LIST OF POINTS

SI No.	MANHOLE ID	DRAIN Closed(C)/Open(O)	MSL LEVEL Drain Top(m)	MSL LEVEL Invert (m)	MSL LEVEL Road Edge (m)	DRAIN DIMENSIONS Width (m)	DRAIN DIMENSIONS Depth (m)
1	A1 (OL)	C	8.696	7.904	8.438	0.710	0.541
2	A2	C	8.676	7.841	8.648	0.803	0.608
3	B1 (OL)	C	7.815	7.337	7.686	–	–
4	B2	C	8.078	6.977	7.915	0.985	0.837
5	B3	C	8.094	–	7.984	–	–
6	B4	C	8.753	7.645	8.491	1.102	0.653
7	B5	C	8.481	7.492	8.195	0.995	0.554
8	B6	C	8.877	7.669	8.707	1.213	0.749
9	B7	C	8.892	7.788	8.745	1.115	0.621
10	B8	C	9.098	8.111	8.957	0.605	0.595
11	B9	C	9.014	7.851	8.841	1.102	0.878
12	B10	C	9.078	8.140	8.855	1.109	0.731
13	B11	C	8.984	7.875	8.901	1.095	0.881
14	B12	C	9.246	8.039	9.051	1.102	0.989
15	B13	C	9.278	–	9.158	–	–
16	B14	C	9.226	–	9.215	–	–
17	B15	C	9.395	–	9.353	–	–
18	B16	C	9.450	8.427	9.223	1.009	0.796
19	B17	C	9.187	8.395	9.176	0.758	0.582
20	B18	C	9.175	8.432	9.155	0.751	0.543
21	B19	C	8.905	8.200	8.931	0.658	0.470
22	B20	C	8.992	8.077	9.600	0.655	0.705
23	B21	C	9.442	8.504	9.508	0.689	0.725
24	B22	C	8.975	8.383	9.036	0.801	0.390
25	B23	C	8.932	8.415	8.952	0.805	0.307
26	B24	C	9.274	8.639	9.198	0.753	0.432
27	B25	C	9.416	8.395	9.353	0.653	0.811
28	B26	C	9.000	8.348	8.965	0.603	0.438
29	B27	C	9.042	8.724	8.907	0.616	0.090
30	B28	C	8.276	7.161	8.190	1.102	0.909
31	B29	C	8.457	7.354	8.105	1.008	0.888
32	B30	C	8.488	7.486	8.297	1.104	0.794
33	B31	C	9.335	8.322	9.177	0.955	0.718
34	B32	C	9.173	8.311	9.144	0.955	0.547
35	B33	C	8.741	8.128	8.718	0.685	0.424
36	B34	C	8.862	8.089	8.747	0.609	0.555
37	B35	C	9.051	8.478	8.822	0.608	0.348
38	B36	C	8.651	7.938	8.435	0.615	0.520
39	B37	C	8.642	8.017	8.621	0.607	0.443
40	B38	C	9.011	8.099	8.813	0.651	0.684
41	B39	C	8.592	7.919	8.585	0.603	0.484
42	B40	C	8.627	8.032	8.521	0.601	0.413
43	B41	C	8.369	7.750	8.358	0.608	0.434
44	B42	C	8.700	7.635	8.607	0.615	0.853
45	B43	C	8.420	7.807	8.471	0.613	0.385
46	B44	C	8.248	–	8.261	–	–
47	B45	C	8.230	–	8.143	–	–
48	B46	C	8.154	7.242	8.183	0.808	0.657
49	C1 (OL)	C	8.104	–	8.083	–	–
50	C2	C	8.076	6.808	8.041	0.905	1.010
51	C3	C	7.791	6.966	7.847	0.901	0.564
52	C4	C	7.973	7.070	8.026	0.912	0.648
53	C5	C	7.803	6.878	7.871	0.907	0.707
54	C6	C	8.037	7.244	7.838	0.755	0.604
55	C7	C	7.891	7.193	7.865	0.781	0.503
56	C8	C	8.044	6.855	7.930	0.755	0.779

LIST OF POINTS

SI No.	MANHOLE ID	DRAIN Closed(C)/Open(O)	MSL LEVEL Drain Top(m)	MSL LEVEL Invert (m)	MSL LEVEL Road Edge (m)	DRAIN DIMENSIONS Width (m)	DRAIN DIMENSIONS Depth (m)
57	C9	C	8.016	–	8.026	–	–
58	D1	C	7.154	6.267	7.235	0.701	0.702
59	D2	C	7.755	–	7.743	–	–
60	D3	C	7.516	6.804	7.610	0.710	0.510
61	D4	C	7.788	6.880	7.639	0.635	0.680
62	D5	C	8.122	7.441	7.957	0.610	0.398
63	E1	C	7.021	6.120	7.000	1.001	0.650
64	E2	C	7.266	5.925	7.270	1.001	1.040
65	E3	C	7.855	7.154	7.914	1.100	0.500
66	E4	C	8.137	7.236	8.062	1.101	0.750
67	E5	C	8.274	7.523	7.975	1.101	0.300
68	E6	C	8.462	7.661	8.269	1.101	0.350
69	E7	C	8.444	7.443	8.196	1.101	0.550
70	E8	C	9.015	7.665	8.822	1.101	0.899
71	E9	C	7.902	6.401	7.820	1.001	1.300
72	E10	C	8.158	6.657	8.157	1.001	1.300
73	E11	C	7.969	6.768	7.985	0.901	1.050
74	E12	C	7.972	7.165	7.972	0.712	0.524
75	E13	C	8.031	7.138	7.814	0.618	0.672

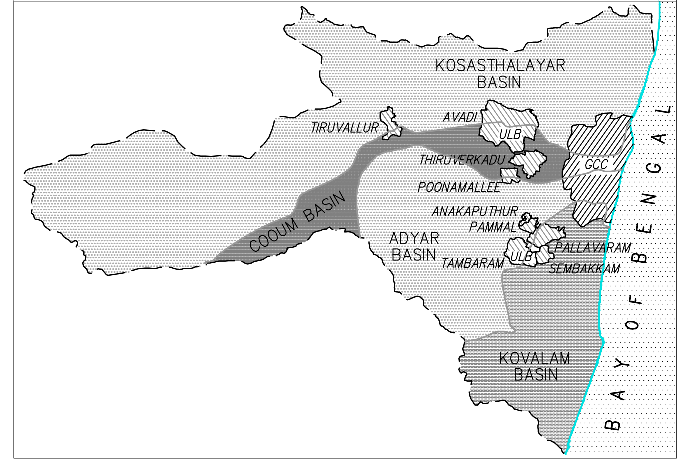
LEGEND

Drain Outlet

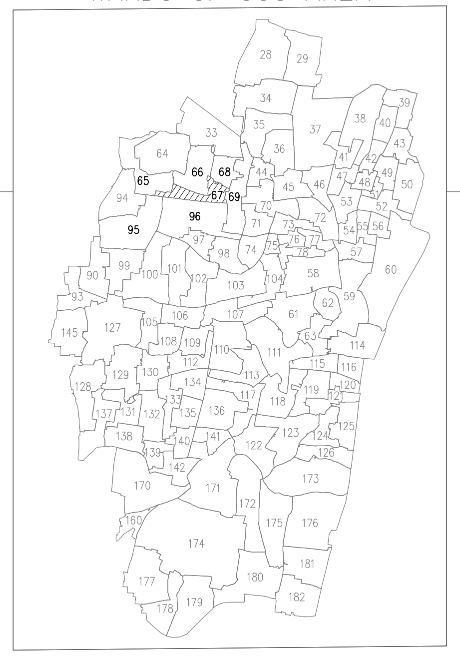
Drain With Reverse Gradient

"–" : Manhole's Inside not Accessible

INDEX OF GCC & ULB's AREA



WARDS OF GCC AREA



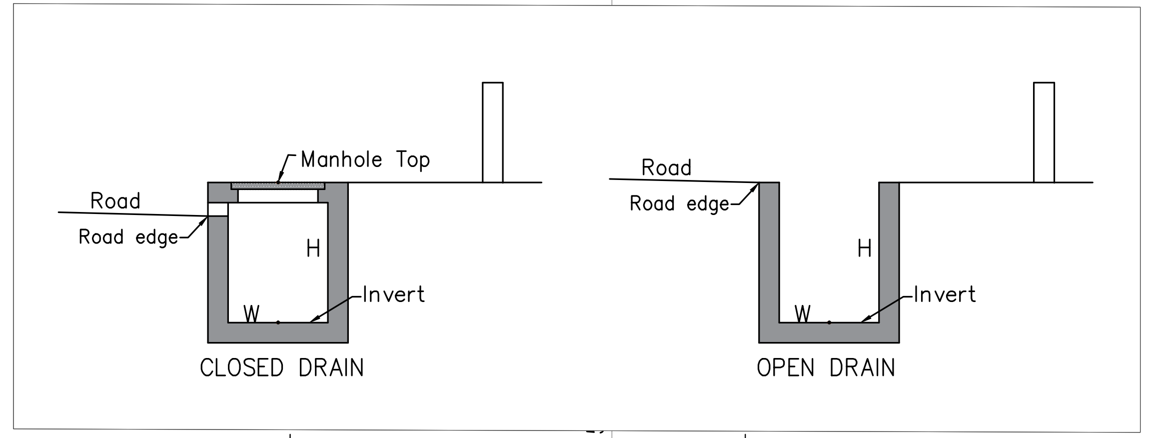
Control Point Located on Ward–64

T81 13°07'38.775"N 80°13'03.808"E

LIST OF CONTROL POINTS

Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)	Remarks
1	T81	13°07'38.775"N	80°13'03.808"E	415210.106	1451360.120	8.74	On top of RCC Basement

KEY PLAN



Roads: main; others; mud. Cart track.

Temple. Chhatri. Shrine. Mosque. Idgah. Tomb. Church.

Railways: broad gauge with station; bridge; metro.

Boundary: state; district; taluk.

Boundary: CMA; zone; ward.

Roads: without drain; with oneside drain; with both side drain.

Road with reverse gradient drain.

Spaced names: locality; village. A L W A R P E T Kolathur

Drains: stormwater; feeder with flow direction. Invert level.

Canal. Outlet.Inundated area by privious flood,.

Bridge with piers. Culvert. Flyover. Subway. Sewage line.

River:dry with water channel; with island & rocks.Tidal river.

Streams: perennial; non perennial; Single line: defined. Tank.

Rain water Harvesting.Stormwater pumping station.

SCALE 1 : 5,000

250m 200 150 100 50 0 250 500m

1CM=50m

PROJECTION:
The metric grid on this sheet is the UTM grid, Zone 44 N, WGS 84 Spheroid, M.S.L. Datum.
All Dimensions are in Metres.

WARNING:
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SHEET HISTORY:
Base map compiled from the details/data provided by Greater Chennai Corporation (GCC)
Surveyed between 18th February to 19th February 2021

Produced for the Project of Real Time Flood Forecasting and Spatial Decision Support System For Chennai by SECON-JBA under the World Bank funded Project Development Grant Fund (PDGF).

CLIENT	GREATER CHENNAI CORPORATION (GCC) REPRESENTING COMMISSIONERATE OF REVENUE ADMINISTRATION AND DISASTER MANAGEMENT
FUNDED BY	TNUIFSL – PROJECT DEVELOPMENT GRANT FUND (PDGF) (Managed by Tamil Nadu Urban Infrastructure Financial Services Limited)
PROJECT	PLANNING, SETTING UP AND OPERATIONALIZING REAL TIME FLOOD FORECASTING SPATIAL DECISION SUPPORT SYSTEM FOR CHENNAI
TITLE	BASE MAP - STORM WATER DRAIN WARD No. 67, ZONE VI - THIRUVIKA NAGAR
PROJECT CONSULTANTS	SECON (India) - JBA Consulting (U.K.) JV

SHEET No.	SCALE	DRAWING No.	REV.
84 OF 114	1:5000	CFM/SWD/WARD–84	0