LIST OF POINTS

Sl No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL			DRAIN DIMENSIONS	
			Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
1	A1 (OL)	C	3.428	1.951	4.294	1.600	1.277
2	A2	C	4.441	2.384	4.465	0.600	0.857
3	A3	C	4.367	2.590	4.335	1.200	1.227
4	A4	C	4.501	–	4.346	–	–
5	A5	C	4.287	3.338	4.108	1.200	–
6	A6	C	4.305	–	4.155	–	–
7	A6A	C	4.230	3.101	4.114	–	0.929
8	A7	C	3.993	2.948	3.847	1.200	0.845
9	B1 (OL)	C	4.322	–	4.352	–	–
10	B2	C	4.913	–	4.729	–	–
11	B3	C	4.657	3.963	4.469	–	0.074
12	B4	C	4.247	3.112	4.089	0.700	0.615
13	B5	C	4.260	3.045	4.018	0.650	0.715
14	B6	C	4.338	3.723	4.195	0.700	0.335
15	B7	C	4.493	3.770	4.245	0.900	0.423
16	B8	C	5.172	4.418	4.987	0.700	0.404
17	B9	C	4.944	4.773	4.723	–	0.171
18	B10	C	4.650	3.748	4.645	1.100	0.702
19	B11	C	4.266	3.753	4.105	0.850	0.213
20	B12	C	4.142	3.426	4.081	–	0.536
21	B13	C	4.282	2.950	4.068	0.700	0.182
22	B14	C	4.344	3.843	4.126	0.900	0.151
23	B15	C	4.443	4.325	4.327	–	–
24	B16	C	5.259	4.476	5.094	0.950	0.583
25	B17	C	4.972	3.927	4.751	0.900	0.765
26	B18	C	4.734	3.807	4.516	0.750	0.727
27	B19	C	4.954	3.983	4.814	0.970	0.821
28	B20	C	4.829	3.979	4.789	0.700	0.670
29	B21	C	4.744	–	4.845	–	–
30	B22	C	4.749	4.588	4.727	–	0.161
31	B23	C	4.724	3.778	4.784	0.650	0.666
32	B24	C	4.674	–	4.705	–	–
33	B25	C	4.862	4.162	4.798	1.000	0.500
34	B26	C	4.727	–	4.708	–	–
35	B27	C	4.940	4.068	4.708	1.200	0.622
36	B28	C	5.070	4.422	4.957	1.100	0.448
37	B29	C	4.958	4.005	4.759	0.650	0.433
38	B30	C	4.583	3.608	4.560	–	–
39	B31	C	4.564	4.039	4.496	–	0.375
40	B32	C	4.398	3.942	4.421	–	0.306
41	B33	C	4.567	3.413	4.342	–	0.874
42	B34	C	4.398	3.671	4.325	0.950	0.327
43	B35	C	4.225	3.581	4.232	0.850	0.494
44	B36	C	4.163	3.511	4.202	0.700	0.532
45	B37	C	4.284	–	4.370	–	–
46	B38	C	4.167	3.663	4.150	0.700	0.384
47	B39	C	4.348	3.639	4.289	0.750	0.459
48	B40	C	4.296	4.122	4.271	–	–
49	B41	C	4.504	3.902	4.396	0.900	0.182
50	B42	C	4.563	3.814	4.396	1.000	0.499
51	B43	C	4.288	3.340	4.188	0.700	0.768
52	B44	C	4.246	4.079	3.997	–	0.167
53	B45	C	3.853	2.414	3.840	0.950	0.539
54	B46	C	4.133	3.168	4.132	0.600	0.765
55	B47	C	4.063	2.982	3.844	0.650	0.801
56	B48	C	4.141	3.365	4.127	0.900	0.576
57	B49	C	4.241	3.281	4.126	0.860	0.760
58	B50	C	3.863	3.294	3.814	0.650	0.209
59	B51	C	3.930	3.380	3.689	0.700	0.330
60	B52	C	3.999	3.386	4.010	0.700	0.413
61	B53	C	4.578	3.980	4.327	0.700	0.598
62	B54	C	4.423	2.808	4.225	1.000	0.965
63	B55	C	4.241	2.910	4.176	1.000	0.731
64	B56	C	3.985	3.194	3.796	0.950	0.041
65	C1 (OL)	C	4.075	–	4.364	–	–
66	C2	C	3.562	2.764	3.683	0.470	0.728
67	C3	C	3.413	2.528	3.498	0.470	0.815
68	D1 (OL)	C	4.441	3.787	4.353	0.650	0.504
69	D2	C	4.431	3.751	4.220	0.650	0.530
70	E1 (OL)	C	3.706	3.117	3.637	0.700	0.309
71	E2	C	4.684	3.710	4.513	0.700	0.824
72	E3	C	4.914	4.135	4.801	0.650	0.599
73	E4	C	4.991	4.882	4.818	–	–
74	F1	C	4.413	3.332	4.333	1.100	0.931
75	F2	C	4.819	3.912	4.813	0.650	0.707
76	G1	C	4.690	3.945	4.345	0.950	0.465
77	G2	C	4.536	4.185	4.539	0.600	0.201
78	G3	C	4.361	3.577	4.290	0.650	0.434

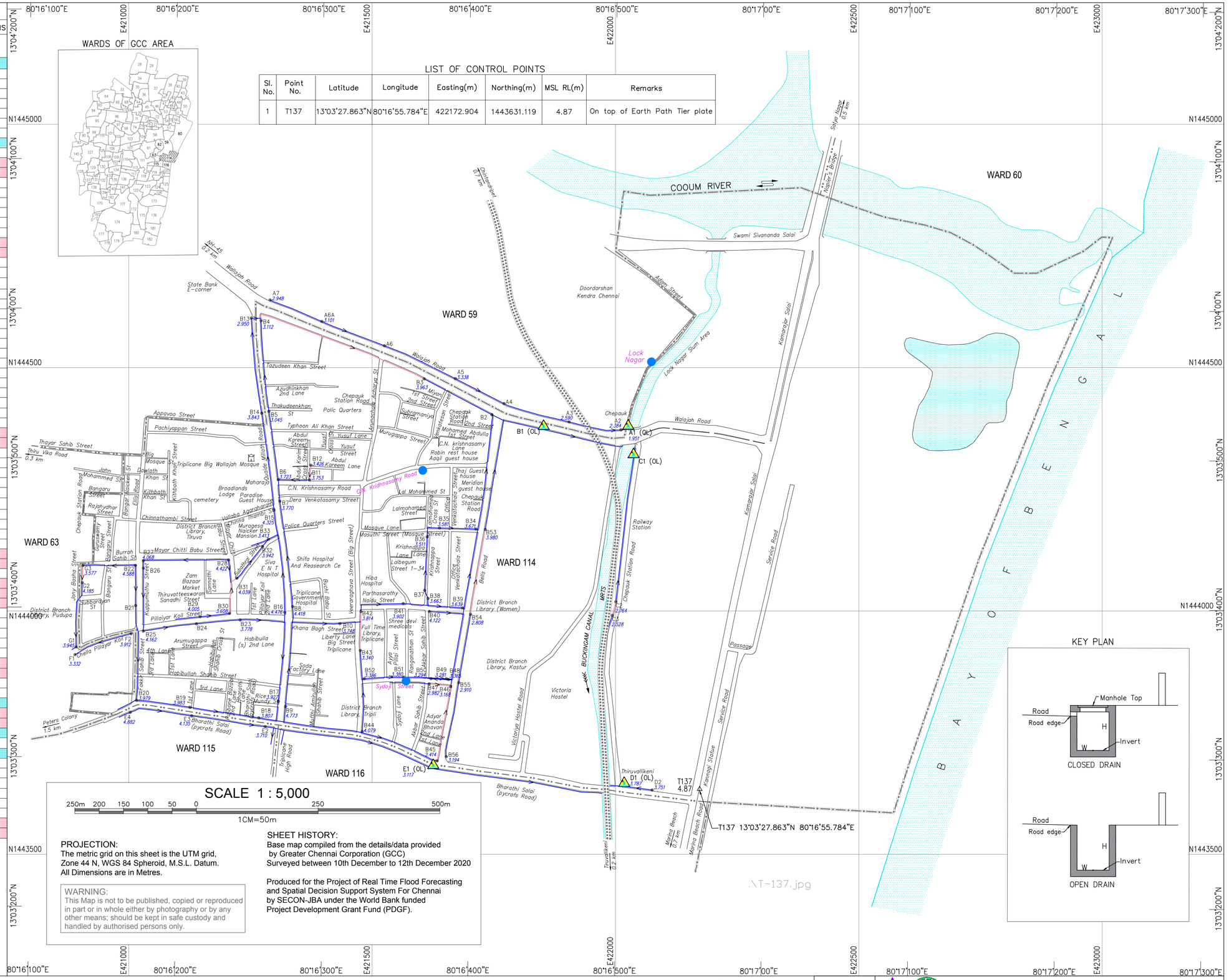
LEGEND

- Drain Outlet
- Drain With Reverse Gradient
- "–" : Manhole's Inside not Accessible

WARDS OF GCC AREA

LIST OF CONTROL POINTS

Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)	Remarks
1	T137	13°03'27.863"N	80°16'55.784"E	422172.904	1443631.119	4.87	On top of Earth Path Tier plate


80°16'100"E
80°16'200"E
80°16'300"E
80°16'400"E
80°16'500"E
80°17'00"E
80°17'100"E
80°17'200"E
80°17'300"E
13°04'200"N
13°04'100"N
13°04'00"N
13°03'500"N
13°03'400"N
13°03'300"N
13°03'200"N
N1445000
N1444500
N1444000
N1443500
E421000
E421500
E422000
E422500
E423000
WARD 59
WARD 60
WARD 63
WARD 114
WARD 115
WARD 116
COOUM RIVER
BAY OF BENGAL
Walajah Road
Wall 45 0.3 km
State Bank E-corner
Doordarshan Kendra Chennai
Adam Street
Lock Nagar
Lock Nagar Slum Area
Kamarajar Salai
Swami Sivananda Salai
Satya Nagar 0.5 km
Napier's Bridge
Chintadripet 0.7 km
Chepauk
Chepauk Station Road
Railway Station
Service Road
Passage
Victoria Hostel
Victoria Hostel Road
District Branch Library, Kastur
District Branch Library (Women)
BUCKINGAM CANAL
MRTS
Bells Road
Kannigi Statue
Marina Beach Road
Marina Beach 0.2 km
Triplicane 0.2 km
Bharathi Salai (pycrafs Road)
Thiruvallikeni
Thiruvallikeni High Road
Peters Colony 1.5 km
Thayar Sahib Street
Thiru Vika Road 0.3 km
Appavoo Street
Pachiyappan Street
Thakudeenkhan St
Tazudeen Khan Street
Typhoon Ali Khan Street
Abdul Kareem Street
Yusuf Street
Abdul Kareem Lane
Murugappa Street
Chepauk Station Road
Mohamed Abdulla 1st Street
Mohamed Abdulla 2nd Street
C.N. krishnasamy Lane
Robin rest house
Aaqil guest house
Thaj Guest house
Meridian guest house
C.N. Krishnasamy Road
Dera Venkatasamy Street
Police Quarters Street
Masuthi Street (Mosque Street)
Mosque Lane
Lalmohamed Street
Lal Mohamed St
Krishnappa Lane
Labegum Street 1~34
Hiba Hospital
Parthasarathy Naidu Street
Veeraraghava Street (Big Street)
Triplicane Government Hospital
Shifa Hospital And Reasearch Ce
Siva E.N.T Hospital
Full Time Library, Triplicane
Shree devi medicals
Liberty Lane
Big Street Triplicane
Khana Bagh Street
Soda Factory Lane
Sydoji Street
Adyar Ananda Bhavan
Adyar Ananda Bhavan 2nd Lane
Habibullah Shahib Street
Habibullah (s) 2nd Lane
Habibullah Shahib Street
Arumugappa Street
Pillaiyar Koil Street
Pillaiyar Koil 1st Lane
Pillaiyar Koil 2nd Lane
Pillaiyar Koil 3rd Lane
Pillaiyar Koil 4th Lane
Mayor Chitti Babu Street
Burrah Sahib St
Nabbarayan St
Jony Basha Street
Chinnathambi Street
Vallabha Agraharam Street
Thambia Thambi St
Muragesa Naicker Mansion
Muthial Street
Sonnathi Lane
Thiruvateeswaran Sanadhi Street
Zam Bazaar Market
Kuppumuthu Street
Kothandaraman Koil Street
Kothandaraman Koil 1st Lane
Kothandaraman Koil 2nd Lane
Kothandaraman Koil 3rd Lane
Kothandaraman Koil 4th Lane
Bharathi Salai (pycrafs Road)
Triplicane Big Wallajah Mosque
Broadlands Lodge
Paradise Guest House
Maharaja
cemetery
District Branch Library, Tiruva
Big Mosque
Gowlath
Khan St
Kithbath Khan St
Triplicane High Road
Mint Road
Ellis Road
Bonnier Road
Cheapauk Station Road
Sungaswamy Street
Bangaru Street
John Mohammed St
Rajahyathar Street
Burrah Sahib St
Nabbarayan St
Jony Basha Street
Bangaru St
Sonnathi Street
Thambia Thambi St
Muragesa Naicker Mansion 3.411
Muthial Street
Shifa Hospital And Reasearch Ce
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