<u>Earthworks</u>		(000m3)			
RMS Total Route Report	North	South	Diff	C	Chainage 7600- 20400 = 12.8 kms
Cut	1301	1247	<u>0111</u>	c	nanage 7000 20400 - 12.0 kms
Imported fill	1501	737			
Placement	1301	1984	683		
BR Bypass Calculations	North	South	Diff	c	Chainage 14500-20400 = 6 kms
Cut	245	600			0
Imported fill	115	0			
Placement	360	585	225	()	a)
May Unight of Emboulymoute on Co					
Max Height of Embankments on So RMS Report	11 metres	<u> </u>			
BR Revised design	7.5 metres				
Dr revised design	7.5 metres				
Length of Bypass (kms)	Total	Structures	Farthworks		
RMS North	5.9	0.67	5.23	F	rom RMS report
·····	0.0	5.07	5.23	·	
RMS South	5.9	1.3	4.6	F	rom RMS report
> combine drainage & rail bridges	0	0.29	-0.29		Bridges 363-(50+22)m
> island embankment	0.2	-0.44	0.64	В	Bridges 1188-(363+389)m
BR South	6.1	1.15	4.95		
Financials					
<b>F</b>		RMS Repor		BR Calc	
Earthworks	<u>North</u>	South	<u>Diff</u>	Diff	
> General Earthworks	\$31.1	\$33.7	\$2.6	\$5.1	(a) 225,000 x \$23 per m3
> Imported fill	0.0	42.6	42.6	-6.6	115,000m3 for North missed
> Stone columns	0	10.2	10.2	0	Not required now
> Select material	7.0	8.3	1.3	-0.5	No import reqd for South
> Batter stabilisation > Other	0.0 6.2	0.3 7.5	0.3 1.3	0	
> Other	\$44.3	\$102.6	\$58.3	1.0 -\$1.0	
Structures					
> Berry bridge	\$29.0	\$48.5	\$19.5	\$9.3	37% reduction in length
> Rail bridge	925.0 0	940.5 1.7	, 1.7	<i>45.5</i>	Included below
> Drainage	4.2	4.6	0.4	12.8	Reverse of Berry Bridge
> Reinforced soil walls	1.7	3.5	1.8	0	heverse of berry bridge
> Other	34.9	34.8	-0.1	0	
	\$69.8	\$93.1	\$23.3	\$22.1	
Other					
Public Utility adjustments	2.6	3.5	0.9	-0.2	North is an urban area
Community Liaison	0.2	0.2	0	-1.0	Per Fiona Court instruction
Traffic control	4.6	4.1	-0.5	-2.0	North is an urban area
Noise walls	2.5	1.0	-1.5	-3.0	North rqmt is 5x South rqmt
Local roads - pavement	1.4	0.6	-0.8	-3.0	Mullers/Croziers/Andersons/Hitchck
Local roads repairs	1.9	2.4	0.5	0	Remove WM Rd for South
PH flood immunity	0	0.5	0.5	0	Not required
Urban design	0.1	0.1	0	-2.0	North route is all urban
Landscaping	5.9	5.9	0	-2.0	South is rural
Misc - safety barriers	3.6	4.1	0.5	-0.5	Mistake in assumptions
Other temporary works	3.3	5.2 27.6	1.9 1.5	-0.2 -13.9	Percentage of total
	26.1	27.0			
All Other	26.1 81.8	78.7	-3.1	-3.1	
All Other Total Direct Costs	81.8	78.7			
All Other <b>Total Direct Costs</b> Provisional sums			-3.1 <b>\$80</b> 0	-3.1 <b>\$4</b> -9	
Total Direct Costs	81.8	78.7 <b>\$302</b>	\$80	<mark>\$4</mark>	