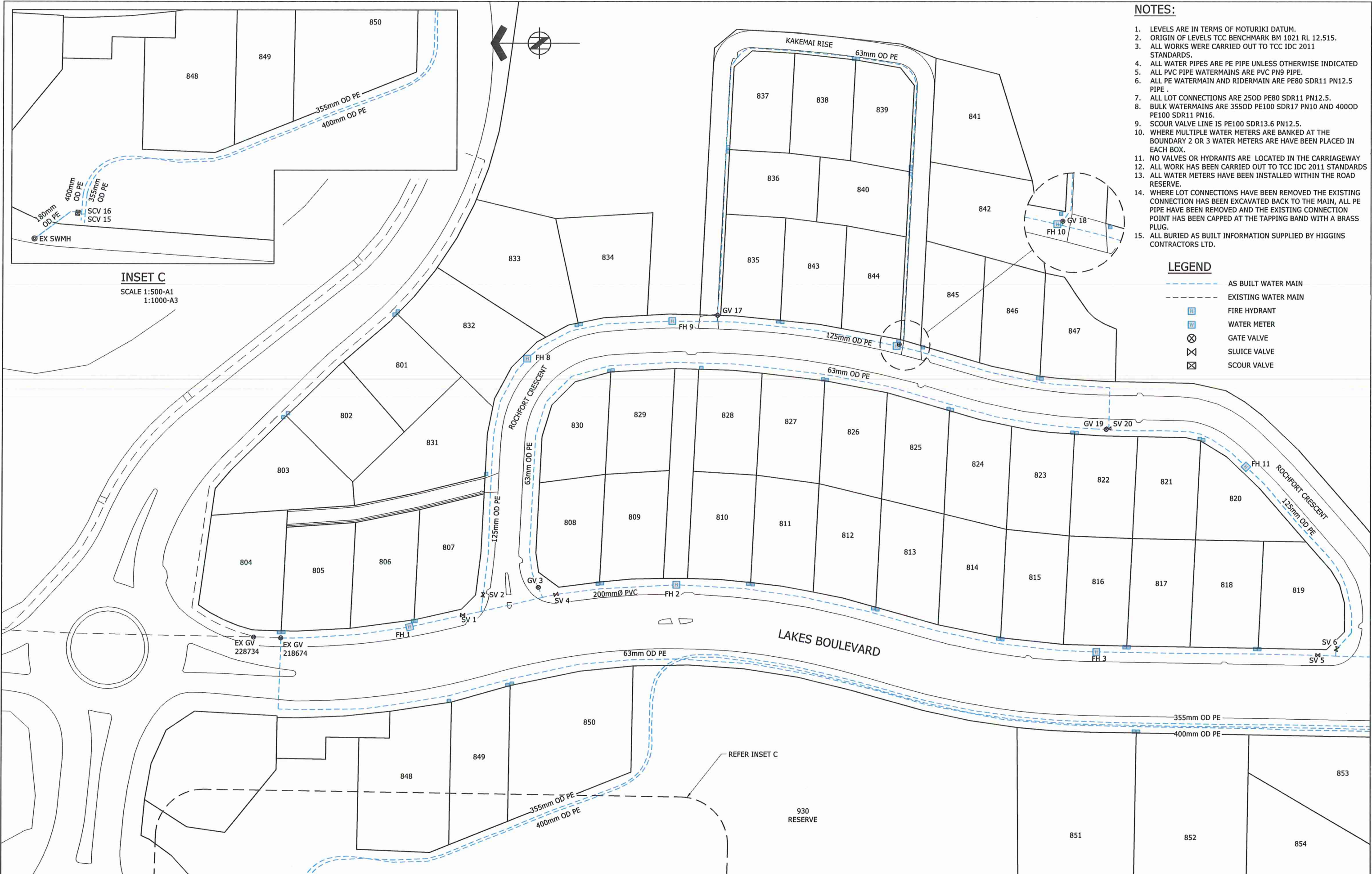




- NOTES:**
- 1. LEVELS ARE IN TERMS OF MOTURIKI DATUM.
 - 2. ORIGIN OF LEVELS TCC BENCHMARK BM 1021 RL 12.515.
 - 3. ALL WORKS WERE CARRIED OUT TO TCC IDC 2011 STANDARDS.
 - 4. ALL WATER PIPES ARE PE PIPE UNLESS OTHERWISE INDICATED
 - 5. ALL PVC PIPE WATERMAINS ARE PVC PN9 PIPE.
 - 6. ALL PE WATERMAIN AND RIDERMAIN ARE PE80 SDR11 PN12.5 PIPE .
 - 7. ALL LOT CONNECTIONS ARE 250D PE80 SDR11 PN12.5.
 - 8. BULK WATERMAINS ARE 355OD PE100 SDR17 PN10 AND 400OD PE100 SDR11 PN16.
 - 9. SCOUR VALVE LINE IS PE100 SDR13.6 PN12.5.
 - 10. WHERE MULTIPLE WATER METERS ARE BANKED AT THE BOUNDARY 2 OR 3 WATER METERS ARE HAVE BEEN PLACED IN EACH BOX.
 - 11. NO VALVES OR HYDRANTS ARE LOCATED IN THE CARRIAGEWAY
 - 12. ALL WORK HAS BEEN CARRIED OUT TO TCC IDC 2011 STANDARDS
 - 13. ALL WATER METERS HAVE BEEN INSTALLED WITHIN THE ROAD RESERVE.
 - 14. WHERE LOT CONNECTIONS HAVE BEEN REMOVED THE EXISTING CONNECTION HAS BEEN EXCAVATED BACK TO THE MAIN, ALL PE PIPE HAVE BEEN REMOVED AND THE EXISTING CONNECTION POINT HAS BEEN CAPPED AT THE TAPPING BAND WITH A BRASS PLUG.
 - 15. ALL BURIED AS BUILT INFORMATION SUPPLIED BY HIGGINS CONTRACTORS LTD.

- LEGEND**
- AS BUILT WATER MAIN
 - EXISTING WATER MAIN
 - FIRE HYDRANT
 - WATER METER
 - GATE VALVE
 - SLUICE VALVE
 - SCOUR VALVE

INSET C
SCALE 1:500-A1
1:1000-A3

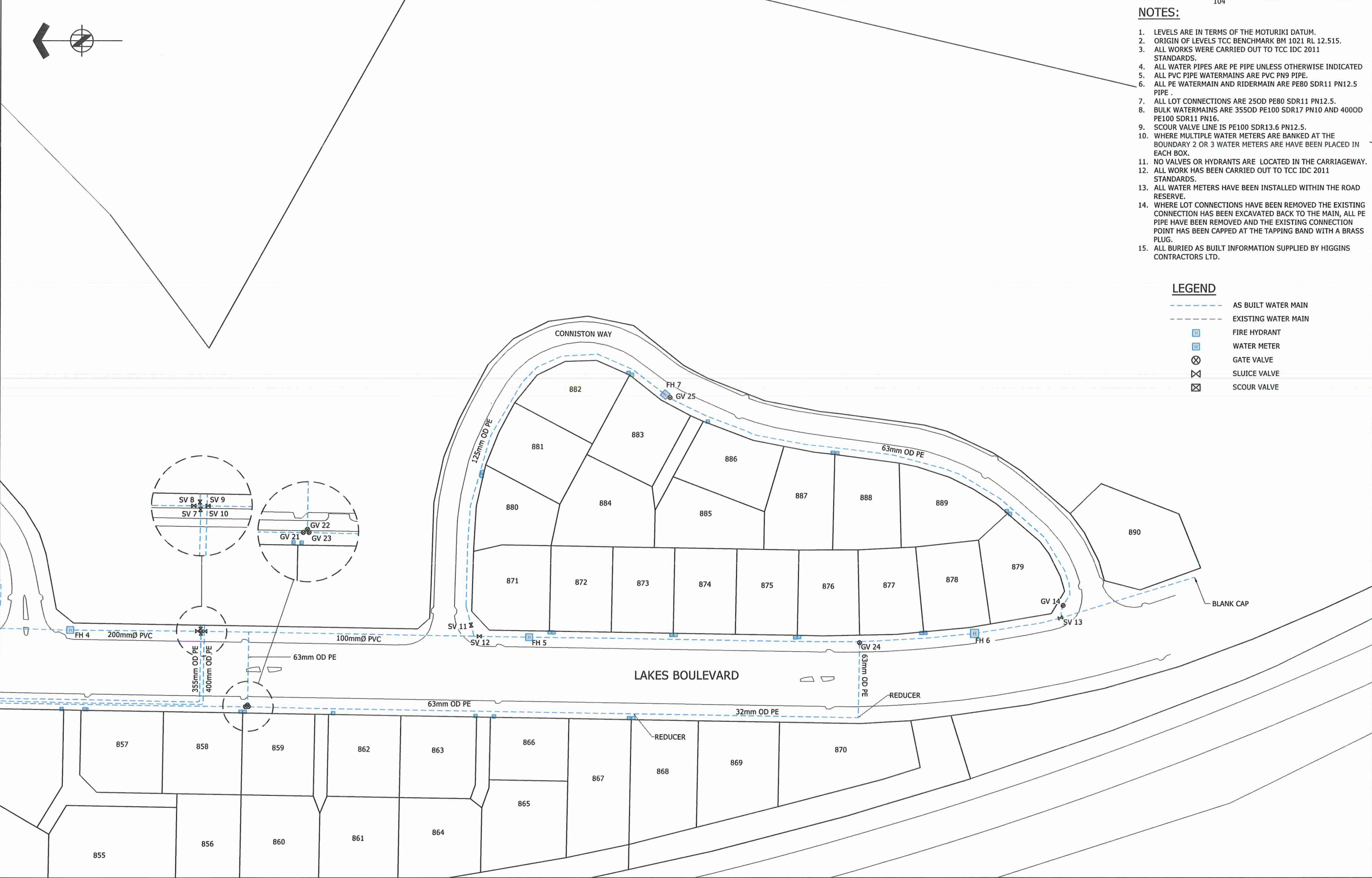
		ORIGINATOR: MPD	DATE: 02.05.14	SIGNED:	PLOT BY: TSC		ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND	ISO 9001 QUALITY ASSURED				TAURANGA OFFICE LEVEL 1 HARRISON GRIERSON HOUSE 141 CAMERON ROAD TAURANGA 3110 T +64 7 578 0023 W www.harrisongrierson.com	PROJECT: Central THE LAKES (2012) LTD, TAURANGA	TITLE: STAGE 2QRST CIVILS WATER RETICULATION AS BUILT PLAN SHEET 1 OF 3 TCC IP 21332	ISSUE STATUS: AS BUILT					
		DRAWN: TSC	DATE: 02.05.14	SIGNED:	PLOT DATE: 13.05.14										PROJECT No: 1510-133562-02	SCALES: 1:500 - A1 1:1000 - A3	A1			
		CHECKED: GPR	DATE: 02.05.14	SIGNED:	SURVEY BY: SJF										DRAWING No:		REV			
B	AS BUILT FINAL	MPD	13.05.14												133562-2-AB300		B			
A	AS BUILT	MPD	02.05.14	APPROVED:																
REF	REVISIONS	BY	DATE	DGN	02.05.14	SIGNED:														

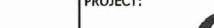
NOTES:

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12. ALL WORK HAS BEEN CARRIED OUT TO TCC IDC 2011 STANDARDS.
13. ALL WATER METERS HAVE BEEN INSTALLED WITHIN THE ROAD RESERVE.
14. WHERE LOT CONNECTIONS HAVE BEEN REMOVED THE EXISTING CONNECTION HAS BEEN EXCAVATED BACK TO THE MAIN, ALL PE PIPE HAVE BEEN REMOVED AND THE EXISTING CONNECTION POINT HAS BEEN CAPPED AT THE TAPPING BAND WITH A BRASS PLUG.
15. ALL BURIED AS BUILT INFORMATION SUPPLIED BY HIGGINS CONTRACTORS LTD.

LEGEND

- AS BUILT WATER MAIN
- EXISTING WATER MAIN
- FIRE HYDRANT
- WATER METER
- GATE VALVE
- SLUICE VALVE
- SCOUR VALVE



				ORIGINATOR: GPR DATE: 02.05.14		SIGNED:		PLOT BY: TSC		 ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND		ISO 9001 QUALITY ASSURED				PROJECT: Central THE LAKES (2012) LTD, TAURANGA		TITLE: STAGE 2QRST CIVILS WATER RETICULATION AS BUILT PLAN SHEET 2 OF 3 TCC IP 21332		ISSUE STATUS: AS BUILT							
				DRAWN: TSC DATE: 02.05.14		SIGNED:		PLOT DATE: 13.05.14				PROJECT No: 1510-133562-02								SCALES: 1:500 - A1 1:1000 - A3		A1					
				CHECKED: GPR DATE: 02.05.14		SIGNED:		SURVEY BY: SJF		THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.		TAURANGA OFFICE LEVEL 1 HARRISON GRIERSON HOUSE 141 CAMERON ROAD TAURANGA 3110 T +64 7 578 0023 W www.harrisongrierson.com												DRAWING No: 133562-2-AB301		REV B	
				APPROVED: DGN DATE: 02.05.14		SIGNED:		SURVEY DATE: 05.14																			
B AS BUILT FINAL		MPD 13.05.14																									
A AS BUILT		MPD 02.05.14																									
REF REVISIONS		BY DATE																									

WATER METER SCHEDULE (AB300)							
LOT	SERIAL NO.	mN	mE	RL	Front	Side	Initial Reading
W M 801	14MC188464	800660.60	368190.61	23.14	0.45	0.65	0.103
W M 802	14MC188466	800691.60	368161.60	18.63	0.31	0.90	0.128
W M 803	14MC188400	800692.96	368160.44	18.44	0.43	0.88	0.113
W M 804	14MC188461	800694.03	368097.20	11.93	0.35	0.65	0.103
W M 805	14MC188463	800692.74	368097.25	11.92	0.29	0.64	0.103
W M 806	14MC188450	800654.93	368100.49	11.71	0.30	0.30	0.110
W M 807	14MC188449	800654.24	368100.55	11.71	0.43	0.35	0.108
W M 808	14MC188486	800601.08	368111.53	11.47	0.36	0.59	0.104
W M 809	14MC188490	800599.89	368111.66	11.44	0.36	0.63	0.102
W M 810	14MC188487	800557.18	368111.51	11.42	0.39	0.65	0.102
W M 811	14MC188489	800555.88	368111.36	11.45	0.40	0.66	0.144
W M 812	14MC188488	800520.56	368104.28	12.16	0.51	0.64	0.094
W M 813	14MC188485	800519.32	368103.98	12.18	0.47	0.64	0.098
W M 814	14MC188411	800483.91	368095.40	12.99	0.34	0.63	0.098
W M 815	14MC188409	800482.70	368095.23	13.04	0.31	0.56	0.179
W M 816	14MC188408	800446.92	368092.90	13.48	0.33	0.62	0.107
W M 817	14MC188407	800445.77	368092.87	13.51	0.34	0.53	0.106
W M 818	14MC188412	800408.94	368092.58	13.85	0.17	0.82	0.118
W M 819	14MC188410	800407.71	368092.54	13.87	0.21	0.39	0.143
W M 820	14MC188439	800423.96	368153.76	20.16	0.62	0.55	0.109
W M 821	14MC188440	800424.99	368154.11	20.11	0.52	0.36	0.100
W M 822	14MC188442	800461.01	368155.84	18.42	0.34	0.60	0.136
W M 823	14MC188431	800462.28	368155.95	18.37	0.37	0.68	0.155
W M 824	14MC188437	800497.67	368162.58	16.90	0.40	0.57	0.209
W M 825	14MC188438	800498.66	368162.90	16.82	0.44	0.47	0.132
W M 826	14MC188383	800534.29	368171.40	15.52	0.36	0.57	0.092
W M 827	14MC188384	800535.40	368171.59	15.49	0.38	0.52	0.115
W M 828	14MC188386	800571.07	368174.94	14.66	0.44	0.72	0.112
W M 829	14MC188387	800596.96	368174.17	16.19	0.40	0.51	0.090
W M 830	14MC188385	800597.92	368174.05	16.32	0.41	0.36	0.102
W M 831	14MC188432	800633.71	368143.76	14.63	0.29	0.70	0.108
W M 832	14MC188399	800659.64	368191.49	23.28	0.37	0.66	0.102
W M 833	14MC188433	800607.43	368187.54	17.12	0.48	0.53	0.108
W M 834	14MC188431	800606.33	368187.85	17.03	0.40	0.61	0.137
W M 835	14MC188378	800548.69	368188.63	15.24	0.36	0.63	0.099
W M 836	14MC188420	800563.47	368238.55	16.55	0.46	0.58	0.105
W M 837	14MC188419	800563.38	368239.78	16.60	0.43	0.65	0.138
W M 838	14MC188422	800526.58	368265.84	19.85	0.30	0.54	0.513
W M 839	14MC188421	800525.50	368265.73	19.97	0.35	0.53	0.151
W M 840	14MC188424	800509.94	368231.91	19.76	0.34	0.66	0.162
W M 841	14MC188455	800509.87	368234.02	19.89	5.69	-1.79	0.101
W M 842	14MC188423	800509.88	368233.46	19.86	5.71	-2.35	0.075
W M 843	14MC188456	800547.43	368188.49	15.25	0.37	0.64	0.100
W M 844	14MC188460	800513.36	368182.95	16.27	0.43	0.52	0.107
W M 845	14MC188458	800506.19	368181.00	16.26	0.33	0.78	0.116
W M 846	14MC188459	800472.34	368171.98	17.89	0.63	0.43	0.090
W M 847	14MC188457	800471.34	368171.75	17.94	0.71	0.54	0.094
W M 848	14MC188395	800644.38	368076.98	11.62	0.44	0.68	0.106
W M 849	14MC188436	800627.31	368081.67	11.55	0.38	0.68	0.109
W M 850	14MC188388	800626.05	368082.09	11.53	0.48	0.61	0.107
W M 851	14MC188435	800444.15	368068.07	13.48	0.41	0.65	0.151
W M 852	14MC188434	800442.94	368068.02	13.50	0.38	0.55	0.113
W M 853	14MC188465	800362.69	368066.53	14.23	0.29	0.60	0.101
W M 854	14MC188373	800356.01	368066.46	14.26	0.34	1.08	0.153

WATER METER SCHEDULE (AB301)							
LOT	SERIAL NO.	mN	mE	RL	Front	Side	Initial Reading
W M 855	14MC188374	800356.012	368066.456	14.262	0.34	1.08	0.088
W M 856	14MC188371	800356.012	368066.456	14.262	0.34	1.08	0.164
W M 857	14MC188372	800355.512	368066.431	14.268	0.32	1.58	0.263
W M 858	14MC188451	800310.723	368065.719	14.639	0.63	0.63	0.112
W M 859	14MC188452	800309.54	368065.697	14.664	0.55	0.55	0.103
W M 860	14MC188376	800283.762	368065.277	14.897	0.42	1.33	0.102
W M 861	14MC188375	800283.762	368065.277	14.897	0.42	1.33	0.105
W M 862	14MC188405	800283.762	368065.277	14.897	0.42	1.33	0.107
W M 863	14MC188404	800242.381	368064.438	15.281	0.30	0.28	0.098
W M 864	14MC188462	800237.036	368064.29	15.235	0.25	1.07	0.164
W M 865	14MC188453	800237.036	368064.29	15.235	0.25	1.07	0.201
W M 866	14MC188454	800237.036	368064.29	15.235	0.25	1.07	0.156
W M 867	14MC188379	800197.768	368063.795	15.564	0.44	0.66	0.087
W M 868	14MC188381	800196.525	368063.783	15.554	0.45	0.58	0.068
W M 871	14MC188444	800220.915	368088.95	15.307	0.33	-0.07	0.109
W M 872	14MC188443	800219.756	368088.916	15.335	0.35	1.23	0.131
W M 873	14MC188446	800185.5	368088.153	15.647	0.51	0.50	0.121
W M 874	14MC188445	800184.284	368088.168	15.639	0.47	0.71	0.095
W M 875	14MC188447	800149.592	368087.452	15.92	0.58	0.59	0.108
W M 876	14MC188448	800148.45	368087.518	15.944	0.50	0.54	0.107
W M 877	14MC188426	800112.637	368088.74	16.301	0.26	0.65	0.106
W M 878	14MC188425	800111.475	368088.798	16.285	0.32	0.51	0.098
W M 879	14MC188429	368123.614	800086.871	16.982	0.45	0.64	0.109
W M 880	14MC188402	800240.759	368134.787	16.749	0.41	0.62	0.106
W M 881	14MC188430	800240.579	368135.89	16.781	0.48	-2.26	0.107
W M 882	14MC188403	800198.137	368164.937	17.968	0.47	0.60	0.095
W M 883	14MC188406	800197.116	368164.38	17.976	0.51	0.45	0.124
W M 884	14MC188377	800175.087	368150.641	17.666	0.40	1.23	0.095
W M 885	14MC188382	800175.087	368150.641	17.666	0.40	1.23	0.106
W M 886	14MC188380	800175.087	368150.641	17.666	0.40	1.23	0.103
W M 887	14MC188428	800138.607	368141.512	17.43	0.44	0.62	0.102
W M 888	14MC188401	800137.298	368141.398	17.444	0.48	0.68	0.106
W M 889	14MC188427	800087.846	368124.421	16.96	0.42	0.62	0.105

VALVE/HYDRANT SCHEDULE (AB300)			
ID	mN	mE	RL
EX 228734	800701.41	368095.73	11.86
EX 218674	368095.49	800693.48	11.83
FH 1	800655.96	368098.76	11.63
FH 2	800578.20	368111.19	11.23
FH 3	800455.13	368091.50	13.41
FH 8	800621.81	368177.67	17.41
FH 9	800579.59	368188.69	14.86
FH 10	800513.92	368181.41	16.14
FH 11	800411.45	368145.97	20.54
SV 1	800640.45	368102.21	11.57
SV 2	800634.52	368108.17	11.52
GV 3	800618.42	368110.38	11.51
SV 4	800613.23	368108.33	11.46
SV 5	800390.23	368090.53	13.48
SV 6	800384.80	368092.38	14.06
SCV 15	800690.11	368014.34	8.76
SCV 16	800690.00	368014.83	8.77
GV 17	800566.35	368190.39	14.64
GV 18	800513.12	368181.87	16.16
GV 19	800452.39	368156.94	18.78
SV 20	800451.64	368157.17	18.81

VALVE/HYDRANT SCHEDULE (AB301)			
ID	mN	mE	RL
FH 4	800360.26	368089.66	14.16
FH 5	800226.87	368087.52	15.27
FH 6	800097.21	368088.63	16.35
FH 7	800187.47	368158.60	17.81
SV 7	800323.28	368089.31	14.41
SV 8	800322.38	368089.85	14.42
SV 9	800321.20	368089.28	14.44
SV 10	800322.30	368088.74	14.46
SV 11	800243.78	368091.06	15.13
SV 12	800241.38	368087.77	15.13
SV 13	800072.10	368093.13	16.67
GV 14	800071.32	368096.79	16.64
GV 21	800309.29	368067.17	14.62
GV 22	800308.71	368067.63	14.62
GV 23	800308.46	368067.18	14.62
GV 24	800130.67	368085.88	16.06
GV 25	800184.62	368156.80	17.77

				ORIGINATOR: GPR	DATE: 02.05.14	SIGNED:	PLOT BY: TSC	ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND ISO 9001 QUALITY ASSURED THIS DRAWING AND DESIGN REMAINS THE PROPERTY OF, AND MAY NOT BE REPRODUCED OR ALTERED, WITHOUT THE WRITTEN PERMISSION OF HARRISON GRIERSON CONSULTANTS LIMITED. NO LIABILITY SHALL BE ACCEPTED FOR UNAUTHORISED USE OF THIS DRAWING.	PROJECT: Central THE LAKES (2012) LTD, TAURANGA	TITLE: STAGE 2QRST CIVILS WATER RETICULATION AS BUILT PLAN SHEET 3 OF 3 TCC IP 21332	ISSUE STATUS: AS BUILT		
				DRAWN: TSC	DATE: 02.05.14	SIGNED:	PLOT DATE: 13.05.14				PROJECT No: 1510-133562-02	SCALES:	A1
				CHECKED: GPR	DATE: 02.05.14	SIGNED:	SURVEY BY: SJF				DRAWING No:		REV
B	AS BUILT FINAL	MPD	13.05.14	APPROVED: DGN	DATE: 02.05.14	SIGNED:	SURVEY DATE: 05.14				133562-2-AB302		B
A	AS BUILT	MPD	02.05.14										
REF	REVISIONS	BY	DATE										