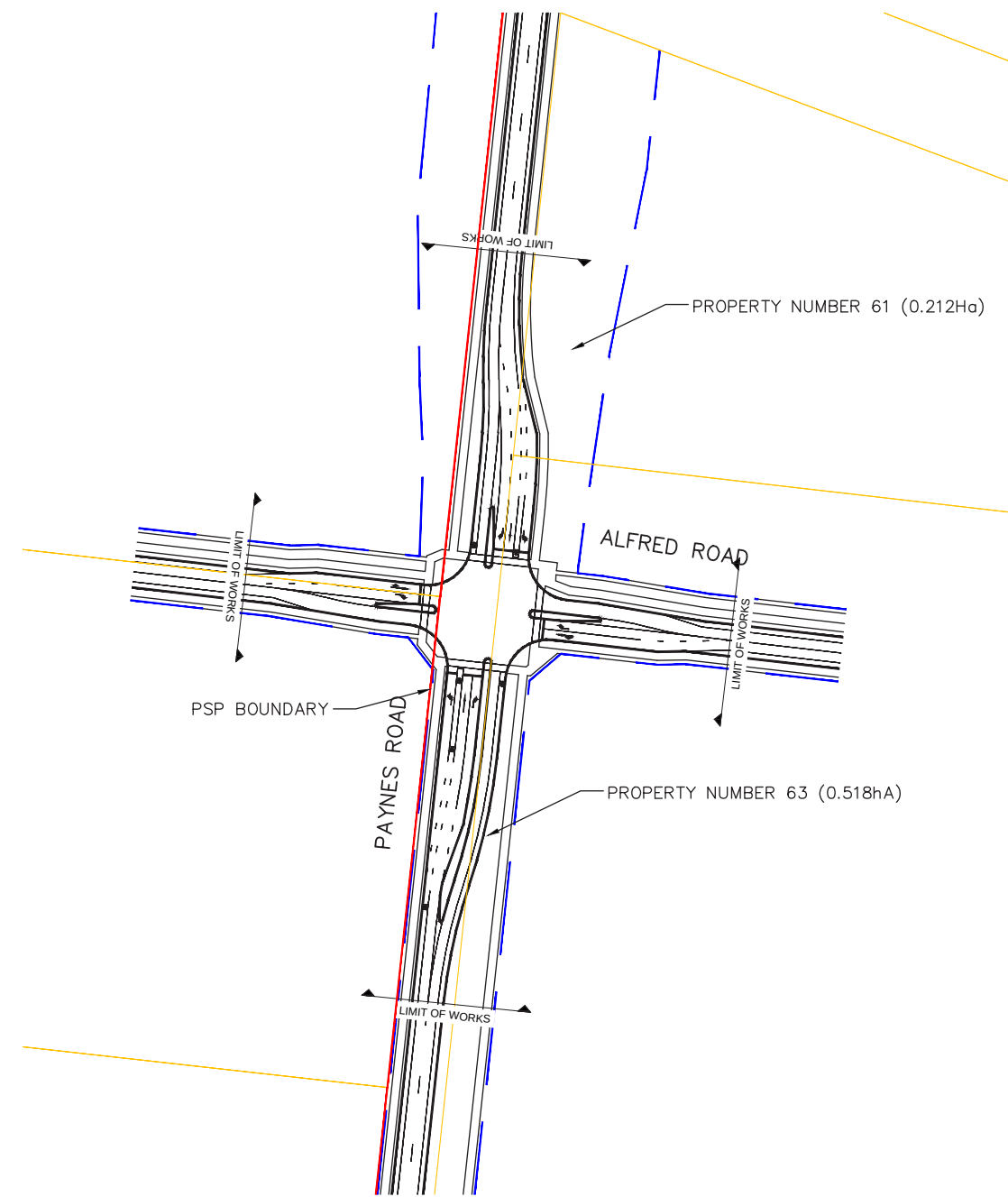


Amended
by C232

Appendix 3 - Functional Layout Plans from the Rockbank and Paynes Road Precinct Structure Plan



DRAFT CONCEPT PLAN
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IT-30 Paynes Road/Alfred Road

DESCRIPTION	DETAIL	UNIT	RATE	QTY	AMOUNT
Clearing & Grubbing		Item	2.55	16147	\$41174.85
Earth Works	Cut to fill	m3	30.60	3131.91	\$95836.45
	Import, place & compact fill	m3	51.00	8686.00	\$442986.00
Barriers	Guard rail	m	120.00	40.00	\$4800.00
	GREAT terminal	No.	5100.00	2.00	\$10200.00
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	m2	127.50	5298	\$675495.00
	Construct granular pavement (Council Pavement for Collector Street 550mm depth)	m2	76.50	1077	\$82390.50
Kerb & Channel		m	40.80	1194	\$48715.20
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	m2	46.92	2610	\$122461.20
Concrete Splitter Islands		m2	51.00	377	\$19227.00
Drainage	Subsoil Drains	m	22.44	1494	\$33525.36
	Drainage Pits (max depth 1.5m)	No	2193.00	20	\$43860.00
	Drainage Pipe 300 dia	m	153.00	410	\$62730.00
	Drainage Pipe 375 dia	m	183.60	120	\$22032.00
	Drainage Pipe 450 dia	m	255.00	270	\$68850.00
Miscellaneous	Line Marking (based on average per m2 of pavement)	m2	2.55	6375	\$16256.25
	Signage	No	183.60	20	\$3672.00
	Tactile pavers (per pram crossing)	No	261.12	16	\$4177.92
	Fencing	m	25.50	540	\$13770.00
Landscaping	Topsoil and grass to naturestrips	m2	3.26	6785	\$22146.24
Traffic signals	Divided crossroad	Item	229500.00	1	\$229500.00
Intersection Lighting	New lighting pole (All Inclusive)	No	12240.00	10	\$122400.00
VicRoads	10-year Maintenance Fee	Item	75000.00	1	\$75000.00
	Prom, controller & surveillance	Item	17500.00	1	\$17500.00
Council Fees	3.25% of cost of works	Item	3.25	1	\$74057.94
Traffic Management	5% of cost of works	Item	5.00	1	\$113935.30
Environmental Management	0.5% of cost of works	Item	0.50	1	\$11393.53
Survey & Design	5% of cost of works	Item	5.00	1	\$113935.30
Supervision & Project Management	10% of cost of works	Item	10.00	1	\$227870.60
Site Establishment	2.5% of cost of works	Item	2.50	1	\$56967.65
Contingency	20% of cost of works	Item	20.00	1	\$455741.19
TOTAL - (?) RATES	Excluding Delivery				-
	Including Delivery				\$3,332,607.48
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				\$3,872,265.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				\$4,640,204.00

Source Appendix 3 - Functional Layout Plans from the Rockbank and Paynes Road Precinct Structure Plan

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2021 \$3,872,265

Intersection 30 (IT30)

Intersection: Paynes Road and Alfred Road

Design and cost sheet from the Rockbank PSP (IT12)

50% of the project cost apportioned to the Toolern PSP

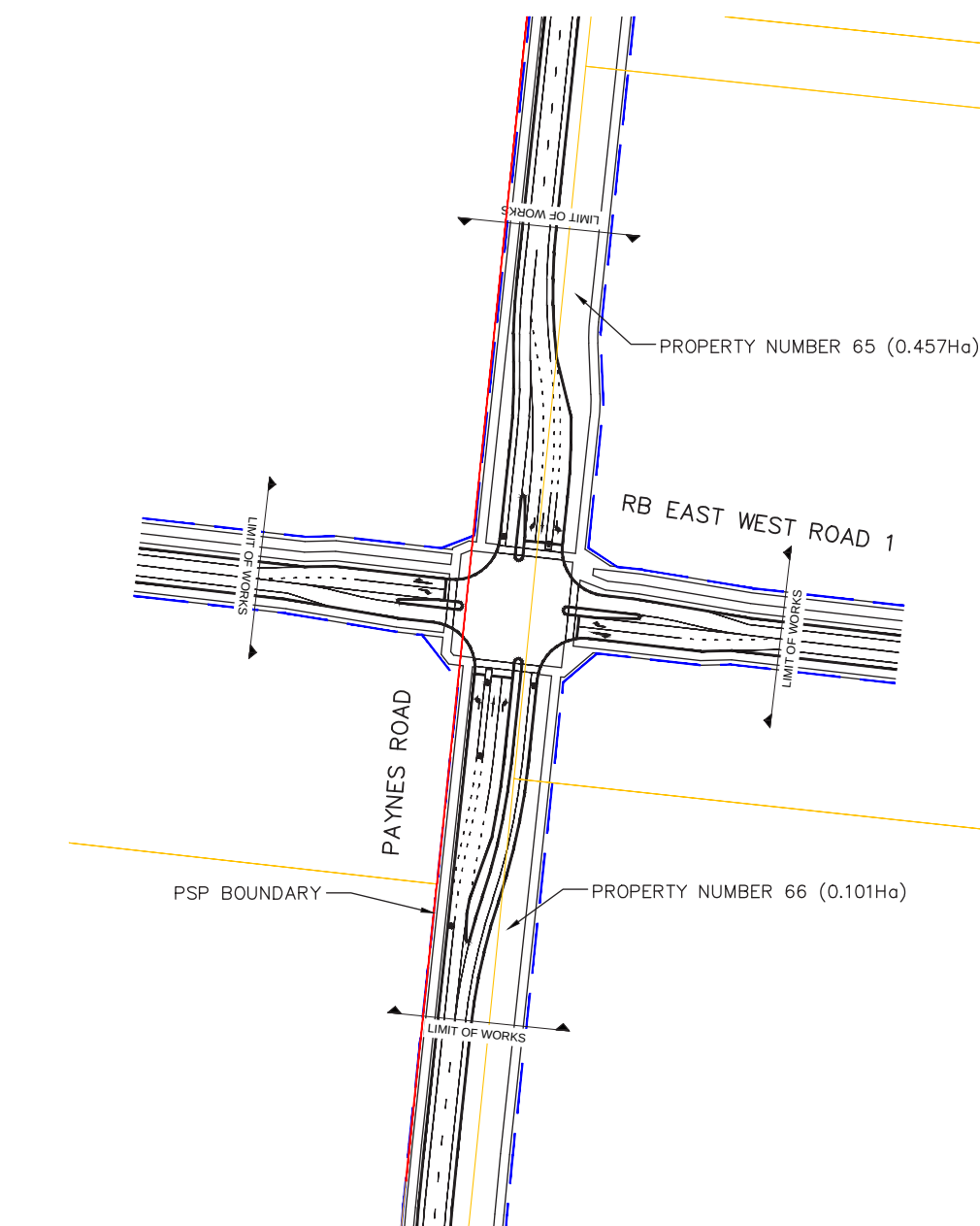
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DRAFT CONCEPT PLAN
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IT-31 Paynes Road/RB East West Road 1

DESCRIPTION	DETAIL	UNIT	RATE	QTY	AMOUNT
Clearing & Grubbing		Item	2.55	13075	\$33341.25
Earth Works	Cut to fill	m3	30.60	4390.81	\$134358.79
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	m2	127.50	5268	\$671670.00
	Construct granular pavement (Council Pavement for Collector Street 550mm depth)	m2	76.50	1087	\$83155.50
Kerb & Channel		m	40.80	1193	\$48674.40
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	m2	46.92	2592	\$121616.64
Concrete Splitter Islands		m2	51.00	235	\$11985.00
Drainage	Subsoil Drains	m	22.44	1653	\$37093.32
	Drainage Pits (max depth 1.5m)	No	2193.00	20	\$43860.00
	Drainage Pipe 300 dia	m	153.00	410	\$62730.00
	Drainage Pipe 375 dia	m	183.60	120	\$22032.00
	Drainage Pipe 450 dia	m	255.00	270	\$68850.00
Miscellaneous	Line Marking (based on average per m2 of pavement)	m2	2.55	6355	\$16205.25
	Signage	No	183.60	20	\$3672.00
	Tactile pavers (per pram crossing)	No	261.12	16	\$4177.92
	Fencing	m	25.50	330	\$8415.00
Landscaping	Topsoil and grass to naturestrips	m2	3.26	3893	\$12706.75
Traffic signals	Divided crossroad	Item	229500.00	1	\$229500.00
Intersection Lighting	New lighting pole (All Inclusive)	No	12240.00	10	\$122400.00
Utilities	Underground electricity lines - trench	m	800.00	168	\$134400.00
	Relocate Telstra pit and conduits	No.	8160.00	1	\$8160.00
VicRoads	10-year Maintenance Fee	Item	75000.00	1	\$75000.00
	Prom, controller & surveillance	Item	17500.00	1	\$17500.00
Council Fees	3.25% of cost of works	Item	3.25	1	\$64073.87
Traffic Management	5% of cost of works	Item	5.00	1	\$98575.19
Environmental Management	0.5% of cost of works	Item	0.50	1	\$9857.52
Survey & Design	5% of cost of works	Item	5.00	1	\$98575.19
Supervision & Project Management	10% of cost of works	Item	10.00	1	\$197150.38
Site Establishment	2.5% of cost of works	Item	2.50	1	\$49287.60
Contingency	20% of cost of works	Item	20.00	1	\$394300.76
TOTAL - (?) RATES	Excluding Delivery				-
	Including Delivery				\$2,883,324.33
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				\$3,350,228.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				\$4,014,638.00

Source Appendix 3 - Functional Layout Plans from the Rockbank and Paynes Road Precinct Structure Plan

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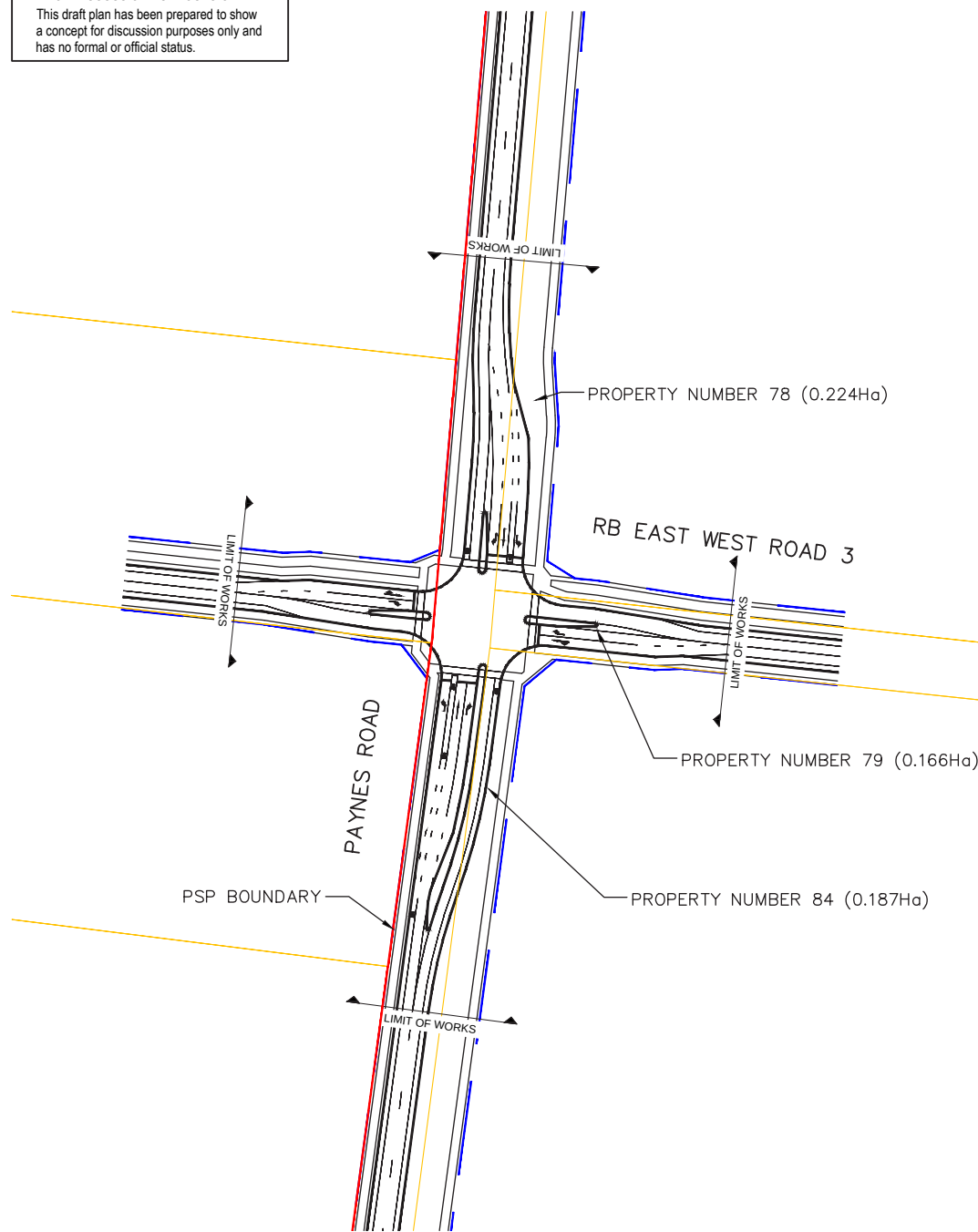
Intersection 31 (IT31)

Intersection: Paynes Road and East West Connector Road 1

Design and cost sheet from the Rockbank PSP (IT31)

50% of the project cost apportioned to the Toolern PSP

DRAFT CONCEPT PLAN
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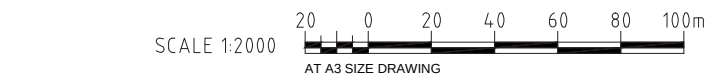
IT-32 Paynes Road/RB East West Road 3

DESCRIPTION	DETAIL	UNIT	RATE	QTY	AMOUNT
Clearing & Grubbing		Item	2.55	13131	\$33484.05
Earth Works	Cut to fill	m3	30.60	4375.53	\$133891.22
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	m2	127.50	5259	\$670522.50
	Construct granular pavement (Council Pavement for Collector Street 550mm depth)	m2	76.50	1071	\$81931.50
Kerb & Channel		m	40.80	1196	\$48796.80
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	m2	46.92	2604	\$122179.68
Concrete Splitter Islands		m2	51.00	373	\$19023.00
	Subsoil Drains	m	22.44	1641	\$36824.04
Drainage	Drainage Pits (max depth 1.5m)	No	2193.00	20	\$43860.00
	Drainage Pipe 300 dia	m	153.00	410	\$62730.00
	Drainage Pipe 375 dia	m	183.60	120	\$22032.00
	Drainage Pipe 450 dia	m	255.00	270	\$68850.00
Miscellaneous	Line Marking (based on average per m2 of pavement)	m2	2.55	6330	\$16141.50
	Signage	No	183.60	20	\$3672.00
	Tactile pavers (per pram crossing)	No	261.12	16	\$4177.92
	Fencing	m	25.50	0	0.00
Landscaping	Topsoil and grass to naturestrips	m2	3.26	3824	\$12481.54
	Divided crossroad	Item	229500.00	1	\$229500.00
Intersection Lighting	New lighting pole (All Inclusive)	No	12240.00	10	\$122400.00
Utilities	Underground electricity lines - trench	m	800.00	216	\$172800.00
	Relocate Telstra pit and conduits	No.	8160.00	2	\$16320.00
VicRoads	Relocate 100mm PVC water main	m	204.00	210	\$42840.00
	10-year Maintenance Fee	Item	75000.00	1	\$75000.00
Council Fees	Prom, controller & surveillance	Item	17500.00	1	\$17500.00
	3.25% of cost of works	Item	3.25	1	\$66851.13
Traffic Management	5% of cost of works	Item	5.00	1	\$102847.89
Environmental Management	0.5% of cost of works	Item	0.50	1	\$10284.79
Survey & Design	5% of cost of works	Item	5.00	1	\$102847.89
Supervision & Project Management	10% of cost of works	Item	10.00	1	\$205695.77
Site Establishment	2.5% of cost of works	Item	2.50	1	\$51423.94
Contingency	20% of cost of works	Item	20.00	1	\$411391.55
TOTAL - (?) RATES	Excluding Delivery				-
	Including Delivery				\$3,008,300.70
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				\$3,495,443.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				\$4,188,652.00

Source Appendix 3 - Functional Layout Plans from the Rockbank and Paynes Road Precinct Structure Plan

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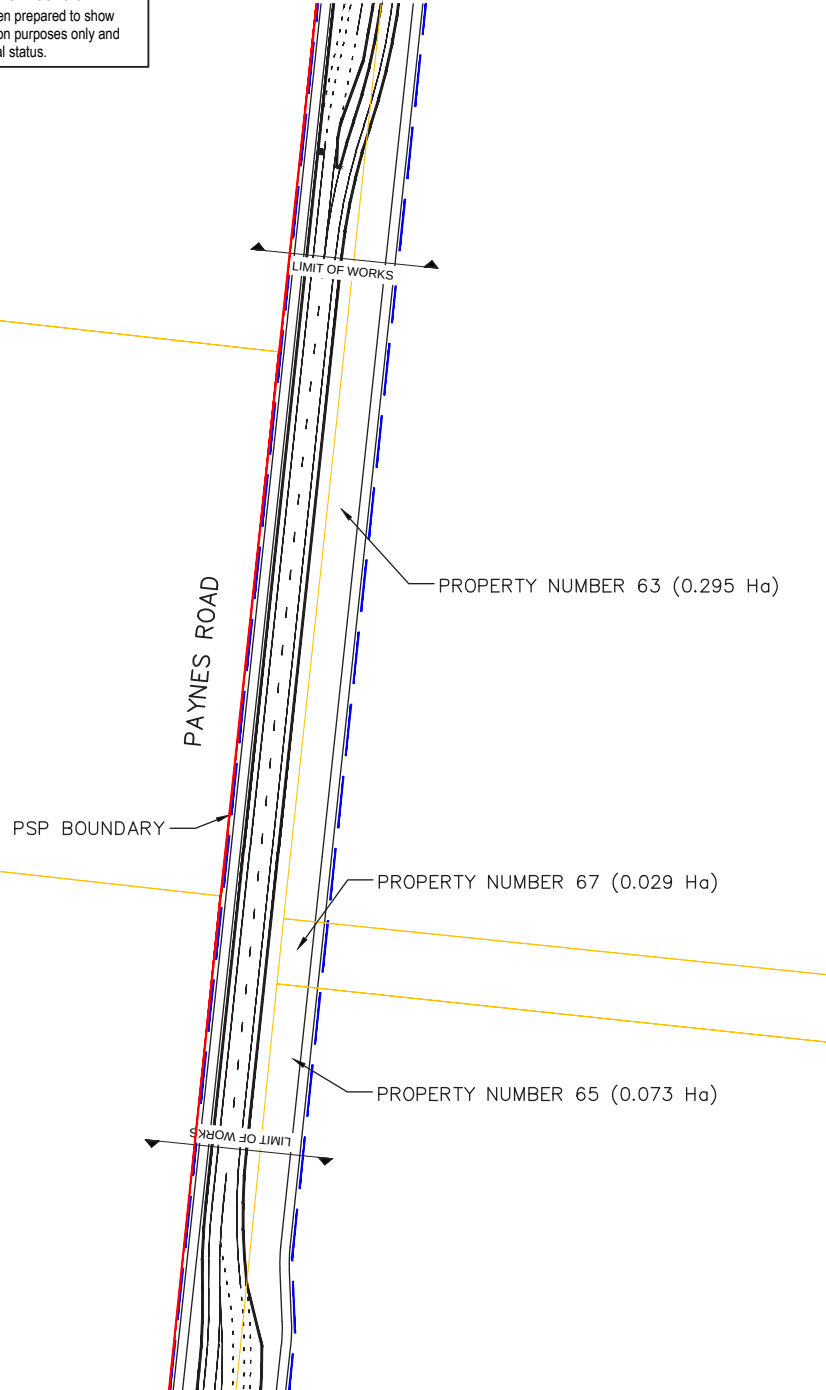
Intersection 32 (IT32)

Intersection: Paynes Road and East West Connector Road 2

Design and cost sheet from the Rockbank PSP

25% of the project cost apportioned to the Toolern PSP

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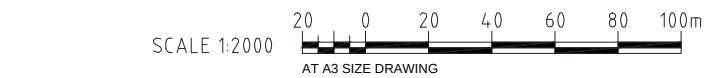
RD22 Paynes Road

DESCRIPTION	DETAIL	UNIT	RATE	QTY	AMOUNT
Clearing & Grubbing		Item	2.55	9649	\$24604.95
Earth Works	Cut place & Compact and disposal (for boxing)	m3	30.60	2249.28	\$68827.97
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	m2	127.50	3124	\$398310.00
Kerb & Channel		m	40.80	568	\$23174.40
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	m2	46.92	1704	\$79951.68
Drainage	Subsoil Drains	m	22.44	852	\$19118.88
	Drainage Pits (max depth 1.5m)	No	2193.00	12	\$26316.00
	Drainage Pipe 375 dia	m	183.60	72	\$13219.20
	Drainage Pipe 450 dia	m	255.00	284	\$72420.00
Miscellaneous	Line Marking (based on average per m2 of pavement)	m2	2.55	3124	\$7966.20
Landscaping		m2	3.26	4821	\$15735.74
Lighting	New lighting pole (All Inclusive)	No	12240.00	6	\$73440.00
Council Fees	3.25% of cost of works	Item	3.25	1	\$26750.26
Traffic Management	5% of cost of works	Item	5.00	1	\$41154.25
Environmental Management	0.5% of cost of works	Item	0.50	1	\$4115.43
Survey & Design	5% of cost of works	Item	5.00	1	\$41154.25
Supervision & Project Management	10% of cost of works	Item	10.00	1	\$82308.50
Site Establishment	2.5% of cost of works	Item	2.50	1	\$20577.13
Contingency	20% of cost of works	Item	20.00	1	\$164617.00
TOTAL - (?) RATES	Excluding Delivery				-
	Including Delivery				\$1,203,761.84
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				\$1,398,000.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				\$1,676,076.00

Source Appendix 3 - Functional Layout Plans from the Rockbank and Paynes Road Precinct Structure Plan

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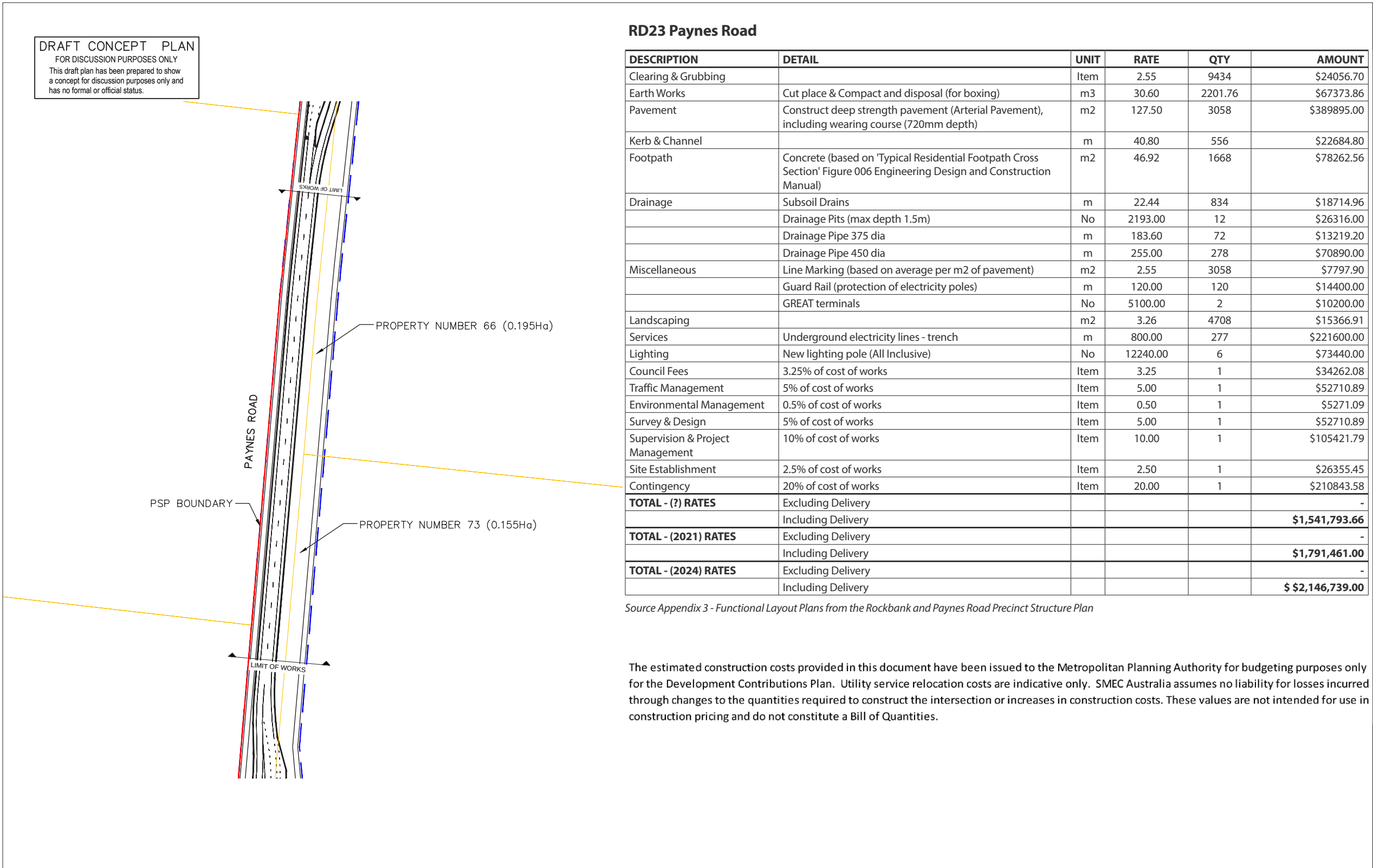


Road 22 (RD22)

Paynes Road: Alfred Road (IT30) to East West Connector Road 1 (IT31)

Design and cost sheet from the Rockbank PSP (RD06)

50% of the project cost apportioned to the Toolern PSP



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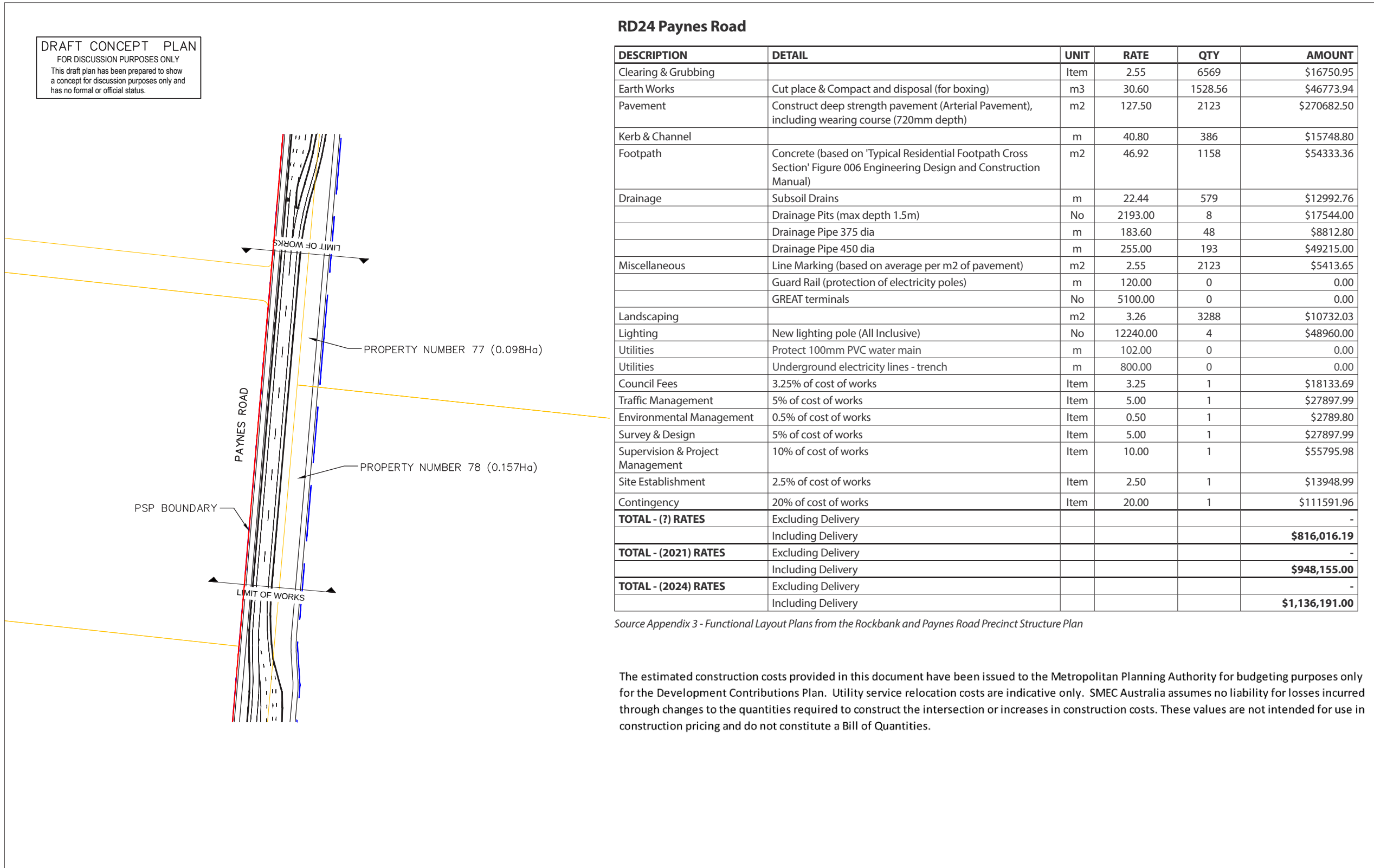


Road 23 (RD23)

Paynes Road: East West Connector Road 1 (IT31) to Exford Road (IT07)

Design and cost sheet from the Rockbank PSP (RD07)

50% of the project cost apportioned to the Toolern PSP



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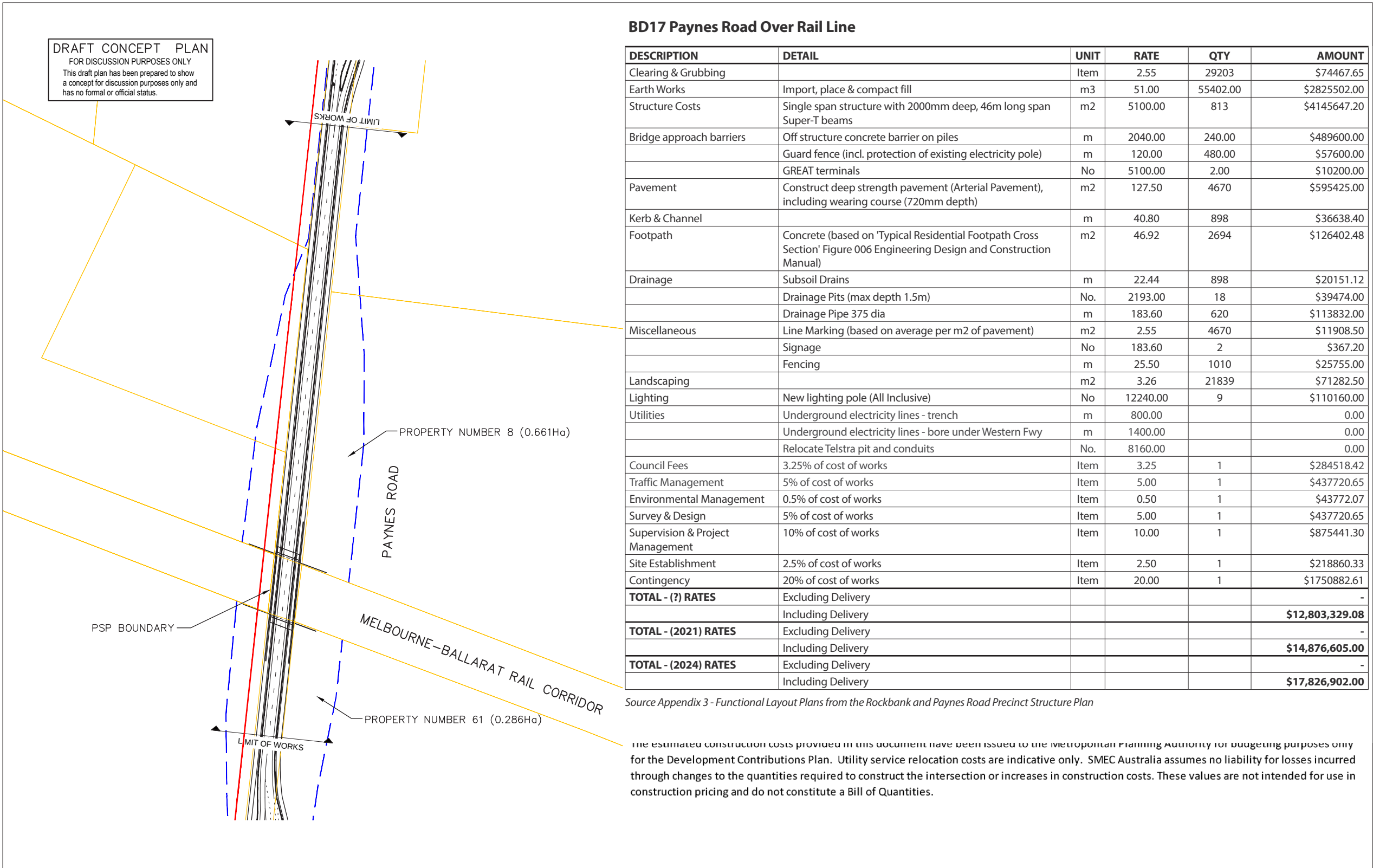


Road 24 (RD24)

Paynes Road: Exford Road (IT07) to East West Connector Road 2 (IT32)

Design and cost sheet from the Rockbank PSP (RD06)

50% of the project cost apportioned to the Toolern PSP



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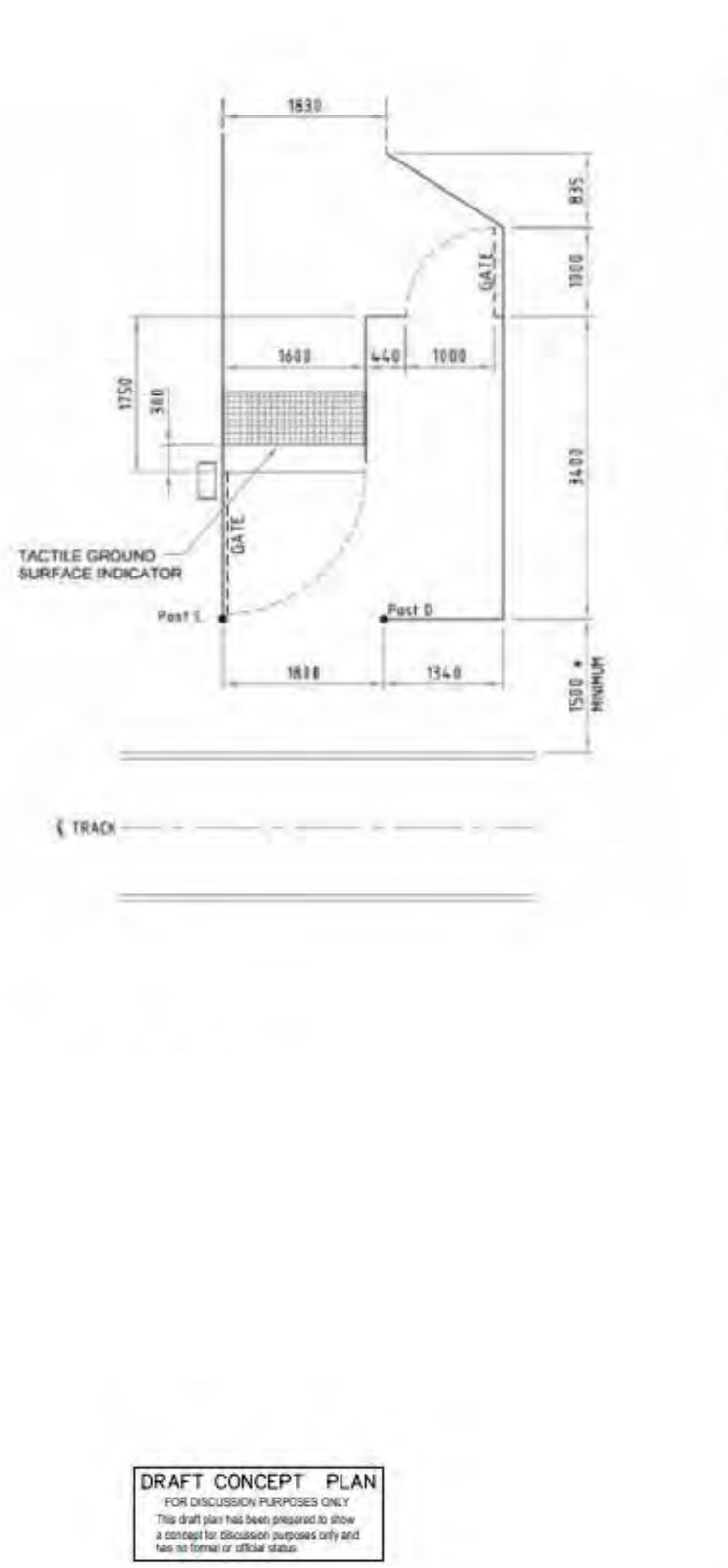


Bridge 17 (BD17)

Paynes Road Rail Overpass

Design and cost sheet from the Rockbank PSP (BR04)

25% of the project cost apportioned to the Toolern PSP



BD18 Level crossing upgrade - Automatic pedestrian gates

DESCRIPTION	DETAIL	UNIT	RATE	QTY	AMOUNT
Site Access		Item	5100.00	1	\$5100.00
Decommissioning of existing crossing		Item	28000.00	1	\$28000.00
Removal of existing crossing		Item	19000.00	1	\$19000.00
Crossing Construction/ Materials		Item	210000.00	1	\$210000.00
Testing and Commissioning		Item	37500.00	1	\$37500.00
Council Fees	3.25% of cost of works	Item	3.25	1	\$9737.00
Vicroads Fees	1% of cost of works	Item	1.00	1	\$2996.00
VicTrack Fees	1% of cost of works	Item	97475.00	1	\$97475.00
Traffic Management	5% of cost of works	Item	5.00	1	\$14980.00
Environmental Management	0.5% of cost of works	Item	0.50	1	\$1498.00
Survey & Design	5% of cost of works	Item	109000.00	1	\$109000.00
Supervision & Project Management	10% of cost of works	Item	10.00	1	\$29960.00
Site Establishment	2.5% of cost of works	Item	2.50	1	\$7490.00
Contingency	20% of cost of works	Item	10.00	1	\$29960.00
TOTAL - (?) RATES	Excluding Delivery				-
	Including Delivery				\$602,696.00
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				\$628,070.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				\$752,627.00

Source Appendix 3 - Functional Layout Plans from the Rockbank and Paynes Road Precinct Structure Plan

The estimated construction costs provided in this document have been issued to the Metropolitan Planning Authority for budgeting purposes only for the Development Contributions Plan. Utility service relocation costs are indicative only. SMEC Australia assumes no liability for losses incurred through changes to the quantities required to construct the intersection or increases in construction costs. These values are not intended for use in construction pricing and do not constitute a Bill of Quantities.

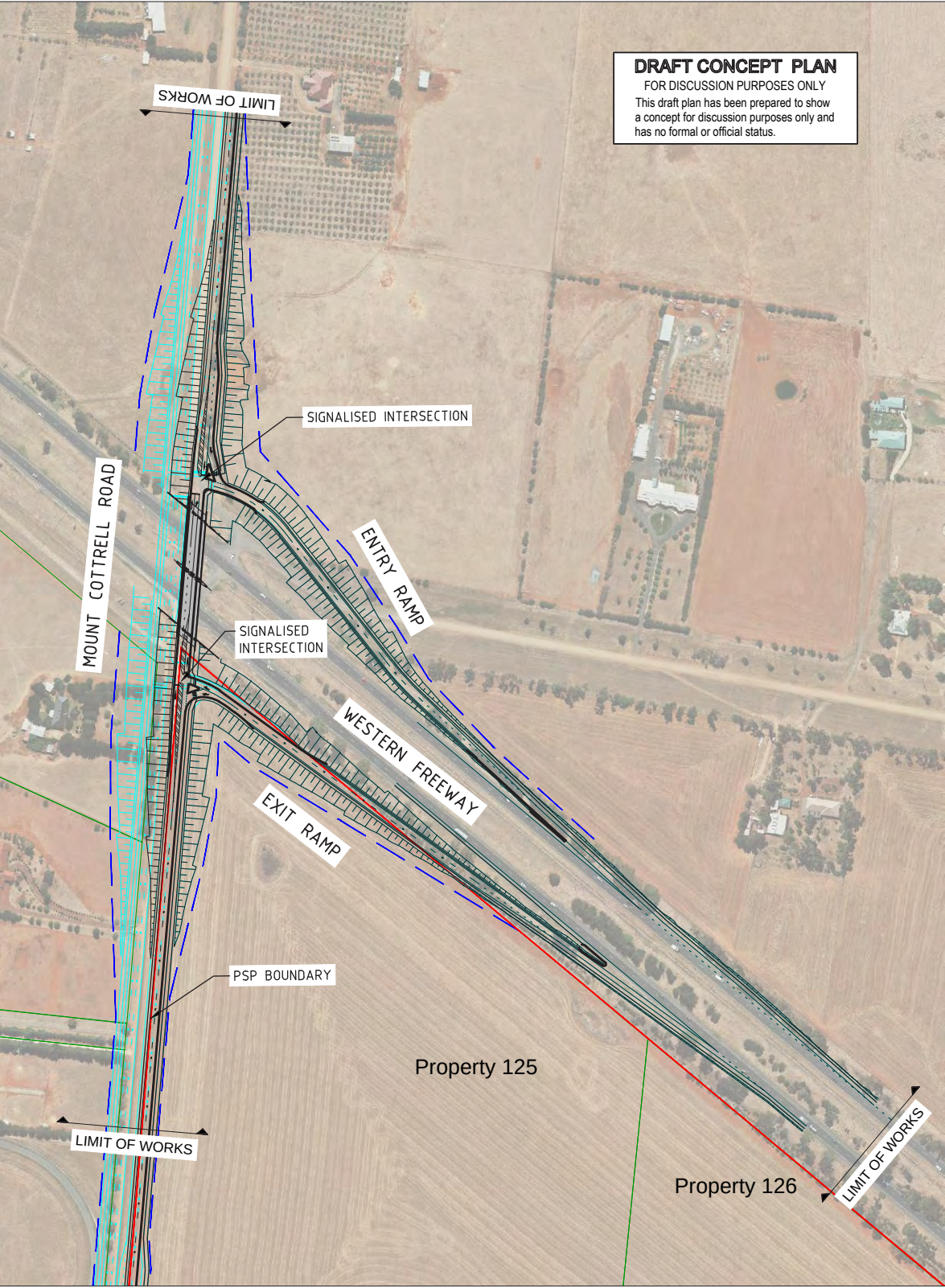


Bridge 18 (BD18)

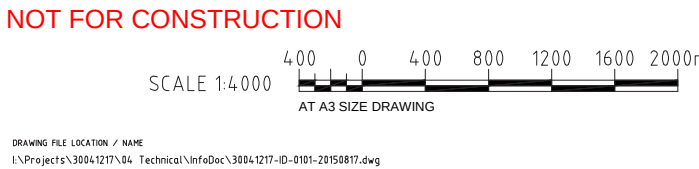
Paynes Road Level Crossing Upgrade

Design and cost sheet from the Rockbank PSP (BR06)

25% of the project cost apportioned to the Toolern PSP

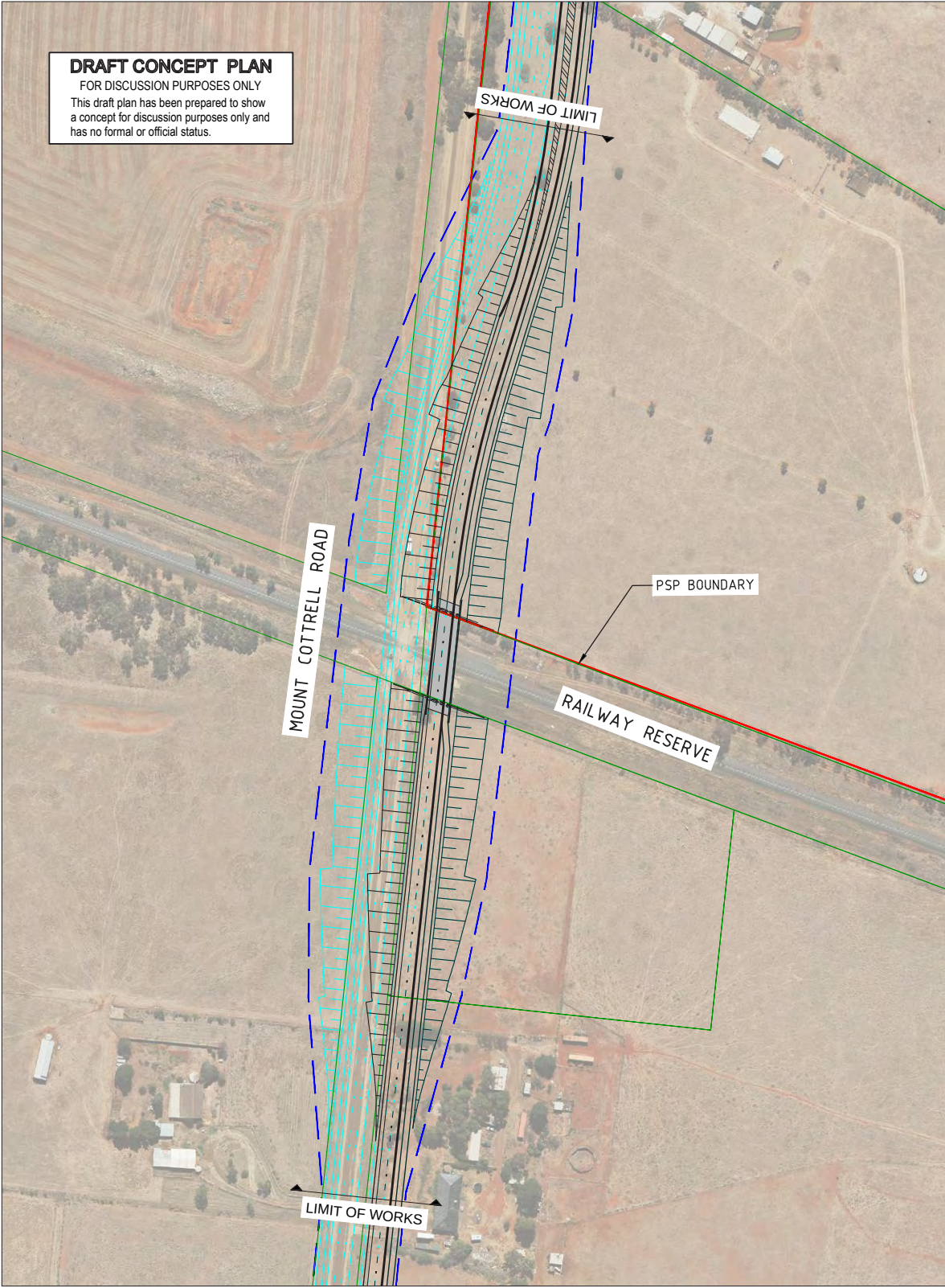


Bridge 19 - Mount Cottrell Road over Western Freeway - land acquisition project
BR01 **Mount Cottrell Road over Western Fwy (incl. new ramps and intersections)**

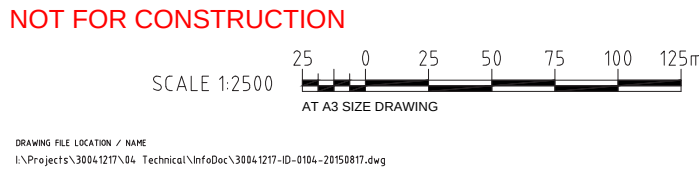


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Bridge 19 (BD19)
Mount Cottrell Road Freeway Interchange
Land acquisition project
Design and cost sheet from the Paynes Road PSP (BR01)



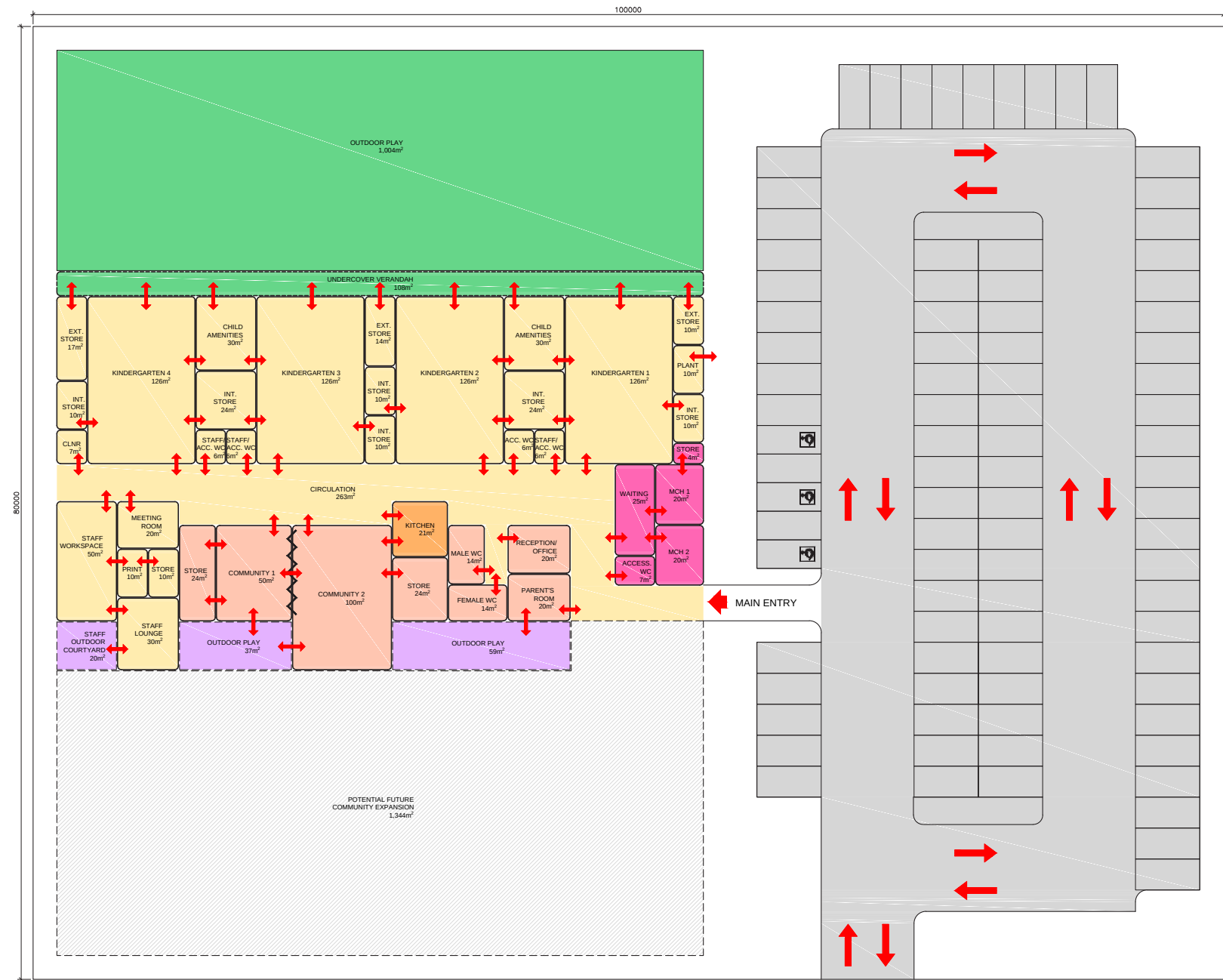
Bridge 20 - Mount Cottrell Road over the Melbourne - Ballarat Rail Line
- Land Acquisition Project
BR02 **Mount Cottrell Road over rail line**



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Bridge 20 (BD20)
Mount Cottrell Road Rail Overpass
Land acquisition project
Design and cost sheet from the Paynes Road PSP (BR02)

Amended by C232
Appendix 4 - Community Centre Concept Designs



AREA SCHEDULE	
KINDERGARTEN	1,117m ²
MCH	76m ²
COMMUNITY	266m ²
COMMERCIAL KITCHEN	21m ²
TOTAL FLOOR AREA	1,480m ²
OUTDOOR PLAY	1,112m ²
COMMUNITY OUTDOOR AREAS	116m ²
CARPARKING (No.)	86 (incl. 3 ACC.)
CARPARKING (AREA)	2,503m ²
FUTURE EXPANSION	1,344m ²

OPTION 1
LEVEL 1 COMMUNITY CENTRE
1:200 @A1

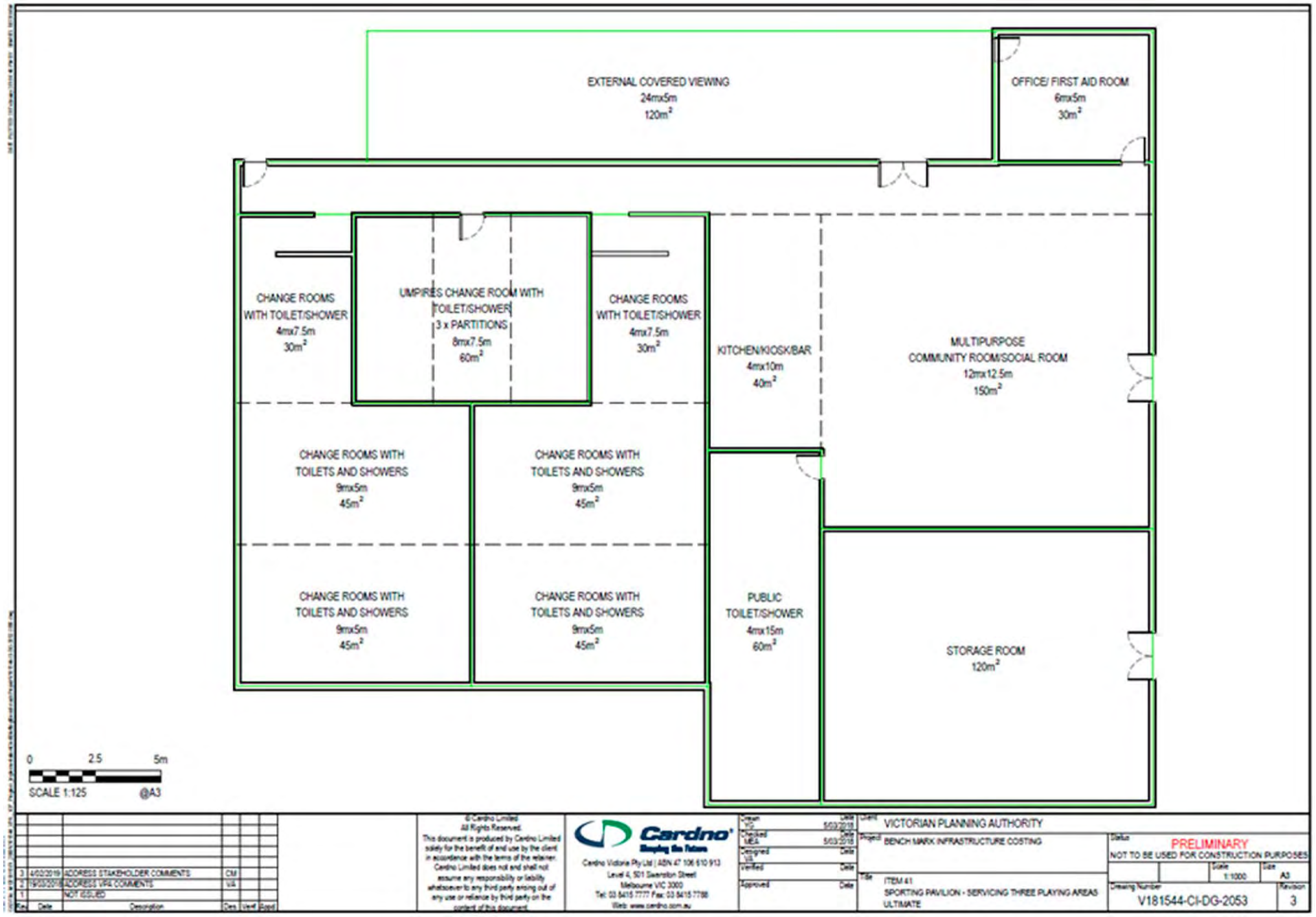
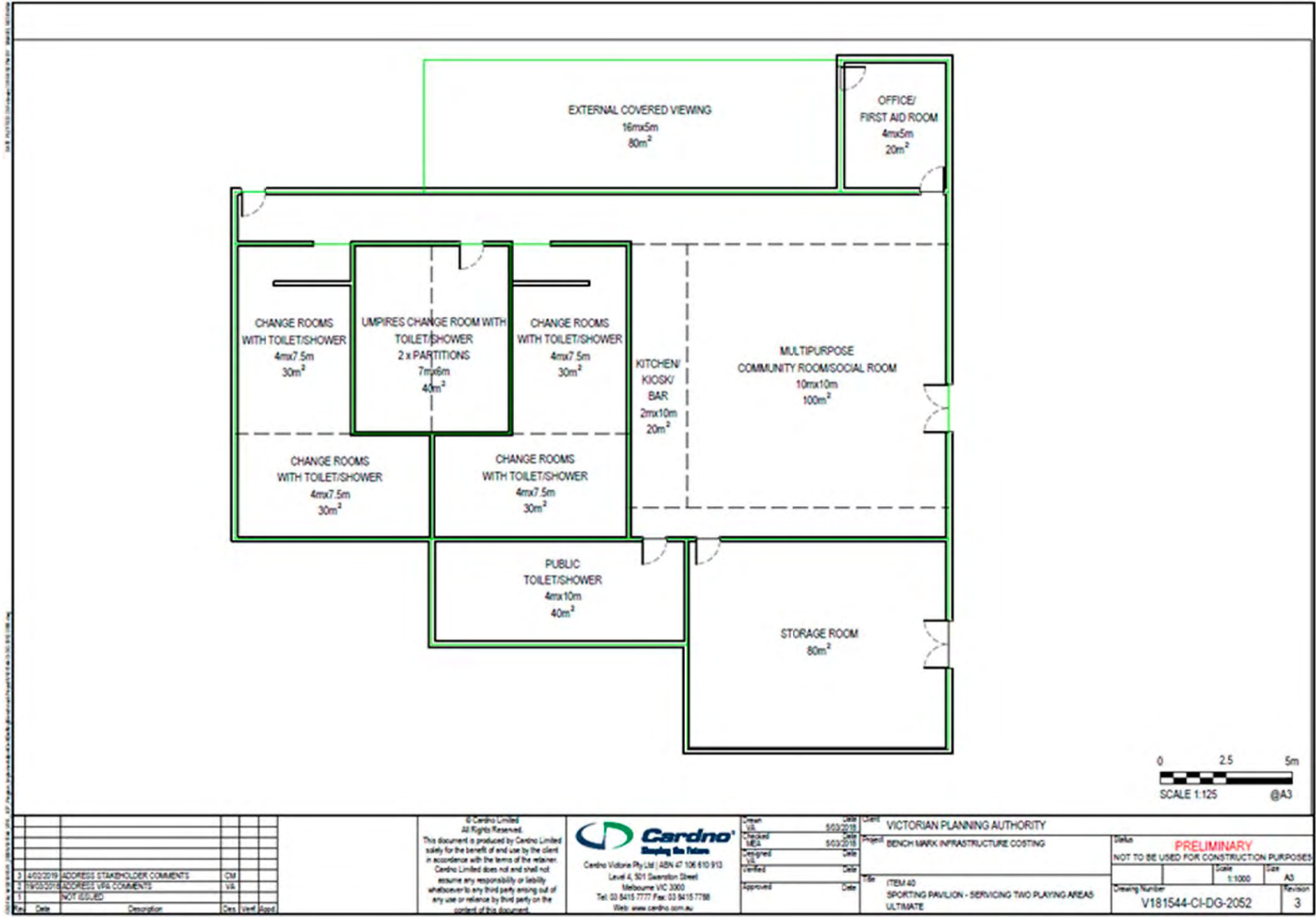


AREA SCHEDULE	
KINDERGARTEN	1,151m ²
MCH	89m ²
COMMUNITY	511m ²
COMMERCIAL KITCHEN	40m ²
TOTAL FLOOR AREA	1,791m ²
OUTDOOR PLAY	1,112m ²
COMMUNITY OUTDOOR AREAS	183m ²
CARPARKING (No.)	137 (incl. 4 ACC.)
CARPARKING (AREA)	3,634m ²

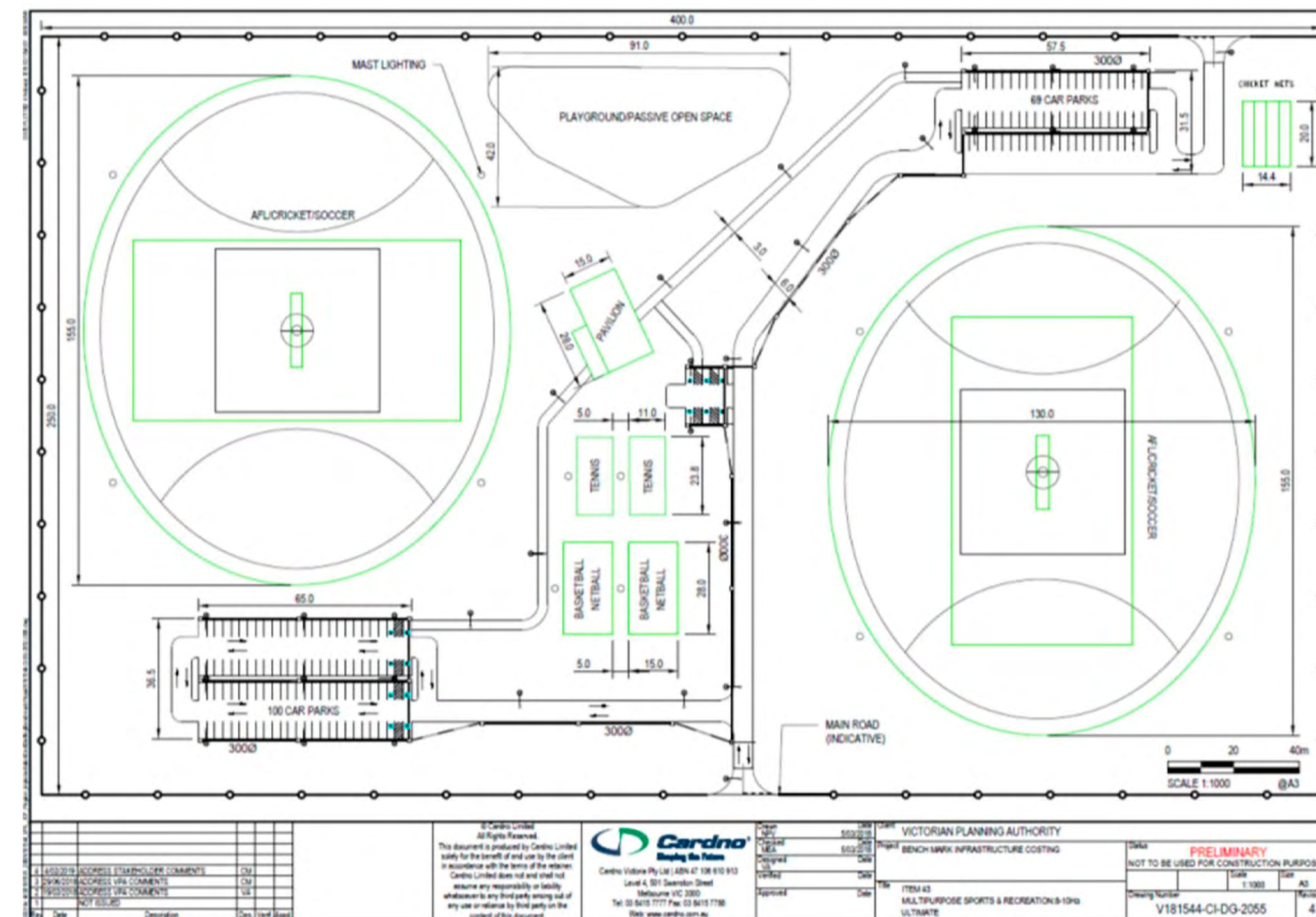
OPTION 2
LEVEL 2 COMMUNITY CENTRE
1:200 @A1

Amended by C232

Appendix 5 - Pavilion Concept Designs



Victoria Planning Authority



Amended
by C232

Appendix 7 - Detailed Cost Sheets

ACTIVE RECREATION

Description: Sporting & Recreation Facilities (8-10 Ha) - Weir Views North Sports Reserve
Civil Component Number: AR-01

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	2	No	805074.24	1610148.48	860162.38	1720324.76
	Cricket Pitch	2	No	24049.94	48099.88	28173.45	56346.90
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	0	No	526667.50	0.00	597198.85	0.00
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
	Tennis Court	2	No	65422.94	130845.88	72602.00	145204.00
Lighting	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	2	No	21415.84	42831.68	24493.23	48986.46
	Lighting Soccer	0	No	73003.05	0.00	97409.90	0.00
	Lighting Football	2	No	163494.28	326988.56	201714.52	403429.04
Landscaping	Landscaping Construction	38000	m2	20.28	770640.00	26.19	995220.00
	Landscaping Establishment (12wk)	38000	m2	1.12	42560.00	1.29	49020.00
	Landscape maintenance-1 year/2 summers	38000	m2	2.90	110200.00	2.94	111720.00
		5465	m2	94.73	517699.45	109.24	596996.60
Car Parking	Kerb and Channel	510	m	55.04	28070.40	60.11	30656.10
	Drainage Pipes	560	m	177.49	99394.40	192.51	107805.60
	Drainage Pits	28	No	2611.95	73134.60	2802.77	78477.56
	Car Park Lighting	4190	m2	15.13	63394.70	17.31	72528.90
	Linemarking/ Signage	5465	m2/pavement	3.26	17815.90	4.07	22242.55
		100000	m2	3.68	368000.00	4.71	471000.00
Site Works	Footpaths and paved areas	875	m2	63.65	55693.75	71.96	62965.00
	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
Services	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
Miscellaneous	Gates	2	Item	689.27	1378.54	740.17	1480.34
	Interchange shelter	10	Item	8443.47	84434.70	9944.59	99445.90
	Fencing	1300	m	91.87	119431.00	106.27	138151.00
	Signage	20	No	0.00	0.00	0.00	0.00
Irrigation	Irrigation Soccer	0	m	40441.04	0.00	43757.35	0.00
	Irrigation Football	2	Item	72462.96	144925.92	82052.35	164104.70
Other	Access Road	1980	m2	217.50	430650.00	225.71	446905.80
	Playground	1	m2	415857.14	415857.14	464304.86	464304.86
Delivery	Tree Planting	40	No	200.00	8000.00	230.00	9200.00
	Council Fees	1	%	3.25	210299.96	3.25	241655.44
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	129415.36	2.00	148711.04
	Environmental Management	1	%	0.50	32353.84	0.50	37177.76
	Survey/Design	1	%	5.00	323538.39	5.00	371777.60
	Supervision & Project management	1	%	9.00	582369.11	9.00	669199.68
	Site Establishment	1	%	2.50	161769.20	2.50	185888.80
	Environmentally sustainable design	1	%	2.00	101418.39	2.00	148711.04
	Contingency	1	%	15.00	970615.18	15.00	1115332.79
	Excluding Delivery				6,470,768		7,435,552
	Including Delivery				9,010,544		10,354,006
TOTAL - (2019) RATES							
TOTAL - (2021) RATES					9,590,038		11,020,402
TOTAL - (2024) RATES					11,491,914		13,205,945

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting Pavilion - Weir Views North Sports Reserve
Civil Component Number: AR-02

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
Canopy & Veranda	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
Site Works	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
Services	Stormwater	1	%	3.30	33986.22	3.30	34867.26
	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
Miscellaneous	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
	Excluding Delivery				1,150,691		1,180,521
TOTAL - (2019) RATES							
TOTAL - (2021) RATES					1,613,844		1,655,681
TOTAL - (2024) RATES					2,058,367		2,111,931

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting & Recreation Facilities (5-6 Ha) - Weir Views East Sports Reserve

Civil Component Number: AR-03

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	1	No	805074.24	805074.24	860162.38	860162.38
	Cricket Pitch	1	No	24049.94	24049.94	28173.45	28173.45
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	1	No	526667.50	526667.50	597198.85	597198.85
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
	Tennis Court	0	No	65422.94	0.00	72602.00	0.00
Lighting	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	0	No	21415.84	0.00	24493.23	0.00
	Lighting Soccer	1	No	73003.05	73003.05	97409.90	97409.90
	Lighting Football	1	No	163494.28	163494.28	201714.52	201714.52
Landscaping	Landscaping Construction	28000	m2	20.28	567840.00	26.19	733320.00
	Landscaping Establishment (12wk)	28000	m2	1.12	31360.00	1.29	36120.00
	Landscaping maintenance-1 year/2 summers	28000	m2	2.90	81200.00	2.94	82320.00
	Pavement	2740	m2	94.73	259560.20	109.24	299317.60
Car Parking	Kerb and Channel	440	m	55.04	24217.60	60.11	26448.40
	Drainage Pipes	500	m	177.49	88745.00	192.51	96255.00
	Drainage Pits	22	No	2611.95	57462.90	2802.77	61660.94
	Car Park Lighting	2572	m2	15.13	38914.36	17.31	44521.32
	Linemarking/ Signage	2740	m2/pavement	3.26	8932.40	4.07	11151.80
	Site Preparation	60000	m2	3.68	220800.00	4.71	282600.00
Site Works	Footpaths and paved areas	750	m2	63.65	47737.50	71.96	53970.00
	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
Services	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
Miscellaneous	Gates	1	Item	689.27	689.27	740.17	740.17
	Interchange shelter	10	Item	8443.47	84434.70	99445.90	994459.00
	Fencing	1000	m	91.87	91870.00	106.27	106270.00
	Signage	10	No	0.00	0.00	0.00	0.00
Irrigation	Irrigation Soccer	1	Item	40441.04	40441.04	43757.35	43757.35
	Irrigation Football	1	Item	72462.96	72462.96	82052.35	82052.35
Other	Access Road	1350	m2	217.50	293625.00	225.71	304708.50
	Playground	1	No	415857.14	415857.14	464304.86	464304.86
Delivery	Tree Planting	30	No	200.00	6000.00	230.00	6900.00
	Council Fees	1	%	3.25	162012.89	3.25	187185.67
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	99700.24	2.00	115191.18
	Environmental Management	1	%	0.50	24925.06	0.50	28797.80
	Survey/Design	1	%	5.00	249250.60	5.00	287977.96
	Supervision & Project management	1	%	9.00	448651.08	9.00	518360.33
	Site Establishment	1	%	2.50	124625.30	2.50	143988.98
	Environmentally sustainable design	1	%	2.00	86839.01	2.00	115191.18
	Contingency	1	%	15.00	747751.80	15.00	863933.88
	Excluding Delivery				4,985,012		5,759,559
	Including Delivery				6,941,629		8,020,186
TOTAL - (2019) RATES							
TOTAL - (2021) RATES					7,388,086		8,536,422
TOTAL - (2024) RATES					8,853,275		10,229,347

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting Pavilion - Weir Views East Sports Reserve

Civil Component Number: AR-04

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
Site Works	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
	Stormwater	1	%	3.30	33986.22	3.30	34867.26
Services	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Miscellaneous							
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
	Excluding Delivery				1,150,691		1,180,521
TOTAL - (2019) RATES							
TOTAL - (2021) RATES					1,613,844		1,655,681
TOTAL - (2024) RATES					1,717,714		1,762,413

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting & Recreation Facilities (8-10 Ha) - Weir View South Sports Reserve
Civil Component Number: AR-05

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	2	No	805074.24	1610148.48	860162.38	1720324.76
	Cricket Pitch	2	No	24049.94	48099.88	28173.45	56346.90
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	0	No	526667.50	0.00	597198.85	0.00
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
	Tennis Court	2	No	65422.94	130845.88	72602.00	145204.00
Lighting	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	2	No	21415.84	42831.68	24493.23	48986.46
	Lighting Soccer	0	No	73003.05	0.00	97409.90	0.00
	Lighting Football	2	No	163494.28	326988.56	201714.52	403429.04
Landscaping	Landscaping Construction	38000	m2	20.28	770640.00	26.19	995220.00
	Landscaping Establishment (12wk)	38000	m2	1.12	42560.00	1.29	49020.00
	Landscape maintenance-1 year/2 summers	38000	m2	2.90	110200.00	2.94	111720.00
	Pavement	5465	m2	94.73	517699.45	109.24	596996.60
Car Parking	Kerb and Channel	510	m	55.04	28070.40	60.11	30656.10
	Drainage Pipes	560	m	177.49	99394.40	192.51	107805.60
	Drainage Pits	28	No	2611.95	73134.60	2802.77	78477.56
	Car Park Lighting	4190	m2	15.13	63394.70	17.31	72528.90
Site Works	Linemarking/ Signage	5465	m2/pavement	3.26	17815.90	4.07	22242.55
	Site Preparation	100000	m2	3.68	368000.00	4.71	471000.00
	Footpaths and paved areas	875	m2	63.65	55693.75	71.96	62965.00
	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
Services	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
Miscellaneous	Gates	2	Item	689.27	1378.54	740.17	1480.34
	Interchange shelter	10	Item	8443.47	84434.70	9944.59	99445.90
	Fencing	1300	m	91.87	119431.00	106.27	138151.00
	Signage	20	No	0.00	0.00	0.00	0.00
Irrigation	Irrigation Soccer	0	m	40441.04	0.00	43757.35	0.00
	Irrigation Football	2	Item	72462.96	144925.92	82052.35	164104.70
Other	Access Road	1980	m2	217.50	430650.00	225.71	446905.80
	Playground	1	m2	415857.14	415857.14	464304.86	464304.86
	Tree Planting	40	No	200.00	8000.00	230.00	9200.00
Delivery	Council Fees	1	%	3.25	210299.96	3.25	241655.44
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	129415.36	2.00	148711.04
	Environmental Management	1	%	0.50	32353.84	0.50	37177.76
	Survey/Design	1	%	5.00	323538.39	5.00	371777.60
	Supervision & Project management	1	%	9.00	582369.11	9.00	669199.68
	Site Establishment	1	%	2.50	161769.20	2.50	185888.80
	Environmentally sustainable design	1	%	2.00	101418.39	2.00	148711.04
	Contingency	1	%	15.00	970615.18	15.00	1115332.79
TOTAL - (2019) RATES	Excluding Delivery				6,470,768		7,435,552
	Including Delivery				9,010,544		10,354,006
TOTAL - (2021) RATES	Including Delivery				9,590,038		11,020,402
TOTAL - (2024) RATES	Including Delivery				11,491,914		13,205,945

Description: Sporting Pavilion - Weir Views South Sports Reserve
Civil Component Number: AR-06

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
Canopy & Veranda	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
Site Works	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
Services	Stormwater	1	%	3.30	33986.22	3.30	34867.26
	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
Miscellaneous	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
TOTAL - (2019) RATES	Excluding Delivery				1,150,691		1,180,521
	Including Delivery				1,613,844		1,655,681
TOTAL - (2021) RATES	Including Delivery				1,717,714		1,762,413
TOTAL - (2024) RATES	Including Delivery				2,058,367		2,111,931

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting & Recreation Facilities (8-10 Ha) - Strathtulloh Sports Reserve
Civil Component Number: AR-07

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	2	No	805074.24	1610148.48	860162.38	1720324.76
	Cricket Pitch	2	No	24049.94	48099.88	28173.45	56346.90
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	0	No	526667.50	0.00	597198.85	0.00
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
	Tennis Court	2	No	65422.94	130845.88	72602.00	145204.00
Lighting	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	2	No	21415.84	42831.68	24493.23	48986.46
	Lighting Soccer	0	No	73003.05	0.00	97409.90	0.00
	Lighting Football	2	No	163494.28	326988.56	201714.52	403429.04
Landscaping	Landscaping Construction	38000	m2	20.28	770640.00	26.19	995220.00
	Landscaping Establishment (12wk)	38000	m2	1.12	42560.00	1.29	49020.00
	Landscaping maintenance-1 year/2 summers	38000	m2	2.90	110200.00	2.94	111720.00
Car Parking	Pavement	5465	m2	94.73	517699.45	109.24	596996.60
	Kerb and Channel	510	m	55.04	28070.40	60.11	30656.10
	Drainage Pipes	560	m	177.49	99394.40	192.51	107805.60
	Drainage Pits	28	No	2611.95	73134.60	2802.77	78477.56
	Car Park Lighting	4190	m2	15.13	63394.70	17.31	72528.90
	Linemarking/ Signage	5465	m2/pavement	3.26	17815.90	4.07	22242.55
Site Works	Site Preparation	100000	m2	3.68	368000.00	4.71	471000.00
	Footpaths and paved areas	875	m2	63.65	55693.75	71.96	62965.00
Services	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
Miscellaneous	Gates	2	Item	689.27	1378.54	740.17	1480.34
	Interchange shelter	10	Item	8443.47	84434.70	9944.59	99445.90
	Fencing	1300	m	91.87	119431.00	106.27	138151.00
	Signage	20	No	0.00	0.00	0.00	0.00
Irrigation	Irrigation Soccer	0	m	40441.04	0.00	43757.35	0.00
	Irrigation Football	2	Item	72462.96	144925.92	82052.35	164104.70
Other	Access Road	1980	m2	217.50	430650.00	225.71	446905.80
	Playground	1	m2	415857.14	415857.14	464304.86	464304.86
Delivery	Tree Planting	40	No	200.00	8000.00	230.00	9200.00
	Council Fees	1	%	3.25	210299.96	3.25	241655.44
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	129415.36	2.00	148711.04
	Environmental Management	1	%	0.50	32353.84	0.50	37177.76
	Survey/Design	1	%	5.00	323538.39	5.00	371777.60
	Supervision & Project management	1	%	9.00	582369.11	9.00	669199.68
	Site Establishment	1	%	2.50	161769.20	2.50	185888.80
	Environmentally sustainable design	1	%	2.00	101418.39	2.00	148711.04
	Contingency	1	%	15.00	970615.18	15.00	1115332.79
TOTAL - (2019) RATES					6,470,768		7,435,552
					9,010,544		10,354,006
TOTAL - (2021) RATES					9,590,038		11,020,402
TOTAL - (2024) RATES					11,491,914		13,205,945

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting Pavilion - Strathtulloh Sports Reserve (2 Pavilions required)
Civil Component Number: AR-08

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
Canopy & Veranda	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
Site Works	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
Services	Stormwater	1	%	3.30	33986.22	3.30	34867.26
	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Miscellaneous							
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
TOTAL - (2019) RATES					1,150,691		1,180,521
					1,613,844		1,655,681
TOTAL - (2021) RATES					3,435,428		3,524,826
TOTAL - (2024) RATES					4,116,735		4,223,862

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting & Recreation Facilities (8-10 Ha) - Thornhill Park Sports Reserve
Civil Component Number: AR-09

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	2	No	805074.24	1610148.48	860162.38	1720324.76
	Cricket Pitch	2	No	24049.94	48099.88	28173.45	56346.90
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	0	No	526667.50	0.00	597198.85	0.00
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
	Tennis Court	2	No	65422.94	130845.88	72602.00	145204.00
Lighting	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	2	No	21415.84	42831.68	24493.23	48986.46
	Lighting Soccer	0	No	73003.05	0.00	97409.90	0.00
	Lighting Football	2	No	163494.28	326988.56	201714.52	403429.04
Landscaping	Landscaping Construction	38000	m2	20.28	770640.00	26.19	995220.00
	Landscaping Establishment (12wk)	38000	m2	1.12	42560.00	1.29	49020.00
	Landscaping maintenance-1 year/2 summers	38000	m2	2.90	110200.00	2.94	111720.00
Car Parking	Pavement	5465	m2	94.73	517699.45	109.24	596996.60
	Kerb and Channel	510	m	55.04	28070.40	60.11	30656.10
	Drainage Pipes	560	m	177.49	99394.40	192.51	107805.60
	Drainage Pits	28	No	2611.95	73134.60	2802.77	78477.56
	Car Park Lighting	4190	m2	15.13	63394.70	17.31	72528.90
	Linemarking/ Signage	5465	m2/pavement	3.26	17815.90	4.07	22242.55
Site Works	Site Preparation	100000	m2	3.68	368000.00	4.71	471000.00
	Footpaths and paved areas	875	m2	63.65	55693.75	71.96	62965.00
Services	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
Miscellaneous	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
	Gates	2	Item	689.27	1378.54	740.17	1480.34
	Interchange shelter	10	Item	8443.47	84434.70	9944.59	99445.90
	Fencing	1300	m	91.87	119431.00	106.27	138151.00
	Signage	20	No	0.00	0.00	0.00	0.00
Irrigation	Irrigation Soccer	0	m	40441.04	0.00	43757.35	0.00
	Irrigation Football	2	Item	72462.96	144925.92	82052.35	164104.70
Other	Access Road	1980	m2	217.50	430650.00	225.71	446905.80
	Playground	1	m2	415857.14	415857.14	464304.86	464304.86
Delivery	Tree Planting	40	No	200.00	8000.00	230.00	9200.00
	Council Fees	1	%	3.25	210299.96	3.25	241655.44
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	129415.36	2.00	148711.04
	Environmental Management	1	%	0.50	32353.84	0.50	37177.76
	Survey/Design	1	%	5.00	323538.39	5.00	371777.60
	Supervision & Project management	1	%	9.00	582369.11	9.00	669199.68
	Site Establishment	1	%	2.50	161769.20	2.50	185888.80
	Environmentally sustainable design	1	%	2.00	101418.39	2.00	148711.04
	Contingency	1	%	15.00	970615.18	15.00	1115332.79
TOTAL - (2019) RATES					6,470,768		7,435,552
					9,010,544		10,354,006
TOTAL - (2021) RATES					9,590,038		11,020,402
TOTAL - (2024) RATES					11,491,914		13,205,945

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting Pavilion - Strathtulloh Sports Reserve (2 Pavilions required)
Civil Component Number: AR-10

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
Canopy & Veranda	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
Site Works	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
Services	Stormwater	1	%	3.30	33986.22	3.30	34867.26
	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
Miscellaneous	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
TOTAL - (2019) RATES							
					1,150,691		1,180,521
TOTAL - (2021) RATES							
					1,613,844		1,655,681
TOTAL - (2021) RATES							
					1,717,714		1,762,413
TOTAL - (2024) RATES							
					2,058,367		2,111,931

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting & Recreation Facilities (8-10 Ha) - Thornhill Park Sports Reserve

Civil Component Number: AR-11

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	1	No	805074.24	805074.24	860162.38	860162.38
	Cricket Pitch	1	No	24049.94	24049.94	28173.45	28173.45
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	1	No	526667.50	526667.50	597198.85	597198.85
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
Lighting	Tennis Court	0	No	65422.94	0.00	72602.00	0.00
	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	0	No	21415.84	0.00	24493.23	0.00
	Lighting Soccer	1	No	73003.05	73003.05	97409.90	97409.90
	Lighting Football	1	No	163494.28	163494.28	201714.52	201714.52
Landscaping	Landscaping Construction	28000	m2	20.28	567840.00	26.19	733320.00
	Landscaping Establishment (12wk)	28000	m2	1.12	31360.00	1.29	36120.00
	Landscape maintenance-1 year/2 summers	28000	m2	2.90	81200.00	2.94	82320.00
Car Parking	Pavement	2740	m2	94.73	259560.20	109.24	299317.60
	Kerb and Channel	440	m	55.04	24217.60	60.11	26448.40
	Drainage Pipes	500	m	177.49	88745.00	192.51	96255.00
	Drainage Pits	22	No	2611.95	57462.90	2802.77	61660.94
	Car Park Lighting	2572	m2	15.13	38914.36	17.31	44521.32
Site Works	Linemarking/ Signage	2740	m2/pavement	3.26	8932.40	4.07	11151.80
	Site Preparation	60000	m2	3.68	220800.00	4.71	282600.00
	Footpaths and paved areas	750	m2	63.65	47737.50	71.96	53970.00
Services	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
Miscellaneous	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
	Gates	1	Item	689.27	689.27	740.17	740.17
	Interchange shelter	10	Item	8443.47	84434.70	99445.90	994459.00
	Fencing	1000	m	91.87	91870.00	106.27	106270.00
Irrigation	Signage	10	No	0.00	0.00	0.00	0.00
	Irrigation Soccer	1	Item	40441.04	40441.04	43757.35	43757.35
Other	Irrigation Football	1	Item	72462.96	72462.96	82052.35	82052.35
	Access Road	1350	m2	217.50	293625.00	225.71	304708.50
	Playground	1	No	415857.14	415857.14	464304.86	464304.86
Delivery	Tree Planting	30	No	200.00	6000.00	230.00	6900.00
	Council Fees	1	%	3.25	162012.89	3.25	187185.67
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	99700.24	2.00	115191.18
	Environmental Management	1	%	0.50	24925.06	0.50	28797.80
	Survey/Design	1	%	5.00	249250.60	5.00	287977.96
	Supervision & Project management	1	%	9.00	448651.08	9.00	518360.33
	Site Establishment	1	%	2.50	124625.30	2.50	143988.98
	Environmentally sustainable design	1	%	2.00	86839.01	2.00	115191.18
	Contingency	1	%	15.00	747751.80	15.00	863933.88
TOTAL - (2019) RATES					4,985,012		5,759,559
					6,941,629		8,020,186
TOTAL - (2021) RATES							
					7,388,086		8,536,422
TOTAL - (2024) RATES							
					8,853,275		10,229,347

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting Pavilion - Cobblebank East Sports Reserve

Civil Component Number: AR-12

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
Canopy & Veranda	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
Site Works	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
Services	Stormwater	1	%	3.30	33986.22	3.30	34867.26
	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Miscellaneous							
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
TOTAL - (2019) RATES							
					1,150,691		1,180,521
TOTAL - (2021) RATES							
					1,613,844		1,655,681
TOTAL - (2024) RATES							
					1,717,714		1,762,413
TOTAL - (2024) RATES							
					2,058,367		2,111,931

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting & Recreation Facilities (8-10 Ha) - Cobblebank Central Sports Reserve
Civil Component Number: AR-13

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Playing Fields	Football Field	2	No	805074.24	1610148.48	860162.38	1720324.76
	Cricket Pitch	2	No	24049.94	48099.88	28173.45	56346.90
	Cricket Nets	1	No	49791.30	49791.30	57497.73	57497.73
	Soccer Field	0	No	526667.50	0.00	597198.85	0.00
	Netball Court	2	No	83143.13	166286.26	98076.30	196152.60
	Tennis Court	2	No	65422.94	130845.88	72602.00	145204.00
Lighting	Lighting Netball Court	2	No	22802.95	45605.90	24396.01	48792.02
	Lighting Tennis	2	No	21415.84	42831.68	24493.23	48986.46
	Lighting Soccer	0	No	73003.05	0.00	97409.90	0.00
	Lighting Football	2	No	163494.28	326988.56	201714.52	403429.04
Landscaping	Landscaping Construction	38000	m2	20.28	770640.00	26.19	995220.00
	Landscaping Establishment (12wk)	38000	m2	1.12	42560.00	1.29	49020.00
	Landscaping maintenance-1 year/2 summers	38000	m2	2.90	110200.00	2.94	111720.00
Car Parking	Pavement	5465	m2	94.73	517699.45	109.24	596996.60
	Kerb and Channel	510	m	55.04	28070.40	60.11	30656.10
	Drainage Pipes	560	m	177.49	99394.40	192.51	107805.60
	Drainage Pits	28	No	2611.95	73134.60	2802.77	78477.56
	Car Park Lighting	4190	m2	15.13	63394.70	17.31	72528.90
	Linemarking/ Signage	5465	m2/pavement	3.26	17815.90	4.07	22242.55
Site Works	Site Preparation	100000	m2	3.68	368000.00	4.71	471000.00
	Footpaths and paved areas	875	m2	63.65	55693.75	71.96	62965.00
Services	Stormwater Drainage	1	Item	251068.39	251068.39	285507.93	285507.93
	Sewer	1	Item	52065.67	52065.67	62444.50	62444.50
	Water	1	Item	75629.58	75629.58	88426.00	88426.00
	Gas	1	Item	16727.49	16727.49	20125.23	20125.23
	Light & power	1	Item	231657.53	231657.53	286561.25	286561.25
	Communications	1	Item	46504.09	46504.09	65834.30	65834.30
Miscellaneous	Fire	1	Item	25236.69	25236.69	27694.32	27694.32
	Gates	2	Item	689.27	1378.54	740.17	1480.34
	Interchange shelter	10	Item	8443.47	84434.70	9944.59	99445.90
	Fencing	1300	m	91.87	119431.00	106.27	138151.00
	Signage	20	No	0.00	0.00	0.00	0.00
Irrigation	Irrigation Soccer	0	m	40441.04	0.00	43757.35	0.00
	Irrigation Football	2	Item	72462.96	144925.92	82052.35	164104.70
Other	Access Road	1980	m2	217.50	430650.00	225.71	446905.80
	Playground	1	m2	415857.14	415857.14	464304.86	464304.86
Delivery	Tree Planting	40	No	200.00	8000.00	230.00	9200.00
	Council Fees	1	%	3.25	210299.96	3.25	241655.44
	Authority Fees	1	%	0.00	0.00	0.00	0.00
	Traffic Management	1	%	2.00	129415.36	2.00	148711.04
	Environmental Management	1	%	0.50	32353.84	0.50	37177.76
	Survey/Design	1	%	5.00	323538.39	5.00	371777.60
	Supervision & Project management	1	%	9.00	582369.11	9.00	669199.68
	Site Establishment	1	%	2.50	161769.20	2.50	185888.80
	Environmentally sustainable design	1	%	2.00	101418.39	2.00	148711.04
	Contingency	1	%	15.00	970615.18	15.00	1115332.79
TOTAL - (2019) RATES					6,470,768		7,435,552
					9,010,544		10,354,006
TOTAL - (2021) RATES					9,590,038		11,020,402
TOTAL - (2024) RATES					11,491,914		13,205,945

Source – Benchmark Infrastructure Report, VPA, April 2019

Description: Sporting Pavilion - Cobblebank Central Sports Reserve
Civil Component Number: AR-14

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Building	Site Preparation	721	m2	3.68	2653.28	5.18	3734.78
	Change Rooms with Toilets and Showers X 6	120	m2	2408.05	288966.00	2445.18	293421.60
	Umpire Change Rooms with Toilets	40	m2	2519.24	100769.60	2594.83	103793.20
	Storage Rooms	80	m2	2414.15	193132.00	2406.11	192488.80
	Multipurpose Room/ Social Room	100	m2	2365.43	236543.00	2330.09	233009.00
	Office/ First Aid Room	20	m2	2351.62	47032.40	2360.28	47205.60
	Canteen and Kitchen	20	m2	2514.88	50297.60	2524.88	50497.60
	Public Toilet	40	m2	1238.63	49545.20	1585.83	63433.20
Canopy & Veranda	Canopy and Veranda	80	m2	761.83	60946.40	69000.00	69000.00
Site Works	Concrete Paths	0	m2	0.00	0.00	0.00	0.00
	Lighting	0	m2	0.00	0.00	0.00	0.00
	Gates/entrances	0	m2	0.00	0.00	0.00	0.00
	Other-Miscellaneous	0	m2	0.00	0.00	0.00	0.00
Services	Stormwater	1	%	3.30	33986.22	3.30	34867.26
	Sewer	1	%	2.03	20906.68	2.03	21448.65
	Water	1	%	1.98	20391.73	1.98	20920.36
	Gas	1	%	0.88	9062.99	0.88	9297.94
	Fire Protection	1	%	0.66	6797.24	0.66	6973.45
	Light & Power	1	%	2.38	24511.27	2.38	25146.69
	Communication	1	%	0.50	5149.43	0.50	5282.92
Miscellaneous	Sub-standard site conditions	0	% of area	0.00	0.00	0.00	0.00
Delivery	Council Fees	1	%	3.25	37397.46	3.25	38366.93
	Authority Fees	1	%	1.00	11506.91	1.00	11805.21
	Traffic Management	1	%	2.00	23013.82	2.00	23610.42
	Environmental Management	1	%	0.50	5753.46	0.50	5902.61
	Survey/Design	1	%	5.00	57534.55	5.00	59026.05
	Supervision & Project management	1	%	9.00	103562.19	9.00	106246.89
	Site Establishment	1	%	2.50	28767.28	2.50	29513.03
	Environmentally sustainable design	1	%	2.00	23013.82	2.00	23610.42
	Contingency	1	%	15.00	172603.66	15.00	177078.16
TOTAL - (2019) RATES					1,150,691		1,180,521
					1,613,844		1,655,681
TOTAL - (2021) RATES					1,717,714		1,762,413
TOTAL - (2024) RATES					2,058,367		2,111,931

Source – Benchmark Infrastructure Report, VPA, April 2019



Description: Bridge Road Sports Reserve
Construction of a sports reserve in Community Hub 6
Area 2 Contribution (60%)
DCP Project No.: AR-15A
Status of Project: Constructed

GROUP	AMOUNT
Construction Cost - (2011) rates	\$1,710,288
Construction Cost – (2021) rates	\$2,296,580
Construction Cost – (2024) rates	\$2,752,032

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Sports Reserve
Construction of a sports reserve in Community Hub 6
Area 3 Contribution (40%)
DCP Project No.: AR-15B
Status of Project: Constructed

GROUP	AMOUNT
Construction Cost - (2011) rates	\$1,140,192
Construction Cost – (2021) rates	\$1,531,053
Construction Cost – (2024) rates	\$1,834,688

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Sports Reserve
Construction of a pavilion in Community Hub 6
Area 2 Contribution (60%)
DCP Project No.: AR-16
Status of Project: Constructed

GROUP	AMOUNT
Construction Cost - (2011) rates	\$1,200,000
Construction Cost – (2021) rates	\$1,611,363
Construction Cost – (2024) rates	\$1,930,926

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

BRIDGES

Description: Abey Road Bridge
DCP Project No.: BD-01
Status of Project: Constructed

GROUP	AMOUNT
Construction Cost - (2011) rates	\$3,675,000
Construction Cost – (2021) rates	\$4,934,800
Construction Cost – (2024) rates	\$5,913,459

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Bridge
DCP Project No.: BD-02
Status of Project: Constructed

GROUP	AMOUNT
Construction Cost - (2011) rates	\$5,243,000
Construction Cost – (2021) rates	\$7,040,315
Construction Cost – (2024) rates	\$8,436,535

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: East West Arterial Bridge
DCP Project No.: BD-03

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	132968.20	132968.20	239342.76	239342.76
	Earthworks	1	m3	3034648.65	3034648.65	3307767.03	3307767.03
	Retaining Walls, abutments, footings	1	No	1115200.00	1115200.00	1255534.91	1255534.91
On-Structure Works	Bridge Deck	1	No	1676607.73	1676607.73	2749637.68	2749637.68
	Guard Rails/Balustrade	183	m	350.00	64050.00	450.64	82467.83
	Transition Slab	2	No	76932.05	153864.10	88471.86	176943.72
	Overall Super T Cost	1493	m2	789.24	1178333.46	931.30	1390433.44
	Guard Rails/ Balustrade	256	m	350.00	89600.00	420.04	107529.58
Off Structure	GREAT Terminal	4	No	8767.42	35069.68	13875.66	55502.64
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Kerb and Channel	151	m	100.00	15100.00	112.58	17000.16
Other	Bridge Lighting	4	No	20000.00	80000.00	23000.00	92000.01
	Regulatory Signage	1	Item	10000.00	10000.00	11500.00	11500.00
	Drainage Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage - Sub-soil Drainage	50	m	350.00	17500.00	395.50	19775.00
	Landscaping	145	m2	60.00	8700.00	65.45	9490.59
	Council Fees	1	%	3.25	247833.36	3.25	309747.33
	VicRoads Fees	1	%	1.00	76256.42	1.00	95306.87
	Traffic Management	1	%	5.00	381282.09	5.00	476534.35
Delivery	Environmental Management	1	%	0.50	38128.21	0.50	47653.44
	Survey & Design	1	%	5.00	381282.09	5.00	476534.35
	Supervision & Project management	1	%	9.00	686307.76	9.00	857761.84
	Site Establishment	1	%	2.50	190641.05	2.50	238267.18
	Contingency	1	%	20.00	1525128.36	20.00	1906137.42
	Excluding Delivery				7,625,642		9,530,687
	Including Delivery				11,152,501		13,938,630
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				12,156,226		15,193,107
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				14,567,023		18,206,172

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Shared Use Pedestrian Bridge 1: Toolern Creek
Civil Component Number: BD-04

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	18564.00	18564.00	33415.20	33415.20
	Earthworks	1	m3	243150.00	243150.00	265033.50	265033.50
On-Structure Works	Retaining Walls, abutments, footings	1	No	206600.00	206600.00	232598.20	232598.20
	Bridge Deck	1	No	79628.00	79628.00	130351.56	130351.56
	Guard Rails/Balustrade	60	m	350.00	21000.00	450.64	27038.63
	Transition Slab	2	No	11000.00	22000.00	12650.00	25300.00
	Overall Super T Cost	169	m2	345.00	58305.00	407.10	68799.90
	Pedestrian Guard Rails/ Balustrade	0	m	0.00	0.00	0.00	0.00
Off Structure	GREAT Terminal	0	No	0.00	0.00	0.00	0.00
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
Other	Edge/Kerbs	90	m	100.00	9000.00	112.58	10132.54
	Bridge Lighting	2	No	10000.00	20000.00	11500.00	23000.00
	Regulatory Signage	1	Item	5000.00	5000.00	5750.00	5750.00
	Drainage Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage - Sub-soil Drainage	50	m	350.00	17500.00	395.50	19775.00
	Landscaping	224	m2	60.00	13440.00	65.45	14661.33
Delivery	Council Fees	1	%	3.25	23666.08	3.25	28327.57
	VicRoads Fees	1	%	1.00	7281.87	1.00	8716.18
	Traffic Management	1	%	5.00	36409.35	5.00	43580.88
	Environmental Management	1	%	0.50	3640.94	0.50	4358.09
	Survey & Design	1	%	5.00	36409.35	5.00	43580.88
	Supervision & Project management	1	%	9.00	65536.83	9.00	78445.58
	Site Establishment	1	%	2.50	18204.68	2.50	21790.44
	Contingency	1	%	20.00	145637.40	20.00	174323.52
TOTAL - (2019) RATES	Excluding Delivery				728,187		871,618
	Including Delivery				1,064,973		1,274,741
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				1,160,821		1,389,467
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				1,391,032		1,665,023

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Shared Use Pedestrian Bridge 2: Toolern Creek
Civil Component Number: BD-05

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	18564.00	18564.00	33415.20	33415.20
	Earthworks	1	m3	243150.00	243150.00	265033.50	265033.50
On-Structure Works	Retaining Walls, abutments, footings	1	No	206600.00	206600.00	232598.20	232598.20
	Bridge Deck	1	No	79628.00	79628.00	130351.56	130351.56
	Guard Rails/Balustrade	60	m	350.00	21000.00	450.64	27038.63
	Transition Slab	2	No	11000.00	22000.00	12650.00	25300.00
	Overall Super T Cost	169	m2	345.00	58305.00	407.10	68799.90
	Pedestrian Guard Rails/ Balustrade	0	m	0.00	0.00	0.00	0.00
Off Structure	GREAT Terminal	0	No	0.00	0.00	0.00	0.00
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
Other	Edge/Kerbs	90	m	100.00	9000.00	112.58	10132.54
	Bridge Lighting	2	No	10000.00	20000.00	11500.00	23000.00
	Regulatory Signage	1	Item	5000.00	5000.00	5750.00	5750.00
	Drainage Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage - Sub-soil Drainage	50	m	350.00	17500.00	395.50	19775.00
	Landscaping	224	m2	60.00	13440.00	65.45	14661.33
Delivery	Council Fees	1	%	3.25	23666.08	3.25	28327.57
	VicRoads Fees	1	%	1.00	7281.87	1.00	8716.18
	Traffic Management	1	%	5.00	36409.35	5.00	43580.88
	Environmental Management	1	%	0.50	3640.94	0.50	4358.09
	Survey & Design	1	%	5.00	36409.35	5.00	43580.88
	Supervision & Project management	1	%	9.00	65536.83	9.00	78445.58
	Site Establishment	1	%	2.50	18204.68	2.50	21790.44
	Contingency	1	%	20.00	145637.40	20.00	174323.52
TOTAL - (2019) RATES	Excluding Delivery				728,187		871,618
	Including Delivery				1,064,973		1,274,741
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				1,160,821		1,389,467
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				1,391,032		1,665,023

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Shared Use Pedestrian Bridge 3: Toolern Creek
Civil Component Number: BD-06

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	18564.00	18564.00	33395.02	33395.02
	Earthworks	1	m3	535200.00	535200.00	583835.11	583835.11
On-Structure Works	Retaining Walls, abutments, footings	1	No	106500.00	106500.00	119901.78	119901.78
	Bridge Deck	1	No	79628.00	79628.00	130351.56	130351.56
	Guard Rails/Balustrade	60	m	350.00	21000.00	450.64	27038.63
	Transition Slab	2	No	11000.00	22000.00	12650.00	25300.00
	Overall Super T Cost	169	m2	345.00	58305.00	407.10	68799.90
Off Structure	Pedestrian Guard Rails/ Balustrade	0	m	0.00	0.00	0.00	0.00
	GREAT Terminal	0	No	0.00	0.00	0.00	0.00
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
Other	Edge/Kerbs	90	m	100.00	9000.00	112.58	10132.54
	Bridge Lighting	2	No	10000.00	20000.00	11500.00	23000.00
	Regulatory Signage	1	Item	5000.00	5000.00	5750.00	5750.00
	Drainage Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage - Sub-soil Drainage	50	m	350.00	17500.00	394.04	19702.17
	Landscaping	674	m2	60.00	40440.00	65.45	44114.90
Delivery	Council Fees	1	%	3.25	30781.95	3.25	35980.21
	VicRoads Fees	1	%	1.00	9471.37	1.00	11070.83
	Traffic Management	1	%	5.00	47356.85	5.00	55354.17
	Environmental Management	1	%	0.50	4735.69	0.50	5535.42
	Survey & Design	1	%	5.00	47356.85	5.00	55354.17
	Supervision & Project management	1	%	9.00	85242.33	9.00	99637.50
	Site Establishment	1	%	2.50	23678.43	2.50	27677.08
	Contingency	1	%	20.00	189427.40	20.00	221416.67
TOTAL - (2019) RATES	Excluding Delivery				947,137		1,107,083
	Including Delivery				1,385,188		1,619,109
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				1,509,855		1,764,829
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				1,809,286		2,114,826

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Pedestrian Underpass 1: Melbourne Ballarat Railway
Civil Component Number: BD-07

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Site works & Earthworks	Site Preparation		%	2.00	39865.92	3.60	81966.77
	Earthworks - cut	2,185	m3	50.00	109250.00	54.54	119177.85
	Earthworks - cut assumed e/o in rock say 40%	874	m3	100.00	87400.00	109.09	95342.28
	Structural fill	818	m3	120.00	98160.00	130.90	107080.07
Concrete Works	Geocomposite drainage material to crown units	484	m2	75.00	36300.00	86.25	41745.00
	300mm thick RC slab	202	m2	350.00	70700.00	402.50	81305.01
	150mm min compacted granular bedding	323	m2	25.00	8075.00	28.75	9286.25
	Pedestrian culvert - 3.6 x 3.0 x 2.4m RC crown units (21 no.)	816	m2	1200.00	979776.00	1380.00	1126742.50
	200mm thick RC endwall	75	m2	350.00	26250.00	394.04	29553.26
	380mm thick RC slab to endwall area (inlet and outlet)	24	m2	500.00	12000.00	575.00	13800.00
	750mm deep x 300mm wide edge beam to endwall area	13	m2	500.00	6375.00	562.92	7177.22
	150mm thick RC shared path ramps and landing slab	369	m2	200.00	73800.00	230.00	84870.01
	250mm thick x 1.2m high retaining wall including foundation	77	m2	350.00	26950.00	394.04	30341.34
	250mm thick x 2.6m high retaining wall including foundation	71	m2	400.00	28400.00	450.34	31973.81
	250mm thick x 2.8m high retaining wall including foundation	77	m2	400.00	30800.00	450.34	34675.82
	300mm thick x 3m high retaining wall including foundation	171	m2	550.00	94050.00	619.21	105885.10
Drainage	Concrete stairs including landing	6	m/rise	9000.00	54000.00	10350.00	62100.01
	Drainage – Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage – Sub-soil Drainage	129	m	350.00	45010.00	394.04	50673.98
	Drainage – underpass	100	m	75.00	7500.00	84.44	8443.79
Other	Culvert Lighting	50	m	1250.00	62500.00	1437.50	71875.01
	Ramp/stair Lighting	2	No	10000.00	20000.00	11500.00	23000.00
	Regulatory Signage	1	Item	500.00	500.00	575.00	575.00
	Safety fence (1.2m high) on top of retaining wall	65	m	300.00	19500.00	337.75	21953.85
	Pedestrian handrails	308	m	250.00	77000.00	321.89	99141.66
	Tactile Pavers (Hazard Only)	1	Item	5000.00	5000.00	5750.00	5750.00
Delivery	Council Fees		%	3.25	66077.76	3.25	76706.41
	VicRoads Fees		%	1.00	20331.62	1.00	23601.97
	Traffic Management		%	5.00	101658.10	5.00	118009.87
	Environmental Management		%	0.50	10165.81	0.50	11800.99
	Survey & Design		%	5.00	101658.10	5.00	118009.87
	Supervision & Project management		%	9.00	182984.57	9.00	212417.76
TOTAL - (2019) RATES	Site Establishment				2,033,161.92		2,360,197.32
	Contingency (bridge projects)				2,973,499.31		3,451,788.58
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				3,241,114.00		3,762,450.00
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				3,883,884.76		4,508,611.00

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Pedestrian Underpass 2: Melbourne Ballarat Railway
Civil Component Number: BD-08

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Site works & Earthworks	Site Preparation		%	2.00	39865.92	3.60	81966.77
	Earthworks - cut	2,185	m3	50.00	109250.00	54.54	119177.85
	Earthworks - cut assumed e/o in rock say 40%	874	m3	100.00	87400.00	109.09	95342.28
	Structural fill	818	m3	120.00	98160.00	130.90	107080.07
Concrete Works	Geocomposite drainage material to crown units	484	m2	75.00	36300.00	86.25	41745.00
	300mm thick RC slab	202	m2	350.00	70700.00	402.50	81305.01
	150mm min compacted granular bedding	323	m2	25.00	8075.00	28.75	9286.25
	Pedestrian culvert - 3.6 x 3.0 x 2.4m RC crown units (21 no.)	816	m2	1200.00	979776.00	1380.00	1126742.50
	200mm thick RC endwall	75	m2	350.00	26250.00	394.04	29553.26
	380mm thick RC slab to endwall area (inlet and outlet)	24	m2	500.00	12000.00	575.00	13800.00
	750mm deep x 300mm wide edge beam to endwall area	13	m2	500.00	6375.00	562.92	7177.22
	150mm thick RC shared path ramps and landing slab	369	m2	200.00	73800.00	230.00	84870.01
	250mm thick x 1.2m high retaining wall including foundation	77	m2	350.00	26950.00	394.04	30341.34
	250mm thick x 2.6m high retaining wall including foundation	71	m2	400.00	28400.00	450.34	31973.81
	250mm thick x 2.8m high retaining wall including foundation	77	m2	400.00	30800.00	450.34	34675.82
	300mm thick x 3m high retaining wall including foundation	171	m2	550.00	94050.00	619.21	105885.10
	Concrete stairs including landing	6	m/rise	9000.00	54000.00	10350.00	62100.01
Drainage	Drainage – Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage – Sub-soil Drainage	129	m	350.00	45010.00	394.04	50673.98
	Drainage – underpass	100	m	75.00	7500.00	84.44	8443.79
Other	Culvert Lighting	50	m	1250.00	62500.00	1437.50	71875.01
	Ramp/stair Lighting	2	No	10000.00	20000.00	11500.00	23000.00
	Regulatory Signage	1	Item	500.00	500.00	575.00	575.00
	Safety fence (1.2m high) on top of retaining wall	65	m	300.00	19500.00	337.75	21953.85
Delivery	Pedestrian handrails	308	m	250.00	77000.00	321.89	99141.66
	Tactile Pavers (Hazard Only)	1	Item	5000.00	5000.00	5750.00	5750.00
	Council Fees		%	3.25	66077.76	3.25	76706.41
	VicRoads Fees		%	1.00	20331.62	1.00	23601.97
	Traffic Management		%	5.00	101658.10	5.00	118009.87
	Environmental Management		%	0.50	10165.81	0.50	11800.99
	Survey & Design		%	5.00	101658.10	5.00	118009.87
	Supervision & Project management		%	9.00	182984.57	9.00	212417.76
	TOTAL - (2019) RATES				2,033,161.92		2,360,197.32
	Contingency (bridge projects)				2,973,499.31		3,451,788.58
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				3,241,114.00		3,762,450.00
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				3,883,884.76		4,508,611.00

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Bridge: Railway Pedestrian Underpass
DCP Project No.: BD-09
Status of Project: Project deleted – replaced by the East Road Rail Overpass (BD16)

Description: Pedestrian Underpass 4: Melbourne Ballarat Railway
Civil Component Number: BD-10

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Site works & Earthworks	Site Preparation		%	2.00	39865.92	3.60	81966.77
	Earthworks - cut	2,185	m3	50.00	109250.00	54.54	119177.85
	Earthworks - cut assumed e/o in rock say 40%	874	m3	100.00	87400.00	109.09	95342.28
	Structural fill	818	m3	120.00	98160.00	130.90	107080.07
Concrete Works	Geocomposite drainage material to crown units	484	m2	75.00	36300.00	86.25	41745.00
	300mm thick RC slab	202	m2	350.00	70700.00	402.50	81305.01
	150mm min compacted granular bedding	323	m2	25.00	8075.00	28.75	9286.25
	Pedestrian culvert - 3.6 x 3.0 x 2.4m RC crown units (21 no.)	816	m2	1200.00	979776.00	1380.00	1126742.50
	200mm thick RC endwall	75	m2	350.00	26250.00	394.04	29553.26
	380mm thick RC slab to endwall area (inlet and outlet)	24	m2	500.00	12000.00	575.00	13800.00
	750mm deep x 300mm wide edge beam to endwall area	13	m2	500.00	6375.00	562.92	7177.22
	150mm thick RC shared path ramps and landing slab	369	m2	200.00	73800.00	230.00	84870.01
	250mm thick x 1.2m high retaining wall including foundation	77	m2	350.00	26950.00	394.04	30341.34
	250mm thick x 2.6m high retaining wall including foundation	71	m2	400.00	28400.00	450.34	31973.81
	250mm thick x 2.8m high retaining wall including foundation	77	m2	400.00	30800.00	450.34	34675.82
	300mm thick x 3m high retaining wall including foundation	171	m2	550.00	94050.00	619.21	105885.10
	Concrete stairs including landing	6	m/rise	9000.00	54000.00	10350.00	62100.01
Drainage	Drainage – Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage – Sub-soil Drainage	129	m	350.00	45010.00	394.04	50673.98
	Drainage – underpass	100	m	75.00	7500.00	84.44	8443.79
Street Lighting	Culvert Lighting	50	m	1250.00	62500.00	1437.50	71875.01
	Ramp/stair Lighting	2	No	10000.00	20000.00	11500.00	23000.00
Other	Regulatory Signage	1	Item	500.00	500.00	575.00	575.00
	Safety fence (1.2m high) on top of retaining wall	65	m	300.00	19500.00	337.75	21953.85
	Pedestrian handrails	308	m	250.00	77000.00	321.89	99141.66
	Tactile Pavers (Hazard Only)	1	Item	5000.00	5000.00	5750.00	5750.00
Delivery	Council Fees		%	3.25	66077.76	3.25	76706.41
	VicRoads Fees		%	1.00	20331.62	1.00	23601.97
	Traffic Management		%	5.00	101658.10	5.00	118009.87
	Environmental Management		%	0.50	10165.81	0.50	11800.99
	Survey & Design		%	5.00	101658.10	5.00	118009.87
	Supervision & Project management		%	9.00	182984.57	9.00	212417.76
	Site Establishment		%	2.50	50829.05	2.50	59004.93
	Contingency (bridge projects)		%	20.00	406632.38	20.00	472039.47
	TOTAL - (2019) RATES				2,033,161.92		2,360,197.32
	Contingency (bridge projects)				2,973,499.31		3,451,788.58
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				3,241,114.00		3,762,450.00
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				3,883,884.76		4,508,611.00

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Railway Pedestrian Underpass
DCP Project No.: BD-11
Status of Project: Project deleted – located at the future Thornhill Park Railway Station site. This will be delivered as part of the station development

Description: Toolern Creek Pedestrian Underpass
DCP Project No.: BD-12
Status of Project: Project deleted – an adequate number of bridges are identified over the Toolern Creek

Description: Toolern Creek Pedestrian Underpass
DCP Project No.: BD-13
Status of Project: Project deleted – an adequate number of bridges are identified over the Toolern Creek

Description: Shared Use Pedestrian Bridge 4: Toolern Creek
Civil Component Number: BD-14

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	18564.00	18564.00	33395.02	33395.02
	Earthworks	1	m3	535200.00	535200.00	583835.11	583835.11
On-Structure Works	Retaining Walls, abutments, footings	1	No	106500.00	106500.00	119901.78	119901.78
	Bridge Deck	1	No	79628.00	79628.00	130351.56	130351.56
	Guard Rails/Balustrade	60	m	350.00	21000.00	450.64	27038.63
	Transition Slab	2	No	11000.00	22000.00	12650.00	25300.00
	Overall Super T Cost	169	m2	345.00	58305.00	407.10	68799.90
	Pedestrian Guard Rails/ Balustrade	0	m	0.00	0.00	0.00	0.00
Off Structure	GREAT Terminal	0	No	0.00	0.00	0.00	0.00
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Edge/Kerbs	90	m	100.00	9000.00	112.58	10132.54
Other	Bridge Lighting	2	No	10000.00	20000.00	11500.00	23000.00
	Regulatory Signage	1	Item	5000.00	5000.00	5750.00	5750.00
	Drainage Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage - Sub-soil Drainage	50	m	350.00	17500.00	394.04	19702.17
	Landscaping	674	m2	60.00	40440.00	65.45	44114.90
	Council Fees	1	%	3.25	30781.95	3.25	35980.21
Delivery	VicRoads Fees	1	%	1.00	9471.37	1.00	11070.83
	Traffic Management	1	%	5.00	47356.85	5.00	55354.17
	Environmental Management	1	%	0.50	4735.69	0.50	5535.42
	Survey & Design	1	%	5.00	47356.85	5.00	55354.17
	Supervision & Project management	1	%	9.00	85242.33	9.00	99637.50
	Site Establishment	1	%	2.50	23678.43	2.50	27677.08
	Contingency	1	%	20.00	189427.40	20.00	221416.67
	Excluding Delivery				947,137		1,107,083
	Including Delivery				1,385,188		1,619,109
	Excluding Delivery				-		-
TOTAL - (2021) RATES	Including Delivery				1,509,855		1,764,829
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				1,809,286		2,114,826

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Ferris Road Rail Overpass
Civil Component Number: BD-15

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	148032.00	148032.00	266296.70	266296.70
	Earthworks	1	m3	3378440.00	3378440.00	3685448.23	3685448.23
On-Structure Works	Retaining Walls, abutments, footings	1	No	1177925.00	1177925.00	1326153.12	1326153.12
	Bridge Deck	1	No	1697765.00	1697765.00	2779252.42	2779252.42
	Guard Rails/Balustrade	90	m	350.00	31500.00	450.64	40557.95
	Transition Slab	2	No	102307.50	204615.00	117653.64	235307.27
	Overall Super T Cost	1174	m2	430.82	505780.00	508.78	597303.53
	Guard Rails/ Balustrade	544	m	350.00	190400.00	420.04	228500.35
Off Structure	GREAT Terminal	4	No	8767.42	35069.68	13875.66	55502.64
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
	Kerb and Channel	325	m	100.00	32500.00	112.58	36589.75
Other	Bridge Lighting	3	No	20000.00	60000.00	23000.00	69000.01
	Regulatory Signage	1	Item	10000.00	10000.00	11500.00	11500.00
	Drainage Pits	6	No	3500.00	21000.00	3940.43	23642.60
	Drainage - Sub-soil Drainage	150	m	350.00	52500.00	394.04	59106.51
	Landscaping	653	m2	60.00	39180.00	65.45	42740.40
	Council Fees	1	%	3.25	246502.97	3.25	307349.30
Delivery	VicRoads Fees	1	%	1.00	75847.07	1.00	94569.01
	Traffic Management	1	%	5.00	379235.33	5.00	472845.07
	Environmental Management	1	%	0.50	37923.53	0.50	47284.51
	Survey & Design	1	%	5.00	379235.33	5.00	472845.07
	Supervision & Project management	1	%	9.00	682623.60	9.00	851121.13
	Site Establishment	1	%	2.50	189617.67	2.50	236422.54
	Contingency	1	%	20.00	1516941.34	20.00	1891380.30
	Excluding Delivery				7,584,707		9,456,901
	Including Delivery				11,092,634		13,830,718
	Excluding Delivery				-		-
TOTAL - (2021) RATES	Including Delivery				12,090,971		15,075,483
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				0		0

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: East Road Rail Overpass
Civil Component Number: BD-16

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Earthworks	Site Preparation	1	m2	122447.00	122447.00	220271.51	220271.51
	Earthworks	1	m3	2794530.00	2794530.00	3046037.70	3046037.70
On-Structure Works	Retaining Walls, abutments, footings	1	No	1257425.00	1257425.00	1415657.26	1415657.26
	Bridge Deck	1	No	1543945.00	1543945.00	2527448.07	2527448.07
	Guard Rails/Balustrade	154	m	350.00	53900.00	450.64	69399.16
	Transition Slab	2	No	84625.26	169250.52	97319.05	194638.10
	Overall Super T Cost	1325	m2	430.82	570836.50	508.37	673590.25
	Guard Rails/ Balustrade	544	m	350.00	190400.00	420.04	228500.35
Off Structure	GREAT Terminal	4	No	8767.42	35069.68	13875.66	55502.64
	Off structure barrier	0	Item	0.00	0.00	0.00	0.00
Other	Kerb and Channel	357	m	100.00	35700.00	112.58	40192.43
	Bridge Lighting	4	No	20000.00	80000.00	23000.00	92000.01
	Regulatory Signage	1	Item	10000.00	10000.00	11500.00	11500.00
	Drainage Pits	4	No	3500.00	14000.00	3940.43	15761.74
	Drainage - Sub-soil Drainage	113	m	350.00	39550.00	394.04	44526.91
	Landscaping	653	m2	60.00	39180.00	65.45	42740.40
Delivery	Council Fees	1	%	3.25	226077.60	3.25	282027.41
	VicRoads Fees	1	%	1.00	69562.34	1.00	86777.67
	Traffic Management	1	%	5.00	34781.69	5.00	433888.33
	Environmental Management	1	%	0.50	34781.17	0.50	43388.83
	Survey & Design	1	%	5.00	34781.69	5.00	433888.33
	Supervision & Project management	1	%	9.00	626061.03	9.00	780998.99
	Site Establishment	1	%	2.50	173905.84	2.50	216944.16
	Contingency	1	%	20.00	1391246.74	20.00	1735553.30
TOTAL - (2019) RATES	Excluding Delivery				6,956,234		8,677,767
	Including Delivery				10,173,492		12,691,234
TOTAL - (2021) RATES	Excluding Delivery				-		-
	Including Delivery				11,089,106		13,833,445
TOTAL - (2024) RATES	Excluding Delivery				-		-
	Including Delivery				13,288,274		16,576,864

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Paynes Road Rail Overpass (BD04B in the Rockbank DCP)
Civil Component Number: BD-17

DESCRIPTION	DETAIL	QTY	UNIT	RATE	AMOUNT
Clearing & Grubbing		29203	Item	2.55	74467.65
Earth Works	Import, place & compact fill	55402	m3	51.00	2825502.00
Structure costs	Single span structure with 2000mm deep, 46m long span Super-T beams	813	m2	5100.00	4145647.20
	Off structure concrete barrier on piles	240	m	2040.00	489600.00
Bridge approach barriers	Guard fence (incl. protection of existing electricity pole)	480	m	120.00	57600.00
	GREAT terminals	2	No	5100.00	10200.00
	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	4670	m2	127.50	595425.00
Pavement					
Kerb & Channel		898	m	40.80	36638.40
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	2694	m2	46.92	126402.48
Drainage	Subsoil Drains	898	m	22.44	20151.12
	Drainage Pits (max depth 1.5m)	18	No	2193.00	39474.00
	Drainage Pipe 375 dia	620	m	183.60	113832.00
	Line Marking (based on average per m2 of pavement)	4670	m2	2.55	11908.50
Miscellaneous	Signage	2	No	183.60	367.20
	Fencing	1010	m	25.50	25755.00
Landscaping		21839	m2	3.26	71282.50
Lighting	New lighting pole (All Inclusive)	9	No	12240.00	110160.00
Utilities	Underground electricity lines - trench	151	m	800.00	120800.00
	Underground electricity lines - bore under Western Freeway	40	m	1400.00	56000.00
	Relocate Telstra pit and conduits	4	No	8160.00	32640.00
Council Fees	3.25% of cost of works	1	Item	3.25	284518.42
Traffic Management	5% of cost of works	1	Item	5.00	437720.65
Environmental Management	0.5% of cost of works	1	Item	0.50	43772.07
Survey & Design	5% of cost of works	1	Item	5.00	437720.65
Supervision & Project Management	10% of cost of works	1	Item	10.00	875441.30
Site Establishment	2.5% of cost of works	1	Item	2.50	218860.33
Contingency	20% of cost of works	1	Item	20.00	1750882.61
TOTAL - (2019) RATES	Excluding Delivery				8,754,413.05
	Including Delivery				12,803,329.08
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				14,876,605.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				17,826,902.00

Source – Rockbank Development Contributions Plan, VPA, August 2016



Description: Paynes Road Level Crossing Upgrade
Civil Component Number: BD-18

DESCRIPTION	DETAIL	QTY	UNIT	RATE	AMOUNT
Site Access		1	Item	5100.00	5100.00
Decommissioning of existing crossing		1	Item	28000.00	28000.00
Removal of existing crossing		1	Item	19000.00	19000.00
Crossing Construction/Materials		1	Item	210000.00	210000.00
Testing and Commissioning		1	Item	37500.00	37500.00
Council Fees	3.25% of cost of works	1	Item	3.25	9737.00
VicRoads Fees	1% of cost of works	1	Item	1.00	2996.00
VicTrack Fees	1% of cost of works	1	Item	97475.00	97475.00
Traffic Management	5% of cost of works	1	Item	5.00	14980.00
Environmental Management	0.5% of cost of works	1	Item	0.50	1498.00
Survey & Design		1	Item	109000.00	109000.00
Supervision & Project Management	10% of cost of works	1	Item	10.00	29960.00
Site Establishment	2.5% of cost of works	1	Item	2.50	7490.00
Contingency	20% of cost of works	1	Item	20.00	29960.00
TOTAL - (2019) RATES	Excluding Delivery				299,600.00
	Including Delivery				602,696.00
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				628,070.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				752,627.00

Source – Rockbank Development Contributions Plan, VPA, August 2016

Description: Mount Cottrell Road over Western Freeway
DCP Project No.: BD-19
Status of Project: Land purchase project only

Description: Mount Cottrell Road over the Melbourne – Ballarat Rail Line
DCP Project No.: BD-20
Status of Project: Land purchase project only

Description: Mt Cottrell Road Level Crossing Upgrade
DCP Project No.: BD-21
Status of Project: Construction of an upgrade to the level crossing at the intersection of Mount Cottrell Road and the Melbourne-Ballarat rail corridor (ultimate standard).
Note: Mount Cottrell Road level crossing will be closed upon completion of the construction of the Mount Cottrell Road Rail Flyover (BR02).

Cost Date	July 2020
Current Cost	\$525,000
Internal Apportionment	25%
Cost to Paynes Road DCP	\$131,250
Demand units (Ha)	145.04
Levy (Jul-20)	\$904.92
Levy (Jul-21) Including Delivery	\$534,196

Source – Paynes Road Development Contributions Plan, Urban Enterprise, December 2020

COMMUNITY CENTRES

Description: Cobblebank Higher Order Civic Facility
DCP Project No.: CI-01
Status of Project: Land identification project

Description: Cobblebank Indoor Recreation Centre
DCP Project No.: CI-02
Status of Project: Land identification project

Description: Weir Views North Community Centre
Civil Component Number: CI-03 & CI-04

GROUP	SUB ITEM	QTY	UNIT	RATE (P90)	AMOUNT P(90)
Building	Kindergarten Room	1117	m2	2758.00	3080688.50
	Small Commercial Kitchen	21	m2	3268.05	68629.00
	Maternal and Child Health	76	m2	2698.90	205116.23
	Multipurpose Community Spaces	266	m2	2565.68	682470.56
Car Parking	Pavement	2503	m2	111.31	278617.96
	Kerb and Channel	370	m	65.22	24132.14
	Drainage Pipes	159	m	211.66	33654.58
	Drainage Pits	7	Item	2997.23	20980.59
	Linemarking / Signage	2503	Item	4.49	11234.17
	Car Park Lighting	2503	m2 of carpark	19.29	48277.99
Outdoor Play	Kindergarten Outdoor Playspaces	1112	m2	640.66	712411.30
Site Works	Site Preparation	8000	m2	5.47	43726.59
	Paths	210	m2	85.40	17934.74
	Landscaping	500	m2	31.33	15666.94
	Boundary Fencing	125	m	121.44	15179.49
Services	Gates	1	Item	743.23	743.23
	Stormwater	1	%	3.30	173562.31
	Sewer	1	%	2.03	106767.12
	Water	1	%	1.98	104137.39
	Gas	1	%	0.88	46283.28
	Fire and Protection	1	%	0.66	34712.46
	Light and Power	1	%	2.38	125175.24
	Communication	1	%	0.50	26297.32
	Council Fees	1	%	3.25	190982.97
	Authority Fees	1	%	1.00	58763.99
Delivery	Traffic Management	1	%	2.00	117527.98
	Environmental Management	1	%	0.50	29382.00
	Survey/Design Feed	1	%	5.00	293819.96
	Supervision & Project management	1	%	9.00	528875.92
	Site Establishment	1	%	2.50	146909.98
	Environmentally sustainable design	1	%	2.00	148711.04
	Contingency	1	%	15.00	881459.87
TOTAL - (2020) RATES	Excluding Delivery				5,876,399
	Including Delivery				8,241,650
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				8,736,149
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				10,468,684

Source – Toolern Precinct Structure Plan Review – Community Infrastructure Recommendations Report, ASR Research, January 2021



Description: Project deleted
DCP Project No.: CI-05
Status of Project: Project deleted

Description: Weir Views South Community Centre
Civil Component Number: CI-06 & CI-07

GROUP	SUB ITEM	QTY	UNIT	RATE (P90)	AMOUNT P(90)
Building	Kindergarten Room	1151	m2	2758.00	3174460.57
	Small Commercial Kitchen	40	m2	3268.05	130721.91
	Maternal and Child Health	89	m2	2698.90	240201.90
	Multipurpose Community Spaces	511	m2	2565.68	1311061.87
Car Parking	Pavement	3634	m2	111.31	404513.65
	Kerb and Channel	550	m	65.22	35872.10
	Drainage Pipes	195	m	211.66	41274.49
	Drainage Pits	7	Item	2997.23	20980.59
	Linemarking / Signage	3634	Item	4.49	16310.42
	Car Park Lighting	3634	m2 of carpark	19.29	70092.78
Outdoor Play	Kindergarten Outdoor Playspaces	1112	m2	640.66	712411.30
Site Works	Site Preparation	8000	m2	5.47	43726.59
	Paths	202	m2	85.40	17251.51
	Landscaping	500	m2	31.33	15666.94
	Boundary Fencing	130	m	121.44	15786.67
	Gates	1	Item	743.23	743.23
Services	Stormwater	1	%	3.30	206285.52
	Sewer	1	%	2.03	126896.85
	Water	1	%	1.98	123771.31
	Gas	1	%	0.88	55009.47
	Fire and Protection	1	%	0.66	41257.10
	Light and Power	1	%	2.38	148775.62
	Communication	1	%	0.50	31255.38
	Council Fees	1	%	3.25	226990.65
Delivery	Authority Fees	1	%	1.00	69843.28
	Traffic Management	1	%	2.00	139686.56
	Environmental Management	1	%	0.50	34921.64
	Survey/Design Feed	1	%	5.00	349216.39
	Supervision & Project management	1	%	9.00	628589.50
	Site Establishment	1	%	2.50	174608.19
	Environmentally sustainable design	1	%	2.00	139686.56
	Contingency	1	%	15.00	1047649.17
TOTAL - (2020) RATES	Excluding Delivery				6,984,328
	Including Delivery				9,795,520
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				10,383,251
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				12,442,436

Source – Toolern Precinct Structure Plan Review – Community Infrastructure Recommendations Report, ASR Research, January 2021

Description: Project deleted
DCP Project No.: CI-08
Status of Project: Project deleted

Description: Strathtulloh Community Centre
Civil Component Number: CI-09 & CI-10

GROUP	SUB ITEM	QTY	UNIT	RATE (P90)	AMOUNT P(90)
Building	Kindergarten Room	1117	m2	2758.00	3080688.50
	Small Commercial Kitchen	21	m2	3268.05	68629.00
	Maternal and Child Health	76	m2	2698.90	205116.23
	Multipurpose Community Spaces	266	m2	2565.68	682470.56
Car Parking	Pavement	2503	m2	111.31	278617.96
	Kerb and Channel	370	m	65.22	24132.14
	Drainage Pipes	159	m	211.66	33654.58
	Drainage Pits	7	Item	2997.23	20980.59
	Linemarking / Signage	2503	Item	4.49	11234.17
	Car Park Lighting	2503	m2 of carpark	19.29	48277.99
Outdoor Play	Kindergarten Outdoor Playspaces	1112	m2	640.66	712411.30
Site Works	Site Preparation	8000	m2	5.47	43726.59
	Paths	210	m2	85.40	17934.74
	Landscaping	500	m2	31.33	15666.94
	Boundary Fencing	125	m	121.44	15179.49
	Gates	1	Item	743.23	743.23
Services	Stormwater	1	%	3.30	173562.31
	Sewer	1	%	2.03	106767.12
	Water	1	%	1.98	104137.39
	Gas	1	%	0.88	46283.28
	Fire and Protection	1	%	0.66	34712.46
	Light and Power	1	%	2.38	125175.24
	Communication	1	%	0.50	26297.32
	Council Fees	1	%	3.25	190982.97
Delivery	Authority Fees	1	%	1.00	58763.99
	Traffic Management	1	%	2.00	117527.98
	Environmental Management	1	%	0.50	29382.00
	Survey/Design Feed	1	%	5.00	293819.96
	Supervision & Project management	1	%	9.00	528875.92
	Site Establishment	1	%	2.50	146909.98
	Environmentally sustainable design	1	%	2.00	148711.04
	Contingency	1	%	15.00	881459.87
TOTAL - (2020) RATES	Excluding Delivery				5,876,399
	Including Delivery				8,241,650
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				8,736,149
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				10,468,684

Source – Toolern Precinct Structure Plan Review – Community Infrastructure Recommendations Report, ASR Research, January 2021



Description: Project deleted
DCP Project No.: CI-11
Status of Project: Project deleted

Description: Thornhill Park Community Centre
Civil Component Number: CI-12 & CI-13

GROUP	SUB ITEM	QTY	UNIT	RATE (P90)	AMOUNT P(90)
Building	Kindergarten Room	1117	m2	2758.00	3080688.50
	Small Commercial Kitchen	21	m2	3268.05	68629.00
	Maternal and Child Health	76	m2	2698.90	205116.23
	Multipurpose Community Spaces	266	m2	2565.68	682470.56
Car Parking	Pavement	2503	m2	111.31	278617.96
	Kerb and Channel	370	m	65.22	24132.14
	Drainage Pipes	159	m	211.66	33654.58
	Drainage Pits	7	Item	2997.23	20980.59
	Linemarking / Signage	2503	Item	4.49	11234.17
	Car Park Lighting	2503	m2 of carpark	19.29	48277.99
Outdoor Play	Kindergarten Outdoor Playspaces	1112	m2	640.66	712411.30
Site Works	Site Preparation	8000	m2	5.47	43726.59
	Paths	210	m2	85.40	17934.74
	Landscaping	500	m2	31.33	15666.94
	Boundary Fencing	125	m	121.44	15179.49
	Gates	1	Item	743.23	743.23
Services	Stormwater	1	%	3.30	173562.31
	Sewer	1	%	2.03	106767.12
	Water	1	%	1.98	104137.39
	Gas	1	%	0.88	46283.28
	Fire and Protection	1	%	0.66	34712.46
	Light and Power	1	%	2.38	125175.24
	Communication	1	%	0.50	26297.32
	Council Fees	1	%	3.25	190982.97
Delivery	Authority Fees	1	%	1.00	58763.99
	Traffic Management	1	%	2.00	117527.98
	Environmental Management	1	%	0.50	29382.00
	Survey/Design Feed	1	%	5.00	293819.96
	Supervision & Project management	1	%	9.00	528875.92
	Site Establishment	1	%	2.50	146909.98
	Environmentally sustainable design	1	%	2.00	148711.04
	Contingency	1	%	15.00	881459.87
TOTAL - (2020) RATES					5,876,399
					8,241,650
TOTAL - (2021) RATES					-
					8,736,149
TOTAL - (2024) RATES					-
					10,468,684

Source – Toolern Precinct Structure Plan Review – Community Infrastructure Recommendations Report, ASR Research, January 2021

Description: Project deleted
DCP Project No.: CI-14
Status of Project: Project deleted

Description: Cobblebank East Community Centre
Civil Component Number: CI-15 & CI-16

GROUP	SUB ITEM	QTY	UNIT	RATE (P90)	AMOUNT P(90)
Building	Kindergarten Room	1151	m2	2758.00	3174460.57
	Small Commercial Kitchen	40	m2	3268.05	130721.91
	Maternal and Child Health	89	m2	2698.90	240201.90
	Multipurpose Community Spaces	511	m2	2565.68	1311061.87
Car Parking	Pavement	3634	m2	111.31	404513.65
	Kerb and Channel	550	m	65.22	35872.10
	Drainage Pipes	195	m	211.66	41274.49
	Drainage Pits	7	Item	2997.23	20980.59
	Linemarking / Signage	3634	Item	4.49	16310.42
	Car Park Lighting	3634	m2 of carpark	19.29	70092.78
Outdoor Play	Kindergarten Outdoor Playspaces	1112	m2	640.66	712411.30
Site Works	Site Preparation	8000	m2	5.47	43726.59
	Paths	202	m2	85.40	17251.51
	Landscaping	500	m2	31.33	15666.94
	Boundary Fencing	130	m	121.44	15786.67
	Gates	1	Item	743.23	743.23
Services	Stormwater	1	%	3.30	206285.52
	Sewer	1	%	2.03	126896.85
	Water	1	%	1.98	123771.31
	Gas	1	%	0.88	55009.47
	Fire and Protection	1	%	0.66	41257.10
	Light and Power	1	%	2.38	148775.62
	Communication	1	%	0.50	31255.38
	Council Fees	1	%	3.25	226990.65
Delivery	Authority Fees	1	%	1.00	69843.28
	Traffic Management	1	%	2.00	139686.56
	Environmental Management	1	%	0.50	34921.64
	Survey/Design Feed	1	%	5.00	349216.39
	Supervision & Project management	1	%	9.00	628589.50
	Site Establishment	1	%	2.50	174608.19
	Environmentally sustainable design	1	%	2.00	139686.56
	Contingency	1	%	15.00	1047649.17
TOTAL - (2020) RATES					6,984,328
					9,795,520
TOTAL - (2021) RATES					-
					10,383,251
TOTAL - (2024) RATES					-
					12,442,436

Source – Toolern Precinct Structure Plan Review – Community Infrastructure Recommendations Report, ASR Research, January 2021



Description: Project deleted
DCP Project No.: CI17
Status of Project: Project deleted

Description: Bridge Road Community Centre
Early Childhood Components
Area 2 Contribution (60%)
DCP Project No.: CI-18A
Status of Project: Constructed

Construction Cost - (2011) rates	\$955,875
Construction Cost – (2021) rates	\$1,283,552

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Community Centre
Early Childhood Components
Area 3 Contribution (40%)
DCP Project No.: CI-18B
Status of Project: Constructed

Construction Cost - (2011) rates	\$475,375
Construction Cost – (2021) rates	\$638,335

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Community Centre
Childcare Components
Area 2 Contribution (60%)
DCP Project No.: CI-19A
Status of Project: Constructed

Construction Cost - (2011) rates	\$1,297,688
Construction Cost – (2021) rates	\$1,742,539

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Community Centre
Childcare Components
Area 3 Contribution (40%)
DCP Project No.: CI-19B
Status of Project: Constructed

Construction Cost - (2011) rates	\$865,125
Construction Cost – (2021) rates	\$1,161,692

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Bridge Road Community Centre
Community Room Components
DCP Project No.: CI-20
Status of Project: Constructed

Construction Cost - (2011) rates	\$1,441,875
Construction Cost – (2021) rates	\$1,936,154

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

INTERSECTIONS

Description: Intersection: Rees Road and East West Arterial
Civil Component Number: IT-01

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	1842	m	54.81	100960.02	60.90	112177.80
Concrete Works	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 Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
Drainage	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 (all inclusive)	4	Item/ Per Leg	109730.28	438921.12	128786.34	515145.36
Traffic signals	Tree Planting	60	No.	303.34	18200.40	363.01	21780.60
Landscape	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
	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
Other	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
TOTAL - (2024) RATES	Excluding Delivery				2,985,615		3,379,931
	Including Delivery				4,217,181		4,774,152



Description: Intersection: East West Arterial and Exford Road
Civil Component Number: IT-02

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	2036	m	54.81	111593.16	60.90	123992.40
Concrete Works	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
Misc.	Street Lighting - Intersections	3	Item/ Per Leg	48468.93	145406.79	55617.74	166853.22
	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
	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
Other	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	17221.29	0.50	19495.10
	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
	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
TOTAL - (2024) RATES	Excluding Delivery				4,498,774		5,092,770
	Including Delivery				6,354,518		7,193,537

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: East West Arterial and East West Arterial
Civil Component Number: IT-03

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	2999	m	54.81	164375.19	60.90	182639.10
Concrete Works	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
Drainage	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 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
Traffic signals	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 (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
Misc.	Street Lighting - Intersections	3	Item/ Per Leg	48468.93	145406.79	55617.74	166853.22
	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
	Rock excavation	1343	m3	100.00	134300.00	115.00	154445.00
Other	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
Delivery	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
	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
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
TOTAL - (2024) RATES	Excluding Delivery				6,691,208		7,574,564
	Including Delivery				9,451,332		10,699,071

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: Exford Road and Greigs Road
Civil Component Number: IT-04

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Siteworks/ 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
	Kerb and Channel	777	m	54.81	42587.37	60.90	47319.30
Concrete Works	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	m	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
Street Lighting	Topsoil Seeding	2918	m2	7.21	21038.78	8.44	24627.92
	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
	Excluding Delivery				1,535,285		1,744,751
	Including Delivery				2,168,590		2,464,461
TOTAL - (2018) RATES							
TOTAL - (2021) RATES							
TOTAL - (2024) RATES							

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: East West Arterial and Ferris Road
Civil Component Number: IT-05

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	2936	m	54.81	160922.16	60.90	178802.40
Concrete Works	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
Street Lighting	Topsoil Seeding	9647	m2	7.21	69554.87	8.44	81420.68
	Street Lighting - Road	0	m	216.34	0.00	225.67	0.00
Misc.	Street Lighting - Intersections	4	Item/ Per Leg	48468.93	193875.72	55617.74	222470.96
	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
Other	Tactile Pavers (Hazard only)	24	Item	292.43	7018.32	319.78	7674.72
	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
	Excluding Delivery				5,167,462		5,866,377
TOTAL - (2018) RATES							
TOTAL - (2021) RATES							
TOTAL - (2024) RATES							

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: East West Arterial and Mount Cottrell Road
Civil Component Number: IT-06

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Sitemworks/ 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
	Kerb and Channel	3556	m	54.81	194904.36	60.90	216560.40
Concrete Works	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
	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
Other	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
TOTAL - (2024) RATES	Excluding Delivery				8,796,576		9,958,474
	Including Delivery				12,425,164		14,066,345

Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: East West Arterial and Paynes Road
Civil Component Number: IT-07

DESCRIPTION	DETAIL	QTY	UNIT	RATE	AMOUNT
Clearing & Grubbing		24405	Item	2.55	62232.75
Earth Works	Cut to fill	8818.56	m3	30.60	269847.94
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	12248	m2	127.50	1561620.00
Kerb & Channel		2411	m	40.80	98368.80
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	4362	m2	46.92	204665.04
Concrete Splitter Islands		502	m2	51.00	25602.00
Drainage	Subsoil Drains	2856	m	22.44	64088.64
	Drainage Pits (max depth 1.5m)	34	No	2193.00	74562.00
	Drainage Pipe 300 dia	340	m	153.00	52020.00
	Drainage Pipe 375 dia	180	m	183.60	33048.00
	Drainage Pipe 450 dia	440	m	255.00	112200.00
Miscellaneous	Line Marking (based on average per m2 of pavement)	12248	m2	2.55	31232.40
	Signage	20	No	183.60	3672.00
	Tactile pavers (per pram crossing)	16	No	261.12	4177.92
	Fencing	920	m	25.50	23460.00
	Topsoil and grass to naturestrips	7293	m2	3.26	23804.35
Traffic signals	Divided crossroad	1	Item	229500.00	229500.00
Intersection Lighting	New lighting pole (All Inclusive)	15	No	12240.00	183600.00
Utilities	Underground electricity lines - trench	168	m	800.00	134400.00
VicRoads	10-year Maintenance Fee	1	Item	75000.00	75000.00
	Prom, controller & surveillance	1	Item	17500.00	17500.00
Council Fees	3.25% of cost of works	1	Item	3.25	106749.56
VicRoads Fees	1% of cost of works	1	Item	1.00	32846.02
Traffic Management	5% of cost of works	1	Item	5.00	164230.09
Environmental Management	0.5% of cost of works	1	Item	0.50	16423.01
Survey & Design	5% of cost of works	1	Item	5.00	164230.09
Supervision & Project Management	10% of cost of works	1	Item	10.00	328460.18
Site Establishment	2.5% of cost of works	1	Item	2.50	82115.05
Contingency	20% of cost of works	1	Item	20.00	656920.37
TOTAL - (2016) RATES	Excluding Delivery				3,284,601.84
	Including Delivery				4,836,576.21
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				5,619,775.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				6,734,277.00

Source – Rockbank Development Contributions Plan, VPA, August 2016



Description: Intersection: Paynes Road and Greigs Road
DCP Project No.: IT-08
Status of Project: Project deleted – located in the Rockbank South PSP area

Description: Intersection: Mount Cottrell Road and Greigs Road
DCP Project No.: IT-09
Status of Project: Project deleted – located in the Rockbank South PSP area

Description: Intersection:Intersection: Mount Cottrell Road and Shogaki Drive
Civil Component Number: IT-10

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	1651	m	54.81	90491.31	60.90	100545.90
Concrete Works	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
Street Lighting	Topsoil Seeding	11725	m2	7.21	84537.25	8.44	98959.00
	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
	Council Fees	1	%	3.25	130891.49	3.25	150077.52
Delivery	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
TOTAL - (2024) RATES	Excluding Delivery				4,563,021		5,231,867
	Including Delivery				6,445,267		7,390,012

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Skipped project
DCP Project No.:IT-11
Status of Project: There is no IT-11 – this is a project that was skipped in the DCP

Description: Intersection: Shogaki Drive and Industrial Connector Road
Civil Component Number: IT-12

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	2770	m	54.81	151823.70	60.90	168693.00
Concrete Works	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
		0	m	179.85	0.00	197.96	0.00
Drainage	Drainage Pipe 300mm CR Bfilled	775	m	259.10	200802.50	282.96	219294.00
	Drainage Pipe 375mm CR Bfilled	388	m	299.43	116178.84	334.33	129720.04
	Drainage Pipe 450mm 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 (all inclusive)	4	Item/ Per Leg	109730.28	438921.12	128786.34	515145.36
Traffic signals	Tree Planting	125	No.	303.34	37917.50	363.01	45376.25
	Landscaping	9982	m2	21.61	215711.02	25.16	251147.12
Landscape	Topsoil Seeding	9982	m2	7.21	71970.22	8.44	84248.08
	Street Lighting - Road	0	m	216.34	0.00	225.67	0.00
Street Lighting	Street Lighting - Intersections	4	Item/ Per Leg	48468.93	193875.72	55617.74	222470.96
	Regulatory Signage	16	Item	338.43	5414.88	380.39	6086.24
Misc.	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
TOTAL - (2018) RATES	Contingency	1	%	15.00	872362.99	15.00	991783.35
	Excluding Delivery				5,815,753		6,611,889
TOTAL - (2021) RATES	Including Delivery				8,214,752		9,339,293
	Excluding Delivery				6,339,172		7,206,960
TOTAL - (2024) RATES	Including Delivery				8,954,080		10,179,831
	Excluding Delivery				10,072,445		11,451,292
TOTAL - (2024) RATES	Including Delivery				14,227,328		16,174,949
	Excluding Delivery						

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: Ferris Road and Shogaki Drive
Civil Component Number: IT-13

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	2781	m	54.81	152426.61	60.90	169362.90
Concrete Works	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
	Tree Planting	128	No.	303.34	38827.52	363.01	46465.28
Landscape	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
	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
Other	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 & channel, etc.	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
TOTAL - (2018) RATES	Contingency	1	%	15.00	943565.30	15.00	1077827.15
	Excluding Delivery				6,290,435		7,185,514
TOTAL - (2021) RATES	Including Delivery				8,885,240		10,149,539
	Excluding Delivery				6,856,575		7,832,211
TOTAL - (2024) RATES	Including Delivery				9,684,912		11,062,998
	Excluding Delivery				7,691,286		8,785,695
TOTAL - (2024) RATES	Including Delivery				10,863,941		12,409,794
	Excluding Delivery						

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: Ferris Road and Hollingsworth Drive

DCP Project No.: IT-14

Status of Project: Constructed

Construction Cost - (2011) rates	\$1,008,000
Construction Cost – (2021) rates	\$1,353,545

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Intersection: Ferris Road and Bridge Road

DCP Project No.: IT-15

Status of Project: Under construction

Construction Cost - (2011) rates	\$1,008,000
Construction Cost – (2021) rates	\$1,353,545

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Intersection: Abey Road and Industrial Connector Road

Civil Component Number: IT-16

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Siteworks/ 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
	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
Concrete Works	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 Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
Drainage	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
	Tree Planting	87	No.	303.34	26390.58	363.01	31581.87
Landscape	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
	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
Delivery	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
	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
TOTAL - (2024) RATES	Excluding Delivery				2,522,967		2,884,270
	Including Delivery				3,563,690		4,074,031

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: Intersection: Abey Road and Bundy Drive

Civil Component Number: IT-17

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Siteworks/ 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
	Kerb and Channel	1714	m	54.81	93944.34	60.90	104382.60
Concrete Works	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
Street Lighting	Topsoil Seeding	5493	m2	7.21	39604.53	8.44	46360.92
	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
TOTAL - (2024) RATES	Excluding Delivery				2,866,562		3,275,756
	Including Delivery				4,049,019		4,627,005

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: Primary- Connector Intersection (Ferris Road, Shakamaker Drive)

Civil Component Number: IT-18

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Siteworks/ Earthworks	Site Preparation	24754	m2	3.68	91,094.72	4.96	122,779.84
	Earthworks	2760	m3	34.07	94,033.20	40.52	111,835.20
Road Pavement	Primary Arterial Pavement	3062	m2	169.62	519,376.44	186.26	570,328.12
	Secondary Arterial Pavement	0	m2	127.01	-	133.78	-
	Collector Arterial Pavement	1064	m2	105.15	111,879.60	112.44	119,636.16
	Subgrade Preparation	826	m2	14.22	11,745.72	16.16	13,348.16
	Pavement Rehab	6166	m2	51.58	318,042.28	59.32	365,767.12
	Pavement Removal	3704	m2	140.00	518,560.00	161.00	596,344.00
	Kerb and Channel	2356	m	54.81	129,132.36	60.90	143,480.40
Concrete Works	Kerb Removal	1567	m	60.00	94,020.00	69.00	108,123.00
	Cycle Path	0	m2	76.59	-	91.94	-
	SUP/ Footpath	4152	m2	63.51	263,693.52	73.63	305,711.76
	Concrete Removal	0	m3	45.03	-	49.53	-
	Traffic Island	454	m2	77.60	35,230.40	84.07	38,167.78
Drainage	Drainage Pipe 300mm CR Bfilled	0	m	179.85	-	197.96	-
	Drainage Pipe 375mm CR Bfilled	847	m	259.10	219,457.70	282.96	239,667.12
	Drainage Pipe 450mm CR Bfilled	9249	m	299.43	2,769,428.07	334.33	3,092,218.17
	Drainage Pipe 525mm CR Bfilled	0	m	403.86	-	448.03	-
	Drainage - pits	24	No.	2565.39	61,569.36	2806.10	67,346.40
	Drainage – Sub-soil drainage	2356	m	33.88	79,821.28	43.40	102,250.40
	Drainage Culvert	0	No.	0.00	-	0.00	-
Traffic signals	Traffic Signals (all inclusive)	4	Item/ Per Leg	109730.28	438,921.12	128786.34	515,145.36
Landscape	Tree Planting	113	No.	303.34	34,277.42	363.01	41,020.13
	Landscaping	9249	m2	21.61	199,870.89	25.16	232,704.84
Street Lighting	Topsoil Seeding	9249	m2	7.21	66,685.29	8.44	78,061.56
	Street Lighting - Road	0	m	216.34	-	225.67	-
Misc.	Street Lighting - Intersections	4	Item/ Per Leg	48468.93	193,875.72	55617.74	222,470.96
	Regulatory Signage	16	Item	338.43	5,414.88	380.39	6,086.24
	Line marking	10293	m2 of Pavement	3.11	32,011.23	4.09	42,098.37
	Landscape maintenance (intersections)	1	Item	71344.66	71,344.66	88131.43	88,131.43
	Landscape maintenance (roads)	0	m2 of l'scape	2.90	-	2.96	-
	Tactile Pavers (Hazard only)	24	Item	292.43	7,018.32	319.78	7,674.72
	Rock excavation	552	m3	100.00	55,200.00	115.00	63,480.00
Other	Telecom/power relocation allowance	462	m	1300.00	600,600.00	1495.00	690,690.00
	Water/gas relocation allowance	165	m	300.00	49,500.00	345.00	56,925.00
	Service proving fee	1	Item	10000.00	10,000.00	11500.00	11,500.00
	Earthen mound removal	6480	m3	34.07	220,773.60	40.52	262,569.60
	Light pole relocation allowance	3	Item	10000.00	30,000.00	11500.00	34,500.00
	Power pole relocation allowance	4	Item	40000.00	160,000.00	46000.00	184,000.00
	Sawcut pavement tie ins, new kerb & channel, etc.	2728	m	14.00	38,192.00	16.10	43,920.80
Delivery	Council Fees	1	%	3.25	244,750.02	3.25	278,784.44
	VicRoads Fees	1	%	1.00	75,307.70	1.00	85,779.83
	Traffic Management	1	%	5.00	376,538.49	5.00	428,899.13
	Environmental Management	1	%	0.50	37,653.85	0.50	42,889.91
	Surveying and Design	1	%	5.00	376,538.49	5.00	428,899.13
	Supervision and Project management	1	%	9.00	677,769.28	9.00	772,018.44
	Site Establishment	1	%	2.50	188,269.24	2.50	214,449.57
	Contingency	1	%	15.00	1,129,615.47	15.00	1,286,697.40
	Excluding Delivery				7,530,770		8,577,983
	Including Delivery				10,637,212		12,116,400
TOTAL - (2024) RATES	Excluding Delivery				9,883,487		11,257,864
	Including Delivery				13,960,425		15,901,733
TOTAL - (2024) RATES	Excluding Delivery				9,769,542		11,257,864
	Including Delivery				13,799,478		15,901,733

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: Mount Cottrell Road and Baxterpark Drive

DCP Project No.: IT-19

Status of Project: Constructed

Construction Cost - (2011) rates	\$798,000
Construction Cost – (2021) rates	\$1,071,557

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Intersection: Mount Cottrell Road and Southern Connector Road

Civil Component Number: IT-20

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	2394	m	54.81	131215.14	60.90	145794.60
Concrete Works	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
	Regulatory Signage	16	Item	338.43	5414.88	380.39	6086.24
Misc.	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
	Excluding Delivery				5,356,585		6,101,391
TOTAL - (2018) RATES					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
TOTAL - (2024) RATES	Excluding Delivery				6,996,592		7,969,432
	Including Delivery				9,882,687		11,256,823

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: East West Arterial and Eastern North-South Connector Road
Civil Component Number: IT-21

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Siteworks/ Earthworks	Site Preparation	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
	Kerb and Channel	1916	m	54.81	105015.96	60.90	116684.40
Concrete Works	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
TOTAL - (2024) RATES	Excluding Delivery				4,850,762		5,524,893
	Including Delivery				6,851,701		7,803,911

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: East West Arterial and Central North-South Connector Road
Civil Component Number: IT-22

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Kerb and Channel	1867	m	54.81	102330.27	60.90	113700.30
Concrete Works	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
TOTAL - (2024) RATES	Excluding Delivery				4,205,604		4,747,028
	Including Delivery				5,940,416		6,705,178

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: Intersection: East West Arterial and Western North-South Connector Road
Civil Component Number:IT-23

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	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
Concrete Works	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 Pipe 300mm CR Bfilled	0	m	179.85	0.00	197.96	0.00
Drainage	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 (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
	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
Other	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
	Excluding Delivery				2,765,553		3,119,346
	Including Delivery				3,906,344		4,406,076
TOTAL - (2018) RATES	Excluding Delivery				3,014,453		3,400,088
	Including Delivery				4,257,915		4,802,624
TOTAL - (2021) RATES	Excluding Delivery				3,612,273		4,074,386
	Including Delivery				5,102,335		5,755,070

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: Exford Road and Elpis Road

DCP Project No.: IT-24

Status of Project: Constructed

Construction Cost - (2011) rates	\$798,000
Construction Cost – (2021) rates	\$1,071,557

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)



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

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
Siteworks/ 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
	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
Concrete Works	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)	3	Item/ Per Leg	109730.28	329190.84	128786.34	386359.02
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
	Rock excavation	119	m3	100.00	11900.00	115.00	13685.00
Other	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	28835.77	3.25	33310.14
	VicRoads Fees	1	%	1.00	8872.55	1.00	10249.27
	Traffic Management	1	%	5.00	44362.73	5.00	51246.37
	Environmental Management	1	%	0.50	4436.27	0.50	5124.64
	Surveying and Design	1	%	5.00	44362.73	5.00	51246.37
	Supervision and Project management	1	%	9.00	79852.91	9.00	92243.47
	Site Establishment	1	%	2.50	22181.37	2.50	25623.19
	Contingency	1	%	15.00	133088.19	15.00	153739.12
	Excluding Delivery						
	Including Delivery						
	Excluding Delivery				887,255		1,024,927
TOTAL - (2021) RATES	Including Delivery				1,253,247		1,447,710
	Excluding Delivery				1,175,548		1,345,129
TOTAL - (2024) RATES	Including Delivery				1,660,462		1,899,995

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: Intersection: Mount Cottrell Road and Alfred Road
DCP Project No.: IT-26
Status of Project: Constructed

Construction Cost - (2011) rates	\$1,008,000
Construction Cost – (2021) rates	\$1,353,545

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

Description: Intersection:Intersection: Ferris Road and Alfred Road
DCP Project No.: IT-27
Status of Project: Under construction

Construction Cost - (2011) rates	\$1,008,000
Construction Cost – (2021) rates	\$1,353,545

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)



Description: Intersection: Ferris Road and Southern Connector Road
Civil Component Number:IT-28

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Excluding Delivery				1,996,222		2,270,122
TOTAL - (2018) RATES							
TOTAL - (2021) RATES	Including Delivery				2,819,663		3,206,548
	Excluding Delivery				2,175,882		2,474,434
TOTAL - (2024) RATES	Including Delivery				3,073,433		3,495,138
	Excluding Delivery				1,009,754		1,148,302
TOTAL - (2024) RATES							
TOTAL - (2024) RATES	Including Delivery				1,426,278		1,621,977
	Excluding Delivery						

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022

Description: Intersection: Ferris Road and Enterprise Street
Civil Component Number: IT-29

GROUP	SUB ITEM	QTY	UNIT	RATE (P50)	AMOUNT P(50)	RATE (P90)	AMOUNT P(90)
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
	Excluding Delivery				2,616,845		2,986,794
TOTAL - (2018) RATES							
TOTAL - (2021) RATES	Including Delivery				3,696,293		4,218,846
	Excluding Delivery				2,852,361		3,255,606
TOTAL - (2024) RATES	Including Delivery				4,028,960		4,598,543
	Excluding Delivery				3,418,035		3,901,251
TOTAL - (2024) RATES							
TOTAL - (2024) RATES	Including Delivery				4,827,975		5,510,516
	Excluding Delivery						

Source – Recommended Changes to Toolern PSP and DCP Documents, Cardno, March 2022



Description: IT-30 - Intersection: Paynes Road and Alfred Road
Civil Component Number: IT-30

DESCRIPTION	DETAIL	QTY	UNIT	RATE	AMOUNT
Clearing & Grubbing		16147	Item	2.55	41174.85
Earth Works	Cut to fill	3131.91	m3	30.60	95836.45
	Import, place & compact fill	8686	m3	51.00	442986.00
Barriers	Guard rail	40	m	120.00	4800.00
	GREAT terminal	2	No	5100.00	10200.00
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	5298	m2	127.50	675495.00
	Construct granular pavement (Council Pavement for Collector Street 550mm depth)	1077	m2	76.50	82390.50
Kerb & Channel		1194	m	40.80	48715.20
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	2610	m2	46.92	122461.20
Concrete Splitter Islands		377	m2	51.00	19227.00
	Subsoil Drains	1494	m	22.44	33525.36
Drainage	Drainage Pits (max depth 1.5m)	20	No	2193.00	43860.00
	Drainage Pipe 300 dia	410	m	153.00	62730.00
	Drainage Pipe 375 dia	120	m	183.60	22032.00
	Drainage Pipe 450 dia	270	m	255.00	68850.00
	Line Marking (based on average per m2 of pavement)	6375	m2	2.55	16256.25
Miscellaneous	Signage	20	No	183.60	3672.00
	Tactile pavers (per pram crossing)	16	No	261.12	4177.92
	Fencing	540	m	25.50	13770.00
Landscaping	Topsoil and grass to naturestrips	6785	m2	3.26	22146.24
Traffic signals	Divided crossroad	1	Item	229500.00	229500.00
Intersection Lighting	New lighting pole (All Inclusive)	10	No	12240.00	122400.00
	10-year Maintenance Fee	1	Item	75000.00	75000.00
VicRoads Fees	Prom, controller & surveillance	1	Item	17500.00	17500.00
Council Fees	3.25% of cost of works	1	Item	3.25	74057.94
Traffic Management	5% of cost of works	1	Item	5.00	113935.30
Environmental Management	0.5% of cost of works	1	Item	0.50	11395.30
Survey & Design	5% of cost of works	1	Item	5.00	113935.30
Supervision & Project Management	10% of cost of works	1	Item	10.00	227870.60
Site Establishment	2.5% of cost of works	1	Item	2.50	56967.65
Contingency	20% of cost of works	1	Item	20.00	455741.19
TOTAL - (2016) RATES	Excluding Delivery				2,278,705.97
	Including Delivery				3,332,607.48
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				3,872,265.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				6,734,277.21

Source – Rockbank Development Contributions Plan, VPA, August 2016

Description: IT-31 - Intersection: Paynes Road and East-West Connector Road 1
Civil Component Number: IT-31

DESCRIPTION	DETAIL	QTY	UNIT	RATE	AMOUNT
Clearing & Grubbing		13705	Item	2.55	33341.25
Earth Works	Cut to fill	4390.81	m3	30.60	134358.79
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	5268	m2	127.50	671670.00
	Construct granular pavement (Council Pavement for Collector Street 550mm depth)	1087	m2	76.50	83155.50
Kerb & Channel		1193	m	40.80	48674.40
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	2592	m2	46.92	121616.64
Concrete Splitter Islands		235	m2	51.00	11985.00
	Subsoil Drains	1653	m	22.44	37093.32
Drainage	Drainage Pits (max depth 1.5m)	20	No	2193.00	43860.00
	Drainage Pipe 300 dia	410	m	153.00	62730.00
	Drainage Pipe 375 dia	120	m	183.60	22032.00
	Drainage Pipe 450 dia	270	m	255.00	68850.00
	Line Marking (based on average per m2 of pavement)	6355	m2	2.55	16205.25
Miscellaneous	Signage	20	No	183.60	3672.00
	Tactile pavers (per pram crossing)	16	No	261.12	4177.92
	Fencing	330	m	25.50	8415.00
Landscaping	Topsoil and grass to naturestrips	3893	m2	3.26	12706.75
Traffic signals	Divided crossroad	1	Item	229500.00	229500.00
Intersection Lighting	New lighting pole (All Inclusive)	10	No	12240.00	122400.00
	Underground electricity lines - trench	168	m	800.00	134400.00
Utilities	Relocate Telstra pit and conduits	1	No	8160.00	8160.00
	10-year Maintenance Fee	1	Item	75000.00	75000.00
VicRoads Fees	Prom, controller & surveillance	1	Item	17500.00	17500.00
Council Fees	3.25% of cost of works	1	Item	3.25	64073.87
Traffic Management	5% of cost of works	1	Item	5.00	98575.19
Environmental Management	0.5% of cost of works	1	Item	0.50	9857.52
Survey & Design	5% of cost of works	1	Item	5.00	98575.19
Supervision & Project Management	10% of cost of works	1	Item	10.00	197150.38
Site Establishment	2.5% of cost of works	1	Item	2.50	49287.60
Contingency	20% of cost of works	1	Item	20.00	394300.76
TOTAL - (2016) RATES	Excluding Delivery				1,971,503.82
	Including Delivery				2,883,324.33
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				3,350,228.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				4,014,638.00

Source – Rockbank Development Contributions Plan, VPA, August 2016



Description: IT-32 - Intersection: Paynes Road and East-West Connector Road 2

Civil Component Number: IT-32

DESCRIPTION	DETAIL	QTY	UNIT	RATE	AMOUNT
Clearing & Grubbing		13131	Item	2.55	33484.05
Earth Works	Cut to fill	4375.53	m3	30.60	133891.22
Pavement	Construct deep strength pavement (Arterial Pavement), including wearing course (720mm depth)	5259	m2	127.50	670522.50
	Construct granular pavement (Council Pavement for Collector Street 550mm depth)	1071	m2	76.50	81931.50
Kerb & Channel		1196	m	40.80	48796.80
Footpath	Concrete (based on 'Typical Residential Footpath Cross Section' Figure 006 Engineering Design and Construction Manual)	2604	m2	46.92	122179.68
Concrete Splitter Islands		373	m2	51.00	19023.00
Drainage	Subsoil Drains	1641	m	22.44	36824.04
	Drainage Pits (max depth 1.5m)	20	No	2193.00	43860.00
	Drainage Pipe 300 dia	410	m	153.00	62730.00
	Drainage Pipe 375 dia	120	m	183.60	22032.00
	Drainage Pipe 450 dia	270	m	255.00	68850.00
Miscellaneous	Line Marking (based on average per m2 of pavement)	6330	m2	2.55	16141.50
	Signage	20	No	183.60	3672.00
	Tactile pavers (per pram crossing)	16	No	261.12	4177.92
	Fencing	340	m	25.50	
	Topsoil and grass to naturestrips	3824	m2	3.26	12481.54
Landscaping	Divided crossroad	1	Item	229500.00	229500.00
Traffic signals	New lighting pole (All Inclusive)	10	No	12240.00	122400.00
Intersection Lighting	Underground electricity lines - trench	216	m	800.00	172800.00
	Relocate Telstra pit and conduits	2	No	8160.00	16320.00
Utilities	Relocate 100mm PVC water main	210	m	204.00	42840.00
	10-year Maintenance Fee	1	Item	75000.00	75000.00
VicRoads Fees	Prom, controller & surveillance	1	Item	17500.00	17500.00
Council Fees	3.25% of cost of works	1	Item	3.25	66851.13
Traffic Management	5% of cost of works	1	Item	5.00	102847.89
Environmental Management	0.5% of cost of works	1	Item	0.50	10284.79
Survey & Design	5% of cost of works	1	Item	5.00	102847.89
Supervision & Project Management	10% of cost of works	1	Item	10.00	205695.77
Site Establishment	2.5% of cost of works	1	Item	2.50	51423.94
Contingency	20% of cost of works	1	Item	20.00	411391.55
TOTAL - (2016) RATES	Excluding Delivery				2,056,957.74
	Including Delivery				3,008,300.70
TOTAL - (2021) RATES	Excluding Delivery				-
	Including Delivery				3,495,443.00
TOTAL - (2024) RATES	Excluding Delivery				-
	Including Delivery				4,188,652.00

Source – Rockbank Development Contributions Plan, VPA, August 2016

PLAN PREPARATION

Description: Plan Preparation

DCP Project No.: PL-01

Status of Project: Plan prepared

Construction Cost - (2011) rates	\$1,250,000
Construction Cost – (2021) rates	\$1,678,504

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)

ROADS

Description: Rees Road: Coburns Road (PSP Boundary) to East West Arterial (IT01)

DCP Project No.: RD-01

Status of Project: Constructed

Construction Cost - (2011) rates	\$631,800
Construction Cost – (2021) rates	\$848,383

Source – Toolern Development Contributions Plan, VPA, July 2011 (Amended June 2020)