

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

REFERENCE NO:	DATE:	23-May-22
PROJECT:	BELBROOK ROAD, CARWEEN AVENUE, WELDON GROVE AND THE HIGHWAY, UPWEY ROAD UPGRADE	
TOTAL COSTS:		\$816,268.75

Item	Description	Quantity	Unit	Rate	Amount
1	SITE PREPARATION/PRELIMINARIES				
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	\$ 20,000.00	\$ 20,000.00
2	REMOVAL WORKS				
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	\$ 40,000.00	\$ 40,000.00
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.				
3.1	Cut - solid	150	m3	\$ 70.00	\$ 10,500.00
3.2	Fill - solid	350	m3	\$ 70.00	\$ 24,500.00
4	DRAINAGE PIPES				
4.1	Class 2, 300mm diameter rubber ring jointed pipe, supplied, excavated, laid, jointed and backfilled with class 2 FCR backfill, including bedding materials, as specified.	225	Lin.m	\$ 300.00	\$ 67,500.00
4.20	100mm dia. Class 400 agricultural drain behind new kerbing, including pit connections as per subsoil drainage Y.R.C SD/D4	918	Lin.m	\$ 40.00	\$ 36,720.00
4.30	Existing House Drain to be connected to new kerb, drainage pipe or drainage pit as specified on plans, with Council approved adaptors as directed by Council's	5	No.	\$ 350.00	\$ 1,750.00
5	DRAINAGE PITS				
5.1	Grated Side Entry pit 900mm long x 600mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P3. (Pit #).	15	No.	\$ 2,750.00	\$ 41,250.00

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

5.2	Junction pit 900mm long x 600mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P4 with Council Approved Pit Lid. (Pit #)	1	No.	\$ 2,250.00	\$ 2,250.00
6	MODIFY DRAINAGE PITS				
6.1	Connect proposed 300mm dia. pipe to existing pit chamber. (Pit #).	4	No.	\$ 750.00	\$ 3,000.00
6.2	Adjust existing Junction Pit to suit new finished surface levels & install new Council approved Pit Lid. (Pit #).	4	No.	\$ 1,250.00	\$ 5,000.00
6.3	Convert existing Grated Pit to Grated Side Entry Pit to suit new kerb alignment & new finished surface levels. (Pit #).	5	No.	\$ 1,750.00	\$ 8,750.00
7	KERB AND CHANNEL				
7.1	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.	900	Lin.m	\$ 120.00	\$ 108,000.00
7.2	Supply all materials and construct concrete 300mm wide flush on ground edge strip cast-in-situ, inclusive of all vehicular openings placed where directed, laid on 50mm compacted thickness of approved bedding material. All as per SD/B1.	18	Lin.m	\$ 90.00	\$ 1,620.00
8	DRIVEWAYS				
8.1	Regrade concrete driveway to match new formation as specified as per council Std. Dwg. SD/C2.	138	sq.m	\$ 150.00	\$ 20,700.00
8.2	Regrade pattern concrete driveway to match new formation as specified as per council Std. Dwg. SD/C2.	41	sq.m	\$ 250.00	\$ 10,250.00
8.3	Regrade driveways with 75mm min depth 20mm class 3 fine crushed rock to match new formation as specified.	17	No.	\$ 500.00	\$ 8,500.00
8.4	Regrade and resheet driveways with 50mm compacted depth Asphalt Type L size 10mm on 100mm thick compacted approved bedding material as specified.	61	sq.m	\$ 100.00	\$ 6,100.00
9	ROAD PAVEMENT				
9.1	Supply, spread and compact 150mm compacted depth of 40mm Class 2 crushed rock 'Subbase Course' compaction to 95% IN PAVEMENT WIDENING supplied, spread and compacted as specified.	85	sq.m	\$ 35.00	\$ 2,975.00
9.2	Supply, spread and compact varying depth size 20mm Class 2 FCR Regulation Course as specified. Applies to pavement reconstruction areas.	223	m ³	\$ 70.00	\$ 15,610.00
9.3	Supply, lay, spread and compact 40mm depth asphalt type H size 14mm Base Course supplied, spread and compacted as specified. Including new pavement and pavement reinstatement areas.	1485	m ²	\$ 50.00	\$ 74,250.00

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

9.4	Profile existing asphalt road pavement as required to 30mm below finished surface levels.	1	Item	\$ 7,000.00	\$ 7,000.00
9.5	Supply, lay, spread and compact 30mm depth asphalt type H size 10mm Wearing Course supplied, spread and compacted as specified. Including new pavement, pavement reinstatement areas and asphalt overlay areas.	1559	m ²	\$ 40.00	\$ 62,360.00
9.6	Supply, lay, spread and compact 50mm depth asphalt type H size 14mm Wearing Course supplied, spread and compacted on top of existing crushed rock on service road on Mast Gully Road as specified on plans, all as directed by Council's Superintendent.	231	m ²	\$ 60.00	\$ 13,860.00
10	MISCELLANEOUS				
10.1	Supply and linemark with long life thermoplastic material as noted in the specification and on the drawings.	1	item	\$ 2,000.00	\$ 2,000.00
10.2	Reinstate/relocate existing sign as shown on plans, as directed by Council's Superintendent.	3	No.	\$ 150.00	\$ 450.00
10.3	Install New 'Give-Way' Sign (R1-2) as shown on plans, as directed by Council's Superintendent.	1	No.	\$ 250.00	\$ 250.00
10.4	Install New 'Road Narrows' (W4-1) & 'One Lane' Warning Signs (W8-16) on same post, as shown on plans, as directed by Council's Superintendent.	2	No.	\$ 350.00	\$ 700.00
10.5	Regrade and re-topsoil nature strip to an even depth of 50mm with imported local topsoil and grass seeds as specified.	922	sq.m	\$ 15.00	\$ 13,830.00
11	PROVISIONAL ITEMS				
11.1	Excavation of soft or unsuitable subgrade, backfill and compacted with 3% cement treated crushed rock, as specified. This item includes pavement subbase for new pavement areas.	63	cu.m.	\$ 180.00	\$ 11,340.00
11.2	Adjust existing utility pits to match new finished surface levels.	6	No.	\$ 2,500.00	\$ 15,000.00
11.3	Allowance to top up and reseed areas where topsoil has settled 3-6 months after construction.	1	Item	\$ 2,000.00	\$ 2,000.00
	SUB-TOTAL				\$653,015.00
	Scheme preparation, supervision, administration etc. 5%				\$ 32,650.75
	Engineer Consultants and other Costs 5%				\$ 32,650.75
	Tree Management (Arborist Assessment, Tree Offsets) 5%				\$ 32,650.75
	Contingency sum 10%				\$ 65,301.50
TOTAL SCHEME COST					\$816,268.75