

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

REFERENCE NO:		DATE:	27-May-22
PROJECT:	HENRY STREET, YARRA JUNCTION ROAD UPGRADE		
TOTAL COSTS:			\$477,525.75
AMOUNT CHARGEABLE:			
COUNCIL COSTS:			
AVAILABLE FUNDS:			
ACCOUNT No.			

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. (Removal of Concrete Kerb & Channel=11Lin.m), (Removal of Concrete Vehicle Crossings=156Sq.m), (Removal of Asphalt Vehicle Crossings=39Sq.m), (Removal of Box Culvert=6Lin.m), (Removal of Endwall=2No.), (Removal of Trees=17No.), (Removal of Tree stump=1No.)	1	Item	\$35,000.00	\$ 35,000.00
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	112	m3	\$ 70.00	\$ 7,840.00
3.2	Fill - solid	175	m3	\$ 70.00	\$ 12,250.00
4	ROAD PAVEMENT				
4.1	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. (Approx. Area as shown) (Pavement Widening Subbase).	1194	sq.m	\$ 30.00	\$ 35,820.00

Item	Description	Quantity	Unit	Rate	Amount
4.2	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.	1194	m ²	\$ 25.00	\$ 29,850.00
4.3	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.	1194	m ²	\$ 20.00	\$ 23,880.00
5	CONCRETE WORKS				
	All Concrete to be minimum 32MPa				
5.1	KERB AND CHANNEL				
5.1.1	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.	539	Lin.m	\$ 95.00	\$ 51,205.00
5.1.2	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.	6	Lin.m	\$ 85.00	\$ 510.00
6	DRAINAGE PIPES				
	Excavation and construction of the following drainage pits, including the supply of all materials, plant and labour as specified:				
	Crushed Rock Backfill				
6.1	Class 2, 300mm diameter rubber ring jointed pipe, supplied, excavated, laid, jointed and backfilled with class 2 FCR backfill, including bedding materials, as specified.	198	Lin.m	\$ 300.00	\$ 59,400.00
7	CCTV SURVEILLANCE				
7.1	CCTV stormwater drain- post construction drain CCTV footage. Format: hardcopy and USB.	1	item	\$ 2,000.00	\$ 2,000.00
8	DRAINAGE PITS				
	Excavation and construction of the following drainage pits, including the supply of all materials, plant and labour, as specified:(Allow for 20mm conduits to go into pits from where new road is being made to allow for water to access pits.)				
8.1	Grated Side Entry pit 1000mm long x 750mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P3. (Pit #3, 4, 5, 6, 7, 8, 9 & 10).	8	No.	\$ 2,400.00	\$ 19,200.00
8.2	Junction pit 1000mm long x 750mm wide internal dimensions (up to 1.5m deep) as per Council Std. Dwg. SD/P4 with Council Approved Pit Lid. (Pit #1)	1	No.	\$ 2,250.00	\$ 2,250.00
9	MODIFY DRAINAGE PITS				
9.1	Connect proposed 300mm dia. pipe to existing pit chamber. (Pit #2).	2	No.	\$ 800.00	\$ 1,600.00
9.2	Adjust existing Side Entry Pit to suit new kerb alignment & new finished surface levels & install new Council approved Pit Lid. (Pit #2).	1	No.	\$ 800.00	\$ 800.00
9.3	Adjust existing Grated Pit to suit new kerb alignment & new finished surface levels & install new Council approved Pit Lid. (Pit #11).	1	No.	\$ 800.00	\$ 800.00

Item	Description	Quantity	Unit	Rate	Amount
12	PROVISIONAL ITEMS				
12.1	Regrade and re-topsoil nature strip to an even depth of 50mm with imported local topsoil and grass seeds as specified.	547	sq.m	\$ 10.00	\$ 5,470.00
12.2	Saw cutting of existing concrete and asphalt.	7	Lin.m	\$ 10.00	\$ 70.00
12.3	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.	48	cu.m.	\$ 170.00	\$ 8,160.00
12.4	Supply, spread and compact varying depth size 20mm Class 2 FCR Regulation Course as specified. Applies to pavement reconstruction areas.	128	m ³	\$ 150.00	\$ 19,200.00
12.5	Regrade driveways with 75mm min depth 20mm class 3 fine crushed rock to match new formation as specified.	21	No.	\$ 500.00	\$ 10,500.00
12.6	100mm dia. Class 400 agricultural drain behind new kerbing, including pit connections as per subsoil drainage Y.R.C SD/D4	545	Lin.m	\$ 50.00	\$ 27,250.00
12.7	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	7	No.	\$ 250.00	\$ 1,750.00
12.8	Adjust existing Telstra Pit to match new finished surface levels.	3	No.	\$ 3,000.00	\$ 9,000.00
12.9	Adjust existing Sewer Pit to match new finished surface levels.	1	No.	\$ 3,000.00	\$ 3,000.00
12.10	Provision of as constructed plans to Council.	1	Item	\$ 1,000.00	\$ 1,000.00
12.11	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				\$404,805.00
	Scheme preparation, supervision, administration etc. 5%				\$ 20,240.25
	Engineer Consultants and other Costs				\$ 12,000.00
	Contingency sum 10%				\$ 40,480.50
	TOTAL SCHEME COST				\$477,525.75
	Items not forming part of Scheme				
	TOTAL PROJECT COST				\$477,525.75