

**SHIRE OF YARRA RANGES  
ENGINEER'S ESTIMATE**

REFERENCE NO:	DATE:	30-May-22
PROJECT:	<b>ALFRED STREET AND JOHN STREET WANDIN NORTH IMPROVEMENT WORKS SCS</b>	
TOTAL PROJECT COSTS:		<b>\$1,941,712.50</b>
AMOUNT CHARGEABLE:		
COUNCIL COSTS:		<b>\$0.00</b>
TOTAL SCHEME COSTS:		<b>\$1,941,712.50</b>

Item	Description	Quantity	Unit	Rate	Amount
<b>1</b>	<b>SITE PREPARATION/PRELIMINARIES</b>				
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	\$ 15,000.00	\$ 15,000.00
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	\$ 50,000.00	\$ 50,000.00
<b>2</b>	<b>REMOVAL WORKS</b>				
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	\$ 30,000.00	\$ 30,000.00
<b>3</b>	<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.				
3.1	Cut - solid	330	m3	\$ 60.00	\$ 19,800.00
3.2	Fill - solid	980	m3	\$ 60.00	\$ 58,800.00
<b>7</b>	<b>DRAINAGE</b>				
7.1	225mm dia. <b>RCP Pipe RRJ Class 4</b> including fittings. Crushed Rock Backfill	6	lin.m.	\$ 200.00	\$ 1,200.00
7.2	300mm dia. <b>Twin-Walled Corrugated Polypropylene Pipe</b> including fittings. Earth backfill	556	lin.m.	\$ 280.00	\$ 155,680.00
7.3	300mm dia. <b>RCP Pipe RRJ Class 4</b> including fittings. Crushed Rock Backfill	40	lin.m.	\$ 300.00	\$ 12,000.00
7.4	375mm dia. <b>Twin-Walled Corrugated Polypropylene Pipe</b> including fittings. Earth backfill	120	lin.m.	\$ 325.00	\$ 39,000.00
7.5	375mm dia. <b>RCP Pipe RRJ Class 4</b> including fittings. Crushed Rock Backfill	7	lin.m.	\$ 350.00	\$ 2,450.00
<b>7</b>	<b>DRAINAGE PITS</b>				
7.6	<b>600mm x 900mm</b> Side Entry Pit as shown on the plans to Council standard drawing SD/P1,	19	No.	\$ 2,500.00	\$ 47,500.00
7.7	<b>600mm x 900mm</b> Junction Pit as shown on the plans to Council standard drawing SD/P4 with Class D trafficable pit lid, terra firma type lid or similar	8	No.	\$ 2,250.00	\$ 18,000.00

Item	Description	Quantity	Unit	Rate	Amount
7.8	<b>600mm x 900mm</b> Grated Side Entry Pit as shown on the plans to Council standard drawing SD/P3 with Class D trafficable grate	7	No.	\$ 2,750.00	\$ 19,250.00
7.9	<b>600mm x 600mm</b> Junction Pit as shown on the plans to Yarra Ranges Council standard drawing SD/P4	4	No.	\$ 2,000.00	\$ 8,000.00
7.10	<b>450mm x 450mm</b> Property Inlet Pit as shown on the plans to Yarra Ranges Council standard drawing SD/H3, to be installed in trapped low points as per design plans. Including connection to main drain.	6	No.	\$ 1,000.00	\$ 6,000.00
7.11	Reconstruct top of existing grated pit as side entry pit and match to new kerb and channel.	2	No.	\$ 1,500.00	\$ 3,000.00
7.12	Reconstruct top of existing junction pit as grated side entry pit and match to new kerb and channel.	1	No.	\$ 1,500.00	\$ 1,500.00
7.13	Reconstruct top of existing side entry pit to suit to new kerb and channel / finished surface	2	No.	\$ 1,500.00	\$ 3,000.00
7.14	Break into existing pit wall and make good connection	2	No.	\$ 1,000.00	\$ 2,000.00
7.15	Reconnection of existing property connections to new drainage as per Council Standard (minimum 100mm dia PVC -DWV, unless otherwise specified.)	21	No.	\$ 500.00	\$ 10,500.00
7.16	Reconnection of existing property connections to new kerb and channel as per Council Standard SD/H2	21	No.	\$ 500.00	\$ 10,500.00
7.17	100mm dia. Class 400 agricultural drain behind new kerbing, including pit connections as per subsoil drainage Y.R.C SD/D4	2025	lin.m.	\$ 35.00	\$ 70,875.00
7.18	Supply all plant, materials and labour to construct anchor blocks for drainage lines as specified on plans to Council Standard SD/D3	2	No.	\$ 450.00	\$ 900.00
<b>6</b>	<b>CONCRETE KERB AND CHANNEL</b>				
6.1	Supply all materials and construct concrete rollover kerb and channel cast-in-situ, inclusive of all vehicular openings and pram crossings placed where directed, laid on 50mm compacted thickness of approved bedding material. All as per SD/B1.	2104	Lin.m	\$ 110.00	\$ 231,440.00
<b>4</b>	<b>ROAD PAVEMENT</b>				
5.1	Shape, trim, spread and compact existing subbase material to form road shape and levels..	5635	sq.m.	\$ 5.00	\$ 28,175.00
5.2	Sub-base Course - 150mm (minimum) depth of 3% cement treated crushed rock	2500	sq.m.	\$ 23.00	\$ 57,500.00
5.3	Base course - 130mm depth of 20mm nominal size class 2 fine crushed rock compacted to 98% Mod MDD	4520	sq.m.	\$ 30.00	\$ 135,600.00
5.4	Asphalt wearing course - 40mm compacted depth of 14mm nominal size type 'H' asphalt, class C170 binder	4520	sq.m.	\$ 35.00	\$ 158,200.00
5.5	Asphalt wearing course - 30mm compacted depth of 10mm nominal size Type 'H' asphalt class C170 binder	4520	sq.m.	\$ 30.00	\$ 135,600.00
5.6	Asphalt Base course - 2 x 75mm compacted depth of 20mm type 'SI' asphalt	86	sq.m.	\$ 150.00	\$ 12,900.00
5.7	Asphalt wearing course - 40mm compacted depth of 14mm nominal size Type 'HG' asphalt Class C170 Binder	86	sq.m.	\$ 50.00	\$ 4,300.00

Item	Description	Quantity	Unit	Rate	Amount
<b>5</b>	<b>VEHICLE CROSSINGS</b>				
5.1	Reinstate existing gravel driveways to match finished surface levels.	1520	m <sup>2</sup>	\$ 30.00	\$ 45,600.00
5.2	Reinstate existing asphalt driveways to match finished surface levels.	110	m <sup>2</sup>	\$ 150.00	\$ 16,500.00
5.2	Reinstate existing concrete driveways to match finished surface levels.	95	m <sup>2</sup>	\$ 150.00	\$ 14,250.00
<b>8</b>	<b>LANDSCAPING</b>				
8.1	Regrade and re-topsoil nature strip to an even depth of 50mm with imported local topsoil and grass seeds as specified.	1	item	\$ 12,500.00	\$ 12,500.00
<b>9</b>	<b>PAVEMENT MARKING</b>				
9.1	Supply and temporary linemarking as noted in the specification and on the drawings.	1	item	\$ 750.00	\$ 750.00
9.1	Supply and linemark with long life thermoplastic material as noted in the specification and on the drawings.	1	item	\$ 1,500.00	\$ 1,500.00
<b>10</b>	<b>ANCILLARY WORKS</b>				
10.1	Supply and install road signs as shown on plans, as directed by Council's Superintendent.	12	No.	\$ 150.00	\$ 1,800.00
10.4	Supply all materials and construct concrete pram crossings as per council Std. Dwg. SD/B4.	4	No.	\$ 1,200.00	\$ 4,800.00
9.4	Supply all plant, materials and labour to construct 100mm compacted depth gravel footpath Class 2 FCR	785	sq.m.	\$ 50.00	\$ 39,250.00
<b>11</b>	<b>PROVISIONAL ITEMS</b>				
11.1	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 subbase for new pavement areas.	450	sq.m	\$ 60.00	\$ 27,000.00
11.2	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 subbase for new pavement areas.	225	sq.m	\$ 50.00	\$ 11,250.00
11.3	Adjust existing Telstra Pit to match new finished surface levels.	8	No.	\$ 2,500.00	\$ 20,000.00
11.4	Provision of as constructed plans to Council.	1	Item	\$ 1,500.00	\$ 1,500.00
11.5	Allowance to top up and reseed areas where topsoil has settled 3-6 months after construction.	1	Item	\$ 8,000.00	\$ 8,000.00
	<b>SUB-TOTAL</b>				\$1,553,370.00
	Scheme preparation, supervision, administration etc. 5%				\$ 77,668.50
	Engineer Consultants and other Costs 5%				\$ 77,668.50
	Tree Management (Arborist Assessment, Tree Offsets) 5%				\$ 77,668.50
	Contingency sum 10%				\$ 155,337.00
	<b>TOTAL SCHEME COST</b>				<b>\$1,941,712.50</b>