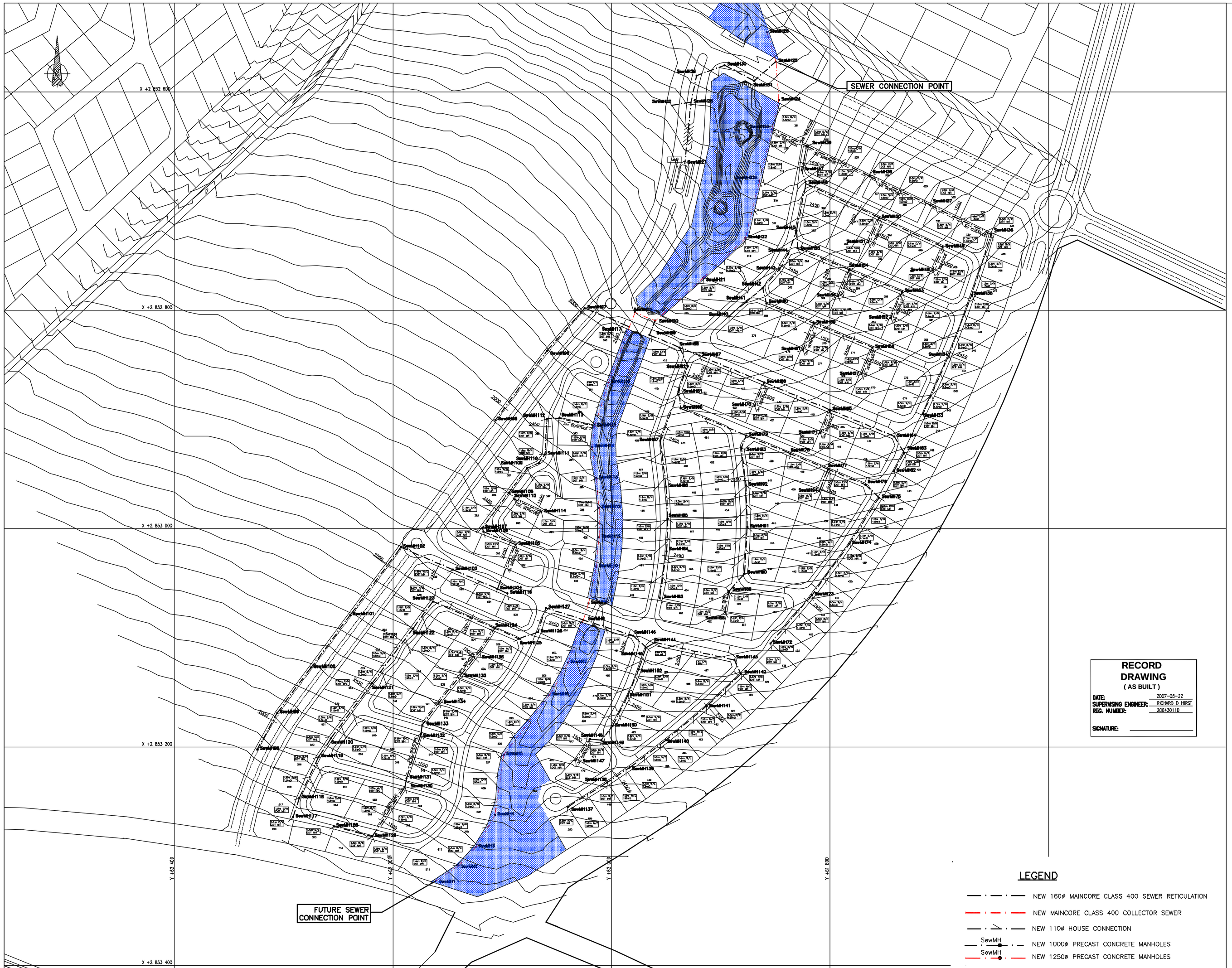

COORDINATE LIST

Lo 29

SEWER A

MH No.	Y-COORD	X-COORD
CONST:	60000.000	2850000.000
SewMH1	2160.821	3322.517
SewMH2	2136.808	3308.577
SewMH3	2124.045	3291.624
SewMH4	2106.537	3282.317
SewMH5	2088.543	3266.873
SewMH6	2058.599	3152.377
SewMH7	2036.663	3122.778
SewMH8	2025.587	3083.506
SewMH9	2020.903	3068.506
SewMH10	2013.779	3034.866
SewMH11	2011.172	3007.829
SewMH12	2011.128	2980.692
SewMH13	2013.775	2953.682
SewMH14	2017.549	2924.961
SewMH15	2015.393	2906.811
SewMH16	2002.511	2865.941
SewMH17	1983.481	2814.510
SewMH19	1978.216	2801.834
SewMH20	1959.729	2808.492
SewMH21	1915.736	2770.010
SewMH22	1877.219	2733.761
SewMH22A	1864.520	2681.513
SewMH23	1853.002	2634.123
SewMH24	1846.548	2607.572
SewMH25	1849.229	2572.077
SewMH26	1857.545	2545.333
SewMH27	1932.517	2665.366
SewMH28	1926.885	2639.496
SewMH29	1921.879	2584.909
SewMH30	1866.210	2575.388
SewMH31	1868.085	2589.916
SewMH32	1944.459	2612.416
SewMH33	1714.689	2895.177
SewMH34	1690.839	2841.212
SewMH35	1668.823	2786.078
SewMH36	1652.127	2730.411
SewMH37	1707.603	2703.806
SewMH38	1762.398	2677.239
SewMH39	1821.086	2649.381
SewMH40	1892.262	2805.482
SewMH41	1876.070	2781.871
SewMH42	1861.284	2779.428
SewMH43	1846.021	2762.010
SewMH44	1837.920	2748.160
SewMH45	1830.276	2726.831
SewMH46	1821.772	2683.946
SewMH47	1825.452	2671.400
SewMH48	1705.731	2763.460
SewMH49	1696.323	2742.017
SewMH50	1754.747	2714.973
SewMH51	1764.675	2737.599
SewMH52	1743.880	2807.055
SewMH53	1733.834	2782.503
SewMH54	1782.244	2762.751
SewMH55	1829.210	2743.296
SewMH56	1792.289	2787.002
SewMH57	1770.801	2858.250
SewMH58	1760.755	2833.998
SewMH59	1814.525	2811.725
SewMH60	1858.084	2793.690
SewMH61	1824.571	2835.977
SewMH62	1741.085	2947.459
SewMH63	1731.934	2930.309
SewMH64	1740.734	2915.461
SewMH65	1799.579	2891.086
SewMH66	1858.893	2866.103
SewMH67	1919.486	2841.414
SewMH68	1937.368	2834.010
SewMH69	1965.110	2822.519
SewMH70	1868.676	2887.306
SewMH71	1805.302	2912.289
SewMH72	1854.204	3105.077
SewMH73	1816.331	3060.688
SewMH74	1781.728	3013.715
SewMH75	1754.771	2971.584
SewMH76	1767.135	2959.737
SewMH77	1801.317	2945.589
SewMH78	1835.881	2931.210
SewMH79	1876.359	2914.484
SewMH80	1936.356	2889.632
SewMH81	1837.944	2873.179
SewMH82	1929.859	2851.133
SewMH83	1955.574	3063.379
SewMH84	1948.222	3020.670
SewMH85	1948.171	2991.012
SewMH86	1941.673	2981.437
SewMH87	1954.955	2919.567
SewMH88	1865.787	3076.660
SewMH89	1892.198	3057.263
SewMH90	1878.013	3041.179
SewMH91	1875.339	2998.324
SewMH92	1878.844	2960.085
SewMH93	1880.834	2925.789
SewMH94	1908.543	2965.428
SewMH95	2105.889	2900.323
SewMH96	2058.671	2836.837
SewMH97	2024.312	2787.997
SewMH98	2324.040	3202.153
SewMH99	2305.822	3168.715
SewMH100	2274.939	3127.256
SewMH101	2236.985	3078.693
SewMH102	2192.780	3016.566
SewMH103	2144.967	3037.594
SewMH104	2104.318	3055.131
SewMH105	2087.454	3014.444
SewMH106	2116.878	3002.703
SewMH107	2117.872	2999.185
SewMH108	2093.834	2966.917
SewMH109	2077.120	2944.479
SewMH110	2088.304	2939.885
SewMH111	2060.613	2931.928
SewMH112	2058.943	2898.231
SewMH113	2047.667	2898.782
SewMH114	2063.731	2884.656
SewMH115	2066.207	2873.181
SewMH116	2095.023	3058.141
SewMH117	2291.386	3284.216
SewMH118	2285.480	3246.487
SewMH119	2267.849	3208.930
SewMH120	2258.359	3181.789
SewMH121	2218.808	3141.377
SewMH122	2181.362	3091.111
SewMH123	2163.215	3068.750
SewMH124	2106.517	3091.211
SewMH125	2084.599	3100.667
SewMH126	2087.109	3094.760
SewMH127	2058.822	3072.549
SewMH128	2254.205	3272.536
SewMH129	2219.025	3281.844
SewMH130	2182.010	3236.750
SewMH131	2187.819	3228.737
SewMH132	2174.180	3187.757
SewMH133	2172.988	3179.666
SewMH134	2157.635	3158.713
SewMH135	2136.397	3132.186
SewMH136	2120.380	3112.289
SewMH137	2038.635	3254.929
SewMH138	2003.616	3232.466
SewMH139	1983.216	3218.688
SewMH140	1949.889	3193.579
SewMH141	1912.920	3162.828
SewMH142	1881.149	3133.003
SewMH143	1897.154	3120.146
SewMH144	1959.892	3104.214
SewMH145	1958.099	3108.811
SewMH146	1978.853	3095.101
SewMH147	2032.631	3212.190
SewMH148	2019.335	3182.616
SewMH149	2009.065	3193.536
SewMH150	1995.776	3160.854
SewMH151	1984.888	3153.140
SewMH152	1974.919	3129.125

PIPE DATA LIST

MH – MH	DISTANCE (m)	DIAM (mm)
SewMH1 – SewMH2	25.22	200
SewMH2 – SewMH3	23.15	200
SewMH3 – SewMH4	34.14	200
SewMH4 – SewMH5	55.92	200
SewMH5 – SewMH6	68.85	200
SewMH6 – SewMH7	34.10	200
SewMH7 – SewMH8	41.72	200
SewMH8 – SewMH9	15.72	250
SewMH9 – SewMH10	34.40	250
SewMH10 – SewMH11	27.15	250
SewMH11 – SewMH12	27.14	250
SewMH12 – SewMH13	27.14	250
SewMH13 – SewMH14	28.97	250
SewMH14 – SewMH15	19.27	250
SewMH15 – SewMH16	41.90	250
SewMH16 – SewMH17	54.48	250
SewMH17 – SewMH18	14.10	250
SewMH19 – SewMH20	20.01	250
SewMH20 – SewMH21	59.11	250
SewMH21 – SewMH22	52.89	250
SewMH22 – SewMH22A	53.77	250
SewMH22A – SewMH23	48.77	250
SewMH23 – SewMH24	27.32	250
SewMH24 – SewMH25	35.80	250
SewMH25 – SewMH26	28.01	315
SewMH27 – SewMH28	56.15	160
SewMH28 – SewMH29	25.04	200
SewMH29 – SewMH30	27.39	200
SewMH30 – SewMH31	30.77	200
SewMH31 – SewMH25	26.89	200
SewMH32 – SewMH28	17.84	200
SewMH33 – SewMH34	59.00	160
SewMH34 – SewMH35	58.97	160
SewMH35 – SewMH36	58.44	160
SewMH36 – SewMH37	61.33	160
SewMH37 – SewMH38	61.44	160
SewMH38 – SewMH39	64.42	160
SewMH39 – SewMH23	35.38	160
SewMH40 – SewMH41	21.45	160
SewMH41 – SewMH42	19.39	160
SewMH42 – SewMH43	22.78	160
SewMH43 – SewMH44	16.48	160
SewMH44 – SewMH45	22.68	160
SewMH45 – SewMH46	43.72	160
SewMH46 – SewMH47	13.07	160
SewMH47 – SewMH39	22.45	160
SewMH48 – SewMH49	23.42	160
SewMH49 – SewMH50	64.38	160
SewMH50 – SewMH46	73.85	160
SewMH51 – SewMH50	24.71	160
SewMH52 – SewMH53	26.25	160
SewMH53 – SewMH54	52.40	160
SewMH54 – SewMH55	50.84	160
SewMH55 – SewMH45	16.50	160
SewMH56 – SewMH54	25.25	160
SewMH57 – SewMH58	28.25	160
SewMH58 – SewMH59	58.20	160
SewMH59 – SewMH60	47.13	160
SewMH60 – SewMH42	14.52	160
SewMH61 – SewMH59	28.25	160
SewMH62 – SewMH63	18.44	160
SewMH63 – SewMH64	17.28	160
SewMH64 – SewMH65	63.69	160
SewMH65 – SewMH66	65.28	160
SewMH66 – SewMH67	64.51	160
SewMH67 – SewMH68	19.35	160
SewMH68 – SewMH69	30.03	160
SewMH69 – SewMH70	14.10	160
SewMH70 – SewMH66	22.95	160
SewMH71 – SewMH65	22.93	160
SewMH72 – SewMH73	58.41	160
SewMH73 – SewMH74	58.29	160
SewMH74 – SewMH75	50.02	160
SewMH75 – SewMH76	17.13	160
SewMH76 – SewMH77	37.00	160
SewMH77 – SewMH78	37.52	160
SewMH78 – SewMH79	43.70	160
SewMH78 – SewMH80	64.64	160
SewMH80 – SewMH81	16.53	160
SewMH81 – SewMH83	23.48	160
SewMH82 – SewMH68	18.70	160
SewMH83 – SewMH84	43.18	160
SewMH84 – SewMH85	29.98	160
SewMH85 – SewMH86	29.81	160
SewMH86 – SewMH87	42.20	160
SewMH87 – SewMH91	49.41	160
SewMH88 – SewMH89	19.70	160
SewMH89 – SewMH90	21.47	160
SewMH90 – SewMH91	42.94	160
SewMH91 – SewMH92	38.25	160
SewMH92 – SewMH93	34.58	160
SewMH93 – SewMH79	12.18	160
SewMH94 – SewMH77	21.50	160
SewMH95 – SewMH96	79.04	160
SewMH96 – SewMH97	51.93	160
SewMH97 – SewMH17	44.19	160
SewMH98 – SewMH99	38.08	160
SewMH99 – SewMH100	51.70	160
SewMH100 – SewMH101	60.18	160
SewMH101 – SewMH102	77.34	160
SewMH102 – SewMH103	52.07	160
SewMH103 – SewMH104	44.27	160
SewMH104 – SewMH105	44.04	160
SewMH105 – SewMH106	31.58	160
SewMH106 – SewMH107	3.66	160
SewMH107 – SewMH108	40.24	160
SewMH108 – SewMH109	27.98	160
SewMH109 – SewMH110	11.71	160
SewMH110 – SewMH111	9.87	160
SewMH111 – SewMH112	32.74	160
SewMH112 – SewMH113	11.28	160
SewMH113 – SewMH15	33.03	160
SewMH114 – SewMH115	27.03	160
SewMH115 – SewMH106	8.42	160
SewMH116 – SewMH104	10.12	160
SewMH117 – SewMH118	18.86	160
SewMH118 – SewMH119	41.49	160
SewMH119 – SewMH120	20.84	160
SewMH120 – SewMH121	62.86	160
SewMH121 – SewMH122	62.86	160
SewMH122 – SewMH123	30.38	160
SewMH123 – SewMH124	61.75	160
SewMH124 – SewMH125	23.87	160
SewMH125 – SewMH126	18.48	160
SewMH126 – SewMH127	23.35	160
SewMH127 – SewMH8	36.04	160
SewMH128 – SewMH129	36.39	160
SewMH129 – SewMH130	54.17	160
SewMH130 – SewMH131	8.13	160
SewMH131 – SewMH132	43.13	160
SewMH132 – SewMH133	8.18	160
SewMH133 – SewMH134	25.98	160
SewMH134 – SewMH135	33.98	160
SewMH135 – SewMH136	25.54	160
SewMH136 – SewMH124	25.23	160
SewMH137 – SewMH138	42.45	160
SewMH138 – SewMH136	24.82	160
SewMH139 – SewMH140	41.66	160
SewMH140 – SewMH141	48.16	160
SewMH141 – SewMH142	43.58	160
SewMH142 – SewMH143	14.18	160
SewMH143 – SewMH144	74.58	160
SewMH144 – SewMH145	9.32	160
SewMH145 – SewMH146	15.91	160
SewMH146 – SewMH8	48.00	160
SewMH147 – SewMH148	23.66	160
SewMH148 – SewMH140	10.31	160
SewMH149 – SewMH150	16.25	160
SewMH150 – SewMH151	31.09	160
SewMH151 – SewMH152	26.00	160
SewMH152 – SewMH145	21.43	160

TOTAL LENGTHS OF PIPING MATERIAL
MH CENTRE TO MH CENTRE

DIAMETER (mm)	LENGTH (m)
315	28.01
250	507.71
200	410.82
160	4261.02
TOTAL LENGTH :	5287.56

RECORD DRAWING
(AS BUILT)

DATE: 2007-05-22
SUPERVISING ENGINEER: RICHARD D HIRST
REG. NUMBER: 20043011D
SIGNATURE: _____

LEGEND

- NEW 160ø MAINCORE CLASS 400 SEWER RETICULATION
- NEW MAINCORE CLASS 400 COLLECTOR SEWER
- NEW 110ø HOUSE CONNECTION
- SewMH — NEW 1000ø PRECAST CONCRETE MANHOLES
- SewMH — NEW 1250ø PRECAST CONCRETE MANHOLES

No:	AMENDMENTS	BY:	APPROVED:	DATE:	DRG. No.:	REFERENCE
2	DRAWING RECORDED AS BUILT	MLM	RDH	22.05.07		
1	CONTOURS REVISED	MLM	RDH	28.09.06		
0	ISSUED FOR CONSTRUCTION	MLM	RDH	14.08.06		
E	ISSUED FOR APPROVAL	MLM	RDH	01.08.06		
D	ISSUED WITH TENDER DOCUMENT	MLM	RDH	29.06.06		
C	ISSUED FOR APPROVAL	MLM	RDH	06.06.06		
B	ISSUED FOR INFORMATION	MLM	RDH	30.05.06	8700/275	OVERALL OUTFALL SEWER NETWORK

"AS BUILT"

PROJECT ENGINEER: _____ SIGNATURE _____ DATE

INSPECTOR OF WORKS: _____ SIGNATURE _____ DATE

REMARKS:

DRAWING NO. 8785/200

FOR KLM

RECEIVED
SIGN WHEN APPLICABLE

MANAGER: INFRASTRUCTURE PROVISION DATE:

MANAGER: WATER DISTRIBUTION DATE:

MANAGER: BULK WATER SERVICES DATE:

MANAGER:WATER SERVICES DEV. & REGULATIONS DATE:

MANAGER: WASTE WATER COLLECTION DATE:

MANAGER: WASTE WATER TREATMENT DATE:

DESIGNED M LE MAITRE

DRAWN M LE MAITRE

CHECKED R D HIRST

DATE 30 MAY 2006

SCALE 1 : 1250

KUNGWINI LOCAL MUNICIPALITY
SERVICE DELIVERY
WATER & SANITATION

CONSULTANT:
SiVEST
ENGINEERING DIVISION
51 Wessel Road
Rivonia 2128 South Africa
P.O. Box 2921 Rivonia 2128
Phone: (+27 11) 803 6844
Fax: (+27 11) 803 7272
e-mail: info@sivest.co.za
www.sivest.co.za

SECTION:

FILING CATEGORY:

DESCRIPTION:

TIJGER VALLEY EXTENTION 10
GENERAL ARRANGEMENT OF SEWER RETICULATION

MANAGER / PROJECT MANAGER: | GENERAL MANAGER : | CONTRACT No. : | CTMM DRAWING No. : 2 REVISION