

ESTIMATES

OF

ENGINEER-IN-CHIEF:

AUCKLAND AND MERCER RAILWAY.

PRESENTED TO THE HOUSE OF REPRESENTATIVES, BY COMMAND OF HIS
EXCELLENCY.

WELLINGTON.

—
1872.

ESTIMATE OF AUCKLAND AND MERCER RAILWAY.

LENGTH, 41 MILES 34 CHAINS, AND 2 MILES OF SIDINGS.

Description.	Quantity.	Rate.	Amount.	Total.	Cost per Mile.
		£ s. d.	£ s. d.	£ s. d.	£
EXCAVATION,—					
Cut to bank, earth cubic yards	191,794				
„ spoil „	10,000				
Side cut „	115,668				
	317,462	0 0 10	13,227 11 8		
Loose rock,—					
Cut to bank „	27,977				
„ spoil „	538				
Side cut „	5,557				
	34,072	0 2 0	3,407 4 0		
Solid basalt „					
Side cut „	15,507				
	17,282				
	32,789	0 5 6	9,016 19 6		
Sandstone cut „					
Haulage „	13,345	0 1 9	1,167 13 9		
„ „	202,652	0 1 1	10,476 19 8		
„ „	192,278	0 0 2	1,602 6 4		
„ „	9,939	0 0 11	455 10 9		
„ „	599	0 0 7½	18 14 4		
Stream diversions not to exceed in earth „	20,000	0 1 6	1,500 0 0		
„ „ „ in rock „	5,000	0 5 6	1,375 0 0		
Ditching top and bottom of slopes „	1,622	0 15 0	1,216 10 0		
„ specified „	9,468	0 1 6	710 2 0		
Surface forming chains	844	1 0 0	844 0 0		
Trimming and forming „	3,257	0 10 0	1,628 10 0		
			46,647 2 0		
Contingencies, 12½ per cent. „			5,830 18 0	52,478 0 0	1,267
BUSHING,—					
Felling, 3 chains wide acres	99½	2 10 0	248 15 0		
Clearing, 1 chain wide „	33½	0 6 0	201 0 0		
Grubbing chains	379	1 0 0	379 0 0		
			828 15 0		
Contingencies, 12½ per cent. „			103 5 0	932 0 0	22
ROAD DIVERSIONS,—					
Making new road chains	248	6 0 0	1,488 0 0		
„ „ „ „ „	9	4 0 0	36 0 0		
Level crossing, 1st class „	22	55 5 0	1,215 10 0		
„ „ 2nd class „	5	21 17 6	109 7 6		
„ „ 3rd class „	5	7 13 6	38 7 6		
Cattle guards for above „	64	16 0 0	1,024 0 0		
Bridge at Clarkson's Road... .. „	1	...	50 0 0		
			3,961 5 0		
Contingencies „			495 15 0	4,457 0 0	108
BRIDGES AND CULVERTS,—					
Excavation in foundations cubic yards	13,384	0 3 0	2,007 12 0		
Outfalls not to exceed „	16,000	0 1 6	1,200 0 0		
Timber C.B.M.	2,419	1 15 0	4,233 5 0		
Piling linear feet	7,310	0 4 6	1,644 15 0		
Iron lbs.	28,099	0 0 6	702 9 6		
Rubble in cement cubic yards	8,428	1 15 0	14,749 0 0		
Ashlar cubic feet	91	0 2 6	11 7 6		
Coping cubic yards	27	2 10 0	67 10 0		
Brickwork in arches „	585	3 0 0	1,755 0 0		
Puddle „	903	0 5 0	225 15 0		
Punning „	41,556	0 1 6	3,116 14 0		
			29,713 8 0		
Contingencies, 12½ per cent. „			3,714 12 0	33,427 0 0	807
Fencing 10 miles on both sides chains	1,600	1 10 0	2,400 0 0		
Cattle stops number	40	16 0 0	640 0 0		
Gates pairs	80	12 0 0	960 0 0		
			4,000 0 0		
Contingencies „			500 0 0	4,500 0 0	108
Carried forward „				95,794 0 0	

ESTIMATE OF AUCKLAND AND MERCER RAILWAY.

Description.	Quantity.	Rate.	Amount.	Total.	Cost per Mile.
		£ s. d.	£ s. d.	£ s. d.	£
Brought forward ... ..	...	...	...	95,794 0 0	
PERMANENT WAY IN NEW ZEALAND,—					
Ballast cubic yards	1,467	0 3 6	256 14 6		
Laying linear yards	1,760	0 2 0	176 0 0		
Sleepers number	2,050	0 3 0	307 10 0		
Cartage, 23 miles tons	132	0 13 0	85 16 0		
Waste and loss ... ..	...	...	20 0 0		
For one mile ... ..	...	...	846 0 6 41'43		
Contingencies ... ..	...	...	35,050 16 4 4,381 3 8	39,432 0 0	952
SIDINGS,—					
Earthwork not to exceed cubic yards	10,000	0 1 6	750 0 0		
Permanent way in New Zealand miles	2	846 0 6	1,692 1 0		
Contingencies ... ..	...	...	2,442 1 0 305 19 0	2,748 0 0	66
ROLLING STOCK IN NEW ZEALAND,—					
Locomotives	3	150 0 0	450 0 0		
Waggon and carriage stock... ..	77	25 0 0	1,925 0 0		
Landing weigh bridges	3	1 10 0	4 10 0		
Contingencies ... ..	...	...	2,379 10 0 297 10 0	2,677 0 0	65
Profits ... ..	...	...	...	140,651 0 0 14,073 0 0	337
Management ... ..	...	...	...	154,724 0 0 12,000 0 0	289
Total of Messrs. Brogden's Contract...	...	...	...	166,724 0 0	

JOHN CARRUTHERS,
Engineer-in-Chief.