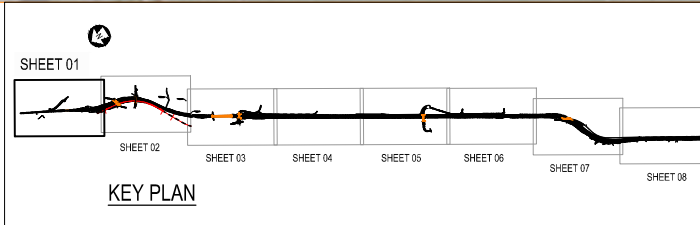
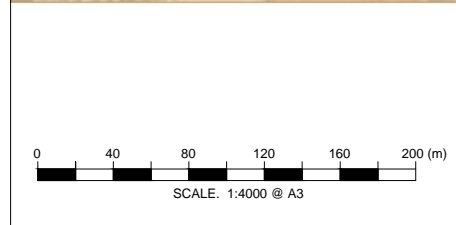


Legend			
	Fan deposits		Trial pit location
	Interdune deposits		Dynamic cone penetration test location
	Recent alluvium		Cone penetration test location
	Sand dunes		Cone penetration test location with standpipe piezometers
	Terrace alluvium		Borehole location
	Old beach and dune deposits		Borehole location with standpipe piezometers
			Active fault
			Proposed expressway
			Consented water takes
			Bore location
			Proposed groundwater take location

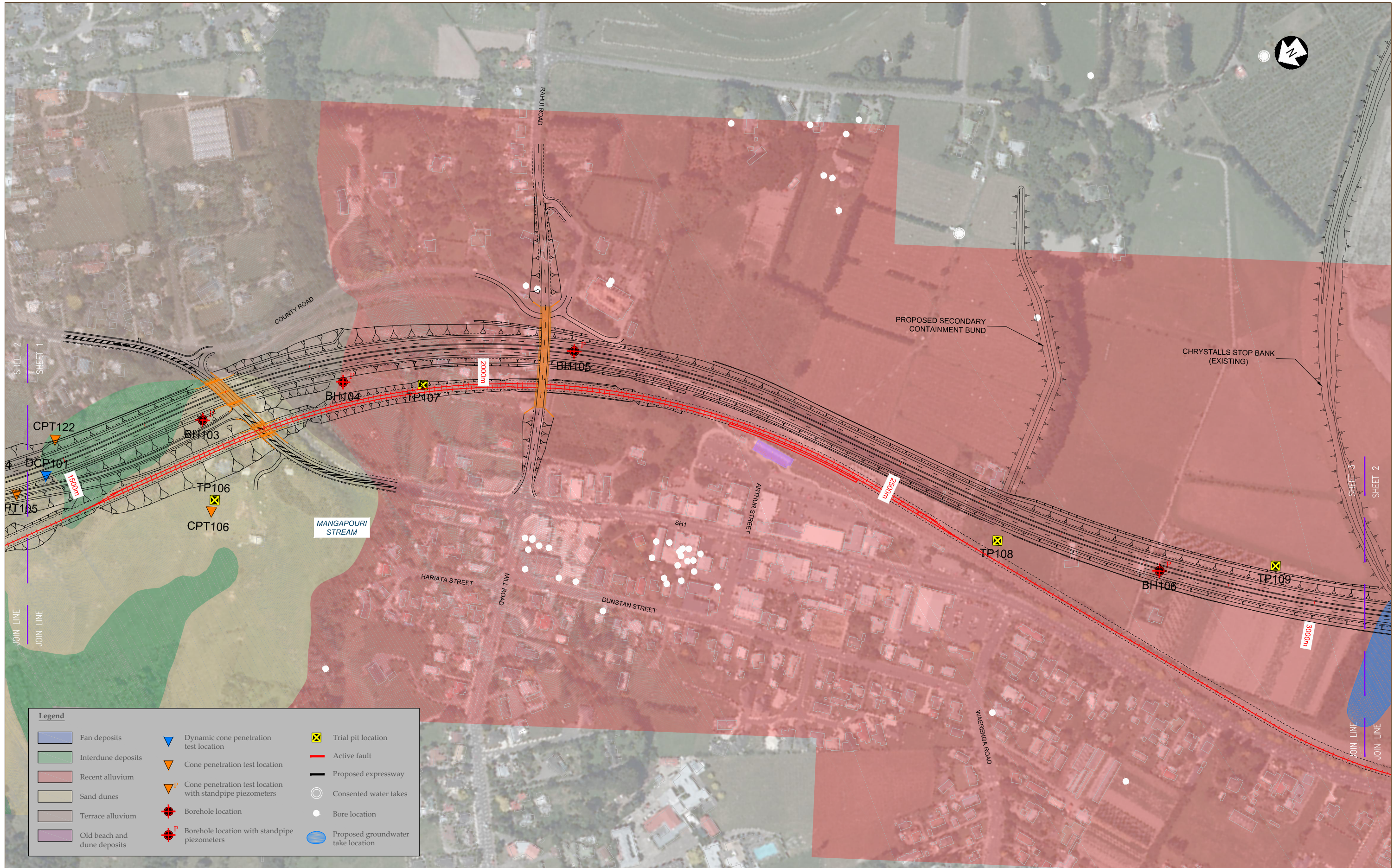


Revision	Amendment	Approved	Revision Date
R1	ISSUED FOR CONSENT	A.N.	MAR 2013

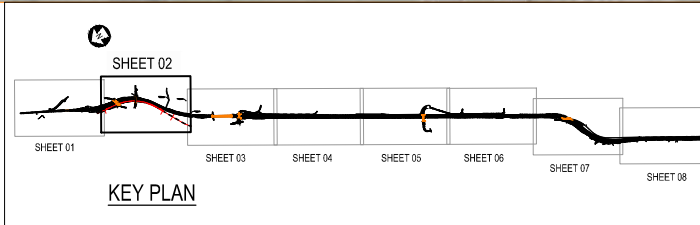
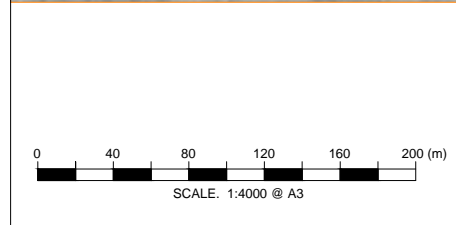


Drawn	Designed	Approved	Revision Date
L.H.		T.COULMAN	03/2013
Project No.	Scale		Sheet No.
5C1814.00	1:2000(A1), 1:4000(A3)		G101

Project	
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Sheet	
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Legend			
	Fan deposits		Trial pit location
	Interdune deposits		Dynamic cone penetration test location
	Recent alluvium		Cone penetration test location
	Sand dunes		Cone penetration test location with standpipe piezometers
	Terrace alluvium		Borehole location
	Old beach and dune deposits		Borehole location with standpipe piezometers
			Active fault
			Proposed expressway
			Consented water takes
			Bore location
			Proposed groundwater take location

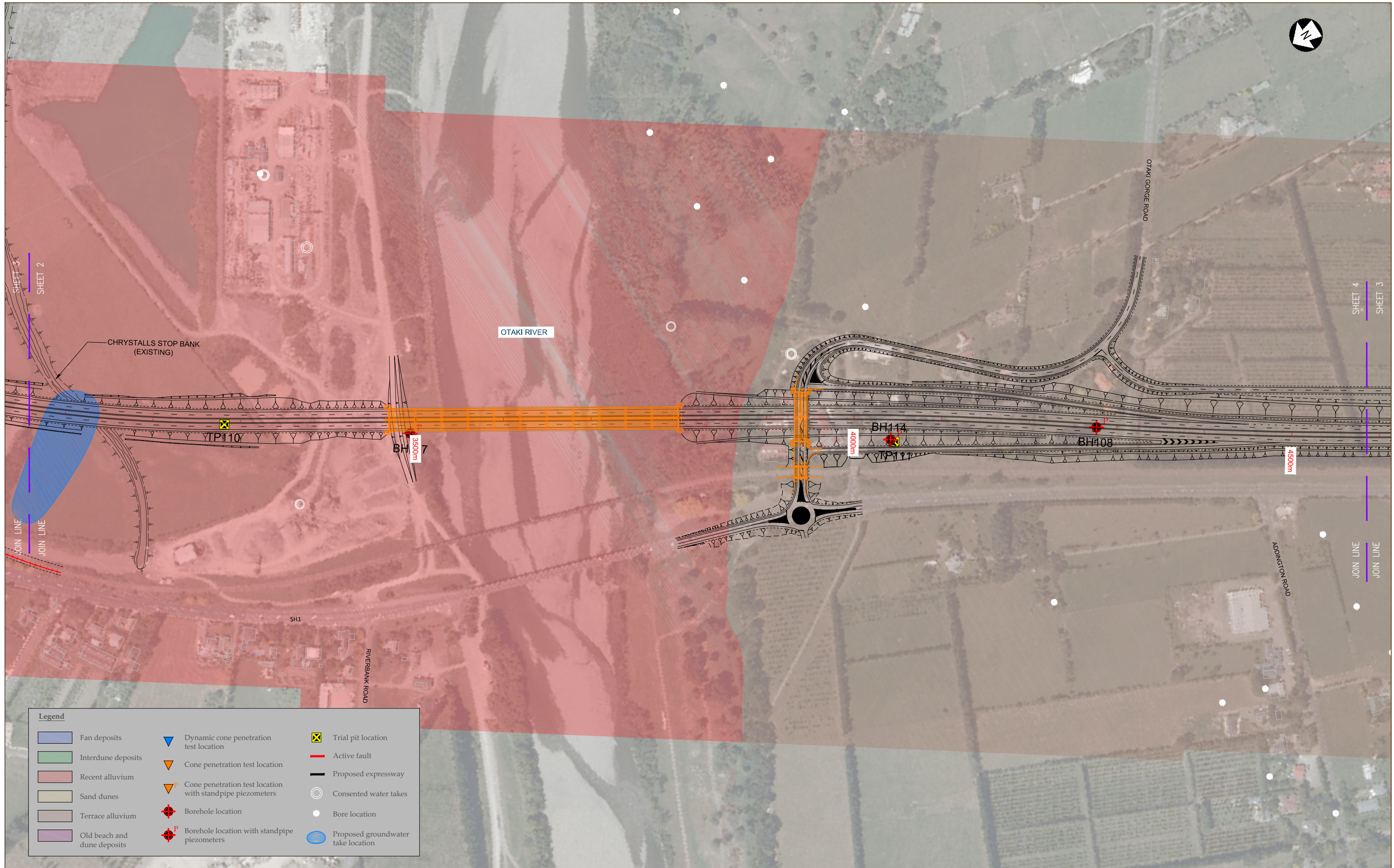


Revision	Amendment	Approved	Revision Date
R1	ISSUED FOR CONSENT	A.N.	MAR 2013

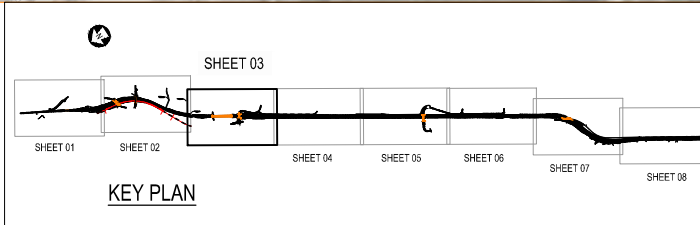
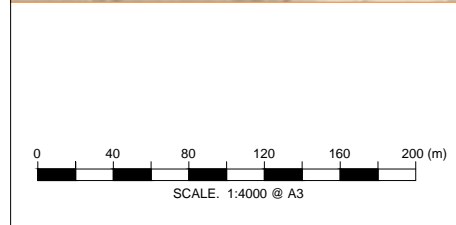


Drawn	Designed	Approved	Revision Date
L.H.		T.COULMAN	03/2013
Project No.	Scale	Drawing No.	
5C1814.00	1:2000(A1), 1:4000(A3)	5/2664/1/6504	

Project	
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY FOR CONSENTING	
Sheet	
ENGINEERING GEOLOGICAL MAP 2 OF 8	
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G102	R1



Legend			
	Fan deposits		Trial pit location
	Interdune deposits		Active fault
	Recent alluvium		Proposed expressway
	Sand dunes		Consented water takes
	Terrace alluvium		Bore location
	Old beach and dune deposits		Borehole location with standpipe piezometers
	Dynamic cone penetration test location		Proposed groundwater take location
	Cone penetration test location		
	Cone penetration test location with standpipe piezometers		



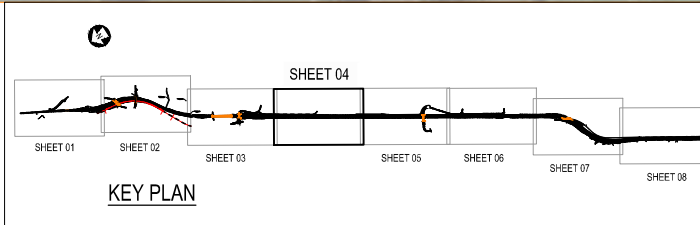
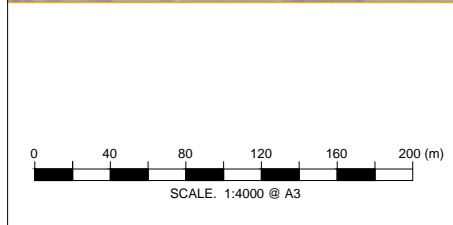
Revision	Amendment	Approved	Revision Date
R1	ISSUED FOR CONSENT	A.N.	MAR 2013



Drawn	Designed	Approved	Revision Date	Project	
L.H.	.	T.COULMAN	03/2013	NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY FOR CONSENTING	
Project No.			Scale	Drawing No.	
5C1814.00			1:2000(A1), 1:4000(A3)	5/2664/1/6504	
Sheet				Sheet No.	Revision
ENGINEERING GEOLOGICAL MAP 3 OF 8				GI03	R1



Legend			
	Fan deposits		Trial pit location
	Interdune deposits		Dynamic cone penetration test location
	Recent alluvium		Cone penetration test location
	Sand dunes		Cone penetration test location with standpipe piezometers
	Terrace alluvium		Borehole location
	Old beach and dune deposits		Borehole location with standpipe piezometers
			Active fault
			Proposed expressway
			Consented water takes
			Bore location
			Proposed groundwater take location

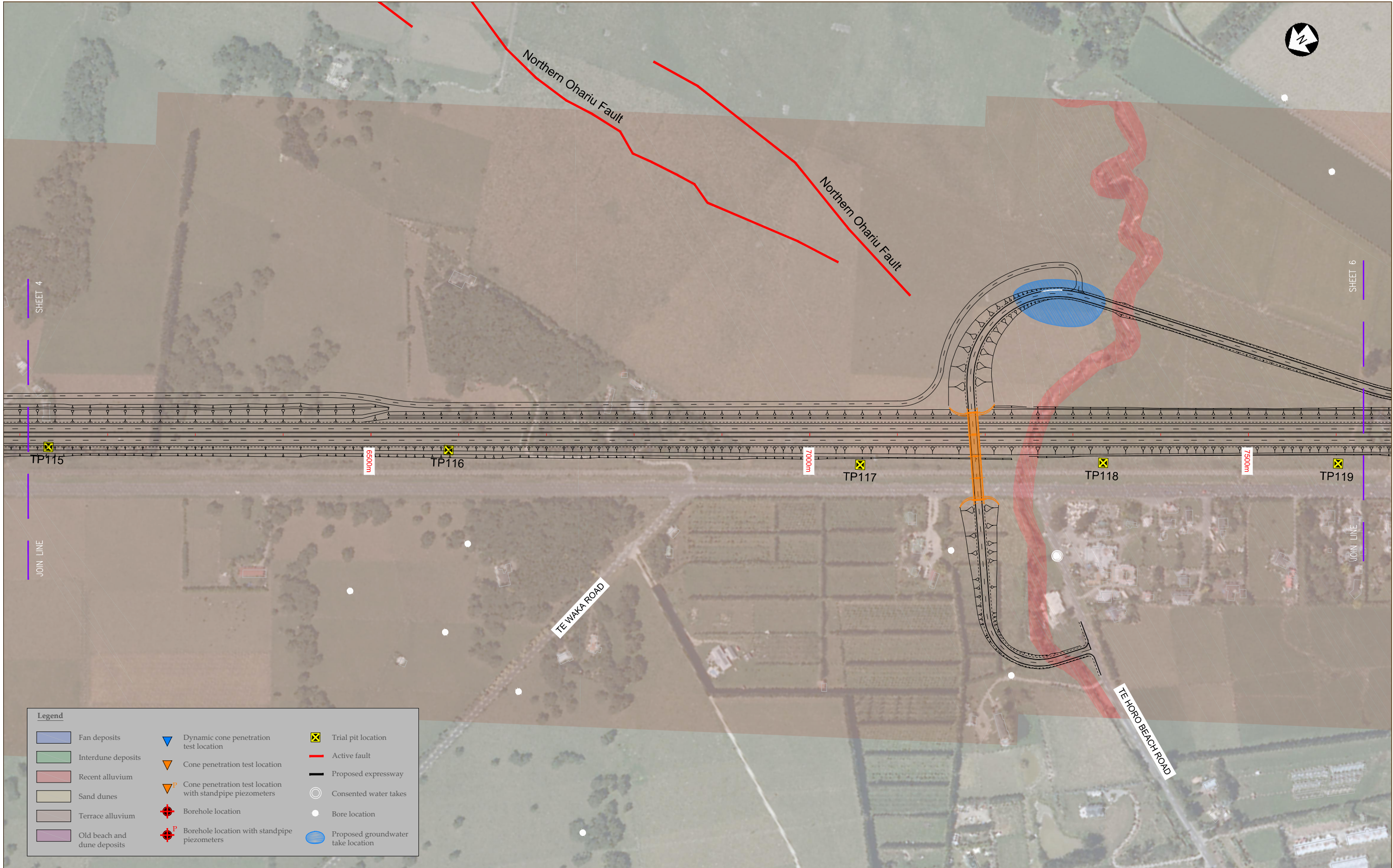


Revision	Amendment	Approved	Revision Date
R1	ISSUED FOR CONSENT	A.N.	MAR 2013

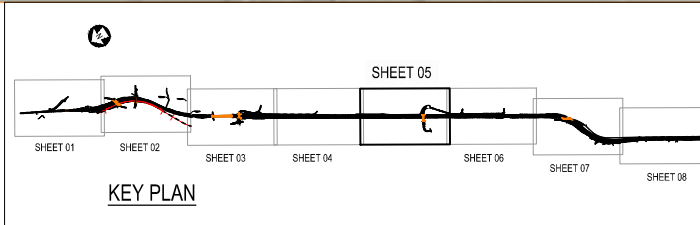
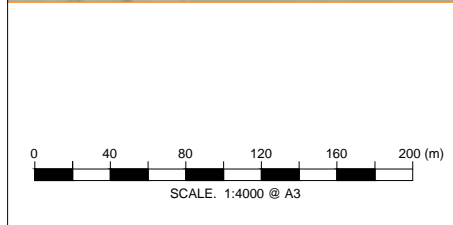


Drawn	Designed	Approved
L.H.		T.COULMAN
Project No.	Scale	Revision Date
5C1814.00	1:2000(A1), 1:4000(A3)	03/2013

Project	
NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY FOR CONSENTING	
Sheet	
ENGINEERING GEOLOGICAL MAP 4 OF 8	
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5/2664/1/6504	GI04 R1



Legend		
	Fan deposits	
	Interdune deposits	
	Recent alluvium	
	Sand dunes	
	Terrace alluvium	
	Old beach and dune deposits	
	Dynamic cone penetration test location	
	Cone penetration test location	
	Cone penetration test location with standpipe piezometers	
	Borehole location	
	Borehole location with standpipe piezometers	
	Trial pit location	
	Active fault	
	Proposed expressway	
	Consented water takes	
	Bore location	
	Proposed groundwater take location	



Revision	Amendment	Approved	Revision Date
R1	ISSUED FOR CONSENT	A.N.	MAR 2013



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Drawn	Designed	Approved	Revision Date
L.H.		T.COULMAN	03/2013
Project No.	Scale	Drawing No.	
5C1814.00	1:2000(A1), 1:4000(A3)	5/2664/1/6504	

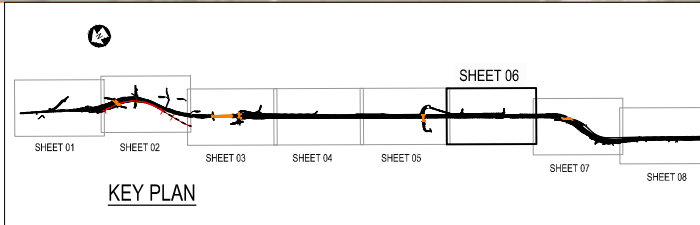
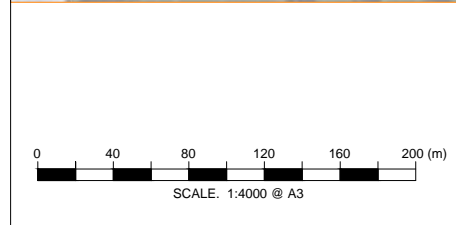
Project
**NEW ZEALAND TRANSPORT AGENCY
 PEKA PEKA TO NORTH OTAKI EXPRESSWAY
 FOR CONSENTING**

Sheet
**ENGINEERING GEOLOGICAL MAP
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Sheet No.	Revision
GI05	R1



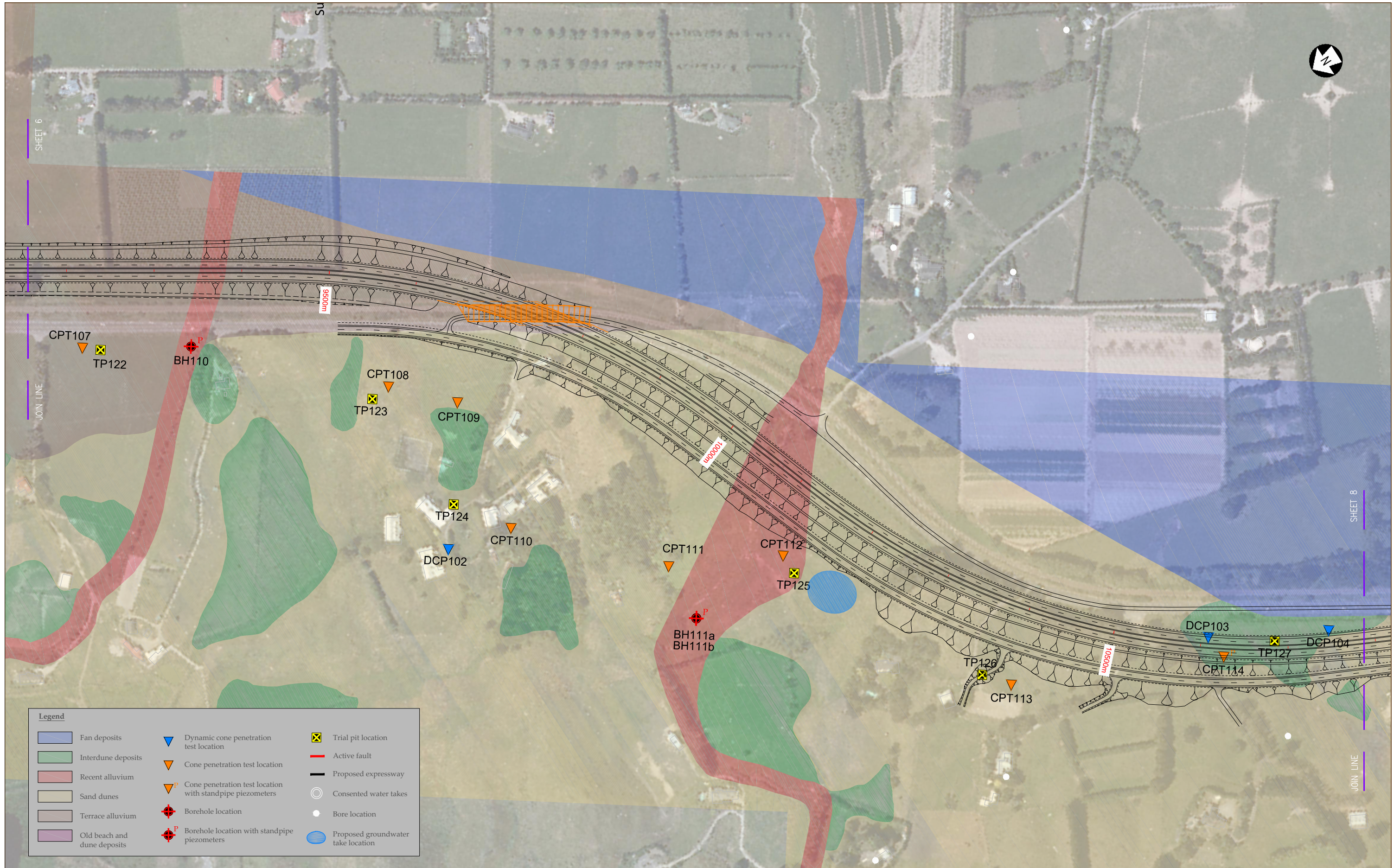
Legend		
	Fan deposits	
	Interdune deposits	
	Recent alluvium	
	Sand dunes	
	Terrace alluvium	
	Old beach and dune deposits	
	Dynamic cone penetration test location	
	Cone penetration test location	
	Cone penetration test location with standpipe piezometers	
	Borehole location	
	Borehole location with standpipe piezometers	



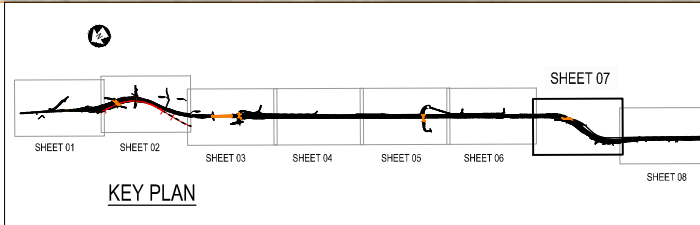
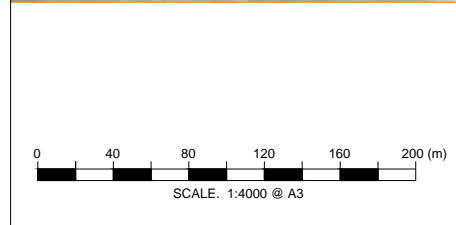
Revision	Amendment	Approved	Revision Date
R1	ISSUED FOR CONSENT	A.N.	MAR 2013



Drawn	Designed	Approved	Revision Date	Project	
L.H.		T.COULMAN	03/2013	NEW ZEALAND TRANSPORT AGENCY PEKA PEKA TO NORTH OTAKI EXPRESSWAY FOR CONSENTING	
Project No.			Scale	Sheet	
5C1814.00			1:2000(A1), 1:4000(A3)	ENGINEERING GEOLOGICAL MAP 6 OF 8	
Drawing No.				Sheet No.	Revision
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Legend			
	Fan deposits		Trial pit location
	Interdune deposits		Dynamic cone penetration test location
	Recent alluvium		Cone penetration test location
	Sand dunes		Cone penetration test location with standpipe piezometers
	Terrace alluvium		Borehole location
	Old beach and dune deposits		Borehole location with standpipe piezometers
	Active fault		Proposed groundwater take location
	Proposed expressway		Consented water takes
	Bore location		



Revision	Amendment	Approved	Revision Date
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Project No.	Scale	Drawing No.	
5C1814.00	1:2000(A1), 1:4000(A3)	5/2664/1/6504	

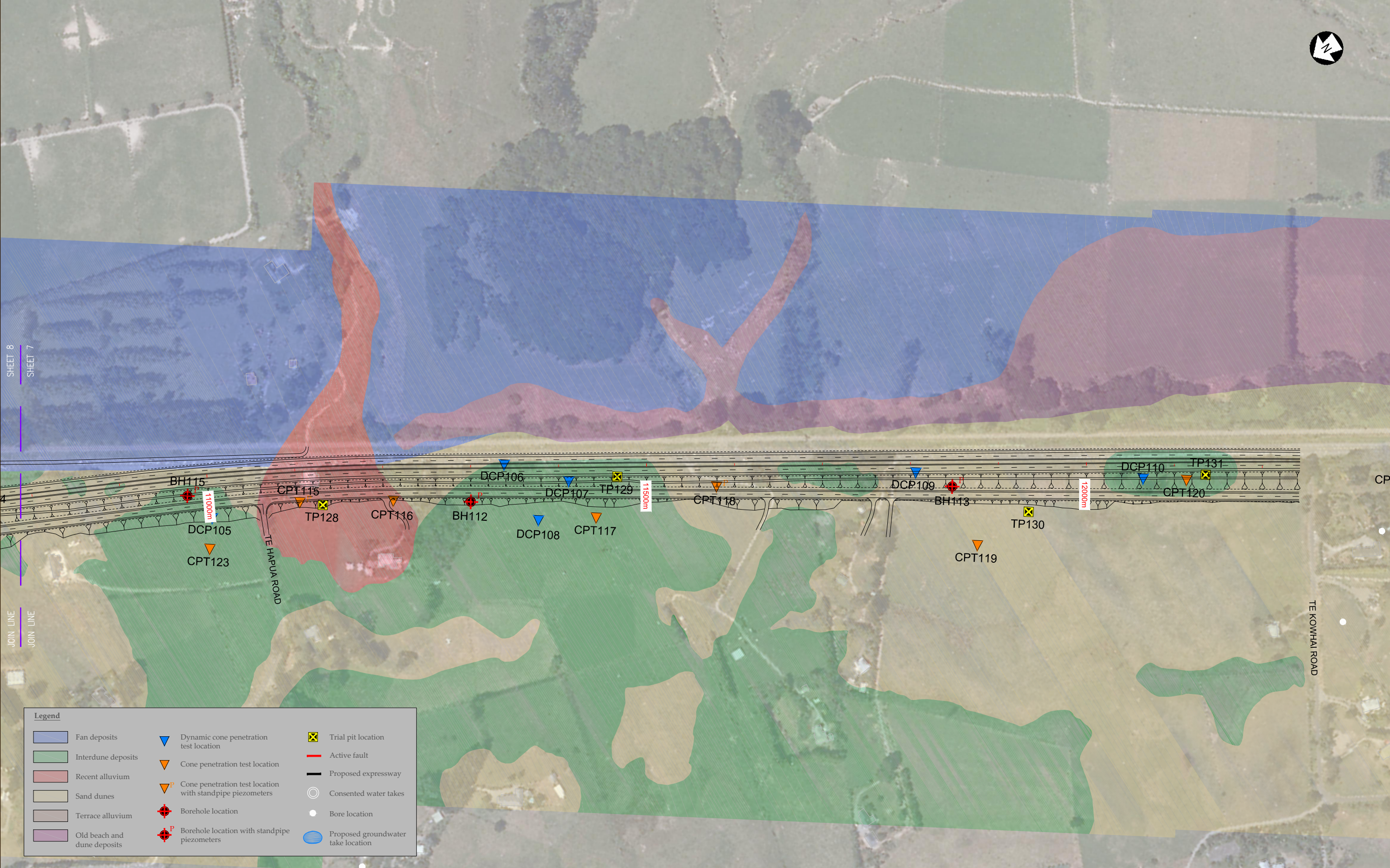
Project
**NEW ZEALAND TRANSPORT AGENCY
 PEKA PEKA TO NORTH OTAKI EXPRESSWAY
 FOR CONSENTING**

Sheet
**ENGINEERING GEOLOGICAL MAP
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Sheet No.	Revision
G107	R1

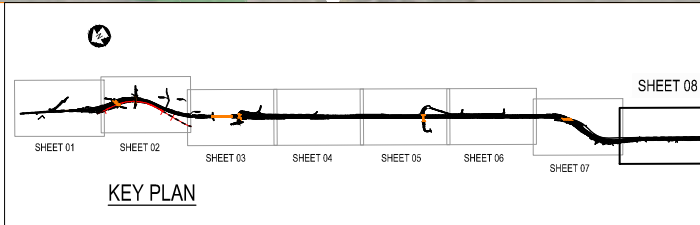
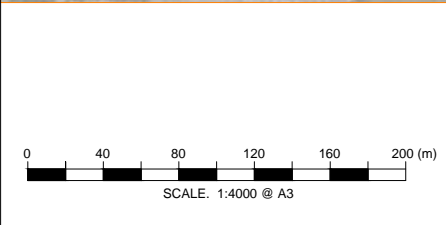


300 mm
200
100
50
0
10 mm



Legend

	Fan deposits		Dynamic cone penetration test location		Trial pit location
	Interdune deposits		Cone penetration test location		Active fault
	Recent alluvium		Cone penetration test location with standpipe piezometers		Proposed expressway
	Sand dunes		Borehole location		Consented water takes
	Terrace alluvium		Borehole location with standpipe piezometers		Bore location
	Old beach and dune deposits				Proposed groundwater take location



Revision	Amendment	Approved	Revision Date
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Project No.	Scale		Sheet No.
5C1814.00	1:2000(A1), 1:4000(A3)		5/2664/1/6504

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PEKA PEKA TO NORTH OTAKI EXPRESSWAY
FOR CONSENTING

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