




8 April 2015


fyi-request-2565-6bb36d47@requests.fyi.org.nz

Dear 

Request made under the Official Information Act 1982

Thank you for your email of 10 March 2015 requesting the following information under the Official Information Act 1982:

'All advice and communications relating to the decision to upgrade these Northland bridges. I am particularly interested in learning when planning started for these bridge modifications, when the decision to proceed with the modifications was made, and any cost-benefit analysis.'

The NZ Transport Agency was not asked to provide advice to the Minister of Transport about whether to proceed with upgrading the Northland bridges but it did provide the attached information to help inform that decision. The Transport Agency was not involved in the timing of that decision.

- Email dated 5 March 2015. Subject: *Far North single lane bridges*
- Email dated 6 March 2015. Subject: *FW: Draft email to Min Office*
- Email dated 6 March 2015. Subject: *Re: High Priority Request*

Planning for the Matakohē Bridges (Hardies and Andersons) was undertaken during 2014 to enable them to be included in the Northland region's draft 2015-18 Regional Land Transport Plan. No planning for the other bridges has been undertaken by the NZ Transport Agency.

The cost benefit analysis of the Matakohē bridges (Hardies and Andersons) replacement and road realignment has undergone a preliminary benefit cost ratio assessment. The total project has an indicative benefit cost ratio of 1.4. Please refer to the attached excerpts from the document titled *SH12 Matakohē Improvements, December 2008*. No benefit cost ratios have been prepared for the other eight bridges.

Yours sincerely



Brett Gliddon
Highway Manager Auckland and Northland

Gail Wilson

From: Gail Wilson
Sent: Thursday, 5 March 2015 3:49 p.m.
To: matthew.skinner@parliament.govt.nz
Cc: Official Correspondence; Jacqui Hori-Hoult; Tim Crow; Nick Coxhill; Brett Gliddon; Andrew Martin
Subject: Far North single lane bridges

Hi Matt

My previous email went haywire. I had a whole lot of text included but for some reason it didn't show.

So use the attachments on my previous email with this text:

- 1 List of Far North District Council single lane bridge (attached to previous email). Co-ordinates are provided, but a map showing locations of only single lane bridges would take some time (days).
- 2 List of State Highway single lane bridges in the Far North District Council area (attached to previous email). (All other single lane bridges in Northland are also included for information).
- 3 A map of Northland showing all the Northland State Highway single lane bridges (attached to previous email).

In the Far North District there are 530 single lane bridges or large culverts with a total length of approximately 7,900 m. The total number of bridges and large culverts in the Far North District is 729 with a total length of approximately 9,800 m. So the single lane bridges make up 73% by number and 81% by length of all bridges in the Far North District.

The total replacement cost for these single lane bridges would be in the order of \$237 million.

For the State Highway bridges in the Far North District area only, there are 13 single lane bridges with a total length of 511 m. The total number of state highway bridges and large culverts in the Far North District area is 174 with a total length of 3,270 m. So the single lane bridges make up 7% by number and 16% by length of State Highway bridges in the Far North District area only.

The total replacement cost for these single lane bridges would be in the order of \$30 million.

For all State Highway bridges in the region (north of the Johnston's Hill Tunnels), there are 15 single lane bridges with a total length of 598 m. The total number of bridges and large culverts north of the tunnels is 383 with a total length of approximately 7,539 m. So the single lane bridges make up 4% by number and 8% by length of all State Highway bridges north of the tunnels.

The total replacement cost for these single lane bridges would be in the order of \$36 million.

For the above figures the total lengths include the road lengths of the culverts (i.e. road centreline length) rather than the length of the culvert .

You also asked questions about the Draft Northland Regional Land Transport Plan

- What projects does the "Bridge Replacements" include (page 38 of draft RLTP)? We can't answer that – would have to get the info from council.
- Are the Matakohe, Kaeo, and Taipa bridge replacements likely to make the NLTP, and are the costs in the RLTP NZTA estimates or local estimates? We can't answer that at this time. The RLTP hearings are on now. The Board will decide on the confirmed list on 30 June.

You asked for a priority list of bridge replacements. We don't have such a list as all of the state highway bridges are currently structurally sound.

Gail

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RELEASED UNDER THE
OFFICIAL INFORMATION ACT

Gail Wilson

From: Gail Wilson
Sent: Thursday, 5 March 2015 3:38 p.m.
To: matthew.skinner@parliament.govt.nz
Cc: Official Correspondence; Jacqui Hori-Hoult; Tim Crow; Nick Coxhill; Brett Gliddon; Andrew Martin
Subject: RE: Northland one-lane bridges - URGENT
Attachments: 150305 Far North District Single Lane bridges.xlsx; 150305 SH Single Lane Bridge.xlsx; Far North District and other Northland single lane bridges.jpg

RELEASED UNDER THE
OFFICIAL INFORMATION ACT

FAR NORTH DISTRICT COUNCIL BRIDGES						
Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings	
Single Lane bridges						
1	H38 ABRAHAM ROAD (3299)	25	4	6666259.934	2560154.774	
3	F03 AKATERE ROAD (3140)	11	17	6690162.636	2569008.435	
4	W61 AKERAMA ROAD (1490)	237	16	6633033.872	2617007.466	
6	E14 APUTERAWA ROAD (1499)	561	9	6684455.812	2558586.321	
9	G09 AWAROA ROAD (1513)	6538	48	6671149.935	2529952.877	
11	K01 AYRTONS ACCESS ROAD (1514)	203	9			
12	E05 BACKRIVER ROAD (1516)	2298	12	6684474.573	2557786.646	
13	E04 BACKRIVER ROAD (1516)	2599	7	6684547.888	2558035.751	
14	E11 BACKRIVER ROAD (1516)	4791	12	6685259.668	2559335.094	
15	E12 BACKRIVER ROAD (1516)	5453	8	6685665.501	2559611.33	
16	E13 BACKRIVER ROAD (1516)	6561	7	6686361.538	2560209.768	
17	E20 BACKRIVER ROAD (1516)	8134	11	6687602.952	2560016.248	
18	E21 BACKRIVER ROAD (1516)	8409	28	6687654.49	2560279.439	
20	E19 BARRIBALL ROAD (ORURU) (1523)	1104	8	6685600.241	2556042.78	
21	E72 BECKHAM ROAD (1528)	101	22	6677643.166	2548769.98	
23	E87 BLUE GORGE ROAD (3220)	1245	8	6677897.333	2552251.119	
24	B21 BONNETTS ROAD (1549)	3208	28	6676969.321	2531420.183	
25	B06 BRASS ROAD (1555)	4147				
26	H13 BROADWOOD ROAD (1560)	3374	8	6663222.26	2597178.564	
27	H14 BROADWOOD ROAD (1560)	5645	14	6659304.439	2550143.821	
28	H15 BROADWOOD ROAD (1560)	6554	9	6658747.473	2549666.711	
30	H34 BROADWOOD ROAD (1560)	10079	12	6660096.962	2547021.659	
33	B10 BROTT ROAD (1561)	1691	13	6682383.786	2533016.287	
34	P13 BROWNS ROAD (TEIRENGA) (1563)	1300	5	6638666.103	2582992.243	
35	W60 BROWNS ROAD (TOWAI) (1562)	447	10	6632365.887	2614499.354	
36	E40 BURMA ROAD (1568)	99	11	6678218.586	2553812.08	
37	W50 CALLAGHANS ROAD (1574)	79	8	6634730.162	2610126.885	
38	E31 CAMPBELL ROAD (TOATO) (1577)	826	8	6681048.232	2550486.715	
39	H07 CARMENS ROAD (1589)	49	29	6660013.391	2547030.453	
40	D17 CARR ROAD (1584)	1285	8	6665920.773	2541629.393	
41	C19 CHAMPIONS ROAD (1591)	353	28	6682583.546	2544909.668	
42	P04 CHERRINGTON ROAD (1593)	167	9	6643232.062	2596996.152	
44	C13 CHURTONS ROAD (1601)	127	23	6685342.933	2541893.511	
45	B23 CLOUGH ROAD (1607)	375	21	6676062.505	2540693.908	
46	B22 CLOUGH ROAD (1607)	1965	9	6677053.627	2539634.678	
48	H26 CRALLANS ROAD (1617)	116	25	6663199.671	2560604.053	
49	P06 CUMBER ROAD (1622)	152	16	6641835.883	2584495.228	
50	P48 CUMBER ROAD SIDE ROAD (3005)	152	8			
51	K07 CURTIS ROAD (1623)	805	5	6640130.54	2558895.963	
52	E32 DANGEN ROAD (1624)	132	36	6680086.61	2557481.126	
53	W15 DAVIS ROAD (1627)	90	9	6640805.298	2599754.664	
54	W16 DAVIS ROAD (1627)	309	6	6640707.017	2599955.587	
55	P05 DAVEY ROAD (1629)	96	5	6643242.685	2598993.593	
56	D39 DIGGERS VALLEY ROAD (1639)	306	12	6659959.02	2532172.539	
57	D38 DIGGERS VALLEY ROAD (1639)	1431	10	6660831.419	2532884.143	
58	D34 DIGGERS VALLEY ROAD (1639)	2932	8	6661782.896	2533734.417	
59	D33 DIGGERS VALLEY ROAD (1639)	3536	19	6662259.748	2534058.704	
60	D32 DIGGERS VALLEY ROAD (1639)	3979	8	6662473.929	2534390.121	
61	D30 DIGGERS VALLEY ROAD (1639)	4313	16	6662526.886	2534714.592	
62	D31 DIGGERS VALLEY ROAD (1639)	4439	17	6662566.78	2534829.6	
63	D24 DIGGERS VALLEY ROAD (1639)	6082	8	6663850.247	2535222.195	
64	D23 DIGGERS VALLEY ROAD (1639)	8663	9	6664887.183	2536432.693	
65	D22 DIGGERS VALLEY ROAD (1639)	11661	9	6667077.544	2536561.841	
66	D21 DIGGERS VALLEY ROAD (1639)	12949	12	6667684.045	2536660.154	
67	D08 DIGGERS VALLEY ROAD (1639)	16504	9	6668624.401	2539093.517	
68	D07 DIGGERS VALLEY ROAD (1639)	19967	11	6670073.35	2541235.426	
70	I46 DIP ROAD (1640)	16	11	667742.833	2581268.53	
71	A33 DOEL ROAD (WAIPAKAKAURI) (1642)	581	17	6686800.821	253727.124	
72	B38 DONALD LANE (3008)	280	32	6678054.413	2534796.416	
73	K02 DUDDY ROAD (1652)	1911	7	6638517.768	2560706.281	
75	C14 DUNCAN ROAD (KAINGAROA) (1656)	1820	9	6685253.003	2541809.968	
76	C15 DUNCAN ROAD (KAINGAROA) (1656)	4685	32	6683879.531	2543614.773	
77	C16 DUNCAN ROAD (KAINGAROA) (1656)	5763	19	6683590.676	2544525.081	
80	E70 DUNCAN ROAD (KAINGAROA) (1656)	14861	9	6685376.602	2541430.405	
81	E71 DUNCAN ROAD (KAINGAROA) (1656)	15839	27	6685882.146	2540634.862	
82	E61 DUTTON ROAD (1659)	201	10	6674548.979	2555944.236	
83	S18 EDMONDS ROAD (1666)	1173	7	6664654.187	2603134.023	
84	E80 EDWARDS ROAD (1667)	12	9	6674284.827	2550798.362	
86	E67 FAIRBURN ROAD (1676)	3280	8	6675810.371	2544545.841	
87	E66 FAIRBURN ROAD (1676)	5832	12	6676897.894	2546127.067	
88	E43 FERN FLAT ROAD (1683)	578	8	6678038.052	2558393.826	
89	E45 FERN FLAT ROAD (1683)	1275	5	6677674.088	2557922.739	
90	E46 FERN FLAT ROAD (1683)	2703	28	6676679.028	2558005.678	
91	E47 FERN FLAT ROAD (1683)	3662	9	6676179.702	2558583.384	
92	E48 FERN FLAT ROAD (1683)	4892	14	6676081.609	2559633.354	
93	E49 FERN FLAT ROAD (1683)	5847	36	6675801.859	2560348.316	
94	E50 FERN FLAT ROAD (1683)	6233	12	6675641.928	2560674.674	
95	E51 FERN FLAT ROAD (1683)	6419	12	6675704.769	2560837.864	
96	E52 FERN FLAT ROAD (1683)	7019	16	6675577.493	2561278.514	
97	E63 FISHER-RILEY ROAD (1684)	57	28	6676694.097	2544846.463	
98	E64 FISHER-RILEY ROAD (1684)	174	6	6676793.096	2544910.214	
99	B07 FORESHORE ROAD (AHIPARA) (1692)	228	36	6670067.557	2524541.849	
101	M03 FOREST ROAD (1693)	707	31	6657317.115	2573724.139	
103	B27 FRYER ROAD (1699)	211	9	6674826.704	2537656.403	

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings
105	GAMMONS ROAD (1701)	2810	13	6627350.075	2584182.745
106	GAMMONS ROAD (1701)	4308	16	6626448.987	2583562.808
107	GAMMONS ROAD (1701)	7210	3	6625551.146	2582054.971
108	GERRARD ROAD (3196)	366	11	6631483.653	2593357.572
109	GILLS ROAD (AWANUI) (1705)	1391	32	6682888.646	2533234.598
110	GOLF VIEW ROAD (1708)	315	25	6663790.888	2596817.144
111	GRAHAM ROAD (1712)	325	18	6635758.966	2573447.163
112	GROUNDS ROAD (1720)	84	24	6660402.478	2595661.15
113	GROVE ROAD (1721)	133	14	6656182.395	2562319.281
114	GUEST ROAD (1723)	91	9	6645708.508	2550374.599
117	GURR ROAD (1726)	87	10	6666751.395	2541994.855
118	GUTHRIE ROAD (1727)	610	2	6640510.022	2568699.343
119	HAILE ROAD (1729)	201	15	6634155.776	2616585.018
120	HANSEN ROAD (WAIMAMAKU) (1732)	149	6		
123	HARRISON ROAD (1739)	14	24	6650497.144	2574365.27
125	HAUMANGA ROAD (3058)	376	5	6658445.98	2536685.932
126	HAUMANGA ROAD (3058)	2289	8	6657206.787	2536954.393
127	HEATH ROAD (1751)	447	8	6691877.468	2529604.493
128	HENARE ROAD (1753)	871	10	6633915.963	2604625.736
129	HERBERT ROAD (WAIARE) (1757)	111	6	6672099.63	2582889.461
130	HICKS ROAD (1758)	794	9	6657781.561	2541247.679
131	HIHI ROAD (1759)	61	8	6688597.554	2563120.04
132	HIHI ROAD (1759)	2380	19	6690403.452	2562226.816
133	HIHI ROAD (1759)	2957	17	6690691.018	2561729.099
134	HIHI ROAD (1759)	4389	10	6691793.28	2560920.423
135	HIHI ROAD (1759)	5115	9	6691866.418	2560286.733
136	HOHAIA ROAD (3330)	54	4		
138	HONEYMOON VALLEY ROAD (1778)	3571	18	6675155.604	2555761.347
141	HOOKS AND HALLS ROAD (1788)	330	29	6627190.52	2552470.733
143	HORAHORA HEADS ROAD (1777)	1436	9	6630615.57	2608264.835
144	HORAHORA HEADS ROAD (1777)	1752	19	6630476.99	2607988.999
145	HOREKE ROAD (1785)	5406	39	6649926.153	2572105.365
148	HOREKE ROAD (1785)	15891	40	6648929.969	2563603.859
149	HUMPHREY ROAD (1776)	4	3	6655922.54	2550821.4
150	HUPARA ROAD (1775)	2066	6	6648969.632	2600472.781
151	IMMS ROAD (LAKE OMAPERE) (1794)	3707	12	6649314.137	2578336.102
152	IMMS ROAD (LAKE OMAPERE) (1794)	4044	9	6649320.328	2578016.649
153	INKSTERS ROAD (1797)	64	4	6630969.234	2609270.738
155	INKSTERS ROAD (1797)	5209	6	6627795.73	2609525.395
156	INLAND ROAD (1793)	36	12	6690694.213	2545600.241
157	IWITAU ROAD (1796)	130	46	6665648.364	2560082.237
158	IWITAU ROAD (1796)	2223	8	6666491.277	2561265.354
159	IWITAU ROAD (1796)	3026	28	6667181.098	2561457.061
160	IWITAU ROAD (1796)	3938	13	6667810.288	2561830.631
161	IWITAU ROAD (1796)	8487	12	6670788.458	2563137.444
162	IWITAU ROAD (1796)	12876	10	6673720.036	2564136.601
163	IWITAU ROAD (1796)	14710	8	6674323.961	2565049.511
164	JACENTHO ROAD (1799)	190	6	6675097.918	2551844.839
165	JACKSONS ROAD (OMAHUTA) (3379)	0	21	6636245.17	2552526.139
166	JACKSONS ROAD (3248)	130	28.6	6681000	2557000
167	JENNINGS ROAD (1806)	223	8	6667694.888	2592993.134
168	JORDAN ROAD (1812)	591	13	6641123.489	2579844.725
169	JORDAN ROAD (1812)	6356	15	6643457.357	2575837.041
171	JORDAN ROAD (1812)	9795	15	6641334.884	2573753.763
172	KAHIKATOA ROAD (1815)	1607	3	6656261.269	2560009.379
173	KAIMAUMAU ROAD (1838)	2515	8	6696460.839	2530433.148
174	KAIMAUMAU ROAD (1838)	4386	5	6696407.461	2532113.279
183	KAITAIA-AWAROA ROAD (2598)	18880	24	6663587.983	2529907.33
186	KAITAIA-AWAROA ROAD (2598)	22370	37	6660528.575	2530305.066
188	KAITAIA-AWAROA ROAD (2598)	25256	9	6659670.418	2531617.544
190	KAITAIA-AWAROA ROAD (2598)	31006	32	6658783.544	2536524.952
191	KARAKA ROAD (1828)	189	10	6656206.759	2578284.795
192	KAUHANGA ROAD (1835)	8	19	6652151.645	2531325.009
194	KENANA ROAD (1844)	226	19	6684229.619	2562574.318
200	KERIKERI INLET ROAD (1795)	3470	27	6664261.197	2600539.688
201	KERIKERI INLET ROAD (1795)	6063	8	6663431.394	2602651.065
202	KERIKERI ROAD (1853)	5363	60	6664333.061	2598457.906
203	KITCHEN ROAD (1860)	489	23	6671984.951	2549204.694
204	KNUDSENS ROAD (1863)	272	12	6631120.473	2585963.564
205	KNUDSENS ROAD (1863)	1221	12	6631036.539	2585233.012
206	KNUDSENS ROAD (1863)	1825	9	6630977.171	2584652.557
207	KOHE ROAD (1864)	827	8	6654288.244	2539158.485
208	KOHUKOHU ROAD (1867)	2980	10	6656524.564	2555566.734
213	KOHUMARU ROAD (1862)	13	17	6687566.787	2560903.652
214	KOHUMARU ROAD (1862)	2406	8	6685683.571	2561842.376
217	KOHUMARU ROAD (1862)	17766	20	6678510.275	2559116.197
218	KOHUMARU ROAD (1862)	18793	30	6678532.963	2558172.726
219	KOHUMARU ROAD (1862)	19989	31	6679355.901	2557389.82
220	KOUTU LOOP ROAD (1879)	124	8	6635042.952	2549578.88
221	KUPA ROAD (1881)	106	37	6635801.337	2601765.417
223	KUPA ROAD (1881)	1627	4	6636658.287	2602463.265
224	LAKE OHIA FLOOD BYPASS ROAD (3450)	400			
227	LAKE ROAD (OKAIHAU) (1891)	5071	16	6648812.449	2580947.843
228	LANDING ROAD (KERIKERI) (1888)	1790	36	6665072.366	2598451.487
231	LOVATT ROAD (1910)	2638	4	6624269.882	2596368.347
232	LOVATT ROAD (1910)	3219	34	6624470.885	2595953.968

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings
233	L06 MACDONNELL ROAD (1915)	151	12	6688342.074	2587608.96
234	I32 MAHINEPUA ROAD (1917)	434	10	6659347.028	2622836.985
235	X10 MANAWAORA ROAD (1924)	3418	9	6659070.654	2624642.786
236	X05 MANAWAORA ROAD (1924)	6138	16	6658816.75	2626055.539
237	X04 MANAWAORA ROAD (1924)	7835	14	6631144.999	2586242.702
240	P23 MANGAKAHIA ROAD (1925)	14487	17	6627036.026	2585980.288
242	P28 MANGAKAHIA ROAD (1925)	18851	9	6624644.413	2586446.624
243	P29 MANGAKAHIA ROAD (1925)	21461	32	6622202.982	2586906.124
245	P31 MANGAKAHIA ROAD (1925)	24240	19	6663186.988	2590584.646
247	R06 MANGAKARETU ROAD (1927)	1114	19	6662297.461	2558998.882
252	H21 MANGATAIPA ROAD (1932)	772	9	6663759.739	2557905.587
253	H22 MANGATAIPA ROAD (1932)	2874	16	6649566.761	2572263.075
254	M20 MANGATARAIRE ROAD (1933)	459	16	6648801.478	2573855.845
255	M21 MANGATARAIRE ROAD (1933)	2332	13	6633098.654	2573619.781
256	N23 MANGATAWA ROAD (1934)	590	16	6660213.153	2548633.865
257	H35 MANSBRIDGE ROAD (1940)	554	11	6660440.593	2549515.249
258	H09 MANSBRIDGE ROAD (1940)	1487	18	6662534.413	2529873.733
259	D59 MANUKAU ROAD (1941)	575	20	6632241.407	2611710.407
260	W54 MARLOW ROAD (1948)	945	19	6630366.981	2611700.86
261	W55 MARLOW ROAD (1948)	3212	19	6628828.973	2611695.507
262	W57 MARLOW ROAD (1948)	7665	12	6634996.368	2610207.285
263	W30 MAROMAKU-TOWAI ROAD (1953)	1233	16	6633063.782	2611738.31
265	W58 MAROMAKU-TOWAI ROAD (1953)	4020	13	6633029.925	2612334.57
266	W74 MAROMAKU-TOWAI ROAD (1953)	4753	16	6633368.959	2613509.951
267	W59 MAROMAKU-TOWAI ROAD (1953)	6505	10	6636070.251	2601590.367
269	W17 MARTIN ROAD (POKERE) (1958)	276	5	6655773.411	2557299.01
270	H23 MATA ROAD (1966)	9	19	6653959.108	2555454.221
271	H24 MATA ROAD (1966)	3180	9	6706331.719	2547303.761
273	C03 MATAI BAY ROAD (1968)	3574	19	6677432.135	2588240.823
275	I37 MATAURI BAY ROAD (1972)	3249	18	6681812.771	2591740.655
278	I35 MATAURI BAY ROAD (1972)	11179	4		
279	I34 MATAURI BAY ROAD (1972)	11579	13		
280	I68 MATAURI BAY CAMP ROAD	200	3		
281	I69 MATAURI BAY CAMP ROAD	500	3		
282	I33 MATAURI BEACH ROAD (1973)	2179	8	6684696.298	2594153.922
283	I39 MATAURI LINK ROAD (1974)	32	8	6675149.71	2587484.593
284	W22 MATAWAIA-MAROMAKU ROAD (1977)	891	21	6633212.183	2598192.912
286	W24 MATAWAIA-MAROMAKU ROAD (1977)	4098	23	6633292.617	2600904.393
288	W38 MATAWAIA-MAROMAKU ROAD (1977)	9488	8	6633498.019	2603404.845
289	W39 MATAWAIA-MAROMAKU ROAD (1977)	10176	16	6633172.436	2603937.604
290	W40 MATAWAIA-MAROMAKU ROAD (1977)	10750	13	6633181.198	2604504.032
291	W29 MATAWAIA-MAROMAKU ROAD (1977)	11786	21	6633141.028	2605267.247
293	W46 MATAWAIA-MAROMAKU ROAD (1977)	15422	7	6634528.009	2607024.961
294	W47 MATAWAIA-MAROMAKU ROAD (1977)	15923	24	6634990.167	2607128.067
296	W49 MATAWAIA-MAROMAKU ROAD (1977)	19160	8	6635067.002	2609669.503
298	I47 MATAWHEROHIA ROAD (1979)	17	8	6676571.093	2580651.372
299	I48 MATAWHEROHIA ROAD (1979)	7781	10	6672197.403	2580382.6
300	P42 MATENE ROAD (1981)	29	9	6636280.996	2589595.437
302	D36 McDONALD ROAD (DIGGERS VALLEY) (1989)	130	2	6660829.166	2533065.543
303	I62 MCGEE ROAD (1992)	135	2	6676094.433	2584969.235
304	I40 MCGEE ROAD (1992)	348	8	6676103.506	2585147.211
305	T22 MCINTYRES ROAD (1993)	58	14	6653042.15	2602803.804
306	E65 MEFFIN ROAD (1995)	174	27	6676772.316	2544703.949
307	E02 MILL BAY ROAD (2005)	1054	7	6689990.643	2559197.129
308	T27 MILL ROAD (2008)	1778	9	6645326.899	2606283.472
309	T46 MILL ROAD (2008)	3991	2		
310	N32 MISSION OAK ROAD (2014)	122	31	6639192.101	2566334.13
311	W67 MONUMENT ROAD (2020)	8730	20	6636573.77	2620488.861
312	W53 MORGANS ROAD (3171)	90	17	6635702.604	2619780.285
315	W70 NELSONS ROAD (2030)	11	15	6639135.798	2620538.837
317	B05 NGAKAROA ROAD (3015)	126	9	6668758.499	252603.138
325	P02 NGAWHITU ROAD (2044)	294	20	6643104.34	2596784.403
326	N26 NINHI ROAD (2046)	236	9	6636296.31	2574628.18
328	B18 OINU ROAD (2058)	475	8	6681983.555	2537328.137
329	M23 OKAKA ROAD (2062)	294	15	6651570.178	2570233.955
330	UN11 OKAKEWAI ROAD (2063)	520	2.1		
332	R19 OLD BAY ROAD (2068)	1915	11	6651771.01	2594303.658
333	R20 OLD BAY ROAD (2068)	3523	11	6652489.478	2595664.716
334	T42 OLD WHANGAE ROAD (2072)	100	24	6646275.184	2607584.976
335	T41 OLD WHANGAE ROAD (2072)	180	13	6646350.986	2607566.431
336	H25 OMAHUTA ROAD (2074)	3320	16	REFER TO REPO	REFER TO REPO
337	K06 OMANAIA ROAD (2075)	2860	8	6637373.138	2557663.058
339	K03 OMANAIA ROAD (2075)	4536	13	6638493.931	2568418.219
341	M30 OMAPERE ROAD (2077)	868	3	6644352.136	2582135.175
345	I43 OMAUNU ROAD (2078)	5731	7	6673987.438	2578145.202
346	I44 OMAUNU ROAD (2078)	8902	13	6673666.661	2575982.556
347	I45 OMAUNU ROAD (2078)	11266	12	6671816.328	2575876.392
348	R03 ONEKURA ROAD (2079)	863	6	6667882.629	2588750.227
350	W28 OPAHI STATION ROAD (2082)	321	13	6634934.417	2601415.511
351	S17 OPITO BAY ROAD (2084)	39	2	6667559.122	2602330.2
352	P43 ORAKAU ROAD (2201)	3816	7	6636184.664	2589655.942
353	P44 ORAKAU ROAD (2201)	5495	19	6635072.07	2590864.512
354	P45 ORAKAU ROAD (2201)	5923	11	6635027.867	2591292.705
355	P35 ORAKAU ROAD (2201)	7355	16	6634225.794	2592387.574
356	P36 ORAKAU ROAD (2201)	7685	16	6633985.293	2592629.919
357	P37 ORAKAU ROAD (2201)	8042	15	6633733.6	2592796.152

FAR NORTH DISTRICT COUNCIL BRIDGES						
Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings	
358	ORAKAU ROAD (2201)	8760	12	6633232.646	2593213.767	
359	ORAKAU ROAD (2201)	9396	9	6632711.76	2593040.944	
360	ORAKAU ROAD (2201)	9995	11	6632180.436	2593366.264	
361	ORAKAU ROAD (2201)	10257	8	6631933.107	2593480.07	
362	ORAKAU ROAD (2201)	15458	12	6632549.456	2597134.061	
363	ORIRA ROAD (2089)	78	16	6655695.29	2562250.975	
364	OROMAHOE ROAD (2092)	2728	11	6653204.145	2601742.042	
365	OROMAHOE ROAD (2092)	3393	16	6653226.67	2602393.319	
366	OROMAHOE ROAD (2092)	4348	6	6652868.041	2603265.992	
367	OROMANGA ROAD (2093)	525	10	6727229.673	2504672.842	
369	ORURU ROAD (2096)	2724	24	6686763.471	2553687.481	
371	ORURU ROAD (2096)	7296	37	6683464.428	25566327.118	
375	OTAENGA ROAD (2100)	290	6	6624582.545	2586180.183	
376	OTAENGA ROAD (2100)	1379	14	6623497.351	2585945.647	
377	OTANGAROA ROAD (2103)	257	26	6682097.987	2573925.222	
378	OTANGAROA ROAD (2103)	5842	15	6679373.791	2570027.924	
379	OTANGAROA ROAD (2103)	8749	44	6677167.62	25688435.747	
380	OTANGAROA ROAD (2103)	12885	5	6675358.576	2565775.049	
381	OTANGAROA ROAD (SIDE ROAD) (2105)	223	23			
382	OTATARA MARAE ROAD (2106)	450	24	6636622.94	2564989.157	
383	OTAUJA ROAD (2107)	407	20	6636509.748	2572855.481	
384	OTENGI ROAD (2108)	295	10	6645723.907	2545747.169	
385	OTENGI ROAD (2108)	953	6	6645203.936	2546045.753	
386	OTURU ROAD (2113)	702	10	6678523.483	2536476.398	
387	OWAE ROAD (2114)	2881	12	6645507.186	2615512.496	
388	OWAE ROAD (2114)	4939	12	6644745.043	2616979.124	
389	OWHATA ROAD (2115)	39	4	6656181.384	2529007.629	
390	OWHATA ROAD (2115)	1444	4	6655538.221	2528197.968	
391	PAIKA ROAD (2120)	190	13	6633007.763	2614909.266	
392	PANTHER ROAD (2128)	24	18	6672682.382	2547183.825	
394	PARAHA ROAD (2131)	34	10	6635139.012	2597651.804	
395	PARANUI ROAD (2138)	2492	18	6684704.604	2553540.435	
397	PARANUI-TOATOA ROAD (2132)	3879	12	6681446.476	2551224.665	
398	PARAPARA ROAD (2134)	1985	8	6687955.01	2549937.865	
399	PARAPARA ROAD (2134)	3021	11	6687451.811	2549177.189	
400	PARAPARA-TOATOA ROAD (2133)	3199	17	6684598.187	2549322.54	
401	PARAPARA-TOATOA ROAD (2133)	7489	14	6681307.824	2550745.53	
403	PARKERS ROAD (2137)	1242	5	6622900.682	2573853.638	
404	PARKERS ROAD (2137)	1525	3	6622877.884	2573576.585	
405	PAWARENGA ROAD (2143)	5821	20	6655304.588	2542878.571	
406	PAWARENGA ROAD (2143)	8861	10	6653760.163	2541286.522	
407	PAWARENGA ROAD (2143)	9630	24	6653190.833	2540984.99	
408	PAWARENGA ROAD (2143)	11038	46	6653566.618	2539634.2	
409	PAWARENGA ROAD (2143)	14811	39	6651853.133	2536730.137	
412	PEKERAU ROAD (2148)	2501	10	6687782.527	2544364.75	
413	PEKERAU ROAD (2148)	4298	6	6686683.445	2545513.591	
414	PEKERAU ROAD (2148)	5082	6	6685963.83	2545362.379	
415	PEKERAU ROAD (2148)	5417	6	6685652.073	2545308.192	
416	PEKERAU ROAD (2148)	5656	11	6685434.902	2545391.051	
417	PEKERAU ROAD (2148)	6043	9	6685064.482	2545432.537	
419	PERIA ROAD (2156)	929	8	6677913.201	2554228.261	
420	PERIA ROAD (2156)	1205	10	6677968.198	2553953.561	
422	PERIA ROAD (2156)	5254	16	6676879.276	2550878.071	
425	PERIA VALLEY ROAD (2157)	3299	22	6674134.419	2550675.647	
426	PERIA VALLEY ROAD (2157)	5294	9	6675386.787	2551731.423	
428	PERIA VALLEY ROAD (2157)	8840	6	6676314.555	2553870.342	
429	PERIA VALLEY ROAD (2157)	10101	9	6676894.545	2554682.006	
430	PICADILLY ROAD (2159)	4093	24	6635602.13	2582683.017	
432	PIPIWAI ROAD (2164)	1385	11	6631879.864	2599594.285	
433	PIPIWAI ROAD (2164)	3943	11	6629762.023	2598902.847	
434	PIPIWAI ROAD (2164)	7013	9	6627950.696	2597163.576	
435	PIPIWAI ROAD (2164)	8701	10	6626613.31	2597807.328	
436	PIPIWAI ROAD (2164)	10514	38	6624849.937	2597993.761	
437	PIPIWAI ROAD (2164)	12305	15	6623492.849	2599003.998	
438	POKAPU ROAD (2169)	262	16	6643711.742	2600644.787	
439	POKAPU ROAD (2169)	1009	13	6643091.127	2600295.32	
440	POKAPU ROAD (2169)	3097	22	6641281.605	2599692.955	
441	POKAPU ROAD (2169)	3559	37	6640821.356	2599666.195	
442	POKAPU ROAD (2169)	4255	19	6640337.478	2599252.979	
444	POKAPU ROAD (2169)	7193	12	6637887.118	2598136.996	
445	POKAPU ROAD (2169)	7420	10	6637681.58	2598228.975	
448	POKAPU ROAD (2169)	12536	11	6633552.266	2597362.689	
449	POWELLS ROAD (DIGGERS VALLEY) (2177)	105	19	6661233.712	2533208.888	
450	POWELLS ROAD (DIGGERS VALLEY) (2177)	1118	8	6661764.781	2532351.447	
451	PUHATA ROAD (2184)	46	9	6658343.539	2530057.738	
452	PUHATA ROAD (2184)	1042	6	6657697.185	2530461.387	
453	PUHATA ROAD (2184)	1122	8	6657615.681	2530459.07	
454	PUHITA ROAD (2186)	53	10	6631087.846	2604691.212	
455	PUKEMIRO ROAD (2188)	361	37	6659968.847	2544665.573	
458	PUKEPOTO ROAD (OKAIHAU) (2191)	315	10	6655768.591	2578019.135	
459	PUKETI ROAD (2193)	286	37	6656991.367	2576447.474	
464	PUNAKITERE LOOP ROAD (2200)	283	36	6637031.737	2574887.113	
465	PUNAKITERE LOOP ROAD (2200)	5375	31	6637556.746	2570859.772	
467	PUPUKE MANGAPA ROAD (2203)	1648	10	6677664.566	2577279.052	
468	PUPUKE MANGAPA ROAD (2203)	5823	45	6675369.118	2575268.477	
471	PUPUKE MANGAPA ROAD (2203)	9399	12	6673517.603	2573028.221	

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings
472	I20 PUPUKE MANGAPA ROAD (2203)	13508	14	6670561.582	2570989.753
473	S11 PURERUA ROAD (2205)	670	18	6667630.19	2596447.183
474	S01 PURERUA ROAD (2205)	1860	14	6668492.69	2597147.965
475	B49 PURIRI PLACE (2208)	0	18	6675616.792	2535445.35
478	B16 QUARRY ROAD (AWANUI) (2210)	5683	10	6679128.15	2537169.395
479	M12 QUARRY ROAD (KAIKOHE) (2209)	230	12	6643841.579	2584357.569
480	M18 RAHURI SETTLEMENT ROAD (2214)	39	50	6656104.639	2571092.748
481	P03 RAKAUTAO ROAD (3024)	201	12	6641696.804	2593995.715
482	N01 RAKAUWAHIA ROAD (2219)	2097	28	6639637.216	2577360.639
483	L09 RAKAUWAHIA ROAD (2219)	4806	10	6640253.011	2574760.183
485	N31 RAMSEY ROAD (2221)	1696	18	6636469.03	2569997.443
487	M19 RANGIAHUA ROAD (2225)	5543	24	6651754.952	2567099.466
488	S03 RANGIHOA ROAD (2227)	786	9	6672951.461	2606053.863
489	S04 RANGIHOA ROAD (2227)	1764	9	6672952.931	2606913.075
490	S05 RANGIHOA ROAD (2227)	2390	3	6672504.909	2607254.893
492	S08 RANGIHOA ROAD (2227)	4964	10	6670751.797	2608732.02
493	D61 RANGIKOHU ROAD (EPIKAURI ROAD) (2229)	599	28	6660576.046	2529511.369
494	W32 RATA TIPENE ROAD (2238)	133	12	6628455.788	2609503.355
495	X03 RAWHITI ROAD (NORTH) (2240)	1167	12	6659674.841	2626139.58
497	X02 RAWHITI ROAD (SOUTH) (3075)	7031	18	6659934.984	2628930.749
498	X01 RAWHITI ROAD (SOUTH) (3075)	7768	9	6653536.288	2628420.035
500	S02 REDCLIFFS ROAD (2247)	493	16	6667113.312	2598746.246
501	N24 RENWICK ROAD (2252)	1429	9	6631476.378	2573985.416
502	N38 RENWICK ROAD SIDE ROAD (2252)	2550	14	6630480.155	2573527.645
503	B31 ROMA ROAD (2265)	60	9	6688857.577	2526025.06
504	B32 ROMA ROAD (2265)	713	11	668759.075	2525459.836
505	W51 RUAPEKAPEKA ROAD (2275)	56	7	6634442.206	2613390.4
506	D02 RUAROA ROAD (2276)	1852	9	6674303.408	2541488.151
507	D05 RUAROA ROAD (2276)	6252	50	6670831.402	2542336.113
509	G12 RUNARUNA ROAD (2278)	8993	8	6648296.102	2545133.999
510	W52 RUSK ROAD (3044)	2906	9	6630035.597	2615609.546
511	W71 RUSSEK ROAD (2280)	610	1.8		
512	C22 RUSSELL ROAD (2283)	150	9	6688375.075	2544674.87
517	X12 RUSSELL-WHAKAPARA ROAD (2284)	8876	17	6655117.984	2619150.105
519	A25 SALVATION ROAD (HOUHORA) (2290)	720	8		
520	I02 SALVATION ROAD (WHANGAROA) (2289)	2668	9	6686319.045	2571778.789
521	B14 SANDHILLS ROAD (2292)	15549	12	6682216.775	2531696.66
524	I14 SCHOOL ROAD (TOTARA NORTH) (3122)	192	13	6684286.127	2575966.345
525	T28 SETTLEMENT ROAD (2304)	1500	9	6644297.369	2606564.214
528	E01 SILVER EGG ROAD (2315)	177	8	6690321.701	2559007.937
529	C07 SIMON URLICH ROAD (2316)	730	9	6701224.651	2544606.788
531	A36 SPAINS ROAD (2334)	1876	14	6684913.8	2532233.351
532	S10 STANNERS ROAD (2340)	994	10	6669010.005	2594223.248
534	N04 STEWARDS ROAD (2345)	209	23	6630508.943	2579042.314
536	F09 STONEY CREEK ROAD (2346)	5468	2	6692092.491	25655305.34
537	F10 STONEY CREEK ROAD (2346)	6860	2.1		
538	B47 STURMFEL ROAD (2349)	1491	2	6672677.342	2541284.957
539	E82 SWITZER ROAD (2353)	8	11	6676149.969	2546796.458
541	L04 TAHEKE ROAD (2359)	3968	25		
542	L05 TAHEKE ROAD (2359)	4994	14	6641497.193	2567104.652
544	J06 TAITA ROAD (2368)	1275	14	6628058.662	2554895.033
545	J16 TAITA ROAD (2368)	5525	8	6628749.052	2556422.38
546	D03 TAKAHUE ROAD (2371)	435	11	6673036.415	2543784.198
547	D04 TAKAHUE ROAD (2371)	1798	12	6671925.867	2542985.978
548	D06 TAKAHUE ROAD (2371)	3062	9	6670768.29	2542541.485
549	D12 TAKAHUE ROAD (2371)	5146	12	6668755.215	2542841.255
550	D13 TAKAHUE ROAD (2371)	5537	38	6668599.633	2542544.456
551	D14 TAKAHUE ROAD (2371)	6187	19	6668096.454	2542261.664
553	D19 TAKAHUE SADDLE ROAD (BROADWOOD) (2373)	1601	10	6661203.875	2545568.54
554	D20 TAKAHUE SADDLE ROAD (BROADWOOD) (2373)	2359	7	6661740.741	2545679.812
555	P51 TANA ROAD (2377)	218	12	6642043.616	2595801.023
556	W63 TAPUHI ROAD (2384)	612	25	6630962.57	2619776.866
557	W64 TAPUHI ROAD (2384)	2144	22	6632018.814	2619959.21
558	W65 TAPUHI ROAD (2384)	3271	10	6632849.125	2620165.596
559	W66 TAPUHI ROAD (2384)	7933	11	6635651.132	2619790.957
561	W69 TAPUHI ROAD (2384)	10042	9	6637673.605	2620586.815
562	I38 TARAIRE ROAD (2387)	2349	10	6678364.593	2586937.573
563	D60 TATANA ROAD (2392)	751	9	6662139.053	2529418.792
564	C31 TAUMATA ROAD (2394)	108	28	6687116.961	2548975.443
565	C32 TAUMATA ROAD (2394)	2286	8	6685997.878	2547344.382
566	C33 TAUMATA ROAD (2394)	3495	13	6684975.381	2547241.164
567	C34 TAUMATA ROAD (2394)	5158	13	6683546.128	2546671.853
568	F01 TAUPO BAY ROAD (2398)	2300	12	6690200.324	2568645.61
569	F02 TAUPO BAY ROAD (2398)	3626	11	6690204.822	2569722.08
570	F04 TAUPO BAY ROAD (2398)	10011	6	6690162.979	2575276.432
571	I31 TAURANGA BAY BEACH ROAD (2399)	18	16	6685753.583	2584371.997
572	I29 TAURANGA BAY ROAD (2400)	148	4	6685846.46	2584279.981
573	I30 TAURANGA BAY ROAD (2400)	1621	8	6686926.729	2583483.386
574	G25 TAUTORO ROAD (2402)	131	12	6646635.775	2545741.769
576	N03 TAWAIA ROAD (3182)	316	12		
577	E28 TAYLOR ROAD (2405)	33	10	6682616.239	2553818.87
578	E28 TAYLOR ROAD (2405)	2419	12	6680880.062	2554184.756
579	A13 TE AHU ROAD (2408)	370	10	6727186.649	2507639.053
583	A05 TE HAPUJA ROAD (2411)	2126	13	6743704.901	2497502.84
584	H43 TE HUAHUA ROAD (2413)	1382	4	6650253.691	2554634.078
585	P50 TE IRENGA ROAD (2415)	400	4	6638596.6	2581687.001

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings
586	TE KAROA ROAD (2418)	89	25	6675536.096	2560635.336
587	TE KAROA ROAD (2418)	466	8	6675194.316	2560759.004
588	TE KARUWA PARADE (2420)	622	162	6657931.654	2609066.99
589	TE MOHO ROAD (3152)	207	3	6686603.49	2549988.055
590	TE PAKI STREAM ROAD (2424)	1489	11	6743042.894	2491738.969
594	TE RORE ROAD	4900	1.8		
596	TE RORE ROAD (2430)	7710	6	6672420.08	2546600.882
597	TE TIO ROAD (2432)	1589	18	6655776.355	2562220.371
599	TIPA TIPA ROAD (2444)	7640	31	6678644.407	2569026.51
600	TIPENE ROAD (2445)	895	10	6632163.711	2604550.328
601	TIPENE ROAD (2445)	1187	9	6631888.706	2604482.282
602	TOIA ROAD (2451)	1726	12	6648155.215	2579593.448
603	TOKAWHERO ROAD (2452)	3265	16	6624436.294	2589007.134
604	TOKAWHERO ROAD (2452)	5425	9	6624257.767	2590438.834
608	TOTARA NORTH ROAD (2454)	2995	12	6684423.968	2576493.352
609	PORTERS ACCESS ROAD EXTENSION	140	16	6684113.877	2582345.73
610	TRACEY ROAD (2458)	315	8	6673462.224	2550346.357
611	TURK VALLEY ROAD (3302)	345	3		
612	UPOKORAU ROAD (2471)	279	32	6673206.2	2585864.887
613	VALENCIA LANE (2473)	354	5	6660914.492	2593382.968
614	VICTORIA VALLEY ROAD (2478)	460	46	6672648.996	2547919.894
616	WAIARE ROAD (2484)	14650	20	6663374.938	2583600.117
617	WAIARE ROAD (2484)	15569	24	6664024.012	2583591.443
618	WAIARE ROAD (2484)	25965	25	6672054.191	2582960.845
619	WAIARE ROAD (2484)	27197	48	6672520.996	2583881.673
620	WAIARE ROAD (2484)	33367	11	6675505.988	2583648.331
621	WAIARE ROAD (2484)	33491	52	6675624.277	2583616.778
622	WAIARE ROAD (2484)	34490	36	6676533.673	2583471.632
623	WAIHAPA ROAD (2486)	1637	6	6679000.194	2573230.612
624	WAIHAPA ROAD (2486)	2094	6	6678503.843	2573258.736
625	WAIKARAMU ROAD (2488)	2790	8	6651577.956	2592951.157
629	WAIKARE ROAD (2491)	5980	7	6647104.054	2615428.414
631	WAIKARE ROAD (2491)	15142	13	6649718.709	2620669.467
632	WAIKARE ROAD (2491)	17006	25	6650417.196	2622284.933
634	WAIKARE ROAD (2491)	17870	17	6651048.721	2622829.287
635	WAIKARE ROAD (2491)	18838	11	6651976.319	2622899.2
636	WAIKARE VALLEY ROAD (2485)	2240	30.0		
637	WAIKINO ROAD (2493)	50	17	6647403.341	2614612.403
638	WAIKOURA ROAD (2494)	993	3	6680413.474	2580877.356
639	WAIKUKU ROAD (2495)	2213	12	6653939.794	2588252.04
641	WAIMA VALLEY ROAD (2497)	2986	13	6636802.529	2565649.709
642	WAIMANGARO ROAD (3174)	0	8	6653549.5	2611242.9
644	WAIMATE NORTH ROAD (2500)	5051	8		
645	WAIMATE NORTH ROAD (2500)	7518	35	6655653.291	2592850.547
646	WAIMATE NORTH ROAD (2500)	9999	6	6654434.392	2592308.086
649	WAIMATENUI / MATARAU ROAD (2600)	5470	33	6636209.138	2581709.952
651	WAIMATENUI / MATARAU ROAD (2600)	7110	8	6634808.753	2581168.663
654	WAIMATENUI / MATARAU ROAD (2600)	11713	6	6631088.41	2579689.542
655	WAIMATENUI / MATARAU ROAD (2600)	13552	8	6629639.005	2579404.655
656	WAIMATENUI / MATARAU ROAD (2600)	14658	9	6628833.498	2579053.245
657	WAIMATENUI / MATARAU ROAD (2600)	15617	19	6628239.158	2578366.392
658	WAIMATENUI / MATARAU ROAD (2600)	16735	73	6627427.218	2577820.033
659	WAIMATENUI / MATARAU ROAD (2600)	16978	48	6627308.974	2577624.537
660	WAIMATENUI / MATARAU ROAD (2600)	18514	16	6626350.077	2576963.657
661	WAIMATENUI / MATARAU ROAD (2600)	24864	13	6622560.909	2575201.597
663	WAINUI ROAD (2503)	4095	5	6683142.339	2582517.836
664	WAINUI ROAD (2503)	5000	22	6683836.76	2583066.117
665	WAINUI ROAD (2503)	8339	22	6685548.413	2585070.888
666	WAINUI ROAD (2503)	13087	10	6687957.573	2587239.54
667	WAINUI VALLEY ROAD (2504)	230	4	6686707.029	2588880.808
668	WAINUI-MATAURI BAY ROAD (2505)	28	10	6686927.073	2588909.078
669	WAINUI-MATAURI BAY ROAD (2505)	2066	8	6686058.047	2590192.495
670	WAIOTEHUE ROAD (2509)	304	12	6666716.535	2541789.729
671	WAIOTEHUE ROAD (2509)	6383	25	6664719.505	2538997.414
672	WAIOTEHUE ROAD (2509)	9982	9	6663146.018	2538159.425
673	WAIOTEHUE ROAD (2509)	11587	25	6662218.463	2538848.773
675	WAIOTEMARAMA GORGE ROAD (2510)	1058	14	6633232.197	2548946.132
676	WAIOTEMARAMA GORGE ROAD (2510)	1331	9	6633076.549	2549154.175
677	WAIOTEMARAMA GORGE ROAD (2510)	2126	12	6632500.065	2549508.687
678	WAIOTEMARAMA GORGE ROAD (2510)	6406	14	6629755.472	2550382.423
681	WAITAPU CREEK ROAD (3340)	42	12		
684	WAKELIN ROAD (2520)	3921	3	6657335.394	2601777.01
685	WALLACE ROAD (VIC VALLEY) (2602)	37	8	6675129.7	2548041.75
686	WALLIS ROAD (2524)	896	12	6645942.516	2585315.515
688	WEBER WAIHAPA ROAD (2532)	1666	4	6680625.782	2573521.364
689	WEBER WAIHAPA ROAD (2532)	1995	2	6680472.742	2573800.872
690	WEBER WAIHAPA ROAD (2532)	5350	2.0		
691	WEKAWEKA ROAD (2535)	972	55	6626465.772	2555624.182
692	WEKAWEKA ROAD (2535)	2078	6	6626451.54	2556668.181
694	WEKAWEKA ROAD (2535)	4034	13	6625408.098	2557860.797
695	WEKAWEKA ROAD (2535)	7125	4	6625554.815	2560307.281
696	WEKAWEKA ROAD (2535)	7139	12	6625552.864	2560320.722
697	WEKAWEKA ROAD (2535)	9130	10	6625202.691	2562094.527
699	WEKAWEKA ROAD (2535)	14439	8	6625753.117	2565186.839
703	WEST COAST ROAD (KOHUKOHU) (2543)	12258	58	6648673.495	2550929.204
706	WEST COAST ROAD (KOHUKOHU) (2543)	21552	13	6646871.979	2545573.32

FAR NORTH DISTRICT COUNCIL BRIDGES						
Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastng	
707	G01 WEST COAST ROAD (KOHUKOHU) (2543)	25150	37	6643712.616	2545498.496	
708	G03 WEST COAST ROAD (KOHUKOHU) (2543)	28637	11	6642661.812	2543737.332	
709	G04 WEST COAST ROAD (KOHUKOHU) (2543)	29764	11	6641770.265	2543155.507	
712	G05 WEST COAST ROAD (KOHUKOHU) (2543)	38534	18	6640497.137	2536672.924	
713	A27 WHALERS ROAD (2553)	679	14	6706907.15	2522812.502	
714	T24 WHANGAE ROAD (2554)	3238	18	6649159.884	2606800.978	
715	T12 WHANGAE ROAD (2554)	5253	5	6650864.808	2605879.736	
716	D62 WHANGAPE ROAD (2555)	3254	9	6656814.96	2529607.59	
717	D63 WHANGAPE ROAD (2555)	3379	8	6656700.322	2529628.054	
721	N11 WHAREPUNGA ROAD (2563)	249	22	6630842.832	2579267.37	
722	N22 WHAREPUNGA ROAD (2563)	829	16	6631061.584	2578722.784	
723	K04 WIKAIRAS ROAD (2606)	249	22	6636302.162	2552862.956	
724	F11 WINDUST ROAD (2582)	247	10	6687655.471	2565857.978	
727	R14 WIROA ROAD (2586)	7847	8	6658293.686	2588639.327	
728	B35 WRECK BAY ROAD (2589)	532	9	6669116.615	2521795.294	
729	C35 ZIDICH ROAD	10	1.8			

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STATE HIGHWAY SINGLE LANE BRIDGES IN NORTHLAND & AUCKLAND NORTH

Far North District				
1N	0/8.87	89	Te Werahi Stream Bridge	9.14
1N	0/16.62	166	Waitiki Stream Bridge	25.1
1N	20/15.74	357	Mitimiti Stream Bridge No 176	13.1
1N	20/21.57	416	Te Kao Stream Bridge No 178	22.2
1N	44/9.69	536	Reids Bridge No 184 (Te Awhia Stream)	10.9
1N	149/14.79	1638	Waihou River (Rangiahua) Bridge No 50	61
10	33/11.79	448	Kaeo River Bridge No 665	49.2
10	79/3.59	826	Taipa Bridge No 272	106.7
11	0/3.09	31	Tirohanga Stream Bridge	29.9
12	17/11.85	289	Taheke Bridge No 569	64
12	74/1.22	752	Waimamaku River (Loves) Bridge No 598	47.2
12	74/3.38	774	Waimamaku River (Hallahans) Bridge No 600	55.3
12	89/3.98	930	Darby & Joan Kauri Bridge	17.3
				511.04
Kaipara District				
12	185/12.12	1971	Andersons Bridge No 148	24.7
12	185/13.37	1984	Matakohe River (Hardies) Bridge No 149	61.7
				86.4

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OFFICIAL INFORMATION ACT

Parengaranga Canyon

Cavalli Canyons

Knights Terrace

Hauraki Canyons

Barrie

Whangarei

Google

Imagery Date: 4/10/2013 59 H 763878.83 m E 6084702.28 m S elev 193 m eye alt

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To Whangarei from Whangarei

Whangarei Harbour (Whangarei) Whangarei 1000m

Whangarei Harbour (Whangarei) Whangarei 1000m

Whangarei Harbour (Whangarei) Whangarei 1000m

Whangarei Harbour (Whangarei) Whangarei 1000m

Whangarei Harbour (Whangarei) Whangarei 1000m

Whangarei Harbour (Whangarei) Whangarei 1000m

Whangarei Harbour (Whangarei) Whangarei 1000m

Gail Wilson

From: Gail Wilson
Sent: Friday, 6 March 2015 3:57 p.m.
To: matthew.skinner@parliament.govt.nz
Cc: Ernst Zollner; Brett Gliddon; Official Correspondence; Andrew Martin; Chris Gasson; Martin Taylor; Paul Glucina; Tim Crow; Jim Sephton; Jacqui Hori-Hoult; Nick Coxhill
Subject: FW: Draft email to Min Office
Attachments: SH bridge replacement costs.xlsx; SH bridge map.jpg; FNDC bridge replacement costs.xlsx

Hi Matt

Here's the info requested on bridge replacement costs. Please note the following:

Local road bridges

- Your office has asked information on bridges on local roads which are not controlled by the Transport Agency. The information we are providing you has been given to us by the council's consultants. We cannot confirm the accuracy of it.
- The Old Tokatoka bridge upgrade project is actually a Whangarei District Council bridge project. This bridge is not being replaced to two lanes, but simply upgraded to maintain current level of service. It is located off Waiotira Rd, 30km southwest of Whangarei. The RLTP includes \$457,000 for an upgrade in 2016/17.
- The Thompson Road bridge upgrade project is also a Whangarei District Council bridge project. This bridge is not being replaced to two lanes, but simply upgraded to maintain current level of service. It is located off Mangapai Rd, 20km southwest of Whangarei. The RLTP includes \$400,000 for an upgrade in 2015/16.

You asked the following: *Could you also find out everything you can on the FNDC Bridge Replacements 2015–18, and the WDC HPMV Bridge Upgrades, and send this through as soon as you can.* Our response is as follows:

With the increasing demands from various industries and heavier vehicles, a robust programme of bridge replacements and upgrades is essential. Upgrades are required for several weight restricted bridges on forestry routes where current posted restrictions restrict the access by logging associate activities.

A programme of approx. 3 bridges per year is to be developed/confirmed.

FNDC Bridge Replacements 2015–18

The RLTP includes \$2 million in year two and three combined for bridge upgrades in FNDC. Year one is to develop the programme.

WDC HPMV Bridge Upgrades

The Mangakahia route is operational currently as 50MAX (HPMV). Whangarei District Council has requested funding to upgrade the bridges on this route to full HPMV.

The NZTA's matrix shows this as a route not suitable for full HPMV due to soils and pavement cracking. The project is not likely to be funded until 2018/21 when the pavement issues are resolved.

No impact on freight.

State highway bridges

- The attached table shows the estimated costs of bridge replacements only, assuming replacing a single-lane bridge with a two-lane structure. It does not include any additional civil works associated with realignments on existing state highways.
- Please also treat all 'cost estimates' with some care; for example, cost estimates that relate to bridge replacements are just that – no detailed investigation or design has been undertaken.
- The cost estimates are based on standard unit rates.
- The upper range shown in the attached table represents a contingency allowance.

- There is a difference in costs for the Matakohe bridge between the attached table and the information provided to your office with details of RLTP projects. The attached table is the cost to replace the bridge in its current location only. The cost shown in the RLTP is to construct a new bridge in a different location and associated road realignment works.
- Kaeo River and Taipa Bridge bridges: the costs in the attached table and those provided in the information on the RLTP projects represent a bridge replacement only. No work has been undertaken on any road realignment work.
- The single lane Darby and Joan bridge goes between two kauri trees in the Waipoua Kauri forest to protect the roots of those two trees, and cannot and should not be widened.

Gail Wilson / Senior Adviser Official Information
Official Correspondence Unit

DDI 64 4 894 6283

E gail.wilson@nzta.govt.nz / www.nzta.govt.nz

National Office / Victoria Arcade, 50 Victoria Street,
Private Bag 6995, Wellington 6141, New Zealand

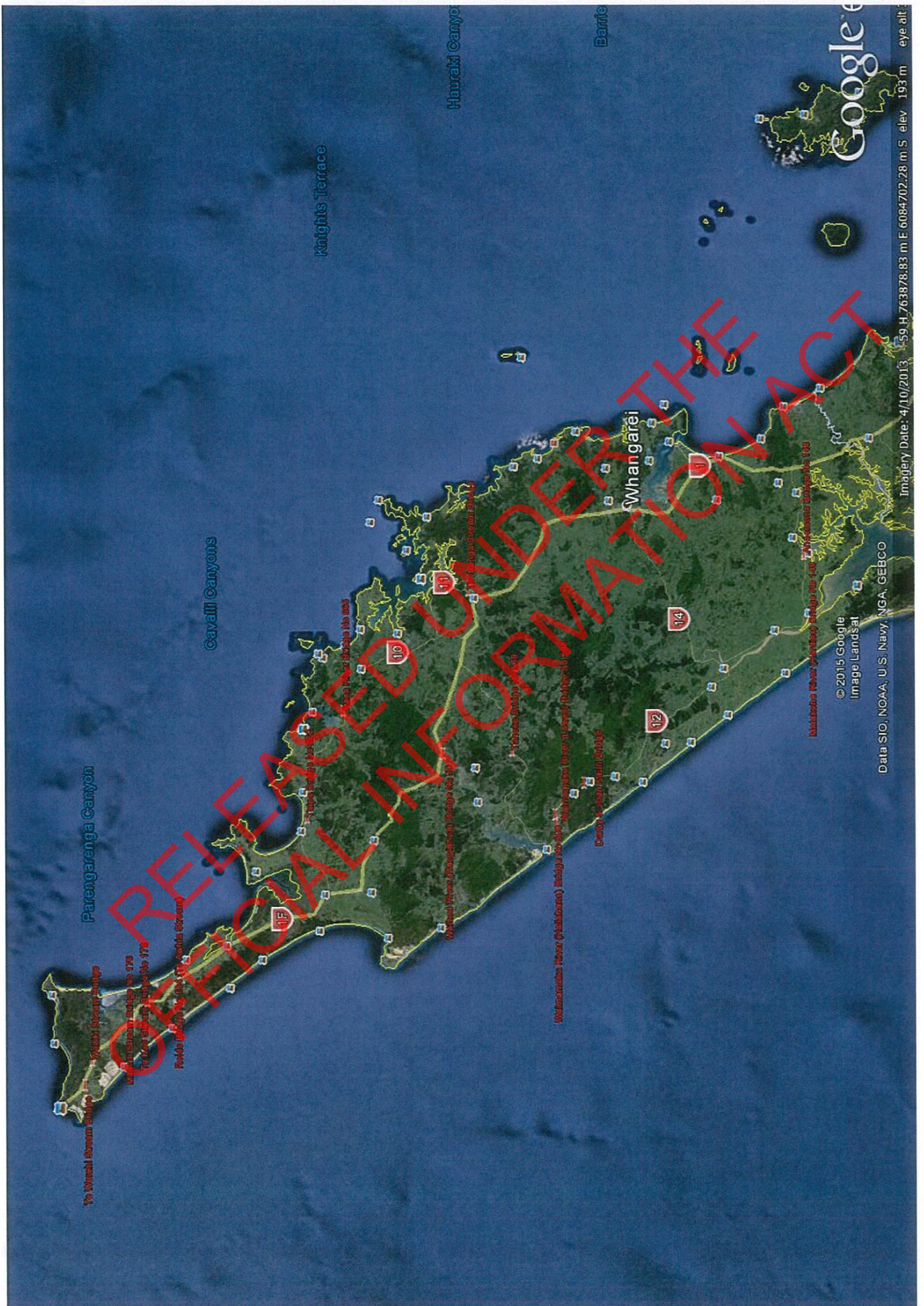


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STATE HIGHWAY SINGLE LANE BRIDGES IN NORTHLAND & AUCKLAND NORTH

SH	RP	BSN	Name	Length	Approx cost to replace	Upper estimate
Far North District						
1N	0/8.87	89	Te Werahi Stream Bridge	9.14	\$70,000	\$ 200,000
1N	0/16.62	166	Waitiki Stream Bridge	25.1	\$1,500,000	\$ 3,300,000
1N	20/15.74	357	Mitimiti Stream Bridge No 176	13.1	\$1,000,000	\$ 2,200,000
1N	20/21.57	416	Te Kao Stream Bridge No 178	22.2	\$1,600,000	\$ 3,500,000
1N	44/9.69	536	Reids Bridge No 184 (Te Awhia Stream)	10.9	\$600,000	\$ 1,300,000
1N	149/14.79	1638	Waihou River (Rangiahua) Bridge No 50	61	\$4,000,000	\$ 8,600,000
10	33/11.79	448	Kaeo River Bridge No 665	49.2	\$3,200,000	\$ 6,900,000
10	79/3.59	826	Taipa Bridge No 272	106.7	\$6,000,000	\$ 12,900,000
11	0/3.09	31	Tirohanga Stream Bridge	29.9	\$2,100,000	\$ 4,600,000
12	17/11.85	289	Taheke Bridge No 569	64	\$4,200,000	\$ 9,100,000
12	74/1.22	752	Waimamaku River (Lowes) Bridge No 598	47.2	\$3,100,000	\$ 6,700,000
12	74/3.38	774	Waimamaku River (Hallahans) Bridge No 600	55.3	\$3,600,000	\$ 7,800,000
12	89/3.98	930	Darby & Joan Kauri Bridge	17.3	NA	
				511.04		
Kaipara District						
12	185/12.12	1971	Andersons Bridge No 148	24.7	\$1,800,000	\$ 3,900,000
12	185/13.37	1984	Matakohe River (Hardies) Bridge No 149	61.7	\$3,900,000	\$ 8,400,000
				86.4		
			TOTAL		\$36,670,000	\$ 79,400,000

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Parangarenga Canyon

Cavalli Canyons

Knights Terrace

Hauraki Canyons

Barrie

Whangarei

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Image Landsat

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

Imagery Date: 4/10/2013 59. H. 763878.83 m E 6084702.28 m S elev 193 m eye alt

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FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings	Approx cost to replace	Upper Limit Estimate
Single Lane bridges							
1	H38 ABRAHAM ROAD (3299)	25	4	666259.934	2560154.774	\$126,000	\$ 200,000
2	F03 AKATERE ROAD (3140)	11	17	6690162.636	2569008.435	\$510,000	\$ 600,000
3	W61 AKERAMA ROAD (1490)	237	16	6633033.872	2617007.466	\$480,000	\$ 600,000
4	E14 APUTEREA ROAD (1499)	561	9	6684455.812	2588586.321	\$270,000	\$ 400,000
5	G09 AWAROA ROAD (1513)	6538	48	6671149.935	2529952.877	\$1,440,000	\$ 1,700,000
6	K01 AYRTONS ACCESS ROAD (1514)	203	9	6684474.573	2557786.646	\$270,000	\$ 400,000
7	E05 BACKRIVER ROAD (1516)	2298	12	6684547.888	2558035.751	\$360,000	\$ 500,000
8	E04 BACKRIVER ROAD (1516)	2599	7	6685259.668	2559335.094	\$220,500	\$ 300,000
9	E11 BACKRIVER ROAD (1516)	4791	12	6685665.501	2559611.33	\$360,000	\$ 500,000
10	E12 BACKRIVER ROAD (1516)	5453	8	6686361.538	2560209.768	\$240,000	\$ 300,000
11	E13 BACKRIVER ROAD (1516)	6561	7	6687602.952	2560016.248	\$220,500	\$ 300,000
12	E20 BACKRIVER ROAD (1516)	8134	11	6687654.49	2560279.439	\$330,000	\$ 400,000
13	E21 BACKRIVER ROAD (1516)	8409	28	6687643.166	2548769.98	\$840,000	\$ 1,000,000
14	E19 BARRIBALL ROAD (ORURU) (1523)	1104	8	6677897.333	2552251.119	\$240,000	\$ 300,000
15	E72 BECKHAM ROAD (1528)	1245	8	6677897.333	2552251.119	\$240,000	\$ 300,000
16	E87 BLUE GORGE ROAD (3220)	3208	28	6676989.321	2531420.183	\$840,000	\$ 1,000,000
17	B21 BONNETTS ROAD (1549)	4147	2	6663222.26	2597178.564	\$63,000	\$ 100,000
18	B06 BRASS ROAD (1555)	3374	8	6659304.439	2550143.821	\$240,000	\$ 300,000
19	H13 BROADWOOD ROAD (1560)	5645	14	6658747.473	2549866.711	\$420,000	\$ 500,000
20	H14 BROADWOOD ROAD (1560)	6554	9	6660096.982	2547021.659	\$270,000	\$ 400,000
21	H15 BROADWOOD ROAD (1560)	10079	12	6662383.786	2533016.287	\$360,000	\$ 500,000
22	H34 BROADWOOD ROAD (1560)	1691	13	6663666.103	2582992.243	\$390,000	\$ 500,000
23	B10 BROTT ROAD (1561)	1300	5	6632385.887	2614499.354	\$157,500	\$ 200,000
24	P13 BROWNS ROAD (TE IRENGA) (1563)	447	10	6678218.586	2553812.08	\$300,000	\$ 400,000
25	W60 BROWNS ROAD (TOWAI) (1562)	99	11	6634730.162	2610126.885	\$330,000	\$ 400,000
26	E40 BURMA ROAD (1568)	79	8	6681048.232	2550486.715	\$240,000	\$ 300,000
27	W50 CALLAGHANS ROAD (1574)	826	8	6680013.391	2547030.453	\$870,000	\$ 1,100,000
28	E31 CAMPBELL ROAD (TOATOA) (1577)	49	29	6665920.773	2541629.393	\$240,000	\$ 300,000
29	H07 CARMENS ROAD (1583)	1285	8	6662583.546	2544909.668	\$240,000	\$ 300,000
30	D17 CARR ROAD (1584)	353	28	6662583.546	2544909.668	\$840,000	\$ 1,000,000
31	C19 CHAMPIONS ROAD (1591)	167	9	6643232.062	2596996.152	\$270,000	\$ 400,000
32	P04 CHERINGTON ROAD (1593)	127	23	6685342.933	2541893.511	\$690,000	\$ 900,000
33	C13 CHURTONS ROAD (1601)	375	21	667053.627	2539634.678	\$630,000	\$ 800,000
34	B23 CLOUGH ROAD (1607)	1965	9	6663199.671	2560604.053	\$270,000	\$ 400,000
35	B22 CLOUGH ROAD (1607)	116	25	6641835.883	2584495.228	\$750,000	\$ 900,000
36	H26 CRALAINS ROAD (1617)	152	16	6640130.54	2558895.953	\$480,000	\$ 600,000
37	P06 CUMBER ROAD (1622)	152	8	6640130.54	2558895.953	\$240,000	\$ 300,000
38	P48 CUMBER ROAD SIDE ROAD (3005)	805	5	6680086.61	2557481.126	\$157,500	\$ 200,000
39	K07 CURTIS ROAD (1623)	132	36	6640805.298	2599754.684	\$1,080,000	\$ 1,300,000
40	E32 DANGEN ROAD (1624)	90	9	6640707.017	2599955.587	\$270,000	\$ 400,000
41	W15 DAVIS ROAD (1627)	309	6	6643242.685	2598993.593	\$189,000	\$ 300,000
42	W16 DAVIS ROAD (1627)	96	5	6659959.02	2532172.539	\$157,500	\$ 200,000
43	P05 DAVEY ROAD (1629)	306	12	6660831.419	2532884.143	\$360,000	\$ 500,000
44	D39 DIGGERS VALLEY ROAD (1639)	1431	10	6661782.898	2533734.417	\$300,000	\$ 400,000
45	D38 DIGGERS VALLEY ROAD (1639)	2932	8	6662473.929	2534058.704	\$240,000	\$ 300,000
46	D34 DIGGERS VALLEY ROAD (1639)	3536	19	6662529.748	2534058.704	\$240,000	\$ 300,000
47	D33 DIGGERS VALLEY ROAD (1639)	3979	8	6662529.748	2534058.704	\$240,000	\$ 300,000
48	D32 DIGGERS VALLEY ROAD (1639)	4313	16	6662529.748	2534058.704	\$480,000	\$ 600,000
49	D30 DIGGERS VALLEY ROAD (1639)	4439	17	6662529.748	2534058.704	\$510,000	\$ 600,000
50	D31 DIGGERS VALLEY ROAD (1639)	6082	8	6663502.47	2535222.195	\$240,000	\$ 300,000
51	D24 DIGGERS VALLEY ROAD (1639)	8663	9	6664687.183	2536432.693	\$270,000	\$ 400,000
52	D23 DIGGERS VALLEY ROAD (1639)	11661	9	6667077.544	2536561.841	\$270,000	\$ 400,000
53	D22 DIGGERS VALLEY ROAD (1639)	12949	12	6667684.045	2536660.154	\$360,000	\$ 500,000
54	D21 DIGGERS VALLEY ROAD (1639)	16504	9	6668624.401	2539093.517	\$270,000	\$ 400,000
55	D08 DIGGERS VALLEY ROAD (1639)	19967	11	6670073.35	2541235.426	\$330,000	\$ 400,000
56	D07 DIGGERS VALLEY ROAD (1639)	16	11	6677742.833	2581268.53	\$330,000	\$ 400,000
57	I46 DIP ROAD (1640)	581	17	6666900.821	2532727.124	\$510,000	\$ 600,000
58	A33 DOEL ROAD (WAIPAKAURI) (1642)	280	32	6678054.413	2534796.416	\$960,000	\$ 1,200,000
59	B38 DONALD LANE (3009)	1911	7	6638517.768	2560706.281	\$220,500	\$ 300,000
60	K02 DUDDY ROAD (1652)	1520	9	6665253.003	2541809.968	\$270,000	\$ 400,000
61	C14 DUNCAN ROAD (KAINGAROA) (1656)	4685	32	6665253.003	2541809.968	\$960,000	\$ 1,200,000
62	C15 DUNCAN ROAD (KAINGAROA) (1656)	5763	19	6683590.876	2544625.081	\$570,000	\$ 700,000
63	C16 DUNCAN ROAD (KAINGAROA) (1656)	14861	9	6685376.602	2541430.405	\$270,000	\$ 400,000
64	E70 DUNCAN ROAD (KAINGAROA) (1656)	15839	27	6685882.146	2540634.862	\$810,000	\$ 1,000,000
65	E71 DUNCAN ROAD (KAINGAROA) (1656)	201	10	6674548.979	2555944.236	\$300,000	\$ 400,000
66	E61 DUTTON ROAD (1659)	1173	7	6664654.187	2603134.023	\$220,500	\$ 300,000
67	S18 EDMONDS ROAD (1666)	12	9	6674284.827	2550798.362	\$240,000	\$ 300,000
68	E80 EDWARDS ROAD (1667)	5832	8	6675810.371	2544545.841	\$240,000	\$ 300,000
69	E67 FAIRBURN ROAD (1676)	578	8	6676897.894	2546127.067	\$360,000	\$ 500,000
70	E66 FAIRBURN ROAD (1676)	1275	5	6678038.052	2588993.826	\$240,000	\$ 300,000
71	E43 FERN FLAT ROAD (1683)	2703	28	6676774.088	2557922.739	\$157,500	\$ 200,000
72	E45 FERN FLAT ROAD (1683)	3562	9	6676679.028	2558005.678	\$840,000	\$ 1,000,000
73	E46 FERN FLAT ROAD (1683)	4892	14	6676179.702	2558583.384	\$270,000	\$ 400,000
74	E47 FERN FLAT ROAD (1683)	5647	36	6676081.609	2559633.354	\$420,000	\$ 500,000
75	E48 FERN FLAT ROAD (1683)	6233	12	6675641.928	2560348.316	\$1,080,000	\$ 1,300,000
76	E49 FERN FLAT ROAD (1683)	6419	12	6675704.769	2560874.674	\$360,000	\$ 500,000
77	E50 FERN FLAT ROAD (1683)	7019	16	6675577.493	2561278.514	\$360,000	\$ 500,000
78	E51 FERN FLAT ROAD (1683)	57	28	6676694.097	2544846.463	\$480,000	\$ 600,000
79	E52 FERN FLAT ROAD (1683)	174	6	6676793.096	2544910.214	\$840,000	\$ 1,000,000
80	E63 FISHER-RILEY ROAD (1684)	228	36	6670067.557	2524541.849	\$189,000	\$ 300,000
81	E64 FISHER-RILEY ROAD (1684)	707	31	6657317.115	2573724.139	\$930,000	\$ 1,100,000
82	B07 FORESHORE ROAD (AHIPIARA) (1692)	211	9	6674828.704	2537656.403	\$270,000	\$ 400,000
83	M03 FOREST ROAD (1693)	2810	13	6627350.075	2584182.745	\$390,000	\$ 500,000
84	B27 FRYER ROAD (1699)	4308	16	6626448.987	2683562.808	\$480,000	\$ 600,000
85	P25 GAMMONS ROAD (1701)	7210	3	6625551.146	2582054.971	\$94,500	\$ 200,000
86	P26 GAMMONS ROAD (1701)	366	11	6631483.653	2593577.572	\$330,000	\$ 400,000
87	P27 GAMMONS ROAD (1701)	1391	32	6682888.646	2533234.598	\$960,000	\$ 1,200,000
88	P52 GERRARD ROAD (3196)	315	25	6663790.888	2596817.144	\$750,000	\$ 900,000
89	B11 GILLS ROAD (AWANUI) (1705)	325	18	6635768.966	2573447.163	\$540,000	\$ 700,000
90	S19 GOLF VIEW ROAD (1708)	84	24	6660402.478	2595661.15	\$720,000	\$ 900,000
91	N35 GRAHAM ROAD (1712)	133	14	6656182.395	2562319.281	\$420,000	\$ 500,000
92	H06 GROVE ROAD (1720)	91	9	6645708.508	2550374.599	\$270,000	\$ 400,000
93	M28 GROVE ROAD (1721)	87	10	6666751.395	2541994.855	\$300,000	\$ 400,000
94	G10 GUEST ROAD (1723)	610	2	6640510.022	2566899.343	\$63,000	\$ 100,000
95	D27 GURR ROAD (1726)	201	15	6634155.776	2616585.018	\$450,000	\$ 600,000
96	L14 GUTHRIE ROAD (1727)	149	6	6650497.144	2574365.27	\$189,000	\$ 300,000
97	W62 HAILE ROAD (1729)	14	24	6658445.98	2536685.932	\$720,000	\$ 900,000
98	J07 HANSEN ROAD (WAIMAMAKU) (1732)	376	5	6657206.787	2536954.393	\$157,500	\$ 200,000
99	M25 HARRISON ROAD (1739)	2289	8	6691877.468	2529604.493	\$240,000	\$ 300,000
100	D48 HAUMANGA ROAD (3058)	447	8	6633915.963	2604625.736	\$300,000	\$ 400,000
101	D49 HAUMANGA ROAD (3058)	871	10	6672099.63	2582889.461	\$300,000	\$ 400,000
102	A31 HEATH ROAD (1751)	111	6	6657781.561	2541247.679	\$189,000	\$ 300,000
103	W41 HENARE ROAD (1753)	794	9			\$270,000	\$ 400,000
104	R27 HERBERT ROAD (WAIARE) (1757)						
105	G31 HICKS ROAD (1758)						

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings	Approx cost to replace	Upper Limit Estimate
106	HIHI ROAD (1759)	61	8	6688597.554	2563120.04	\$240,000	\$ 300,000
107	HIHI ROAD (1759)	2380	19	6690403.452	2562226.816	\$570,000	\$ 700,000
108	HIHI ROAD (1759)	2957	17	6690691.018	2561729.089	\$510,000	\$ 600,000
109	HIHI ROAD (1759)	4389	10	6691793.28	2560920.423	\$300,000	\$ 400,000
110	HIHI ROAD (1759)	5115	9	6691866.418	2560286.733	\$270,000	\$ 400,000
111	HOHAIA ROAD (3330)	54	4			\$126,000	\$ 200,000
112	HONEYMOON VALLEY ROAD (1778)	3571	18	6675155.604	2555761.347	\$540,000	\$ 700,000
113	HOOKS AND HALLS ROAD (1788)	330	29	6627190.52	2552470.733	\$870,000	\$ 1,100,000
114	HORAHORA HEADS ROAD (1777)	1436	9	6630615.57	2608264.835	\$270,000	\$ 400,000
115	HORAHORA HEADS ROAD (1777)	1752	39	6630476.99	2607988.999	\$570,000	\$ 700,000
116	HOREKE ROAD (1785)	5406	39	6649926.153	2572105.365	\$1,170,000	\$ 1,400,000
117	HOREKE ROAD (1785)	15891	40	6648929.969	2563603.859	\$1,200,000	\$ 1,500,000
118	HUMPHREY ROAD (1776)	4	3	6655922.54	2550821.4	\$94,500	\$ 200,000
119	HUPARA ROAD (1775)	2086	6	6648969.632	2600472.781	\$189,000	\$ 300,000
120	IMMS ROAD (LAKE OMAPERU) (1794)	3707	12	6649314.137	2578336.102	\$360,000	\$ 500,000
121	IMMS ROAD (LAKE OMAPERU) (1794)	4044	9	6649320.328	2578016.649	\$270,000	\$ 400,000
122	INKSTERS ROAD (1797)	64	4	6630989.234	2609270.738	\$126,000	\$ 200,000
123	INKSTERS ROAD (1797)	5209	6	6627795.73	2609525.395	\$189,000	\$ 300,000
124	INLAND ROAD (1793)	36	12	6690694.213	2545680.241	\$360,000	\$ 500,000
125	IWITAU ROAD (1796)	130	46	6656648.364	2560082.237	\$1,380,000	\$ 1,700,000
126	IWITAU ROAD (1796)	2223	8	6666491.277	2561265.354	\$240,000	\$ 300,000
127	IWITAU ROAD (1796)	3026	28	6667181.098	2561457.061	\$840,000	\$ 1,000,000
128	IWITAU ROAD (1796)	3938	13	6667810.288	2561830.631	\$390,000	\$ 500,000
129	IWITAU ROAD (1796)	8487	12	6670798.458	2563137.444	\$360,000	\$ 500,000
130	IWITAU ROAD (1796)	12876	10	6673720.036	2564136.601	\$300,000	\$ 400,000
131	IWITAU ROAD (1796)	14710	8	6674323.961	2565049.511	\$240,000	\$ 300,000
132	JACENTHO ROAD (1799)	190	6	6675097.918	2551844.839	\$189,000	\$ 300,000
133	JACKSONS ROAD (OMAHUTA) (3379)	0	21	6636245.17	2552526.139	\$630,000	\$ 800,000
134	JACKSONS ROAD (3248)	130	28.6	6681000	2557000	\$859,000	\$ 1,100,000
135	JENNINGS ROAD (1806)	223	3	6667694.888	2592993.134	\$240,000	\$ 300,000
136	JORDAN ROAD (1812)	591	13	6641123.489	2579844.725	\$390,000	\$ 500,000
137	JORDAN ROAD (1812)	6356	15	6643457.357	2575837.041	\$450,000	\$ 600,000
138	JORDAN ROAD (1812)	9795	15	6641334.884	2573753.763	\$450,000	\$ 600,000
139	KAIHAKA ROAD (1815)	1807	3	6656261.269	2560009.379	\$94,500	\$ 200,000
140	KAIMU ROAD (1838)	2515	8	6696480.839	2530433.148	\$240,000	\$ 300,000
141	KAIMU ROAD (1838)	4386	5	6696407.461	2532113.279	\$157,500	\$ 200,000
142	KAITIA-AWAROA ROAD (2598)	18880	24	6663587.583	2529907.33	\$720,000	\$ 900,000
143	KAITIA-AWAROA ROAD (2598)	22370	37	6660528.575	2530305.066	\$1,110,000	\$ 1,400,000
144	KAITIA-AWAROA ROAD (2598)	25256	9	6659670.418	2531617.544	\$270,000	\$ 400,000
145	KAITIA-AWAROA ROAD (2598)	31006	32	6658783.544	2536524.952	\$960,000	\$ 1,200,000
146	KARAKA ROAD (1828)	189	10	6652151.645	2578284.795	\$300,000	\$ 400,000
147	KAUHANGA ROAD (1835)	8	19	6652151.645	2531325.009	\$570,000	\$ 700,000
148	KENANA ROAD (1844)	226	19	6684229.619	2562574.318	\$570,000	\$ 700,000
149	KERIKERI INLET ROAD (1795)	3470	27	6664261.197	2600539.688	\$910,000	\$ 1,000,000
150	KERIKERI INLET ROAD (1795)	6063	8	6663431.394	2602651.065	\$240,000	\$ 300,000
151	KERIKERI ROAD (1853)	5363	60	6664333.061	2598457.906	\$1,800,000	\$ 2,200,000
152	KITCHEN ROAD (1860)	489	23	6671984.951	2549204.694	\$690,000	\$ 900,000
153	KNUDSENS ROAD (1863)	272	12	6631036.539	2585233.012	\$360,000	\$ 500,000
154	KNUDSENS ROAD (1863)	1221	12	6631120.473	2585963.564	\$270,000	\$ 400,000
155	KNUDSENS ROAD (1863)	1825	9	6630977.171	2584652.557	\$270,000	\$ 400,000
156	KOHE ROAD (1864)	827	8	6654238.244	2539158.485	\$240,000	\$ 300,000
157	KOHUKOHU ROAD (1867)	2980	17	6666524.564	2555566.734	\$300,000	\$ 400,000
158	KOHUKOHU ROAD (1867)	13	17	6687666.787	2560903.682	\$510,000	\$ 600,000
159	KOHUMARU ROAD (1862)	2406	8	6685693.571	2561842.376	\$240,000	\$ 300,000
160	KOHUMARU ROAD (1862)	17766	20	6678510.275	2559116.197	\$600,000	\$ 800,000
161	KOHUMARU ROAD (1862)	18793	30	6678532.863	2559172.726	\$900,000	\$ 1,100,000
162	KOHUMARU ROAD (1862)	19989	31	6679355.901	2567389.82	\$930,000	\$ 1,100,000
163	KOUTU LOOP ROAD (1879)	124	8	6650042.962	2549578.88	\$240,000	\$ 300,000
164	KUPA ROAD (1881)	106	37	6635801.337	2601765.417	\$1,110,000	\$ 1,400,000
165	KUPA ROAD (1881)	1627	4	6636658.287	2602463.265	\$126,000	\$ 200,000
166	LAKE OHIA FLOOD BYPASS ROAD (3450)	400	8			\$240,000	\$ 300,000
167	LAKE ROAD (OKAIHAU) (1891)	6071	16	6648812.449	2580947.843	\$480,000	\$ 600,000
168	LANDING ROAD (KERIKERI) (1888)	1790	36	6660072.366	2598451.487	\$1,080,000	\$ 1,300,000
169	LOVATT ROAD (1910)	2638	4	6624269.882	2596368.347	\$126,000	\$ 200,000
170	LOVATT ROAD (1910)	3219	34	6624470.885	2595953.968	\$1,020,000	\$ 1,200,000
171	MACDONNELL ROAD (1915)	151	12			\$360,000	\$ 500,000
172	MAHINEPUA ROAD (1917)	434	10	6688342.074	2587608.96	\$300,000	\$ 400,000
173	MANAWAORA ROAD (1924)	3418	9	6659347.028	2622836.965	\$270,000	\$ 400,000
174	MANAWAORA ROAD (1924)	6138	16	6659070.654	2624642.766	\$480,000	\$ 600,000
175	MANAWAORA ROAD (1924)	7835	14	6658816.75	2626055.539	\$420,000	\$ 500,000
176	MANAWAORA ROAD (1925)	14487	17	6631144.999	2586242.702	\$510,000	\$ 600,000
177	MANGAKAHIA ROAD (1925)	18851	9	6627036.026	2585980.288	\$270,000	\$ 400,000
178	MANGAKAHIA ROAD (1925)	21461	32	6624644.413	2586464.624	\$960,000	\$ 1,200,000
179	MANGAKAHIA ROAD (1925)	24240	19	6622202.982	2586906.124	\$570,000	\$ 700,000
180	MANGAKARETU ROAD (1927)	1114	9	6663186.988	2590584.646	\$570,000	\$ 700,000
181	MANGATAI PA ROAD (1932)	772	9	6662297.461	2588998.882	\$270,000	\$ 400,000
182	MANGATAI PA ROAD (1932)	2874	16	6663159.739	257905.587	\$480,000	\$ 600,000
183	MANGATAI PA ROAD (1933)	459	16	6649666.761	2572263.075	\$480,000	\$ 600,000
184	MANGATAI PA ROAD (1933)	2332	13	6649801.478	2573855.845	\$390,000	\$ 500,000
185	MANGATAI PA ROAD (1934)	590	16	6633098.654	2573619.781	\$480,000	\$ 600,000
186	MANSBRIDGE ROAD (1940)	554	11	6660213.153	2548633.865	\$330,000	\$ 400,000
187	MANSBRIDGE ROAD (1940)	1487	18	6660440.593	2549515.249	\$540,000	\$ 700,000
188	MANUKAU ROAD (1941)	575	20	6662534.413	2529873.733	\$600,000	\$ 800,000
189	MARLOW ROAD (1948)	945	19	6632241.407	2611710.407	\$570,000	\$ 700,000
190	MARLOW ROAD (1948)	3212	19	6630366.981	2611700.86	\$570,000	\$ 700,000
191	MARLOW ROAD (1948)	7665	12	6626828.973	2611695.507	\$360,000	\$ 500,000
192	MAROMAKU-TOWAI ROAD (1953)	1233	16	6634996.368	2610207.285	\$480,000	\$ 600,000
193	MAROMAKU-TOWAI ROAD (1953)	4020	13	6633063.782	2611738.31	\$390,000	\$ 500,000
194	MAROMAKU-TOWAI ROAD (1953)	4753	16	6633029.925	2612334.57	\$480,000	\$ 600,000
195	MAROMAKU-TOWAI ROAD (1953)	6505	10	6633368.959	2613509.951	\$300,000	\$ 400,000
196	MARTIN ROAD (POKERE) (1958)	276	5	6636070.251	2601590.367	\$157,500	\$ 200,000
197	MATA ROAD (1966)	9	19	6655773.411	2557299.01	\$570,000	\$ 700,000
198	MATA ROAD (1966)	3180	9	6653959.108	2555454.221	\$270,000	\$ 400,000
199	MATAI BAY ROAD (1968)	3574	19	6706331.719	2547303.761	\$570,000	\$ 700,000
200	MATAURI BAY ROAD (1972)	3249	18	6677432.135	2588240.823	\$540,000	\$ 700,000
201	MATAURI BAY ROAD (1972)	11179	4	6681812.771	2591740.655	\$126,000	\$ 200,000
202	MATAURI BAY ROAD (1972)	11579	13			\$390,000	\$ 500,000
203	MATAURI BAY CAMP ROAD	200	3			\$94,500	\$ 200,000
204	MATAURI BAY CAMP ROAD	500	3			\$94,500	\$ 200,000
205	MATAURI BEACH ROAD (1973)	2179	8	6684696.288	2594153.922	\$240,000	\$ 300,000
206	MATAURI LINK ROAD (1974)	32	8	6675149.71	2587484.593	\$240,000	\$ 300,000
207	MATAWAIA-MAROMAKU ROAD (1977)	891	21	6633212.183	2598192.912	\$630,000	\$ 800,000
208	MATAWAIA-MAROMAKU ROAD (1977)	4098	23	663292.617	2600904.393	\$690,000	\$ 900,000
209	MATAWAIA-MAROMAKU ROAD (1977)	9488	8	6633498.019	2603404.845	\$240,000	\$ 300,000
210	MATAWAIA-MAROMAKU ROAD (1977)	10176	16	6633172.436	2603937.604	\$480,000	\$ 600,000
211	MATAWAIA-MAROMAKU ROAD (1977)	10750	13	6633181.198	2604504.032	\$390,000	\$ 500,000
212	MATAWAIA-MAROMAKU ROAD (1977)	11786	21	6633141.028	2605267.247	\$630,000	\$ 800,000

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Easting	Approx cost to replace	Upper Limit Estimate
213	W46 MATAWAIA-MAROMAKU ROAD (1977)	15422	7	6634528.009	2607024.961	\$220,500	\$ 300,000
214	W47 MATAWAIA-MAROMAKU ROAD (1977)	15923	24	6634990.167	2607128.067	\$720,000	\$ 900,000
215	W49 MATAWAIA-MAROMAKU ROAD (1977)	19160	8	6635067.002	2609669.503	\$240,000	\$ 300,000
216	I47 MATAWHEROHIA ROAD (1979)	17	8	6676571.093	2680651.372	\$240,000	\$ 300,000
217	I48 MATAWHEROHIA ROAD (1979)	7781	10	6672197.403	2580382.6	\$300,000	\$ 400,000
218	P42 MATENE ROAD (1981)	29	9	6636280.996	2569595.437	\$270,000	\$ 400,000
219	D36 McDONALD ROAD (DIGGERS VALLEY) (1989)	130	2	6660829.166	2533065.543	\$63,000	\$ 100,000
220	I62 MCGEE ROAD (1992)	135	2	6676094.433	2584969.235	\$63,000	\$ 100,000
221	I40 MCGEE ROAD (1992)	348	8	6676103.506	2585147.211	\$240,000	\$ 300,000
222	T22 MCINTYRES ROAD (1993)	58	14	6653042.15	2602803.804	\$420,000	\$ 500,000
223	E65 McFFIN ROAD (1995)	174	27	6676772.316	2544703.949	\$810,000	\$ 1,000,000
224	E02 MILL BAY ROAD (2005)	1054	7	6689990.643	2559197.129	\$220,500	\$ 300,000
225	T27 MILL ROAD (2008)	1778	9	6645326.899	2606283.472	\$270,000	\$ 400,000
226	T46 MILL ROAD (2008)	3991	2			\$63,000	\$ 100,000
227	N32 MISSION OAK ROAD (2014)	122	31	6639192.101	2566334.13	\$930,000	\$ 1,100,000
228	W67 MONUMENT ROAD (2020)	8730	20	6636573.77	2620488.861	\$600,000	\$ 800,000
229	W53 MORGANS ROAD (3171)	90	17	6635702.604	2619780.285	\$510,000	\$ 600,000
230	W70 NELSONS ROAD (2030)	11	15	6639135.798	2620538.837	\$450,000	\$ 600,000
231	B05 NGAKAROA ROAD (3015)	126	9	6668758.499	2526031.138	\$270,000	\$ 400,000
232	P02 NGAWHITU ROAD (2044)	294	20	6643104.34	2596784.403	\$600,000	\$ 800,000
233	N26 NINIHI ROAD (2046)	236	9	6636296.31	2574628.18	\$270,000	\$ 400,000
234	B18 OINU ROAD (2058)	475	8	6681993.555	2537328.137	\$240,000	\$ 300,000
235	M23 OKAKA ROAD (2062)	294	15	6651570.178	2570233.955	\$450,000	\$ 600,000
236	UN11 OKAKEWAI ROAD (2063)	520	2.1			\$65,150	\$ 100,000
237	R19 OLD BAY ROAD (2068)	1915	11	6651771.01	2594303.658	\$330,000	\$ 400,000
238	R20 OLD BAY ROAD (2068)	3523	11	6652489.478	2595664.716	\$330,000	\$ 400,000
239	T42 OLD WHANGAE ROAD (2072)	100	24	6646275.184	2607584.976	\$720,000	\$ 900,000
240	T41 OLD WHANGAE ROAD (2072)	180	13	6646350.986	2607566.431	\$390,000	\$ 500,000
241	H25 OMAHUTA ROAD (2074)	3320	16	EFER TO REPOFFER TO REPOFF		\$480,000	\$ 600,000
242	K06 OMANAIA ROAD (2075)	2860	8	6637373.138	2557663.058	\$240,000	\$ 300,000
243	K03 OMANAIA ROAD (2075)	4636	13	6638493.931	2558418.219	\$390,000	\$ 500,000
244	M30 OMAPERE ROAD (2077)	868	3	6644352.136	2582135.175	\$94,500	\$ 200,000
245	I43 OMAUNU ROAD (2078)	5731	7	6673966.661	2575982.556	\$220,500	\$ 300,000
246	I44 OMAUNU ROAD (2078)	8902	13	6673686.661	2575982.556	\$390,000	\$ 500,000
247	I45 OMAUNU ROAD (2078)	11266	12	6671816.328	2575976.392	\$360,000	\$ 500,000
248	R03 ONEKURA ROAD (2079)	863	6	6687882.629	2588750.227	\$189,000	\$ 300,000
249	W28 OPAHI STATION ROAD (2082)	321	13	6634934.417	2601415.511	\$390,000	\$ 500,000
250	S17 OPI TO BAY ROAD (2084)	39	2	6667559.122	2602330.2	\$63,000	\$ 100,000
251	P43 ORAKAU ROAD (2091)	3816	7	6636184.664	2589655.942	\$220,500	\$ 300,000
252	P44 ORAKAU ROAD (2091)	5495	19	6635027.07	2590864.512	\$570,000	\$ 700,000
253	P45 ORAKAU ROAD (2091)	5923	11	6635027.867	2591292.705	\$330,000	\$ 400,000
254	P35 ORAKAU ROAD (2201)	7355	16	6634225.794	2592387.574	\$480,000	\$ 600,000
255	P36 ORAKAU ROAD (2201)	7685	16	6633985.293	2592629.919	\$480,000	\$ 600,000
256	P37 ORAKAU ROAD (2201)	8042	15	6633733.6	2592796.152	\$450,000	\$ 600,000
257	P38 ORAKAU ROAD (2201)	8760	12	6633232.646	2593213.767	\$360,000	\$ 500,000
258	P39 ORAKAU ROAD (2201)	9396	9	6632711.76	2593040.944	\$270,000	\$ 400,000
259	P40 ORAKAU ROAD (2201)	9995	11	6632180.436	2593366.264	\$330,000	\$ 400,000
260	P41 ORAKAU ROAD (2201)	10257	8	6631933.107	2593480.07	\$240,000	\$ 300,000
261	P46 ORAKAU ROAD (2201)	15458	12	6632549.456	2597134.061	\$360,000	\$ 500,000
262	M26 ORIRA ROAD (2089)	78	16	6655695.29	2562250.975	\$480,000	\$ 600,000
263	T20 OROMAHOE ROAD (2092)	2728	11	6653204.145	2601742.042	\$330,000	\$ 400,000
264	T21 OROMAHOE ROAD (2092)	3393	16	6653226.67	2602393.319	\$480,000	\$ 600,000
265	T23 OROMAHOE ROAD (2092)	4348	6	6652668.041	2603255.982	\$189,000	\$ 300,000
266	A40 OROMANGA ROAD (2093)	525	10	6727299.673	2504672.842	\$300,000	\$ 400,000
267	E09 ORURU ROAD (2096)	2724	24	6686763.471	2553687.481	\$720,000	\$ 900,000
268	E23 ORURU ROAD (2096)	7296	37	6683464.428	2556327.118	\$1,110,000	\$ 1,400,000
269	P32 OTAENGA ROAD (2100)	290	6	6624582.545	2586180.183	\$189,000	\$ 300,000
270	P30 OTAENGA ROAD (2100)	1379	14	6623497.351	2585945.647	\$420,000	\$ 500,000
271	I03 OTANGAROA ROAD (2103)	257	26	6682097.987	2573925.222	\$780,000	\$ 1,000,000
272	I04 OTANGAROA ROAD (2103)	5842	15	6679373.791	2570027.924	\$450,000	\$ 600,000
273	I05 OTANGAROA ROAD (2103)	8749	44	6677167.62	2568435.747	\$1,320,000	\$ 1,600,000
274	I06 OTANGAROA ROAD (2103)	12885	5	6675558.576	2565775.049	\$157,500	\$ 200,000
275	I10 OTANGAROA ROAD (SIDE ROAD) (2105)	223	23			\$680,000	\$ 900,000
276	N33 OTATARA MARAE ROAD (2106)	450	24	6636622.94	2564989.157	\$720,000	\$ 900,000
277	N28 OTAU ROAD (2107)	407	20	6636509.748	2572855.481	\$600,000	\$ 800,000
278	G19 OTENGI ROAD (2108)	295	10	6645723.907	2545747.069	\$300,000	\$ 400,000
279	G20 OTENGI ROAD (2108)	953	6	6645203.936	2546045.753	\$189,000	\$ 300,000
280	B17 OTURU ROAD (2113)	702	10	6678523.483	2596476.598	\$300,000	\$ 400,000
281	T37 OWAE ROAD (2114)	2881	12	6645507.186	2615512.496	\$360,000	\$ 500,000
282	T38 OWAE ROAD (2114)	4939	12	6644745.043	2616979.124	\$360,000	\$ 500,000
283	D01 OWHATA ROAD (2115)	39	4	6656181.384	2529007.629	\$126,000	\$ 200,000
284	D04 OWHATA ROAD (2115)	1444	4	6655536.221	2528197.968	\$126,000	\$ 200,000
285	W73 PAIACA ROAD (2120)	190	13	6633007.763	2614909.266	\$390,000	\$ 500,000
286	E83 PANTHER ROAD (2128)	24	18	6672682.382	2547183.825	\$540,000	\$ 700,000
287	W10 PARAHA ROAD (2131)	34	10	6635139.012	2597651.804	\$300,000	\$ 400,000
288	E22 PARANUI ROAD (2138)	2492	18	6684704.604	2553540.435	\$540,000	\$ 700,000
289	E29 PARANUI-TOATOIA ROAD (3132)	3879	12	6681446.476	2551224.665	\$360,000	\$ 500,000
290	C29 PARAPARA ROAD (2134)	1985	8	6687955.01	2549937.865	\$240,000	\$ 300,000
291	C30 PARAPARA ROAD (2134)	3021	11	6687451.811	2549177.189	\$330,000	\$ 400,000
292	E24 PARAPARA-TOATOIA ROAD (2133)	3199	17	6684598.187	2549322.54	\$510,000	\$ 600,000
293	E30 PARAPARA-TOATOIA ROAD (2133)	7489	14	6681307.824	2550745.53	\$420,000	\$ 500,000
294	N21 PARKERS ROAD (2137)	1242	5	6622900.682	2573653.638	\$157,500	\$ 200,000
295	N05 PARKERS ROAD (2137)	1525	3	6622877.884	2573576.585	\$94,500	\$ 200,000
296	G11 PAWARENGA ROAD (2143)	5821	20	6655304.588	2542878.571	\$600,000	\$ 800,000
297	G13 PAWARENGA ROAD (2143)	8861	10	6653760.163	2541286.522	\$300,000	\$ 400,000
298	G14 PAWARENGA ROAD (2143)	9630	24	6653190.833	2540964.99	\$720,000	\$ 900,000
299	G15 PAWARENGA ROAD (2143)	11038	46	6655666.618	2539634.2	\$1,380,000	\$ 1,700,000
300	G16 PAWARENGA ROAD (2143)	14811	39	6651853.133	2536730.137	\$1,170,000	\$ 1,400,000
301	C21 PEKERAU ROAD (2148)	2501	10	6687782.527	2544364.75	\$300,000	\$ 400,000
302	C24 PEKERAU ROAD (2148)	4298	6	6686683.445	2545513.591	\$189,000	\$ 300,000
303	C25 PEKERAU ROAD (2148)	5082	6	6685963.83	2545362.379	\$189,000	\$ 300,000
304	C26 PEKERAU ROAD (2148)	5417	6	6685652.073	2545308.192	\$189,000	\$ 300,000
305	C27 PEKERAU ROAD (2148)	5656	11	6685434.902	2545391.051	\$330,000	\$ 400,000
306	C28 PEKERAU ROAD (2148)	6043	9	6685084.482	2545432.537	\$270,000	\$ 400,000
307	E38 PERIA ROAD (2156)	929	8	6677913.201	2554228.261	\$240,000	\$ 300,000
308	E41 PERIA ROAD (2156)	1205	10	6677968.198	2553953.561	\$300,000	\$ 400,000
309	E75 PERIA ROAD (2156)	5254	16	6676879.276	2550878.071	\$480,000	\$ 600,000
310	E78 PERIA VALLEY ROAD (2157)	3299	22	6674134.419	2550675.647	\$660,000	\$ 800,000
311	E77 PERIA VALLEY ROAD (2157)	5294	9	6675386.787	2551731.423	\$270,000	\$ 400,000
312	E57 PERIA VALLEY ROAD (2157)	8840	6	6676314.555	2553870.342	\$189,000	\$ 300,000
313	E56 PERIA VALLEY ROAD (2157)	10101	9	6676894.545	2554682.006	\$270,000	\$ 400,000
314	P18 PICADILLY ROAD (2159)	4093	24	6635602.13	2626833.017	\$720,000	\$ 900,000
315	W04 PIPIWAI ROAD (2164)	1385	11	6631879.864	2599594.285	\$330,000	\$ 400,000
316	W05 PIPIWAI ROAD (2164)	3943	11	6629762.023	2598902.847	\$330,000	\$ 400,000
317	W06 PIPIWAI ROAD (2164)	7013	9	6627950.696	2597163.576	\$270,000	\$ 400,000
318	W07 PIPIWAI ROAD (2164)	8701	10	6626613.31	2597807.328	\$300,000	\$ 400,000
319	W08 PIPIWAI ROAD (2164)	10514	38	6624848.937	2597983.761	\$1,140,000	\$ 1,400,000

FAR NORTH DISTRICT COUNCIL BRIDGES

Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Easting	Approx cost to replace	Upper Limit Estimate
320	W09 PIIWAI ROAD (2164)	12305	15	6623492.849	2599003.998	\$450,000	\$ 600,000
321	T04 POKAPU ROAD (2169)	262	16	6643711.742	2600644.787	\$480,000	\$ 600,000
322	T03 POKAPU ROAD (2169)	1009	13	6643091.127	2600295.32	\$390,000	\$ 500,000
323	T05 POKAPU ROAD (2189)	3097	22	6641281.605	2599692.955	\$660,000	\$ 800,000
324	W13 POKAPU ROAD (2169)	3559	37	6640821.356	2599666.195	\$1,110,000	\$ 1,400,000
325	W14 POKAPU ROAD (2169)	4255	19	6640337.478	2599252.979	\$570,000	\$ 700,000
326	W19 POKAPU ROAD (2169)	7193	12	6637887.118	2598136.996	\$360,000	\$ 400,000
327	W20 POKAPU ROAD (2169)	7420	10	6637681.58	2598228.975	\$300,000	\$ 400,000
328	W21 POKAPU ROAD (2169)	12536	11	6633552.266	2597362.889	\$330,000	\$ 400,000
329	D37 POWELLS ROAD (DIGGERS VALLEY) (2177)	105	19	6661233.712	2533208.888	\$570,000	\$ 700,000
330	D35 POWELLS ROAD (DIGGERS VALLEY) (2177)	1118	8	6661764.781	2532351.447	\$240,000	\$ 300,000
331	D50 PUHATA ROAD (2184)	46	9	6655343.539	2530057.738	\$270,000	\$ 400,000
332	D51 PUHATA ROAD (2184)	1042	6	6657697.185	2530461.387	\$189,000	\$ 300,000
333	D52 PUHATA ROAD (2184)	1122	8	6657615.681	2530459.07	\$240,000	\$ 300,000
334	W44 PUHATA ROAD (2186)	53	10	6631087.846	2604691.212	\$300,000	\$ 400,000
335	H08 PUKEMIRO ROAD (2188)	361	37	6659988.847	2544665.573	\$1,110,000	\$ 1,400,000
336	M01 PUKEPOTO ROAD (OKAIHAU) (2191)	315	10	6655768.591	2578019.135	\$300,000	\$ 400,000
337	M02 PUKETI ROAD (2193)	286	37	6656991.367	2576447.474	\$1,110,000	\$ 1,400,000
338	N25 PUNAKITERE LOOP ROAD (2200)	283	36	6637031.737	2574887.113	\$300,000	\$ 400,000
339	N27 PUNAKITERE LOOP ROAD (2200)	5375	31	6637556.746	2570859.772	\$930,000	\$ 1,100,000
340	I17 PUPIUKE MANGAPA ROAD (2203)	1648	10	6677664.566	2571279.052	\$300,000	\$ 400,000
341	I18 PUPIUKE MANGAPA ROAD (2203)	5823	45	6673989.118	2575268.477	\$1,350,000	\$ 1,600,000
342	I19 PUPIUKE MANGAPA ROAD (2203)	9399	12	6673517.603	2573028.221	\$360,000	\$ 500,000
343	I20 PUPIUKE MANGAPA ROAD (2203)	13508	14	6670581.582	2570989.753	\$420,000	\$ 500,000
344	S11 PURERUA ROAD (2205)	670	18	6667630.19	2596447.183	\$540,000	\$ 700,000
345	S01 PURERUA ROAD (2205)	1860	14	6668492.69	2597147.965	\$420,000	\$ 500,000
346	B49 PURIRI PLACE (2208)	0	18	6675616.792	2535445.35	\$540,000	\$ 700,000
347	B16 QUARRY ROAD (AWANUI) (2210)	5683	10	6679128.15	2537189.395	\$300,000	\$ 400,000
348	M12 QUARRY ROAD (KAIKOHE) (2209)	230	12	6643841.579	2584357.569	\$360,000	\$ 500,000
349	M18 RAHURI SETTLEMENT ROAD (2214)	39	50	6656104.639	2571092.748	\$1,500,000	\$ 1,800,000
350	P03 RAKAUTA ROAD (3024)	201	12	6641696.804	2593995.715	\$360,000	\$ 500,000
351	N01 RAKAUWAHIA ROAD (2219)	2097	28	6639637.216	2577360.639	\$840,000	\$ 1,000,000
352	L09 RAKAUWAHIA ROAD (2219)	4806	10	6640253.011	2574760.183	\$300,000	\$ 400,000
353	N31 RAMSEY ROAD (2221)	1696	18	6636469.03	2569997.443	\$540,000	\$ 700,000
354	M19 RANGIARUA ROAD (2225)	5543	24	6651754.952	2567099.466	\$720,000	\$ 900,000
355	S03 RANGIARUA ROAD (2227)	786	9	6672951.461	2606053.863	\$270,000	\$ 400,000
356	S04 RANGIARUA ROAD (2227)	1764	9	6672952.931	2606913.075	\$270,000	\$ 400,000
357	S05 RANGIARUA ROAD (2227)	2390	3	6672504.909	2607254.893	\$94,500	\$ 200,000
358	S08 RANGIARUA ROAD (2227)	4964	10	6670751.797	2608732.02	\$300,000	\$ 400,000
359	D61 RANGIKOHU ROAD (EPIKAURI ROAD) (2229)	599	28	6660576.046	2529511.369	\$840,000	\$ 1,000,000
360	W32 RATA TIPENE ROAD (2238)	133	12	6628455.788	2609503.355	\$360,000	\$ 500,000
361	X03 RAWHITI ROAD (NORTH) (2240)	1167	12	6659674.841	2628139.58	\$360,000	\$ 500,000
362	X02 RAWHITI ROAD (SOUTH) (3075)	7031	18	6653934.984	2628930.749	\$540,000	\$ 700,000
363	X01 RAWHITI ROAD (SOUTH) (3075)	7768	9	6653536.288	2628420.035	\$270,000	\$ 400,000
364	S02 REDCLIFFS ROAD (2247)	493	16	6667113.312	2598746.246	\$480,000	\$ 600,000
365	N24 RENWICK ROAD (2252)	1429	9	6631476.378	2573985.416	\$270,000	\$ 400,000
366	N38 RENWICK ROAD, SIDE ROAD (2252)	2850	14	6630480.155	2573527.645	\$420,000	\$ 500,000
367	B31 ROMA ROAD (2265)	60	9	6668857.577	2526025.06	\$270,000	\$ 400,000
368	B32 ROMA ROAD (2265)	713	11	6668759.075	2525459.836	\$330,000	\$ 400,000
369	W51 RUAPEKAPEKA ROAD (2275)	56	7	6634442.206	2613390.4	\$220,500	\$ 300,000
370	D02 RUAROA ROAD (2276)	1862	9	6674303.408	2541488.151	\$270,000	\$ 400,000
371	D05 RUAROA ROAD (2276)	6252	50	6670831.402	2542336.113	\$1,500,000	\$ 1,800,000
372	G12 RUNARUNA ROAD (2278)	8993	8	664896.102	2545133.999	\$240,000	\$ 300,000
373	W52 RUSK ROAD (3044)	2906	9	6630035.597	2615609.546	\$270,000	\$ 400,000
374	W71 RUSSEK ROAD (2280)	610	1,8		\$56,700	\$ 100,000	
375	C22 RUSSELL ROAD (2283)	150	9	6688375.075	2544674.87	\$270,000	\$ 400,000
376	X12 RUSSELL-WHAKAPARA ROAD (2284)	8676	17	6655117.984	2619150.105	\$510,000	\$ 600,000
377	A25 SALVATION ROAD (HOUHORA) (2290)	720	8		\$240,000	\$ 300,000	
378	I02 SALVATION ROAD (WHANGAROA) (2289)	2668	9	6686319.045	2571778.789	\$270,000	\$ 400,000
379	B14 SANDHILLS ROAD (2292)	15549	12	6692216.775	2531696.66	\$360,000	\$ 500,000
380	I14 SCHOOL ROAD (TOTARA NORTH) (3122)	192	13	6684286.127	2575966.345	\$390,000	\$ 500,000
381	T28 SETTLEMENT ROAD (2304)	1500	9	6644297.369	2606564.214	\$270,000	\$ 400,000
382	E01 SILVER EGG ROAD (2315)	177	8	6690321.701	2559007.937	\$240,000	\$ 300,000
383	C07 SIMON URLICH ROAD (2316)	730	9	6701224.651	2544606.788	\$270,000	\$ 400,000
384	A36 SPAINS ROAD (2334)	1876	14	6684913.8	2532233.351	\$420,000	\$ 500,000
385	S10 STANNERS ROAD (2340)	994	10	6669010.005	2594223.248	\$300,000	\$ 400,000
386	N04 STEWARDS ROAD (2345)	209	23	6630508.943	2579042.314	\$690,000	\$ 900,000
387	F09 STONEY CREEK ROAD (2346)	5468	2	6692092.491	2569305.34	\$63,000	\$ 100,000
388	F10 STONEY CREEK ROAD (2346)	6860	2,1		\$66,150	\$ 100,000	
389	E82 STURMFEL ROAD (2349)	1491	2	6672677.342	2541284.957	\$63,000	\$ 100,000
390	E82 SWITZER ROAD (2353)	8	11	6676149.969	2546796.458	\$330,000	\$ 400,000
391	L04 TAHEKE ROAD (2359)	3968	25		\$750,000	\$ 900,000	
392	L05 TAHEKE ROAD (2359)	4994	14	6641497.193	2567104.652	\$420,000	\$ 500,000
393	J06 TAITA ROAD (2368)	1275	14	6628058.662	2554895.033	\$420,000	\$ 500,000
394	J16 TAITA ROAD (2368)	5525	8	6628749.052	2556422.38	\$240,000	\$ 300,000
395	D03 TAKAHUE ROAD (2371)	435	11	6673036.415	2543764.198	\$330,000	\$ 400,000
396	D04 TAKAHUE ROAD (2371)	1798	12	6671925.867	2542965.978	\$360,000	\$ 500,000
397	D06 TAKAHUE ROAD (2371)	3062	9	6670768.29	2542541.485	\$270,000	\$ 400,000
398	D12 TAKAHUE ROAD (2371)	5146	12	6668755.215	2542841.255	\$360,000	\$ 500,000
399	D13 TAKAHUE ROAD (2371)	5537	36	6668598.633	2542544.456	\$1,140,000	\$ 1,400,000
400	D14 TAKAHUE ROAD (2371)	6187	19	6668096.454	2542261.664	\$570,000	\$ 700,000
401	D19 TAKAHUE SADDLE ROAD (BROADWOOD) (23)	1601	10	6661203.875	2545568.54	\$300,000	\$ 400,000
402	D20 TAKAHUE SADDLE ROAD (BROADWOOD) (23)	2359	7	6661740.741	2545679.812	\$220,500	\$ 300,000
403	P51 TANA ROAD (2377)	218	12	6642043.616	2595980.1023	\$360,000	\$ 500,000
404	W63 TAPUHI ROAD (2384)	612	25	6630962.57	2619776.866	\$750,000	\$ 900,000
405	W64 TAPUHI ROAD (2384)	2144	22	6632018.814	2619959.21	\$660,000	\$ 800,000
406	W65 TAPUHI ROAD (2384)	3271	10	6632849.125	2620165.596	\$300,000	\$ 400,000
407	W66 TAPUHI ROAD (2384)	7933	11	6635651.132	2619790.957	\$330,000	\$ 400,000
408	W69 TAPUHI ROAD (2384)	10042	9	6637673.605	2620586.815	\$270,000	\$ 400,000
409	I38 TARAIRE ROAD (2387)	2349	10	6678364.593	2586937.573	\$300,000	\$ 400,000
410	D60 TATANA ROAD (2392)	751	9	6662199.063	2529418.792	\$270,000	\$ 400,000
411	C31 TAUMATA ROAD (2394)	108	28	6687116.961	2548975.443	\$840,000	\$ 1,000,000
412	C32 TAUMATA ROAD (2394)	2286	8	6685997.878	2547344.382	\$240,000	\$ 300,000
413	C33 TAUMATA ROAD (2394)	3495	13	6684975.381	2547241.164	\$390,000	\$ 500,000
414	C34 TAUMATA ROAD (2394)	5158	13	6683546.128	2546671.853	\$390,000	\$ 500,000
415	F01 TAUPU BAY ROAD (2398)	2300	12	6690200.324	2568645.61	\$360,000	\$ 500,000
416	F02 TAUPU BAY ROAD (2398)	3626	11	6690204.822	2569722.08	\$330,000	\$ 400,000
417	F04 TAUPU BAY ROAD (2398)	10011	6	6690162.979	2575276.432	\$189,000	\$ 300,000
418	I31 TAURANGA BAY BEACH ROAD (2399)	18	16	6685753.583	2584371.997	\$480,000	\$ 600,000
419	I29 TAURANGA BAY ROAD (2400)	148	4	6685946.46	2584279.981	\$126,000	\$ 200,000
420	I30 TAURANGA BAY ROAD (2400)	1621	8	6686926.729	2583483.386	\$240,000	\$ 300,000
421	G25 TAUORO ROAD (2402)	131	12	6646635.775	2545741.769	\$360,000	\$ 500,000
422	N03 TAWATA ROAD (3182)	33	10	6682616.239	2553818.87	\$300,000	\$ 400,000
423	E26 TAYLOR ROAD (2405)	2419	12	6680880.062	2554184.756	\$360,000	\$ 500,000
424	E28 TAYLOR ROAD (2405)	370	10	6727186.049	2607639.053	\$300,000	\$ 400,000
425	A13 TE AHU ROAD (2408)	2126	13	6743704.901	2497502.84	\$390,000	\$ 500,000
426	A05 TE HAPUA ROAD (2411)						

FAR NORTH DISTRICT COUNCIL BRIDGES									
Bridge No.	Roadway	Disp Start (m)	Road Length (m)	Northing	Eastings	Approx cost to replace	Upper Limit Estimate		
427	TE HUAHUA ROAD (2413)	1382	4	6650253.691	2554634.078	\$126,000	\$ 200,000		
428	TE IRENGA ROAD (2415)	400	4	6638596.6	2581887.001	\$126,000	\$ 200,000		
429	TE KAROA ROAD (2418)	89	25	6675536.096	2660635.336	\$750,000	\$ 900,000		
430	TE KAROA ROAD (2418)	466	8	6675194.316	2660759.004	\$240,000	\$ 300,000		
431	TE KARUWHI PARADE (2420)	622	162	6657931.654	2609066.99	\$4,860,000	\$ 5,800,000		
432	TE MOHO ROAD (3152)	207	3	6686603.48	2549988.055	\$94,500	\$ 200,000		
433	TE PAKI STREAM ROAD (2424)	1489	11	6743042.894	2491738.969	\$330,000	\$ 400,000		
434	TE RORE ROAD	4900	1.8			\$56,700	\$ 100,000		
435	TE RORE ROAD (2430)	7710	6	6672420.08	2546600.882	\$189,000	\$ 300,000		
436	TE TIO ROAD (2432)	1589	18	6655776.355	2562220.371	\$540,000	\$ 700,000		
437	TIPA TIPA ROAD (2444)	7640	31	6678644.407	2569026.51	\$930,000	\$ 1,100,000		
438	TIPENE ROAD (2445)	895	10	6632163.711	2604550.328	\$300,000	\$ 400,000		
439	TIPENE ROAD (2445)	1187	9	6631888.706	2604482.282	\$270,000	\$ 400,000		
440	TOJA ROAD (2451)	1726	12	6648155.215	2579593.448	\$360,000	\$ 500,000		
441	TOKAWHERO ROAD (2452)	3265	16	6624436.294	2568900.7134	\$480,000	\$ 600,000		
442	TOKAWHERO ROAD (2452)	5425	9	6624257.767	2590438.834	\$270,000	\$ 400,000		
443	TOTARA NORTH ROAD (2454)	2995	12	6684423.968	2576493.352	\$360,000	\$ 500,000		
444	PORTERS ACCESS ROAD EXTENSION	140	16	6684113.877	2582345.73	\$480,000	\$ 600,000		
445	TRACEY ROAD (2458)	315	8	6673462.224	2550346.357	\$240,000	\$ 300,000		
446	TURK VALLEY ROAD (3302)	345	3			\$94,500	\$ 200,000		
447	UPOKORAU ROAD (2471)	279	32	6673206.2	2585864.887	\$960,000	\$ 1,200,000		
448	VALENCIA LANE (2473)	354	5	6660914.492	2593382.968	\$157,500	\$ 200,000		
449	VICTORIA VALLEY ROAD (2478)	460	46	6672648.996	2547919.894	\$1,380,000	\$ 1,700,000		
450	WAIARE ROAD (2484)	14650	20	6663374.938	2583600.117	\$600,000	\$ 800,000		
451	WAIARE ROAD (2484)	15569	24	6664024.012	2583591.443	\$720,000	\$ 900,000		
452	WAIARE ROAD (2484)	25965	25	6672054.191	2582960.845	\$750,000	\$ 900,000		
453	WAIARE ROAD (2484)	27197	48	6672520.996	2583881.673	\$1,440,000	\$ 1,700,000		
454	WAIARE ROAD (2484)	33367	11	6675505.988	2583648.331	\$330,000	\$ 400,000		
455	WAIARE ROAD (2484)	33491	52	6675624.277	2583616.778	\$1,560,000	\$ 1,900,000		
456	WAIARE ROAD (2484)	34490	36	6676533.673	2583471.632	\$1,080,000	\$ 1,300,000		
457	WAIHAPA ROAD (2486)	1637	6	6679000.194	2573230.612	\$189,000	\$ 300,000		
458	WAIHAPA ROAD (2486)	2094	6	6678503.843	2573258.736	\$189,000	\$ 300,000		
459	WAIKARU ROAD (2488)	2790	8	6651577.956	2592951.157	\$240,000	\$ 300,000		
460	WAIKARE ROAD (2491)	5980	7	6647104.054	2615428.414	\$220,500	\$ 300,000		
461	WAIKARE ROAD (2491)	15142	13	6649718.709	2620669.467	\$390,000	\$ 500,000		
462	WAIKARE ROAD (2491)	17006	25	6650417.196	2622284.933	\$750,000	\$ 900,000		
463	WAIKARE ROAD (2491)	17870	17	6651048.721	2622829.287	\$510,000	\$ 600,000		
464	WAIKARE ROAD (2491)	18838	11	6651976.319	2622899.2	\$330,000	\$ 400,000		
465	WAIKARE VALLEY ROAD (2485)	2240	30.0			\$900,000	\$ 1,100,000		
466	WAIKINO ROAD (2493)	50	17	6647403.341	2614612.403	\$510,000	\$ 600,000		
467	WAIKOURA ROAD (2494)	993	3	6680413.474	2580877.356	\$94,500	\$ 200,000		
468	WAIKUKU ROAD (2495)	2213	12	6653939.794	2588252.04	\$360,000	\$ 500,000		
469	WAIMA VALLEY ROAD (2497)	2986	13	6636802.529	2565649.709	\$390,000	\$ 500,000		
470	WAIMANGARO ROAD (3174)	0	8	6653549.5	2611242.9	\$240,000	\$ 300,000		
471	WAIMATE NORTH ROAD (2500)	5051	8			\$240,000	\$ 300,000		
472	WAIMATE NORTH ROAD (2500)	7578	35	6655653.291	2592850.547	\$1,050,000	\$ 1,300,000		
473	WAIMATE NORTH ROAD (2500)	9999	6	6654434.392	2592308.086	\$189,000	\$ 300,000		
474	WAIMATENUI / MATARUA ROAD (2600)	5470	33	6636209.138	2581709.952	\$990,000	\$ 1,200,000		
475	WAIMATENUI / MATARUA ROAD (2600)	7110	8	6634808.753	2581188.663	\$240,000	\$ 300,000		
476	WAIMATENUI / MATARUA ROAD (2600)	11713	6	6631088.41	2579689.542	\$189,000	\$ 300,000		
477	WAIMATENUI / MATARUA ROAD (2600)	13552	8	6629639.005	2579404.655	\$240,000	\$ 300,000		
478	WAIMATENUI / MATARUA ROAD (2600)	14658	9	6628333.488	2579053.245	\$270,000	\$ 400,000		
479	WAIMATENUI / MATARUA ROAD (2600)	15617	19	6628339.158	2578366.392	\$570,000	\$ 700,000		
480	WAIMATENUI / MATARUA ROAD (2600)	16795	73	6627427.218	2577820.033	\$2,190,000	\$ 2,600,000		
481	WAIMATENUI / MATARUA ROAD (2600)	16978	48	6627308.974	2577624.537	\$1,440,000	\$ 1,700,000		
482	WAIMATENUI / MATARUA ROAD (2600)	18514	16	6626350.077	2576963.657	\$480,000	\$ 600,000		
483	WAIMATENUI / MATARUA ROAD (2600)	24864	13	6625560.909	2575201.697	\$390,000	\$ 500,000		
484	WAINUI ROAD (2503)	4095	5	6693142.339	2582517.836	\$157,500	\$ 200,000		
485	WAINUI ROAD (2503)	5000	22	6683836.76	2583066.117	\$660,000	\$ 800,000		
486	WAINUI ROAD (2503)	8339	22	6695548.413	2585070.868	\$660,000	\$ 800,000		
487	WAINUI ROAD (2503)	13087	10	667957.573	2587239.54	\$300,000	\$ 400,000		
488	WAINUI VALLEY ROAD (2504)	230	4	6686707.029	2588880.808	\$126,000	\$ 200,000		
489	WAINUI-MATAURI BAY ROAD (2505)	28	10	6666927.073	2588909.078	\$300,000	\$ 400,000		
490	WAINUI-MATAURI BAY ROAD (2505)	2066	8	6686056.047	2590192.495	\$240,000	\$ 300,000		
491	WAIOTEHUE ROAD (2509)	304	12	6663146.018	2541789.729	\$360,000	\$ 500,000		
492	WAIOTEHUE ROAD (2509)	6383	25	6664719.505	2538997.414	\$750,000	\$ 900,000		
493	WAIOTEHUE ROAD (2509)	9982	9	6663232.197	2538159.425	\$270,000	\$ 400,000		
494	WAIOTEHUE ROAD (2509)	11587	25	6662218.463	2538948.773	\$750,000	\$ 900,000		
495	WAIOTEMARAMA GORGE ROAD (2510)	1058	14	6633076.549	2549154.175	\$420,000	\$ 500,000		
496	WAIOTEMARAMA GORGE ROAD (2510)	1331	9	6632500.065	2549508.687	\$270,000	\$ 400,000		
497	WAIOTEMARAMA GORGE ROAD (2510)	2126	12	6629755.472	2550382.423	\$360,000	\$ 500,000		
498	WAIOTEMARAMA GORGE ROAD (2510)	6406	14			\$420,000	\$ 500,000		
499	WAITAPU CREEK ROAD (3340)	42	12			\$360,000	\$ 500,000		
500	WAKELIN ROAD (2520)	3921	3	6657335.394	2601777.01	\$94,500	\$ 200,000		
501	WALLACE ROAD (VIC VALLEY) (2602)	37	8	6675129.7	2548041.75	\$240,000	\$ 300,000		
502	WALLIS ROAD (2524)	896	12	6645942.516	2585315.515	\$360,000	\$ 500,000		
503	WEBER WAIHAPA ROAD (2532)	1666	4	6680825.782	2573521.364	\$126,000	\$ 200,000		
504	WEBER WAIHAPA ROAD (2532)	1985	2	6680472.742	2573800.872	\$63,000	\$ 100,000		
505	WEBER WAIHAPA ROAD (2532)	5350	2.0			\$63,000	\$ 100,000		
506	WEKAWEKA ROAD (2535)	972	55	6626465.772	2555624.182	\$1,650,000	\$ 2,000,000		
507	WEKAWEKA ROAD (2535)	2078	6	6626451.54	2556668.181	\$189,000	\$ 300,000		
508	WEKAWEKA ROAD (2535)	4034	13	6625408.098	2557860.797	\$390,000	\$ 500,000		
509	WEKAWEKA ROAD (2535)	7125	4	6625554.815	2560307.281	\$126,000	\$ 200,000		
510	WEKAWEKA ROAD (2535)	9130	12	6625552.864	2560320.722	\$360,000	\$ 500,000		
511	WEKAWEKA ROAD (2535)	14439	8	6625753.117	2565186.839	\$240,000	\$ 400,000		
512	WEKAWEKA ROAD (2535)	14439	8	6648673.495	2550929.204	\$1,740,000	\$ 2,100,000		
513	WEST COAST ROAD (KOHUKOHU) (2543)	12258	58	6646871.979	2545573.32	\$390,000	\$ 500,000		
514	WEST COAST ROAD (KOHUKOHU) (2543)	21552	13	6643712.616	2545498.496	\$1,110,000	\$ 1,400,000		
515	WEST COAST ROAD (KOHUKOHU) (2543)	25150	37	6642661.812	2543737.332	\$330,000	\$ 400,000		
516	WEST COAST ROAD (KOHUKOHU) (2543)	28637	11	6641770.265	2543155.507	\$330,000	\$ 400,000		
517	WEST COAST ROAD (KOHUKOHU) (2543)	29784	11	6640497.137	2522812.502	\$540,000	\$ 700,000		
518	WEST COAST ROAD (KOHUKOHU) (2543)	38534	18	6706907.15	2522812.502	\$420,000	\$ 500,000		
519	WALERS ROAD (2553)	679	14	6650864.808	2605879.736	\$540,000	\$ 700,000		
520	WHANGAE ROAD (2554)	3238	18	6650864.808	2605879.736	\$157,500	\$ 200,000		
521	WHANGAE ROAD (2554)	5253	5	6656814.96	2529607.59	\$270,000	\$ 400,000		
522	WHANGAPE ROAD (2555)	3254	9	6656700.322	2529628.054	\$240,000	\$ 300,000		
523	WHANGAPE ROAD (2555)	3379	8	6656700.322	2529628.054	\$240,000	\$ 300,000		
524	WHAREPUNGA ROAD (2563)	249	22	6631061.584	2578722.784	\$60,000	\$ 80,000		
525	WHAREPUNGA ROAD (2563)	829	16	6630842.832	2579267.37	\$60,000	\$ 80,000		
526	WHAREPUNGA ROAD (2563)	249	22	6630842.832	2579267.37	\$60,000	\$ 80,000		
527	WHAREPUNGA ROAD (2563)	247	10	6687655.471	2565867.978	\$300,000	\$ 400,000		
528	WIROA ROAD (2586)	7847	8	6652933.686	2588639.327	\$240,000	\$ 300,000		
529	WRECK BAY ROAD (2589)	532	9	6669116.615	2521795.294	\$270,000	\$ 400,000		
530	ZIDICH ROAD	10	1.8			\$56,700	\$ 100,000		
					TOTAL	\$237,360,900	\$ 304,000,000		

From: Ernst Zollner
Sent: Friday, 6 March 2015 2:54 p.m.
To: Matthew.Skinner@parliament.govt.nz
Cc: Geoff Dangerfield; Gail Wilson
Subject: Re: High Priority Request

Hi Matthew

Please find attached the expanded draft RLTP programme tables or spreadsheet, as requested.

These are the normal caveats:

1. Because we added information (column, row, cells) to sheets there are likely to now be errors in the underlying Regional Council spreadsheet; please treat 'sum' totals with care as we have not had a chance to QA the formulas
2. Please also treat all 'cost estimates' with some care; for example, cost estimates that relate to bridge replacements are just that – no detailed investigation or design has been undertaken.
3. Some projects still require resource consents and land acquisition, so the estimates for construction (or even certainty of construction) are best estimates only.

Please let me know if you need any additional information.

Regards

Ernst
021 2415308

RELEASED UNDER THE
OFFICIAL INFORMATION ACT

State Highway Improvements - Prioritised (includes New and Improved)

Org	Corridor	Project Name	Phase	Safety	Key benefits Efficiency	Resilience	Scheduled Start Date	Scheduled Duration (Months)	Project Cost Estimates (\$)					NZTA Funding Sought							
									15/16	16/17	17/18	2018/19	2019/20	2020/21	Project Costs	Funding Source	RTC Rating using NZTA system	NZTA Comment on rating	FAR	NZTA Share	Cum NZTA Total
NZTA	Whangarei	SH1 Corridor Improvements - Whangarei	Construction	y	y		2011/12	36	\$9,685,000	\$3,600,000	\$507,404				\$13,792,404	NLTF	n/a	Approved	100%	\$13,792,404	\$13,792,404
NZTA	Northland to Auckland	SH1N - Brynderwyn North Safe System Project	Construction	y	y	y	2015/16	24	\$7,500,000	\$8,000,000	\$750,000				\$16,250,000	NLTF	n/a	Approved	100%	\$16,250,000	\$30,042,404
NZTA	Bay of Islands to Whangarei	SH1 Akerama Curves Realignment & Passing Lane	Construction	y	y		2015/16	24	\$5,000,000	\$4,300,000	\$0				\$9,300,000	FIF	n/a	Approved	100%	\$9,300,000	\$39,342,404
NZTA	Northland to Auckland	NRRS - Whangarei to Brynderwyns	Investigation, Design & Construction	y			2015/16	24		\$250,000					\$250,000	NLTF	n/a	Part of national programme - will proceed	100%	\$250,000	\$39,592,404
NZTA	Northland to Auckland	NRRS - SH12 to Wellsford	Investigation, Design & Construction	y			2015/16	24		\$250,000					\$250,000	NLTF	n/a	Part of national programme - will proceed	100%	\$250,000	\$39,842,404
NZTA	SH11	NRRS - SH11 Airfield to Lillypond		y			2015/16	24	\$125,000	\$1,250,000					\$1,375,000	NLTF	n/a	Part of national programme - will proceed	100%	\$1,375,000	\$41,217,404
NZTA	SH12	NRRS - Dargaville to Tokatoka	Design & Construction	y			2015/16	12	\$330,000						\$330,000	NLTF	n/a	Part of national programme - will proceed	100%	\$330,000	\$41,547,404
NZTA	Bay of Islands to Whangarei	NRRS - SH1 Ohaeawai to Whangarei	Investigation, Design & Construction	y	y	y	2015/16	48	\$590,000	\$1,000,000	\$2,000,000	\$6,900,000	\$18,000,000		\$28,490,000	NLTF	n/a	Part of national programme - will proceed	100%	\$28,490,000	\$70,037,404
NZTA	Northland to Auckland	SH1 Springfield to Mata Median Barrier	Investigation	y			2015/16	36	\$200,000	\$57,333	\$10,108,292				\$10,365,625	NLTF	2		100%	\$10,365,625	\$80,403,029
NZTA	Network-wide	Enhanced Network Resilience - Preventative, stormwater, strengthening alternative routes	Various			y	2015/16	36	\$4,000,000	\$6,000,000	\$5,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$18,000,000	NLTF	2		100%	\$18,000,000	\$98,403,029
NZTA	Northland to Auckland	SH1N Loop Rd to Smeatons Hill SI	Construction	y	y	y	2018/19	36	\$500,000	\$8,590,000	\$6,500,000				\$15,590,000	FIF	3		100%	\$15,590,000	\$113,993,029
NZTA	SH10 Kerikeri	Waipapa Roundabout	Investigation & Design	y	y		2015/16	24	\$131,000	\$2,000,000					\$2,131,000	NLTF	3		100%	\$2,131,000	\$116,124,029
NZTA	SH10 Kerikeri	Puketona Roundabout	Design & Construction	y			2017/18	24			\$500,000	\$3,500,000			\$4,000,000	NLTF	3		100%	\$4,000,000	\$120,124,029
NZTA	Bay of Islands to Whangarei	Puketona SH11 Intersection Improvements	Investigation, Design & Construction	y			2015/16	24				\$0	\$1,895,000	\$1,895,000	\$3,745,000	NLTF	3		100%	\$3,745,000	\$123,869,029
NZTA	SH14	Hospital Rd/SH14	Design & Construction	y	y		2015/16	12		\$4,000,000					\$4,000,000	tbc	4	May be lower or higher as business case is	50%	\$2,000,000	\$125,869,029
NZTA	SH10 Coopers Beach	Kaeo Bridge replacement (2 laning)	Investigation, Design & Construction	y	y	y	2019/20	12			\$6,900,000				\$7,000,000	NLTF	4		100%	\$7,000,000	\$132,869,029
NZTA	Bay of Islands to Whangarei	SH1/10 Pakaraka intersection	Investigation, Design & Construction	y			2018/19	12				\$3,300,000			\$3,300,000	NLTF	4		100%	\$3,300,000	\$136,169,029
NZTA	Bay of Islands to Whangarei	Waiotu North NB	Investigation, Design & Construction	y	y	y	2018/19	24				\$440,000	\$2,000,000	\$3,600,000	\$6,040,000	NLTF	4		100%	\$6,040,000	\$142,209,029
NZTA	Bay of Islands to Whangarei	SH1 Snake Hill Realignment	Investigation, Design & Construction	y	y	y	2018/19	36				\$715,000	\$5,637,000	\$4,000,000	\$10,352,000	NLTF	5	May rate higher when considered as a corridor and efficiency benefits realised	100%	\$10,352,000	\$152,561,029
NZTA	Northland to Auckland	SH15A/McCathie Rd/One Tree Point Rd Intersection Upgrades	Investigation, Design & Construction				2018/19	12				\$325,000	\$0	\$0	\$325,000	NLTF	5	May rate lower if development timing is not critical	100%	\$325,000	\$152,886,029
NZTA	SH12	Matakohe Bridges - 2 laning and road realignment	Design & Construction	y	y			36	\$200,000		\$19,000,000				\$19,200,000	NLTF	7	May rate higher if Do Min and Tourism factors are considered	100%	\$19,200,000	\$172,086,029
NZTA	SH10 Coopers Beach	Taipa Bridge replacement (2 laning)	Investigation, Design & Construction	y	y	y	2019/20	12			\$13,000,000		\$2,600,000		\$15,500,000	NLTF	7	May be higher as business case is still being developed	100%	\$15,500,000	\$187,586,029
NZTA	SH13	SH12 Wallis Road SW	Investigation			y	2015/16	12	\$90,000	\$0	\$0				\$90,000	NLTF	10	May rate higher as part of a package	100%	\$90,000	\$187,676,029
NZTA	Bay of Islands to Whangarei	Saleyards Intersection Improvements	Investigation, Design & Construction	y			2019/20	12				\$250,000	\$250,000	\$3,500,000	\$4,000,000	NLTF	10	May rate higher when considered as a corridor and efficiency benefits realised	100%	\$4,000,000	\$191,676,029
NZTA	Inland Freight Route	Stormwater, intersections and safety improvements	Investigation, Design & Construction	y	y	y	2017/18	36			\$2,000,000	\$3,000,000	\$2,000,000		\$7,000,000	NLTF	tbc	Still in development, scope not yet certain	100%	\$7,000,000	\$198,676,029
NZTA	SH10 Coopers Beach	Safety improvements	Investigation, Design & Construction	y			2016/17	12		\$100,000					\$100,000	NLTF	tbc	Still in development, scope not yet certain	100%	\$100,000	\$198,776,029
		Total							\$11,166,000	\$27,797,333	\$65,008,292	\$19,430,000	\$33,237,000	\$13,995,000	\$84,652,000				100%	\$198,776,029	

Other smaller improvements, part of broader packages

NZTA	Minor improvements 2015/2018	State Highways					2015/16	36	\$2,188,696	\$2,323,603	\$2,478,810				\$6,970,809				100%	\$6,970,809	N/A
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RELEASED UNDER OFFICIAL INFORMATION ACT

Local Road Improvements - Prioritised (includes New and Improved)

Org	Project Name	Comments	Phase	Safety	Efficiency	Resilience	Scheduled Start Date	Scheduled Duration (Months)	Project Cost Estimates (\$)			NZTA Funding Sought				RTC Rating	NZTA comment on rating
									15/16	16/17	17/18	Project Costs	FAR	NZTA Share	Cum NZTA Total		
WDC	Mill Rd/Nixon St Upgrade	Committed project	Construction				2015/16	12	\$3,550,000	\$0	\$0	\$3,550,000	61%	\$2,165,500	\$2,165,500	Approved	
FNDC	Bridge Replacements 2015-2022	Programme to be developed for year 2 of 215-18.	Construction			Y	2016/17	24	\$0	\$1,000,000	\$1,000,000	\$2,000,000	60%	\$1,200,000	\$3,365,500	2	Bridge upgrades are supported
WDC	HPMV Bridge Upgrades	Pavement issues make 50MAX a better option. Not critical for 2015-18. WDC are happy to resolve pavement issues first.	Construction				2015/16	24	\$1,273,286	\$1,327,159	\$0	\$2,600,445	100%	\$2,600,445	\$5,965,945	2	Unlikely to proceed 2015-18 due to pavement issues.
WDC	Old Tokatoka Road Bridge 150 Upgrade	Replacement of an old timber rail overbridge that has a current weight restriction	Construction			Y	2016/17	12	\$0	\$457,200	\$0	\$457,200	53%	\$242,316	\$6,208,261	2	Agreed rating
WDC	Thompson Rd Bridge 129 Upgrade	Upgrade and strengthening of an old timber rail overbridge that has a current weight restriction	Construction		Y		2015/16	12	\$401,600	\$0	\$0	\$401,600	53%	\$212,848	\$6,421,109	2	Agreed rating
FNDC	Dust Mitigation Programme 2015/18 (Regional Improvement)	Dust Issue with High logging traffic	Construction				2015/16	36	\$1,200,000	\$1,200,000	\$1,200,000	\$3,600,000	60%	\$2,160,000	\$8,581,109	3	Not yet agreed
WDC	House Frontage Sealing on Heavy Vehicle Routes (Regional Improvement)	Dust Issue with High logging traffic	Construction				2015/16	36	\$464,168	\$459,722	\$466,057	\$1,389,947	53%	\$736,672	\$9,317,781	3	Not yet agreed
WDC	Maunu Road/Porowini Ave Intersection Improvements	Whg Transportation Ring Road Improvements	Construction		Y		2016/17	12	\$0	\$508,000	\$0	\$508,000	53%	\$269,240	\$9,587,021	5	Agreed rating
WDC	Riverside Dr/Dave Culham Dr Intersection Improvements	Whg Transportation Ring Road Improvements	Construction		Y		2017/18	12	\$0	\$0	\$515,000	\$515,000	53%	\$272,950	\$9,859,971	5	Agreed rating
WDC	Tarewa Rd/Porowini Ave Intersection Improvements	Whg Transportation Ring Road Improvements	Construction			Y	2015/16	12	\$502,000	\$0	\$0	\$502,000	53%	\$266,060	\$10,126,031	5	Agreed rating
FNDC	Diggers Valley Seal Extension (Regional Improvement)	Dust Issue with High logging traffic	Construction				2015/16	24	\$1,200,000	\$1,200,000	\$0	\$2,400,000	60%	\$1,440,000	\$11,566,031	6	Not yet agreed
FNDC	Klinac Lane Extension 2015/18 (Regional Improvement)	This project is to be completed with Waipapa Roundabout SH10 project.	Construction		Y		2015/16	12	\$500,000	\$0	\$0	\$500,000	60%	\$300,000	\$11,866,031	6	Agreed rating
FNDC	Picadilly Road Seal Extension (Regional Improvement)	Dust Issue with High logging traffic	Construction				2015/16	12	\$2,000,000	\$0	\$0	\$2,000,000	100%	\$2,000,000	\$13,866,031	6	Not yet agreed
FNDC	Piawai Road Seal Extension (Regional Improvement)	Dust Issue with High logging traffic	Construction				2015/16	12	\$1,200,000	\$1,200,000	\$0	\$2,400,000	60%	\$1,440,000	\$15,306,031	6	Not yet agreed
WDC	Wright Rd/McCardle Road Seal Extension 2015/18 (Regional Improvement)	Dust Issue with High logging traffic	Construction				2015/18	36	\$1,500,000	\$1,524,000	\$1,545,000	\$4,569,000	100%	\$4,569,000	\$19,875,031	6	To be determined

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	Project Cost	NZTA Share	Local Share
Projects with Funding Approved			
Far North District Council	\$0	\$0	\$0
Kaipara District Council	\$0	\$0	\$0
Waitangi	\$0	\$0	\$0
Whangarei District Council	\$3,550,000	\$2,165,500	\$1,384,500
Total	\$3,550,000	\$2,165,500	\$1,384,500
Projects Requiring Funding Approval			
Far North District Council	\$10,449,192	\$7,152,281	\$3,296,911
Kaipara District Council	\$0	\$0	\$0
Waitangi	\$0	\$0	\$0
Whangarei District Council	\$13,394,000	\$10,557,250	\$2,836,750
Total	\$23,843,192	\$17,709,531	\$6,133,661
Projects Scheduled to Carry over Funding			
Far North District Council	#REF!	#REF!	#REF!
Kaipara District Council	\$0	\$0	\$0
Waitangi	\$0	\$0	\$0
Whangarei District Council	\$0	\$0	\$0
Total	#REF!	#REF!	#REF!



Total Anticipated Expenditure for Northland for the Period 2015 to 2018

Activity Class	Total Anticipated Expenditure						
	Far North District Council	Kaipara District Council	Whangarei District Council	Northland Regional Council	NZ Transport Agency	Waitangi	Northland Region
State Highway Improvements	N/A	N/A	N/A	N/A	#REF!	N/A	#REF!
State Highway Maintenance	N/A	N/A	N/A	N/A	\$119,266,070	N/A	\$119,266,070
State Highway Minor Improvements	N/A	N/A	N/A	N/A	\$6,970,809	N/A	\$6,970,809
Local Road Improvements	\$10,449,192	\$0	\$16,944,000	N/A	N/A	\$0	\$27,393,192
Local Road Maintenance	\$82,168,805	\$43,169,350	\$80,251,309	N/A	N/A	\$69,100	\$205,658,564
Local Road Minor Improvements	\$9,600,000	\$6,629,000	\$6,972,209	N/A	N/A	\$0	\$23,201,209
Public Transport	\$0	\$0	\$0	\$7,857,702	N/A	\$0	\$7,857,702
Walking and Cycling	\$4,750,000	\$3,124,350	#REF!	N/A	#REF!	#REF!	#REF!
Road Safety Promotion	\$3,192,252	\$375,000	\$1,003,000	\$443,397	\$0	\$0	\$5,013,649
Investment Management	\$1,050,000	\$250,000	\$269,502	\$506,396	\$1,750,000	\$0	\$3,825,898
Rail and Sea Freight	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Domestic Sea Freight Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total of Activities	\$111,210,249	\$53,547,700	#REF!	\$8,807,495	#REF!	#REF!	#REF!

Total Anticipated Expenditure for Northland for the Period 2018 - 2021

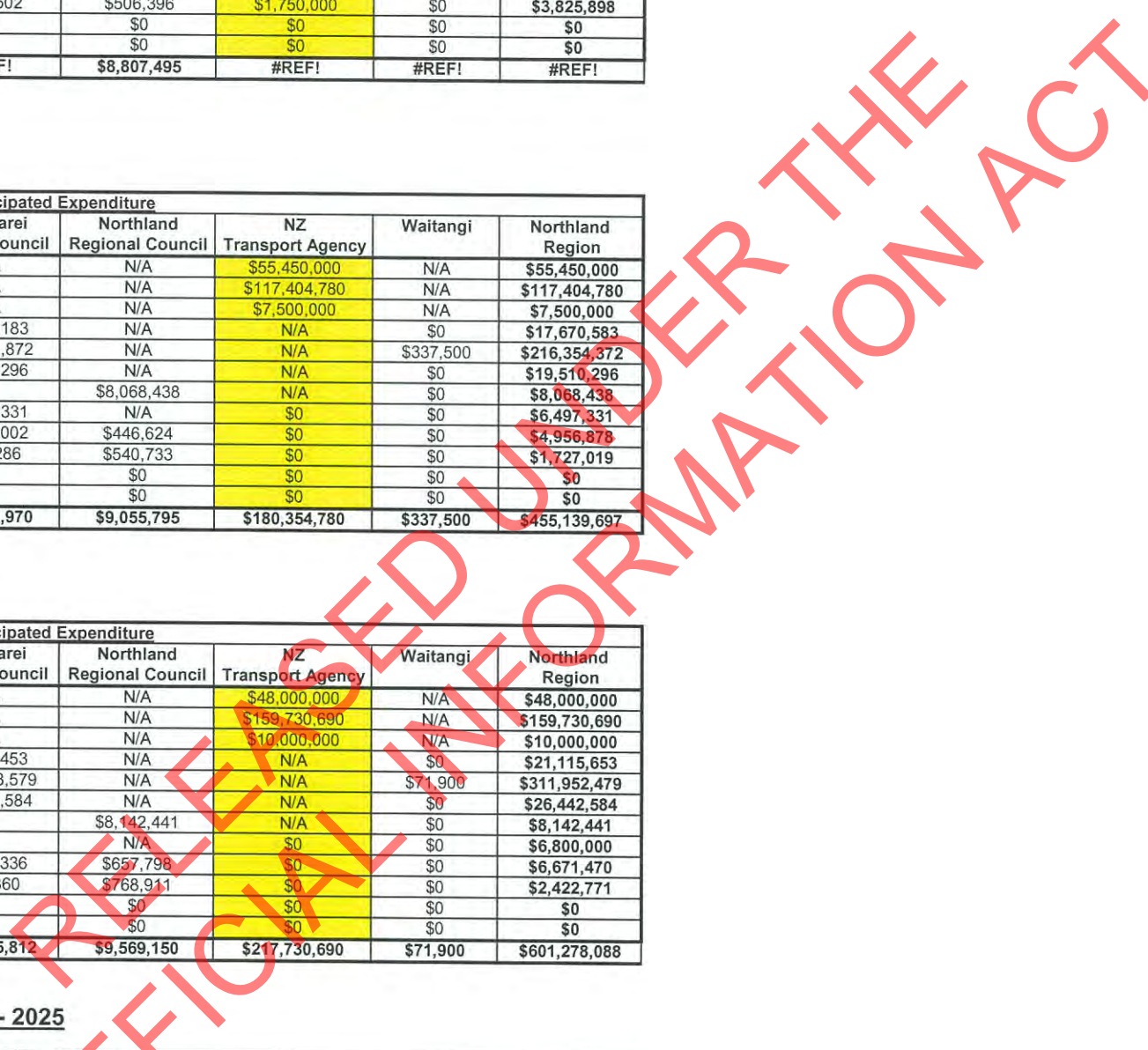
Activity Class	Total Anticipated Expenditure						
	Far North District Council	Kaipara District Council	Whangarei District Council	Northland Regional Council	NZ Transport Agency	Waitangi	Northland Region
State Highway Improvements	N/A	N/A	N/A	N/A	\$55,450,000	N/A	\$55,450,000
State Highway Maintenance	N/A	N/A	N/A	N/A	\$117,404,780	N/A	\$117,404,780
State Highway Minor Improvements	N/A	N/A	N/A	N/A	\$7,500,000	N/A	\$7,500,000
Local Road Improvements	\$9,800,000	\$2,462,400	\$5,408,183	N/A	N/A	\$0	\$17,670,583
Local Road Maintenance	\$88,875,000	\$45,630,000	\$81,511,872	N/A	N/A	\$337,500	\$216,354,372
Local Road Minor Improvements	\$7,500,000	\$4,149,000	\$7,861,296	N/A	N/A	\$0	\$19,510,296
Public Transport	\$0	\$0	\$0	\$8,068,438	N/A	\$0	\$8,068,438
Walking and Cycling	\$5,100,000	\$0	\$1,397,331	N/A	\$0	\$0	\$6,497,331
Road Safety Promotion	\$3,192,252	\$315,000	\$1,003,002	\$446,624	\$0	\$0	\$4,956,878
Investment Management	\$750,000	\$150,000	\$286,286	\$540,733	\$0	\$0	\$1,727,019
Rail and Sea Freight	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Domestic Sea Freight Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total of Activities	\$115,217,252	\$52,706,400	\$97,467,970	\$9,055,795	\$180,354,780	\$337,500	\$455,139,697

Total Anticipated Expenditure for Northland for the Period 2021 - 2025

Activity Class	Total Anticipated Expenditure						
	Far North District Council	Kaipara District Council	Whangarei District Council	Northland Regional Council	NZ Transport Agency	Waitangi	Northland Region
State Highway Improvements	N/A	N/A	N/A	N/A	\$48,000,000	N/A	\$48,000,000
State Highway Maintenance	N/A	N/A	N/A	N/A	\$159,730,690	N/A	\$159,730,690
State Highway Minor Improvements	N/A	N/A	N/A	N/A	\$10,000,000	N/A	\$10,000,000
Local Road Improvements	\$12,000,000	\$3,283,200	\$5,832,453	N/A	N/A	\$0	\$21,115,653
Local Road Maintenance	\$131,382,000	\$60,840,000	\$119,658,579	N/A	N/A	\$71,900	\$311,952,479
Local Road Minor Improvements	\$10,000,000	\$4,149,000	\$12,293,584	N/A	N/A	\$0	\$26,442,584
Public Transport	\$0	\$0	\$0	\$8,142,441	N/A	\$0	\$8,142,441
Walking and Cycling	\$6,800,000	\$0	\$0	N/A	\$0	\$0	\$6,800,000
Road Safety Promotion	\$4,256,336	\$420,000	\$1,337,336	\$657,798	\$0	\$0	\$6,671,470
Investment Management	\$1,000,000	\$200,000	\$453,860	\$768,911	\$0	\$0	\$2,422,771
Rail and Sea Freight	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Domestic Sea Freight Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total of Activities	\$165,438,336	\$68,892,200	\$139,575,812	\$9,569,150	\$217,730,690	\$71,900	\$601,278,088

Total Anticipated Expenditure for Northland for the 10-Year Period 2015 - 2025

Activity Class	Total Anticipated Expenditure						
	Far North District Council	Kaipara District Council	Whangarei District Council	Northland Regional Council	NZ Transport Agency	Waitangi	Northland Region
State Highway Improvements	N/A	N/A	N/A	N/A	#REF!	N/A	#REF!
State Highway Maintenance	N/A	N/A	N/A	N/A	\$396,401,540	N/A	\$396,401,540
State Highway Minor Improvements	N/A	N/A	N/A	N/A	\$24,470,809	N/A	\$24,470,809
Local Road Improvements	\$32,249,192	\$5,745,600	\$28,184,636	N/A	N/A	\$0	\$66,179,428
Local Road Maintenance	\$302,425,805	\$149,639,350	\$281,421,760	N/A	N/A	\$478,500	\$733,965,415
Local Road Minor Improvements	\$27,100,000	\$14,927,000	\$27,127,089	N/A	N/A	\$0	\$69,154,089
Public Transport	\$0	\$0	\$0	\$24,068,581	N/A	\$0	\$24,068,581
Walking and Cycling	\$16,650,000	\$3,124,350	#REF!	N/A	#REF!	#REF!	#REF!
Road Safety Promotion	\$10,640,840	\$1,110,000	\$3,343,338	\$1,547,819	\$0	\$0	\$16,641,997
Investment Management	\$2,800,000	\$600,000	\$1,009,648	\$1,816,040	\$1,750,000	\$0	\$7,975,688
Rail and Sea Freight	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Domestic Sea Freight Development	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total of Activities	\$391,865,837	\$175,146,300	#REF!	\$27,432,440	#REF!	#REF!	#REF!



SH12 MATAKOHE IMPROVEMENTS

PFR ADDENDUM



Prepared for

New Zealand Transport Agency
Contract Number PA3163



NZ TRANSPORT AGENCY
WAKA KOTAHU

December 2008

42124313/R002

SP3 General road improvements

Evaluation Summary

Worksheet 1

1	Evaluator(s)	<u>Maria Goff</u>		
	Reviewer(s)	<u>Dyblakure 18/12/08</u>		
2	Project/package details			
	Approved organisation name	<u>NZTA</u>		
	Project/package name	<u>SH 12 Matakohi Stage 1 & 2 Combined</u>		
	Your reference	<u>PDM</u>		
	Project description	<u>Gross realignment and replacement of Andersons single lane Bridge and Hardys Bridge</u>		
	Describe the problem to be addressed	<u>Slow difficult section highway with two single lane bridges and accident history</u>		
3	Location			
	Brief description of location	<u>Northland</u>		
4	Alternatives and options			
	Describe the do minimum	<u>Maintain current asset</u>		
	Summarise the options assessed	Option name	<u>New option 3-Stage 1&2</u>	
		Description	<u>Gross realignment and replacement of Andersons single lane Bridge and Hardys Bridge</u>	
5	Timing			
	Time zero (assumed construction start date)	<u>1/07/2008</u>		
	Expected duration of construction (months)	<u>12</u>		
6	Economic efficiency			
	Date economic evaluation completed	<u>17/12/2008</u>		
	Base date for costs and benefits	<u>1/07/2008</u>		
	Discount rate (%)	<u>8.0</u>		
	Analysis period (years)	<u>30</u>		
	AADT at time zero	<u>1,895.0</u>	<u>User defined traffic mix</u>	
	Traffic growth rate at time zero (%)	<u>1.40</u>		
	Existing roughness	<u>4.12</u> IRI	Existing traffic speed	<u>62</u> km/h
	Predicted roughness	<u>2.65</u> IRI	Predicted traffic speed	<u>100</u> km/h
	Length of road before works	<u>3.350</u> km		
	Length of road after works	<u>2.360</u> km		
7	PV cost of do minimum		<u>\$530,793</u>	A
8	PV cost of the preferred option		<u>\$15,627,176</u>	B
9	Benefit values from worksheet 4, 5 and 6			
	PV travel time cost savings	<u>\$6,327,372</u>	$C \times \text{Update factor}^{nc}$	<u>1.19</u> = <u>\$7,529,573</u> W
	PV VOC and CO2 savings	<u>\$5,707,852</u>	$D \times \text{Update factor}^{vc}$	<u>1.00</u> = <u>\$5,707,852</u> Y
	PV accident cost savings	<u>\$7,075,848</u>	$E \times \text{Update factor}^{ac}$	<u>1.09</u> = <u>\$7,712,674</u> Z
10	BCRN =	$\frac{\text{PV net benefits}}{\text{PV net costs}} = \frac{W + Y + Z}{B - A} = \frac{\$20,950,099}{\$15,096,383} =$		1.4
11	FYRR =	$\frac{\text{PV 1st year benefits}}{\text{PV net costs}} = \frac{[(W+Y)/DF(voc) + Z/DF(ac)] \times 0.93}{B - A} =$		10%

PFR: Project feasibility report

Preliminary evaluation

PFR

1	Evaluator(s)	<u>Marla Goff</u>		
	Reviewer(s)	<u></u>		
	Approved organisation name	<u>NZTA</u>		
	Project/package name	<u>SH 12 Matakohi Stage 1 & 2 Combined</u>		
	Your reference	<u>PDM</u>		
	Project description	<u>Gross realignment and replacement of Andersons single lane Bridge and Hardys Bridge</u>		
	Describe the problem to be addressed	<u>Slow difficult section highway with two single lane bridges and accident history</u>		
	Brief description of location	<u>Northland</u>		
	Describe the do minimum	<u>Maintain current asset</u>		
	Summarise the options assessed	Option name	<u>New option 3-Stage 1&2</u>	
		Description	<u>Gross realignment and replacement of Andersons single lane Bridge and Hardys Bridge</u>	
2	Time zero (assumed construction start date)	<u>1/07/2008</u>		
	Expected duration of construction (months)	<u>12</u>		
	Date economic evaluation completed	<u>17/12/2008</u>		
	Base date for costs and benefits	<u>1/07/2008</u>		
	Discount rate (%)	<u>8.0</u>		
	Analysis period (years)	<u>30</u>		
	Road type	<u>Rural Other</u>		
	Travel time cost (TT) - from table 1	<u>\$24.40</u>	Posted speed limit	<u>100km/h rem</u>
	AADT at time zero	<u>1,895.0</u>		

Variable	Do minimum (M)		Option (P)		
	A		B		
PV cost		\$530,793		\$15,627,176	
Length	LM	3.350	LP	2.360	km
Mean vehicle speed	MSM	62	MSP	100	km/h
Base cost (CB)	CBM	49.02¢	CBP	46.36¢	¢/km
Average roughness (IRI or NAARSA counts)		4.12 /108		2.65 /69	
Roughness cost (CR)	CRM	3.73¢	CRP	0.14¢	¢/km
Average vehicle speed (VS)	VSM	62	VSP	100	km/h
Annual maintenance costs (MC)	MCM	\$29,700	MCP	\$10,660	\$/yr

3	Results					
	PV travel time cost savings	<u>\$6,327,372</u>	C × Update factor ^{TTC}	<u>1.19</u>	=	<u>\$7,529,573</u> W
	VOC and CO2 savings	<u>\$5,707,852</u>	D × Update factor ^{VOC}	<u>1.00</u>	=	<u>\$5,707,852</u> Y
	PV Accident cost savings	<u>\$7,075,848</u>	E × Update Factor ^{AC}	<u>1.09</u>	=	<u>\$7,712,674</u> Z

PFR: Project feasibility report

Preliminary evaluation		PFR
4 Benefits	=	<u>\$20,950,099</u>
Costs	=	<u>\$15,096,383</u>
BCR	=	<u>1.4</u>

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OFFICIAL INFORMATION ACT