



MUNICIPALITY OF RED LAKE



TRAILS ENGINEERING STUDY

CLASS "B" COST ESTIMATE

ITEM	REFERENCE	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
<b>PHASE 1 - RED LAKE TO BALMERTOWN (from 1+000 to 1+550, 2+000 to 10+300)</b>						
1	A	<b>Paved 3m wide trail (from 1+000 to 1+550, 2+000 to 3+150)</b>				
	A.1	Clearing & Grubbing	22,000	m2	\$3	\$66,000
	A.2	Excavation (Cut Areas)	5,200	m3	\$30	\$156,000
	A.3	Reuseable Fill	4,000	m3	\$10	\$40,000
	A.4	Geotextile for subbase	22,000	m2	\$5	\$110,000
	A.5	Granular A (100mm)	1,632	tonnes	\$25	\$40,800
	A.6	Granular B (250mm)	3,400	tonnes	\$22	\$74,800
	A.7	HL4 (50mm)	625	tonnes	\$180	\$112,455
	A.8	Line Painting (single yellow centreline)	60	m	\$5	\$300
	A.9	Culverts - 1900mm CSP	24	m	\$1,300	\$31,200
	A.10	Culverts - 900mm CSP	16	m	\$800	\$12,800
	A.11	Culverts - 500mm CSP	13	m	\$600	\$7,800
	A.12	Trail Lighting - Trenching	1,700	m	\$35	\$59,500
	A.13	Trail Lighting - Poles, pole bases, wiring, ducts, etc.	1,700	m	\$240	\$408,000
	A.14	Trail Lighting - Hydro Connection Fees	1	Lump Sum	\$10,000	\$10,000
	B	<b>Gravel 3m wide trail (from 3+150 to 10+300)</b>				
	B.1	Clearing & Grubbing	76,000	m2	\$3	\$228,000
	B.2	Excavation (Cut Areas)	8,000	m3	\$30	\$240,000
	B.3	Reuseable Fill	5,500	m3	\$10	\$55,000
	B.4	Geotextile for subbase	76,000	m2	\$3	\$228,000
	B.5	Gravel (crushed stone) (150mm)	10,296	tonnes	\$25	\$257,400
	B.6	Culverts - 600mm CSP	27	m	\$600	\$16,200
	B.7	Culverts - 800mm CSP	140	m	\$700	\$98,000
	B.8	Culverts - 900mm CSP	44	m	\$800	\$35,200
	B.9	Boardwalk Structure at 4+650	25	m	\$1,000	\$25,000
	B.10	Boardwalk Structure at 10+050	50	m	\$1,000	\$50,000
	C	<b>Miscellaneous</b>				
	C.1	Chukuni River Pedestrian Bridge - Foundation/Abutments	1	Lump Sum	\$300,000	\$300,000
	C.2	Chukuni River Pedestrian Bridge - Steel Beams/Girders	1	Lump Sum	\$200,000	\$200,000
	C.3	Chukuni River Pedestrian Bridge - Railings	1	Lump Sum	\$50,000	\$50,000
	C.4	Chukuni River Pedestrian Bridge - Towers	1	Lump Sum	\$50,000	\$50,000
	C.5	Chukuni River Pedestrian Bridge - Cables/Connectors	1	Lump Sum	\$250,000	\$250,000
	C.6	Chukuni River Pedestrian Bridge - Decking	1	Lump Sum	\$25,000	\$25,000
	C.7	Chukuni River Pedestrian Bridge - Construction Drawings	1	Lump Sum	\$150,000	\$150,000
	C.8	Chukuni River Pedestrian Bridge - Geotechnical & Testing	1	Lump Sum	\$100,000	\$100,000
	C.9	Trail Guiderail	1	Lump Sum	\$25,000	\$25,000
	C.10	Rest Stop	1	Lump Sum	\$10,000	\$10,000
	C.11	Trail Signage	1	Lump Sum	\$15,000	\$15,000
	C.12	Seed and Mulch	55,000	m2	\$1	\$55,000
	C.13	Rock Protection	5,000	m2	\$15	\$75,000
					Total	\$3,667,455
					<b>Total including 15% Contingency</b>	<b>\$4,217,573</b>

ITEM	REFERENCE	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
<b>PHASE 2 - BALMERTOWN TO COCHENOUR (from 10+300 to 16+200)</b>						
<b>2</b>	<b>A</b>	<b>Paved 3m wide trail (from 10+300 to 12+250)</b>				
	A.1	Clearing & Grubbing	20,000	m2	\$3	\$60,000
	A.2	Excavation (Cut Areas)	5,000	m3	\$30	\$150,000
	A.3	Reuseable Fill	4,000	m3	\$10	\$40,000
	A.4	Geotextile for subbase	20,000	m2	\$5	\$100,000
	A.5	Granular A (100mm)	1,872	tonnes	\$25	\$46,800
	A.6	Granular B (250mm)	3,900	tonnes	\$22	\$85,800
	A.7	HL4 (50mm)	717	tonnes	\$180	\$128,993
	A.8	Culverts - 900mm	46	m	\$800	\$36,800
	A.9	Line Painting (single yellow centreline)	60	m	\$5	\$300
	A.10	Trail Lighting - Trenching	1,950	m	\$30	\$58,500
	A.11	Trail Lighting - Poles, pole bases, wiring, ducts, etc.	1,950	m	\$230	\$448,500
	A.12	Trail Lighting - Hydro Connection Fees	1	Lump Sum	\$10,000	\$10,000
	<b>B</b>	<b>Gravel 3m wide trail (from 12+250 to 16+200)</b>				
	B.1	Clearing & Grubbing	60,000	m2	\$3	\$180,000
	B.2	Excavation (Cut Areas)	7,000	m3	\$30	\$210,000
	B.3	Reuseable Fill	6,000	m3	\$10	\$60,000
	B.4	Geotextile for subbase	60,000	m2	\$3	\$180,000
	B.5	Gravel (crushed stone) (150mm)	5,688	tonnes	\$25	\$142,200
	B.6	Culverts - 500mm	23	m	\$600	\$13,800
	B.7	Culverts - 800mm	28	m	\$700	\$19,600
	B.8	Culverts - 900mm	28	m	\$800	\$22,400
	B.9	Culverts - 1500mm	19	m	\$1,000	\$19,000
	B.10	Culverts - 1800mm	21	m	\$1,200	\$25,200
	<b>C</b>	<b>Miscellaneous</b>				
	C.1	Plane Crash Site Memorial (Rest Stop)	1	Lump Sum	\$10,000	\$10,000
	C.3	Boardwalk Structure at 14+700	75	m	\$1,500	\$112,500
	C.4	Trail Guiderail	1	Lump Sum	\$25,000	\$25,000
	C.5	Rest Stops (one location)	1	Lump Sum	\$2,500	\$2,500
	C.6	Seed & Mulch	45,000	m2	\$1	\$45,000
		Rock Protection	10,000	m2	\$15	\$150,000
					Total	\$2,382,893
					<b>Total including 15% Contingency</b>	<b>\$2,740,326</b>

ITEM	REFERENCE	DESCRIPTION	QTY	UNIT	UNIT PRICE	TOTAL PRICE
<b>PHASE 3 - Red Lake to Madsen (from 20+000 to 27+950)</b>						
<b>3</b>	<b>A</b>	<b>Widened Paved Shoulder (0.2m on each side) along Highway 618</b>				
	A.1	Excavation	1,312	m3	\$30	\$39,353
	A.2	Granular A (150mm)	1,574	tonnes	\$25	\$39,353
	A.3	Granular B (250mm)	2,186	tonnes	\$22	\$48,098
	A.4	HL4 (50mm)	429	tonnes	\$180	\$77,131
	A.5	Shoulder widening	9,540	tonnes	\$22	\$209,880
	A.6	Line Painting (single white edge line)	17,490	m	\$5	\$87,450
	<b>B</b>	<b>Miscellaneous</b>				
	B.1	Trail Signage	1	Lump Sum	\$10,000	\$10,000
					Total	\$511,263
					<b>Total including 15% Contingency</b>	<b>\$587,953</b>
<b>PHASE 4 - Madsen to Starratt-Olsen (from 27+950 to 29+850)</b>						
<b>3</b>	<b>A</b>	<b>Widened Paved Shoulder (0.2m on each side) along Highway 618</b>				
	A.1	Excavation	314	m3	\$30	\$9,405
	A.2	Granular A (150mm)	376	tonnes	\$25	\$9,405
	A.3	Granular B (250mm)	523	tonnes	\$22	\$11,495
	A.4	HL4 (50mm)	116	tonnes	\$180	\$20,948
	A.5	Shoulder widening	2,280	tonnes	\$22	\$50,160
	A.6	Line Painting (single white edge line)	4,180	m	\$5	\$20,900
	<b>B</b>	<b>Miscellaneous</b>				
	B.1	Trail Signage	1	Lump Sum	\$10,000	\$10,000
					Total	\$132,313
					<b>Total including 15% Contingency</b>	<b>\$152,159</b>
<b>SUMMARY</b>						
		<b>Phase 1 - Red Lake to Balmertown</b>			<b>\$4,217,573</b>	
		<b>Phase 2 - Balmertown to Cochenour</b>			<b>\$2,740,326</b>	
		<b>Phase 3 - Red Lake to Madsen</b>			<b>\$587,953</b>	
		<b>Phase 4 - Madsen to Starratt-Olsen</b>			<b>\$152,159</b>	
		<b>GRAND TOTAL (includes 15% Contingency)</b>			<b>\$7,698,012</b>	

**Notes:**

1. This Class 'B' estimate is prepared after site investigations and studies have been completed and the major systems defined. It is based on the Preliminary Design Report and can be used for obtaining effective project approvals and for budgetary control.