## SHIRE OF YARRA RANGES ENGINEER'S ESTIMATE

## REFERENCE NO: PROJECT:

## DATE:

21-Jun-22

## TAINTON STREET AND RAILWAY PARADE WANDIN NORTH IMPROVEMENT WORKS SCS

\$1,808,451.25

TOTAL COSTS: AMOUNT CHARGEABLE: COUNCIL COSTS: AVAILABLE FUNDS: ACCOUNT No.

Item	Description	Quantity	Unit	1	Rate		Amount
1	RAILWAY PARADE	Quantity	Unit		Tuto		Amount
1.1	SITE PREPARATION/PRELIMINARIES						
							(0.000.00
1.1.1	Site establishment, set out and clean up, installation & maintaining sediment control, Environmental Management Plan, OH&S, Site Management Plan, Traffic Management Plan, Council permits, temporary fencing, setout, erection and maintenance of warning signs, lights and barriers.	1	Item	\$	10,000.00	\$	10,000.00
1.1.2	Provide a traffic management plan and traffic management in accordance with the VicRoads Roadworks Signing Code of Practice (AS 1742.3).	1	Item	\$	15,000.00	\$	15,000.00
1.2	REMOVAL WORKS						
1.2.1	Grubbing and clearing including sawcutting, taking up, removal and/or salvage of all existing redundant concrete, pipework, endwalls, guide posts, retaining walls, pits, trees, planting, etc. as specified.	1	Item	\$	5,000.00	\$	5,000.00
1.3	EARTHWORKS						
	Earthworks including excavation, forming, grading, boxing, filling, trimming, compaction of sub-grade, lowering of all private services, provision of access at existing driveway entrances, as directed and specified.						
1.3.1	Cut to Fill	200	m3	\$	60.00	\$	12,000.00
1.3.2	Cut to Dispose	143	m3	\$	60.00	\$	8,580.00
1.4	DRAINAGE			Ť		- <del>T</del>	-,
1.4.1	300mm dia. <b>RCP Pipe RRJ Class 4</b> including fittings. Crushed Rock Backfill	226	lin.m.	\$	300.00	\$	67,800.00
1.4.2	300mm dia. Twin-Walled Corrugated Polypropylene Pipe including fittings. Earth backfill	75	lin.m.	\$	280.00	\$	21,000.00
1.4.3	525mm dia. <b>RCP Pipe RRJ Class 4</b> including fittings. Crushed Rock Backfill	5	lin.m.	\$	525.00	\$	2,625.00
1.4.4	525mm dia. Twin-Walled Corrugated Polypropylene Pipe including fittings. Earth backfill	20	lin.m.	\$	475.00	\$	9,500.00
1.4.5	Supply of all materials, plant and labor and install subsurface drainage as detail in plans.	1311	lin.m.	\$	35.00	\$	45,885.00
1.5	DRAINAGE PITS						
1.5.1	<b>750mm x 1000mm</b> Side Entry Pit as shown on the plans to Council standard drawing SD/P1,	12	No.	\$	2,500.00	\$	30,000.00
1.5.2	<b>900mm x 1000mm</b> Side Entry Pit as shown on the plans to Council standard drawing SD/P1,	2	No.	\$	2,750.00	\$	5,500.00

ltem	Description	Quantity	Unit	Rate	Amount	
1.5.3	750mm x 1000mm Junction Pit as shown on	1	No.	\$ 2,250.00	\$ 2,250.00	
	the plans to Council standard drawing SD/P4					
	with Class B terra firma type lid.					

ltem	Description	Quantity	Unit		Rate		Amount
1.5.4	900mm x 1000mm Junction Pit as shown on	1	No.	\$	2,500.00	\$	2,500.00
	the plans to Council standard drawing SD/P4						
	with Class B terra firma type lid.						
1.5.5	900mm x 1000mm Grated Pit as shown on	1	No.	\$	3,000.00	\$	3,000.00
	the plans Council standard drawing SD/P6						
1.5.6	600mm x 1000mm Table Drain Inlet Pit as	1	No.	\$	2,250.00	\$	2,250.00
	shown on the plans to Council standard						
	drawing SD/P5						
1.6	CONCRETE KERB AND CHANNEL	4000	line me		110.00	<b></b>	425.000.00
1.6.1	600mm rollover kerb and channel to Council standard SD/B1 including excavation of	1236	lin.m.	\$	110.00	\$	135,960.00
	bedding and min. 50mm depth crushed rock						
	bedding						
1.6.2	450mm B2 barrier kerb to Council standard	55	lin.m.	\$	110.00	\$	6,050.00
1.0.2	SD/B2 including excavation of bedding and	00		l <sup>*</sup>	110.00	Ψ	0,000.00
	min. 50mm depth crushed rock bedding						
1.6.3	300mm Edge strip to Council standard SD/B2	22	lin.m.	\$	90.00	\$	1,980.00
	including excavation of bedding and min.						
	50mm depth crushed rock bedding						
1.7	ROAD PAVEMENT						
1.7.1	Shape, trim, spread and compact existing	1920	sq.m.	\$	5.00	\$	9,600.00
	subbase material to form road shape and						
	levels						
1.7.2	Sub-base Course - 150mm (minimum) depth	1717	sq.m.	\$	23.00	\$	39,491.00
	of 3% cement treated crushed rock					_	
1.7.3	Base course - 130mm depth of 20mm nominal	2562	sq.m.	\$	30.00	\$	76,860.00
	size class 2 fine crushed rock compacted to						
474	98% Mod MDD	0560	0.01.100	\$	25.00	\$	00.670.00
1.7.4	Asphalt wearing course - 40mm compacted	2562	sq.m.	•	35.00	\$	89,670.00
	depth of 14mm nominal size type 'H' asphalt, class C170 binder						
1.7.5	Asphalt wearing course - 30mm compacted	2562	sa m	\$	30.00	\$	76,860.00
1.7.5	depth of 10mm nominal size Type 'H' asphalt	2302	sq.m.	Ψ	50.00	φ	70,000.00
	class C170 binder						
1.8	VEHICLE CROSSINGS						
1.8.1	Reinstate existing gravel driveways to match	286	m²	\$	30.00	\$	8,580.00
	finished surface levels.					-	
1.8.2	Reinstate existing asphalt driveways to match	294	m²	\$	100.00	\$	29,400.00
	finished surface levels.						
1.9	LANDSCAPING						
1.9.1	Regrade and re-topsoil nature strip to an even	1	item	\$	25,000.00	\$	25,000.00
	depth of 50mm with imported local topsoil and						
	grass seeds as specified.						
	PAVEMENT MARKING						
1.10.1	Supply and temporary linemarking as noted in	1	item	\$	1,250.00	\$	1,250.00
	the specification and on the drawings.						
1.10.2		1	item	\$	2,500.00	\$	2,500.00
	thermoplastic material as noted in the						
	specification and on the drawings.						
1.11	ANCILLARY WORKS						
1.11.1	Supply and install road signs as shown on	1	item	\$	1,250.00	\$	1,250.00
	plans, as directed by Council's Superintendent.						
							<b>_</b> · · · ·
1.11.2		2	No.	\$	1,200.00	\$	2,400.00
	pram crossings as per council Std. Dwg.						
4 4 4 2	SD/B4.	~		<u> </u>	00.00	¢	150.00
1.11.3		5	sq.m.	\$	90.00	\$	450.00
	construct concrete footpath to Council						
	standard SD/B5, incl. pram crossings, as						
	shown on the plans			<b>_</b>	F00 00	é	4 000 0
1.11.4	•	2	No.	\$	500.00	\$	1,000.00
	Vicroads standard SD2051, as shown on plans						

ltem	Description	Quantity	Unit	Rate		Amount
1.12.1	Excavation of soft or unsuitable subgrade, backfill and compacted with 150mm compacted depth of size 20mm Class 2 crushed rock, as specified. This item includes pavement subase for new pavement areas.	200	sq.m	\$ 60.00	\$	12,000.00
1.12.2	Excavation of soft or unsuitable subgrade, backfill and compacted with 100mm compacted depth of 3% size 20mm Class 3 cement treated crushed rock, as specified. This item includes pavement subase for new	100	sq.m	\$ 50.00	\$	5,000.00
1.12.3	pavement areas. Supply all plant, materials and labour to remove rock or rock like substances from road	50	cu.m	\$ 250.00	\$	12,500.00
1.12.4	boxing or drainage trenches. Provision of as constructed plans to Council.	1	Item	\$ 1,500.00	\$	1,500.00
1.12.5	Allowance to top up and reseed areas where topsoil has settled 3-6 months after construction.	1	Item	\$ 12,500.00	\$	12,500.00
	SUB-TOTAL (RAILWAY PARADE)					\$794,691.00
2 2.1	TAINTON STREET SITE PREPARATION/PRELIMINARIES				_	
	Site establishment, set out and clean up, installation & maintaining sediment control, Environmental Management Plan, OH&S, Site Management Plan, Traffic Management Plan, Council permits, temporary fencing, setout,	1	Item	\$ 10,000.00	\$	10,000.00
2.1.2	erection and maintenance of warning signs, lights and barriers. Provide a traffic management plan and traffic management in accordance with the VicRoads Roadworks Signing Code of Practice (AS	1	Item	\$ 15,000.00	\$	15,000.00
2.2	1742.3). REMOVAL WORKS					
2.2.1	Grubbing and clearing including sawcutting, taking up, removal and/or salvage of all existing redundant concrete, pipework, endwalls, guide posts, retaining walls, pits, trees, planting, etc. as specified.	1	ltem	\$ 10,000.00	\$	10,000.00
2.3	<b>EARTHWORKS</b> Earthworks including excavation, forming, grading, boxing, filling, trimming, compaction of sub-grade, lowering of all private services, provision of access at existing driveway entrances, as directed and specified.					
2.3.1	Cut to Fill	227	m3	\$ 60.00	\$	13,620.00
2.3.2	Cut to Dispose	58	m3	\$ 60.00	\$	3,480.00
<b>2.4</b> 2.4.1	DRAINAGE 300mm dia. reinforced concrete drainage pipe (class 4) rubber ring jointed. Crushed rock backfill	51	lin.m.	\$ 300.00	\$	15,300.00
2.4.2	300mm dia. <b>ribbed poly-propylene pipes</b> rubber ring jointed. Crushed rock backfill	132	lin.m.	\$ 300.00	\$	39,600.00
2.4.3	300mm dia. <b>ribbed poly-propylene pipes</b> rubber ring jointed. Select fill backfill	95	lin.m.	\$ 250.00	\$	23,750.00
2.4.4	600mm dia. <b>reinforced concrete drainage</b> <b>pipe</b> (class 4) rubber ring jointed. Crushed rock backfill	6	lin.m.	\$ 600.00	\$	3,600.00
2.4.5	600mm dia. <b>ribbed poly-propylene pipes</b> rubber ring jointed. Select fill backfill	7	lin.m.	\$ 550.00	\$	3,850.00
2.4.6	150mm dia. sewer grade <b>PVC pipes</b> SCJ.	53	lin.m.	\$ 100.00	\$	5,300.00

Item	Description	Quantity	Unit	Rate	Amount
2.4.7	Supply of all materials, plant and labor and install subsurface drainage as detail in plans.	973	lin.m.	\$ 35.00	\$ 34,055.00
2.4.8	Reconnection of existing property connections to new drainage as per Council standard.	5	No.	\$ 900.00	\$ 4,500.00
2.5	DRAINAGE PITS				
2.5.1	<b>750mm x 1000mm</b> Side Entry Pit as shown on the plans to Council standard drawing SD/P1,	15	No.	\$ 2,500.00	\$ 37,500.00
2.5.2	<b>900mm x 1000mm</b> Side Entry Pit as shown on the plans to Council standard drawing SD/P1,	1	No.	\$ 2,750.00	\$ 2,750.00
2.5.3	<b>750mm x 1000mm</b> Junction Pit as shown on the plans to Council standard drawing SD/P4 with Class B terra firma type lid.	1	No.	\$ 2,000.00	\$ 2,000.00
2.5.4	<b>750mm x 1000mm</b> Junction Pit as shown on the plans to Council standard drawing SD/P4 with Class B terra firma type lid.	1	No.	\$ 2,250.00	\$ 2,250.00
2.5.5	<b>900mm x 1000mm</b> Junction Pit as shown on the plans to Council standard drawing SD/P4 with Class B terra firma type lid.	2	No.	\$ 2,500.00	\$ 5,000.00
2.5.6	<b>300mm x 300mm</b> Property Inlet Pit as shown on the plans Council standard drawing SD/H3	2	No.	\$ 300.00	\$ 600.00
2.6	CONCRETE KERB AND CHANNEL				
2.6.1	600mm rollover kerb and channel to Council standard SD/B1 including excavation of bedding and min. 50mm depth crushed rock bedding	885	lin.m.	\$ 110.00	\$ 97,350.00
2.6.2	300mm Edge strip to Council standard SD/B2 including excavation of bedding and min. 50mm depth crushed rock bedding	88	lin.m.	\$ 90.00	\$ 7,920.00
2.7	ROAD PAVEMENT				
2.7.1	Shape, trim, spread and compact existing subbase material to form road shape and levels	1491	sq.m.	\$ 5.00	\$ 7,455.00
2.7.2	Sub-base Course - 150mm (minimum) depth of 3% cement treated crushed rock	1230	sq.m.	\$ 23.00	28,290.00
2.7.3	Base course - 130mm depth of 20mm nominal size class 2 fine crushed rock compacted to 98% Mod MDD	2018	sq.m.	\$ 30.00	\$ 60,540.00
2.7.4	Asphalt wearing course - 40mm compacted depth of 14mm nominal size type 'H' asphalt, class C170 binder	2018	sq.m.	\$ 35.00	\$ 70,630.00
2.7.5	Asphalt wearing course - 30mm compacted depth of 10mm nominal size Type 'H' asphalt class C170 binder	2018	sq.m.	\$ 30.00	\$ 60,540.00
2.8	VEHICLE CROSSINGS				
2.8.1	Reinstate existing gravel driveways to match finished surface levels.	563	m²	\$ 30.00	\$ 16,890.00
2.8.2	Reinstate existing concrete driveways to match finished surface levels.	26	m²	\$ 150.00	\$ 3,900.00
<b>2.9</b> 2.9.1	LANDSCAPING Regrade and re-topsoil nature strip to an even depth of 50mm with imported local topsoil and grass seeds as specified.	1	item	\$ 20,000.00	\$ 20,000.00
	PAVEMENT MARKING				
2.10.1	Supply and temporary linemarking as noted in the specification and on the drawings.	1	item	\$ 1,250.00	\$ 1,250.00
2.10.2	Supply and linemark with long life thermoplastic material as noted in the specification and on the drawings.	1	item	\$ 2,500.00	\$ 2,500.00
2.11	ANCILLARY WORKS				

ltem	Description	Quantity	Unit		Rate		Amount
2.11.1	Supply and install road signs as shown on plans, as directed by Council's Superintendent.	1	item	\$	1,250.00	\$	1,250.00
0.44.0					1 000 00		0.400.00
2.11.2	Supply all materials and construct concrete pram crossings as per council Std. Dwg.	2	No.	\$	1,200.00	\$	2,400.00
	SD/B4.						
2.11.3	Supply all materials, plant and labour and	25	sq.m.	\$	90.00	\$	2,250.00
	construct concrete footpath to Council						
	standard SD/B5, incl. pram crossings, as shown on the plans						
2.12	PROVISIONAL ITEMS						
	Excavation of soft or unsuitable subgrade,	150	sq.m	\$	60.00	\$	9,000.00
	backfill and compacted with 150mm		• • • • •	Ť		Ŧ	0,000.00
	compacted depth of size 20mm Class 2						
	crushed rock, as specified. This item includes						
	pavement subase for new pavement areas.						
2.12.2	Excavation of soft or unsuitable subgrade,	75	sq.m	\$	50.00	\$	3,750.00
2.12.2	backfill and compacted with 100mm	75	39.11	ΙΨ	50.00	Ψ	0,700.00
	compacted depth of 3% size 20mm Class 3						
	cement treated crushed rock, as specified.						
	This item includes pavement subase for new						
	pavement areas.						
2.12.3	Supply all plant, materials and labour to	50	cu.m	\$	250.00	\$	12,500.00
	remove rock or rock like substances from road						
0.40.4	boxing or drainage trenches.	4	14	<b>_</b>	1 500 00	<b>^</b>	4 500 00
2.12.4	Provision of as constructed plans to Council.	1	Item	\$	1,500.00	\$	1,500.00
2.12.5	Allowance to top up and reseed areas where	1	Item	\$	10,000.00	\$	10,000.00
	topsoil has settled 3-6 months after						
	construction.						*****
	SUB-TOTAL (TAINTON STREET)						\$652,070.00
	SUB-TOTAL (RAILWAY PARADE)						\$794,691.00
	SUB-TOTAL (TAINTON STREET)						\$652,070.00
	TOTAL						\$1,446,761.00
	Scheme preperation, supervision,					\$	72,338.05
	administration etc. 5%						70 000 5-
	Engineer Consultants and other Costs 5%					\$	72,338.05
	Tree Management (Arborist Assessment, Tree Offsets) 5%					\$	72,338.05
	Contingency sum 10%					\$	144,676.10
		TOTAL SCH		ст.			\$1,808,451.25