



## BARRABA SHIRE COUNCIL FACSIMILE

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**FROM:** *Bryan Liddle*  
*Technical Services Manager*

**TO:** Department of Mineral Resources

**ATTENTION:** James Brisebois

**FAX:** (02) 9901 8468

**DATE:** 29 June 2000

**SUBJECT:** Re-alignment of Crow Mountain Road near Woodreef  
Mine, Barraba

**TO BE MAILED:** YES/NO

**No. of pages including Cover Sheet:** 3

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James,

Please find attached a copy of the estimate for the realignment of Crow Mountain Road to the south of the Woodsreef Asbestos Mine. The road designs and estimate were prepared by Local Government Engineering Services Pty Ltd of Inverell in October 1999.

Council is very supportive of the proposed realignment of Crow Mountain Road as it directs the traffic, which currently passes between the tailings dumps, along a less exposed route to the south of the mine. Such a realignment would allow the total mine area to be secured from public access and make management of any future development proposals of the mine area much easier. Any assistance that your Department may provide to have the project financed would be greatly appreciated.

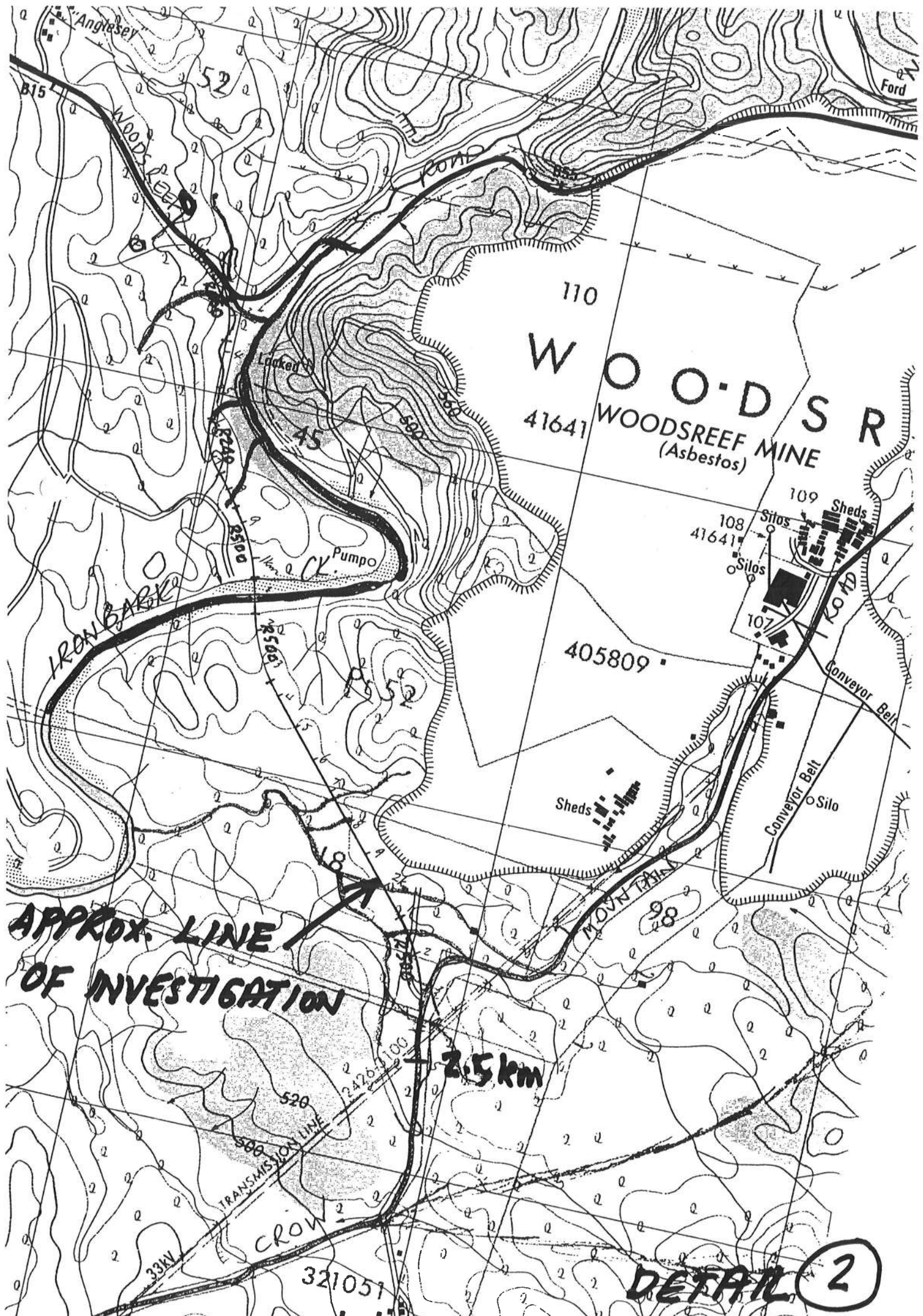
Please let me know if you have any queries regarding this project or if there is any other information you require.

Regards

Bryan Liddle  
Technical Services Manager

## Estimate - SR28, Crow Mountain Road Deviation Near Woodsreef Mine

ITEM	QUANTITY	UNITS	RATES	TOTAL (\$)	
<b>Clearing</b>					
Strip topsoil & remove trees	34070	m <sup>2</sup>	\$2.50	\$85,175.00	
<b>Drainage</b>					
<b>a) Major Box Culvert and Causeway (Ch895)</b>					
Labour	60	days	\$800.00	\$48,000.00	
Misc. Plant & Equipment	1	item	\$50,000.00	\$50,000.00	
Excavation & Backfill	1	item	\$20,000.00	\$20,000.00	
Scour Protection	1	item	\$15,000.00	\$15,000.00	
Concrete Volume - Box Culvert	190	m <sup>3</sup>	\$160.00	\$30,400.00	
Concrete Volume - Causeways 1 & 2	92.91	m <sup>3</sup>	\$160.00	\$14,865.60	
Steel Reinforcing Bars Y12	1.289	T	\$1,584.00	\$2,041.78	
Y16	3.239	T	\$1,525.00	\$4,939.48	
Steel Mesh F82	52	sheets	\$114.00	\$5,928.00	
F92	9	sheets	\$146.00	\$1,314.00	
F1018	35	sheets	\$240.00	\$8,400.00	
F1118	24	sheets	\$290.00	\$6,960.00	
F1218	14	sheets	\$375.00	\$5,250.00	
<b>b) Minor Culverts</b>					
Ch. 1460	2400x1800 RCBC	24.4	m	\$950.00	\$23,180.00
	Headwalls and base slab	1	item	\$15,000.00	\$15,000.00
Ch. 2	750mm RCP	26.84	m	\$186.00	\$4,992.24
	Headwalls	2	each	\$453.00	\$906.00
Ch. 165	600mm RCP	14.64	m	\$109.00	\$1,595.76
	Headwalls	2	each	\$295.00	\$590.00
Ch. 320	750mm RCP	21.96	m	\$186.00	\$4,084.56
	Headwalls	2	each	\$453.00	\$906.00
Ch. 520	525mm RCP	26.84	m	\$109.00	\$2,925.56
	Headwalls	2	each	\$295.00	\$590.00
Ch. 1600	375mm RCP	12.2	m	\$53.00	\$646.60
	Headwalls	2	each	\$128.50	\$257.00
Ch. 1780	750mm RCP	12.2	m	\$186.00	\$2,269.20
	Headwalls	2	each	\$453.00	\$906.00
Ch. 2015	1050mm RCP	17.08	m	\$200.00	\$3,416.00
	Headwalls	2	each	\$1,000.00	\$2,000.00
Labour	20	days	\$480.00	\$9,600.00	
Plant	1	item	\$10,000.00	\$10,000.00	
<b>Guideposts &amp; Guardrail</b>					
Guideposts	162	each	\$30.00	\$4,860.00	
Guardrail	940	m	\$120.00	\$112,800.00	
<b>Earthworks (to underside of pavement)</b>					
Cut Volume (Bank) (after stripping of topsoil)	35308	m <sup>3</sup>	\$7.00	\$247,156.00	
Fill Volume (Compacted) 50mm depth allowed	27032	m <sup>3</sup>	\$5.00	\$135,160.00	
<b>Pavement</b>					
Base (200mm, compacted volume)	3776	m <sup>3</sup>	\$35.00	\$132,160.00	
<b>Wearing Surface</b>					
2 Coat seal near intersection	385	m <sup>2</sup>	\$6.00	\$2,310.00	
<b>Erosion Control</b>					
Erosion & Sed. Control During Construction	1	item	\$15,000.00	\$15,000.00	
Length of Catch Drains	305	m	\$5.50	\$1,677.50	
Hydromulching	14845	m <sup>2</sup>	\$2.00	\$29,690.00	
<b>Signs</b>					
D4-2-A	1	each	\$150.00	\$150.00	
R1-2A	1	each	\$150.00	\$150.00	
W2-3A	1	each	\$150.00	\$150.00	
D4-6A	12	each	\$150.00	\$1,800.00	
W1-3A	3	each	\$150.00	\$450.00	
			<b>Total</b>	<b>\$1,065,652.27</b>	



**APPROX. LINE OF INVESTIGATION**

**2.5 km**

**DETAIL (2)**