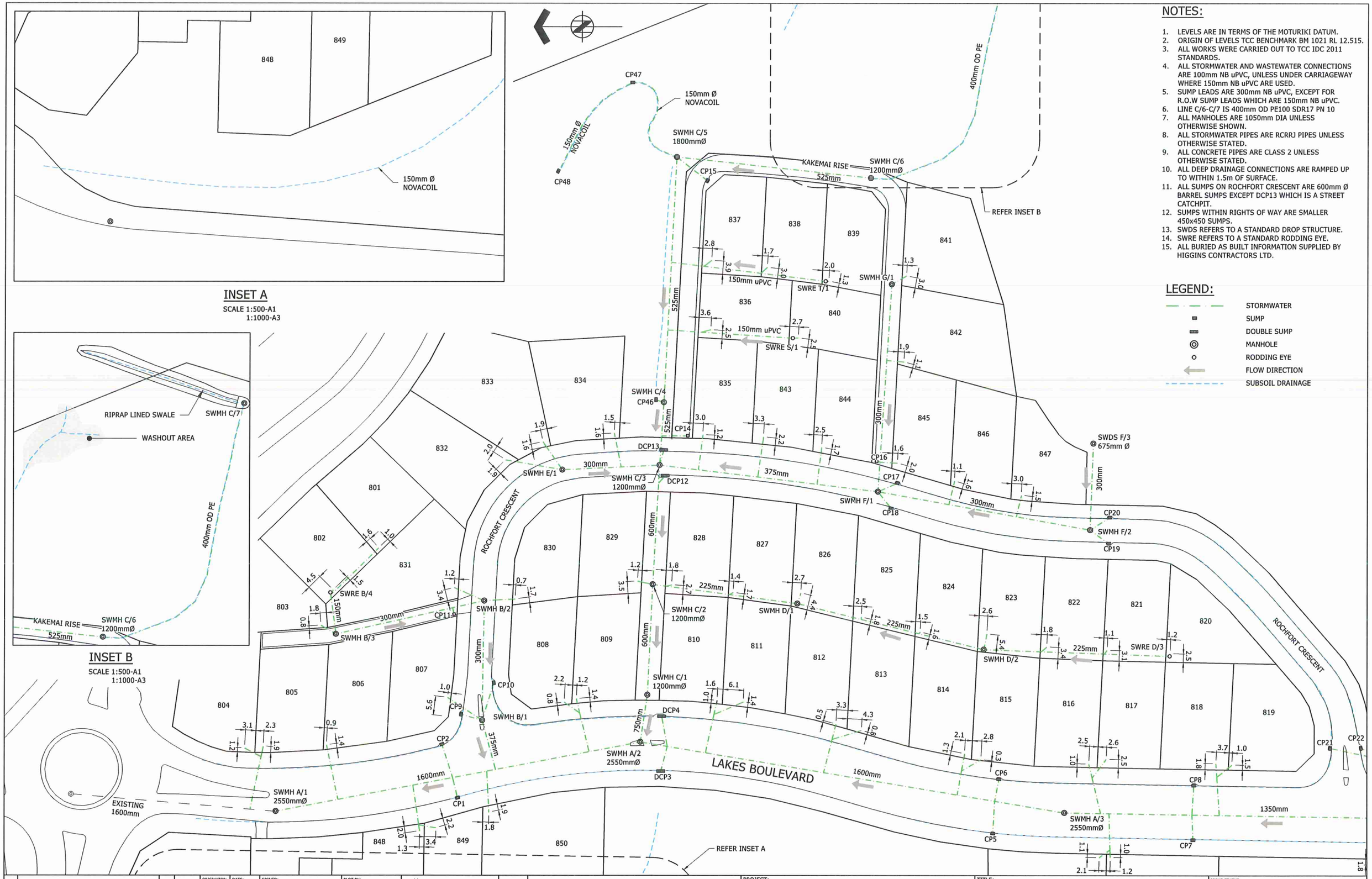

NOTES:

1. LEVELS ARE IN TERMS OF THE 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 STORMWATER AND WASTEWATER CONNECTIONS ARE 100mm NB uPVC, UNLESS UNDER CARRIAGEWAY WHERE 150mm NB uPVC ARE USED.
5. SUMP LEADS ARE 300mm NB uPVC, EXCEPT FOR R.O.W SUMP LEADS WHICH ARE 150mm NB uPVC.
6. LINE C/6-C/7 IS 400mm OD PE100 SDR17 PN 10
7. ALL MANHOLES ARE 1050mm DIA UNLESS OTHERWISE SHOWN.
8. ALL STORMWATER PIPES ARE RCRRJ PIPES UNLESS OTHERWISE STATED.
9. ALL CONCRETE PIPES ARE CLASS 2 UNLESS OTHERWISE STATED.
10. ALL DEEP DRAINAGE CONNECTIONS ARE RAMPED UP TO WITHIN 1.5m OF SURFACE.
11. ALL SUMPS ON ROCHFORT CRESCENT ARE 600mm Ø BARREL SUMPS EXCEPT DCP13 WHICH IS A STREET CATCHPIT.
12. SUMPS WITHIN RIGHTS OF WAY ARE SMALLER 450x450 SUMPS.
13. SWDS REFERS TO A STANDARD DROP STRUCTURE.
14. SWRE REFERS TO A STANDARD RODDING EYE.
15. ALL BURIED AS BUILT INFORMATION SUPPLIED BY HIGGINS CONTRACTORS LTD.

LEGEND:

- STORMWATER
- SUMP
- DOUBLE SUMP
- MANHOLE
- RODDING EYE
- FLOW DIRECTION
- SUBSOIL DRAINAGE

REF	REVISIONS	BY	DATE
B	AS BUILT FINAL	MPD	13.05.14
A	AS BUILT	MPD	02.05.14

ORIGINATOR: MPD	DATE: 02.05.14	SIGNED:	PLOT BY: TSC
DRAWN: TSC	DATE: 02.05.14	SIGNED:	PLOT DATE: 13.05.14
CHECKED: GPR	DATE: 02.05.14	SIGNED:	SURVEY BY: SJF
APPROVED: DGN	DATE: 02.05.14	SIGNED:	SURVEY DATE: 05.14

ASSOCIATION OF CONSULTING ENGINEERS NEW ZEALAND — ACENZ

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W www.harrisongrierson.com

PROJECT:
Central
THE LAKES (2012) LTD, TAURANGA

TITLE:
STAGE 2QRST CIVILS
STORMWATER RETICULATION AS BUILT PLAN
SHEET 1 OF 3
TCC IP 21332

ISSUE STATUS: AS BUILT

PROJECT No: 1510-133562-02
SCALES: 1:500 - A1, 1:1000 - A3
A1

DRAWING No: 133562-2-AB100
REV B

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES File: TAURANGA N:\1510\133562_A\CAD\2QRST CIVIL DESIGN\ASBUILTS\133562-2-AB100-102.DWG

NOTES:

1. LEVELS ARE IN TERMS OF THE MOTURIKI DATUM.
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5. SUMP LEADS ARE 300mm NB uPVC, EXCEPT FOR R.O.W SUMP LEADS WHICH ARE 150mm NB uPVC.
6. LINE J IS 250mm OD PE100 SDR17 PN 10
7. ALL MANHOLES ARE 1050mm DIA UNLESS OTHERWISE SHOWN.
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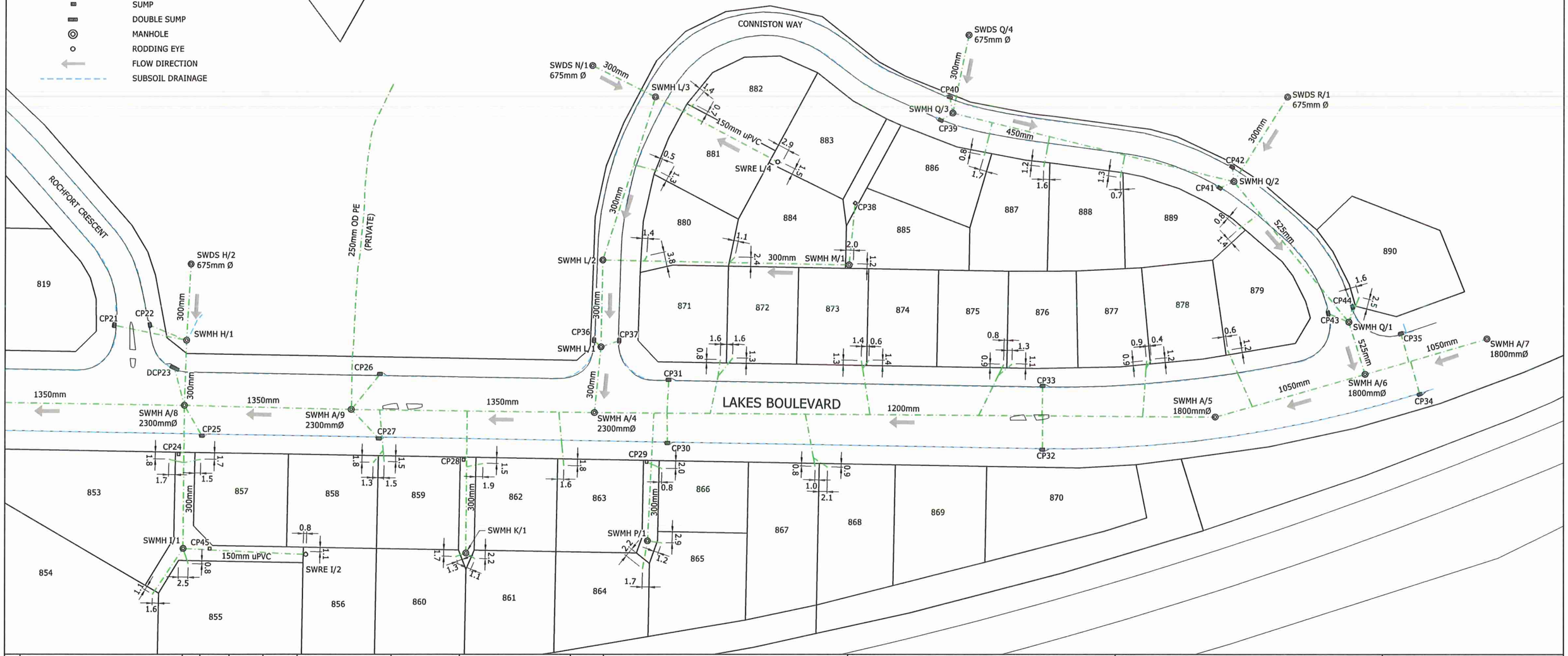
LEGEND:

- STORMWATER
- SUMP
- DOUBLE SUMP
- MANHOLE
- RODDING EYE
- FLOW DIRECTION
- SUBSOIL DRAINAGE



				ORIGINATOR: MPD	DATE: 02.05.14	SIGNED:	PLOT BY: TSC	
				DRAWN: TSC	DATE: 02.05.14	SIGNED:	PLOT DATE: 13.05.14	
				CHECKED: GPR	DATE: 02.05.14	SIGNED:	SURVEY BY: SJF	
B	AS BUILT FINAL	MPD	13.05.14	APPROVED: DGN	DATE: 02.05.14	SIGNED:	SURVEY DATE: 05.14	
A	AS BUILT	MPD	02.05.14					
REF	REVISIONS	BY	DATE					

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PROJECT: Central
THE LAKES (2012) LTD, TAURANGA

TITLE:
STAGE 2QRST CIVILS
STORMWATER RETICULATION AS BUILT PLAN
SHEET 2 OF 3
TCC IP 21332

ISSUE STATUS: AS BUILT

PROJECT No: 1510-133562-02 | SCALES: 1:500 - A1, 1:1000 - A3 | A1

DRAWING No: 133562-2-AB101 | REV B

REFER TO APPROVED MASTER DRAWINGS FOR ORIGINAL SIGNATURES File: TAURANGA N:\1510\133562_A\CAD\2QRST CIVIL DESIGN\ASBUILTS\133562-2-AB100-102.DWG

STORMWATER MANHOLES (AB100)

ID	Dia	mN	mE	Lid Level	Inv Out	Inv In	Inv In	Inv In	Inv In
SWMH A/1	2550	800687.25	368080.24	11.75	8.12	9.16			
SWMH A/2	2550	800580.44	368100.76	11.45	8.87	9.19	8.89		
SWMH A/3	2550	800455.93	368079.86	13.43	9.57	9.70			
SWMH B/1	1050	800626.84	368107.14	11.50	9.89	10.22	9.98	10.24	
SWMH B/2	1050	800626.31	368142.44	14.62	12.29	12.39			
SWMH B/3	1050	800669.71	368132.59	14.55	12.63	12.80			
SWRE B/4	675	800671.34	368144.82	15.81					
SWMH C/1	1200	800578.41	368114.67	11.39	9.28	9.43			
SWMH C/2	1200	800576.92	368147.28	13.18	11.68	11.79	12.04		
SWMH C/3	1200	800575.02	368182.47	14.56	12.94	13.21	13.05	13.28	13.16
SWMH C/4	1050	800573.83	368201.00	15.32	13.48	14.08	13.55		
SWMH C/5	1800	800570.24	368273.35	17.35	15.14	16.50	15.22	16.29	
SWMH C/6	1200	800513.23	368267.19	21.31	18.46	18.57			
SWMH C/7	1050	800472.08	368336.11	42.92	41.63				
SWMH D/1	1050	368141.63	800534.63	15.02	13.82	13.87			
SWMH D/2	1050	800479.68	368128.08	16.24	15.01	15.04			
SWRE D/3	675	800425.00	368126.16	18.09					
SWMH E/1	1050	800603.54	368181.10	16.68	15.08				
SWMH F/1	1050	800510.91	368174.67	16.19	14.47	14.59	14.91	14.60	14.94
SWMH F/2	1050	800448.50	368163.40	18.88	17.33	17.42	17.47	17.45	
SWDS F/3	675	800447.59	368188.90	19.21	17.93				
SWMH G/1	1050	800506.98	368235.87	20.05	18.41				
SWRE S/1	675	800536.20	368219.94	18.32					
SWRE T/1	675	800526.48	368236.72	18.64					

STORMWATER MANHOLES (AB101)

ID	Dia	mN	mE	Lid Level	Inv Out	Inv In	Inv In	Inv In	Inv In	Inv In
SWMH A/8	2300	800359.84	368078.33	14.23	10.62	12.32	11.70	10.62	12.53	11.71
SWMH A/9	2300	800317.05	368077.29	14.56	10.98	10.99	12.90	12.92	12.11	
SWMH A/4	2300	800254.70	368076.47	15.08	11.51	11.60	12.61			
SWMH A/5	1800	800095.34	368075.36	16.36	13.40	13.54				
SWMH A/6	1800	800056.79	368086.41	17.05	14.32	14.54	14.38			
SWMH A/7	1800	800025.42	368095.59	18.23	14.96					
SWMH H/1	1050	800359.32	368095.14	14.72	12.17	12.57	12.57	12.29		
SWDS H/2	675	800358.19	368114.83	17.49	16.63					
SWMH I/1	1050	800360.09	368041.32	14.46	12.76	12.84				
SWRE I/2	675	800328.58	368039.79	14.67						
SWMH K/1	1050	800287.65	368040.15	15.07	13.46					
SWMH L/1	1050	800253.09	368093.44	14.97	13.22	13.44	13.32	13.45		
SWMH L/2	1050	800252.65	368115.88	15.72	13.67	13.75	13.72			
SWMH L/3	1050	800239.28	368158.00	17.49	15.04	15.07	15.12			
SWRE L/4	675	800207.98	368141.22	17.09						
SWMH M/1	1050	800189.56	368114.66	16.53	14.59	14.68				
SWDS N/1	675	800255.90	368166.08	18.19	16.85					
SWMH P/1	1050	800241.06	368043.32	15.49	13.57					
SWMH Q/1	1050	800060.99	368099.91	16.76	14.71	15.24	14.89	15.21		
SWMH Q/2	1050	800090.64	368136.19	17.04	15.11	15.81	15.17	15.81	15.65	
SWMH Q/3	1050	800163.00	368153.86	17.57	15.46	15.89	15.90	15.60		
SWDS Q/4	675	800158.93	368174.00	17.88	16.96					
SWDS R/1	675	800076.85	368158.02	17.61	16.35					

STORMWATER SUMPS (AB100)

ID	mN	mE	RL
CP1	800633.99	368084.22	11.34
CP2	800638.59	368100.02	11.31
DCP3	800574.43	368092.13	11.02
DCP4	800574.20	368108.32	10.98
CP5	800476.91	368073.74	12.95
CP6	800475.16	368089.78	12.93
CP7	800418.06	368071.85	13.48
CP8	800417.82	368087.99	13.48
CP9	800633.00	368108.89	11.28
CP10	800623.45	368118.16	12.07
CP11	800635.12	368138.41	14.24
DCP12	800573.39	368179.32	14.38
DCP13	800573.83	368186.90	14.36
CP14	800566.84	368191.12	14.65
CP15	800561.36	368266.39	17.40
CP16	800511.29	368183.65	16.22
CP17	800505.17	368177.19	16.17
CP18	800506.99	368169.75	16.20
CP19	800442.95	368159.38	18.97
CP20	800442.69	368167.09	18.97
CP21	800377.81	368099.01	14.52
CP22	800368.75	368099.06	14.59
CP46	800576.12	368201.73	15.21
CP47	800583.24	368295.33	20.13
CP48	800605.03	368269.17	24.86

STORMWATER SUMPS (AB101)

ID	mN	mE	RL
CP21	800377.81	368099.01	14.52
CP22	800368.75	368099.06	14.59
DCP23	800362.38	368087.92	13.91
CP24	800361.30	368065.69	14.19
CP25	800355.32	368070.46	13.99
CP26	800309.73	368086.39	14.34
CP27	800309.99	368069.76	14.36
CP28	800288.28	368064.27	14.84
CP29	800241.33	368063.75	15.24
CP30	800236.00	368068.61	14.98
CP31	800235.73	368084.92	14.94
CP32	800139.79	368066.90	15.77
CP33	800139.74	368083.37	15.75
CP34	800042.72	368081.26	17.13
CP35	800047.59	368096.90	17.12
CP36	800254.83	368095.13	14.88
CP37	800248.44	368095.05	14.80
CP38	800188.09	368130.07	16.82
CP39	800166.13	368151.99	17.43
CP40	800163.80	368157.94	17.42
CP41	800094.30	368134.56	16.85
CP42	800091.09	368139.94	16.85
CP43	800066.29	368102.17	16.55
CP44	800060.07	368103.81	16.57
CP45	800353.27	368041.27	14.43

STORMWATER CONNECTIONS (AB100)

LOT	mN	mE	RL	Dia	Depth
801	800657.23	368157.99	16.72	100	1.2
802	800670.53	368145.58	15.64	100	1.5
803	800674.04	368135.15	14.72	100	1.5
804	800696.41	368098.88	11.92	100	1.3
805	800690.94	368099.38	12.00	100	1.35
806	800672.35	368099.83	11.81	100	1.5
807	800636.98	368113.83	12.11	100	1.5
808	800602.76	368112.49	11.35	100	1.5
809	800599.22	368113.50	11.48	100	1.4
810	800558.04	368113.00	11.53	100	1.4
811	800550.37	368112.56	11.78	100	1.4
812	800523.05	368106.02	11.99	100	1.5
813	800515.55	368104.19	12.09	100	1.5
814	800485.23	368097.30	12.66	100	1.5
815	800480.44	368095.57	12.97	100	1.5
816	800448.72	368094.29	13.36	100	1.5
817	800443.60	368095.68	13.58	100	1.5
818	800411.34	368094.45	13.84	100	1.4
819	800406.70	368094.05	13.84	100	1.2
820	800424.89	368126.90	17.69	100	1.4
821	800443.38	368127.89	17.77	100	1.5
822	800461.14	368128.87	17.07	100	1.4
823	800478.76	368132.68	16.55	100	1.5
824	800498.34	368133.25	16.05	100	1.5
825	800515.66	368137.68	15.56	100	1.4
826	800533.59	368144.76	14.88	100	1.5
827	800553.40	368144.89	14.42	100	1.5
828	800571.37	368147.12	13.85	100	1.5
829	800581.34	368148.23	13.91	100	1.5
830	800617.28	368142.93	15.00	100	1.5
831	800635.10	368146.26	14.34	100	1.5
832	800620.20	368184.00	17.91	100	1.5
833	800609.24	368189.31	15.86	100	1.5
834	800588.33	368191.88	15.54	100	1.5
835	800562.42	368191.45	15.18	100	1.2
836	800560.19	368222.41	16.86	100	1.5
837	800560.00	368242.85	16.97	100	1.5
838	800543.67	368240.85	17.54	100	1.5
839	800525.52	368236.74	18.36	100	1.3
840	800534.60	368220.02	17.98	100	1.5
841	800502.61	368238.32	19.91	100	1.5
842	800503.34	368212.94	18.48	100	1.5
843	800544.66	368190.80	15.38	100	1.4
844	800527.49	368187.74	15.91	100	1.3
845	800505.15	368183.11	16.61	100	1.45
846	800488.39	368177.84	17.60	100	1.45
847	800468.73	368173.63	18.18	100	1.45
848	800645.04	368074.40	11.55	100	1.5
849	800640.29	368075.35	11.52	100	1.45
850	800624.80	368079.93	11.48	100	1.25
851	800445.65	368066.60	13.36	100	1.3
852	800442.35	368066.65	13.61	100	1.2

STORMWATER CONNECTIONS (AB101)

LOT	mN	mE	RL	Dia	Depth
853	800363.78	368064.42	13.76	100	1.5
854	800367.96	368029.46	14.20	100	1.4
855	800358.79	368037.36	14.18	100	1.6
856	800328.41	368040.49	14.44	100	1.4
857	800355.60	368064.39	14.10	100	1.5
858	800311.43	368063.54	14.61	100	1.2
859	800308.62	368063.77	14.80	100	1.2
860	800290.29	368039.24	14.91	100	1.35
861	800285.21	368038.70	14.80	100	1.3
862	800283.28	368063.34	15.03	100	1.5
863	800262.50	368062.73	15.24	100	1.5
864	800242.32	368036.06	15.61	100	1.5
865	800237.37	368042.82	15.60	100	1.5
866	800237.39	368062.02	15.23	100	1.5
867	800198.17	368062.58	15.66	100	1.5
868	800194.98	368062.41	15.61	100	1.35
871	800222.55	368090.13	15.46	100	1.5
872	800219.39	368090.57	15.64	100	1.5
873	800186.38	368089.95	15.80	100	1.5
874	800184.41	368090.07	15.82	100	1.5
875	800149.80	368088.98	15.97	100	1.5
876	800147.66	368089.07	15.97	100	1.4
877	800113.02	368089.92	16.20	100	1.5
878	800111.76	368090.27	16.21	100	1.5
879	800092.12	368092.62	16.51	100	1.45
880	800241.40	368116.91	15.98	100	1.5
881	800238.68	368138.95	16.84	100	1.5
882	800229.52	368156.12	17.61	100	1.5
883	800206.92	368141.06	17.03	100	1.5
884	800218.90	368116.63	16.32	100	1.5
885	800188.44	368114.89	16.45	100	1.5
886	800154.94	368142.92	17.59	100	1.5
887	800139.61	368139.98	17.33	100	1.5
888	800119.88	368137.20	17.14	100	1.5
889	800089.30	368124.02	17.00	100	1.5
890	800058.35	368106.428	16.712	100	1.4

REF	REVISIONS	BY	DATE
B	AS BUILT FINAL	MPD	13.05.14
A	AS BUILT	MPD	02.05.14

ORIGINATOR: MPD DATE: 02.05.14 SIGNED:
DRAWN: TSC DATE: 02.05.14 SIGNED:
CHECKED: GPR DATE: 02.05.14 SIGNED:
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PROJECT: Central
THE LAKES (2012) LTD, TAURANGA

TITLE: STAGE 2QRST CIVILS
STORMWATER RETICULATION AS BUILT PLAN
SHEET 3 OF 3
TCC IP 21332

ISSUE STATUS: AS BUILT
PROJECT No: 1510-133562-02
SCALES: A1
DRAWING No: 133562-2-AB102
REV B

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