

LIST OF POINTS							LIST OF POINTS								
SI No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL		DRAIN DIMENSIONS		SI No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL		DRAIN DIMENSIONS			
			Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)				Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
1	A1 (OL)	C	9.704	8.919	9.536	1.008	0.329	92	G30	C	9.754	8.703	9.561	0.915	0.742
2	A2	C	10.396	9.293	10.160	0.905	0.712	93	G31	C	9.653	8.778	9.510	0.955	0.582
3	A3	C	10.161	9.141	10.088	1.009	0.777	94	G32	C	9.772	8.930	9.682	1.501	0.458
4	A4	C	9.942	9.317	9.819	1.310	0.244	95	G33	C	9.753	8.731	9.573	0.601	0.827
5	A5	C	10.183	8.881	10.111	1.102	0.897	96	G34	C	9.677	8.624	9.900	0.603	0.871
6	B1	C	10.107	9.246	10.114	0.981	0.596	97	G35	C	9.869	8.768	9.761	0.910	0.471
7	C1	C	10.422	9.342	10.199	0.902	0.777	98	G36	C	9.820	8.988	9.677	0.951	0.401
8	D1 (OL)	C	9.839	8.338	9.752	1.408	1.296	99	H1 (OL)	C	9.664	8.562	9.762	0.801	0.781
9	D2	C	9.474	8.243	9.450	0.751	0.773	100	I1 (OL)	C	10.014	8.912	9.787	1.605	0.719
10	D3	C	9.694	8.441	9.620	1.380	0.951	101	J1	C	9.134	7.714	9.236	1.502	1.295
11	D4	C	9.835	8.382	9.970	1.251	0.732	102	J2	C	8.854	7.803	9.033	1.902	0.800
12	D5	C	9.586	8.461	9.834	1.283	0.966	103	J3	C	9.242	8.141	9.034	0.953	0.943
13	D6	C	10.202	8.882	9.714	1.403	0.513	104	J4	C	9.429	8.506	9.207	1.003	0.923
14	D7	C	10.167	9.137	9.728	1.380	0.892	105	J5	C	9.455	8.478	9.216	0.953	0.556
15	D8	C	9.896	8.591	9.779	1.302	0.704	106	J6	C	9.505	8.512	9.336	1.020	0.459
16	D9	C	9.851	8.931	9.585	1.303	0.612	107	J7	C	9.394	—	9.236	—	—
17	D10	C	10.100	8.847	10.062	1.205	0.996	108	J8	C	9.785	8.790	9.268	0.605	0.185
18	D11	C	9.868	8.843	9.706	1.102	0.866	109	J9	C	9.859	8.924	9.682	1.508	0.654
19	D12	C	9.949	8.966	9.583	1.102	0.825	110	J10	C	9.806	8.748	9.595	0.601	0.637
20	D13	C	9.830	9.410	9.676	1.003	0.215	111	J11	C	9.523	8.373	9.313	0.981	0.547
21	D14	C	10.102	9.450	10.228	0.701	0.349	112	J12	C	9.726	8.755	9.340	0.753	0.840
22	D15	C	10.130	9.300	10.145	0.710	0.671	113	J13	C	9.540	8.535	9.251	0.603	0.876
23	D16	C	10.989	10.369	10.961	0.703	0.498	114	J14	C	9.573	8.683	9.555	0.603	0.735
24	D17	C	9.977	9.121	9.824	0.603	0.678	115	J15	C	9.662	8.691	9.530	0.631	0.776
25	D18	C	10.076	9.449	9.925	0.631	0.346	116	J16	C	9.355	8.432	9.541	0.605	0.728
26	D19	C	10.382	—	10.394	—	—	117	J17	C	9.163	7.953	9.427	0.652	1.072
27	D20	C	10.464	9.783	10.241	0.608	0.496	118	K1	C	11.569	10.708	11.121	1.003	0.660
28	D21	C	9.928	8.708	9.874	1.256	1.031	119	K2	C	11.377	10.821	11.190	0.993	0.272
29	D22	C	10.135	8.930	10.218	1.105	1.025	120	K3	C	11.401	10.537	11.186	0.661	0.641
30	D23	C	10.444	9.094	10.277	1.503	1.000	121	K4	C	11.302	10.540	11.237	0.651	0.606
31	D24	C	10.436	9.015	10.150	1.401	1.128	122	K5	C	11.466	10.685	11.327	0.605	0.530
32	D25	C	10.431	9.540	10.440	0.921	0.637								
33	D26	C	10.967	10.174	10.779	0.851	0.358								
34	D27	C	10.475	9.590	10.340	0.621	0.696								
35	D28	C	10.445	9.924	10.451	0.681	0.271								
36	D29	C	10.669	9.848	10.521	0.791	0.576								
37	D30	C	10.995	10.372	10.631	0.803	0.372								
38	D31	C	10.693	9.490	10.441	0.751	0.396								
39	D32	C	9.820	8.905	9.638	1.280	0.692								
40	D33	C	10.214	9.009	9.994	1.009	0.685								
41	D34	C	10.345	9.340	10.192	2.806	0.485								
42	D35	C	10.528	9.289	10.356	1.005	0.759								
43	D36	C	10.351	9.199	10.191	0.985	0.770								
44	D37	C	10.012	8.991	9.816	1.090	0.639								
45	D38	C	9.909	8.704	9.708	1.295	0.800								
46	D39	C	9.497	8.446	9.492	0.687	0.826								
47	E1 (OL)	C	9.861	8.953	9.800	1.009	0.558								
48	E2	C	9.511	8.530	9.543	0.705	0.786								
49	E3	C	9.674	8.524	9.437	0.989	0.841								
50	E4	C	9.820	8.814	9.600	1.381	0.871								
51	F1 (OL)	C	10.033	8.528	9.797	1.203	1.100								
52	F2	C	9.829	8.226	9.604	0.901	0.896								
53	F3	C	9.537	8.452	9.447	1.005	0.904								
54	F4	C	9.937	8.677	9.754	0.805	0.925								
55	F5	C	9.970	8.848	9.547	1.008	0.671								
56	F6	C	10.195	9.414	10.110	0.603	0.596								
57	F7	C	10.090	9.039	10.028	1.505	0.866								
58	F8	C	9.974	9.072	9.621	1.502	0.722								
59	F9	C	10.182	—	9.651	—	—								
60	F10	C	9.375	8.694	9.305	0.701	0.525								
61	F11	C	9.580	8.929	9.524	0.708	0.266								
62	F12	C	9.629	8.494	9.394	0.809	0.730								
63	G1 (OL)	C	9.843	8.763	9.751	1.503	0.794								
64	G2	C	9.946	8.544	9.749	0.912	0.846								
65	G3	C	9.822	8.591	9.600	0.985	0.838								
66	G4	C	9.906	9.194	9.746	1.009	0.197								
67	G5	C	9.923	8.973	9.692	1.005	0.438								
68	G6	C	9.732	8.630	9.492	1.003	0.797								
69	G7	C	9.529	8.876	9.641	0.601	0.468								
70	G8	C	9.838	8.863	9.809	0.820	0.523								
71	G9	C	10.034	9.239	9.867	1.021	0.292								
72	G10	C	10.064	9.313	9.932	0.652	0.612								
73	G11	C	9.969	9.108	9.642	0.852	0.280								
74	G12	C	9.915	8.824	9.796	0.705	0.956								
75	G13	C	9.906	8.853	9.681	0.705	0.918								
76	G14	C	9.720	9.100	9.502	0.708	0.315								
77	G15	C	10.029	9.326	9.973	0.655	0.414								
78	G16	C	10.066	9.115	9.817	0.725	0.695								
79	G17	C	9.703	8.882	9.678	0.603	0.821								
80	G18	C	9.630	8.800	9.762	0.791	0.674								
81	G19	C	9.740	8.888	9.775	0.806	0.664								
82	G20	C	10.281	9.360	9.904	0.853	0.789								
83	G21	C	10.175	9.502	9.809	0.804	0.533								
84	G22	C	9.995	8.970	9.856	1.108	0.840								
85	G23	C	9.805	9.238	9.626	1.008	0.442								
86	G24	C	9.814	8.394	9.592	0.955	1.235								
87	G25	C	9.770	8.459	9.562	0.901	1.001								
88	G26	C	9.692	8.391	9.845	0.912	0.580								
89	G27	C	9.571	8.520	9.610	0.856	0.862								
90	G28	C	9.823	8.903	9.597	0.805	0.391								
91	G29	C	9.704	8.888	9.534	0.910	0.661								

LEGEND

Drain Outlet

Drain With Reverse Gradient

"—" : Manhole's Inside not Accessible

KEY PLAN

Road

Road edge

Manhole Top

H

W

Invert

CLOSED DRAIN

Road

Road edge

H

W

Invert

OPEN DRAIN

WARDS OF GCC AREA

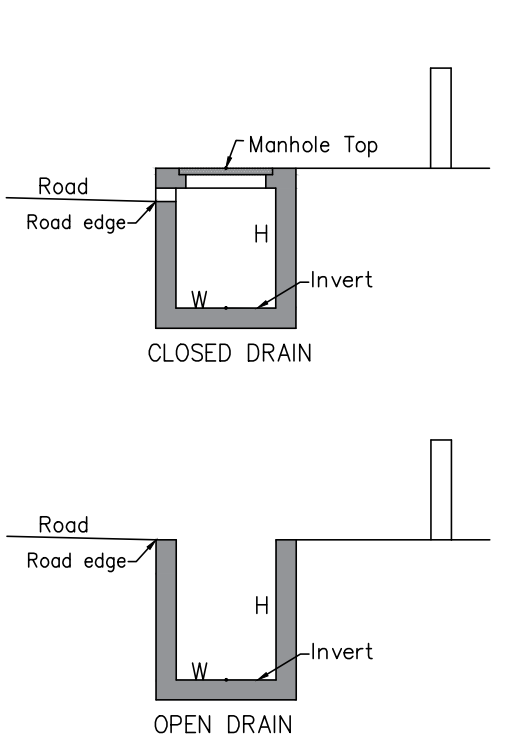
LEGEND

Drain Outlet

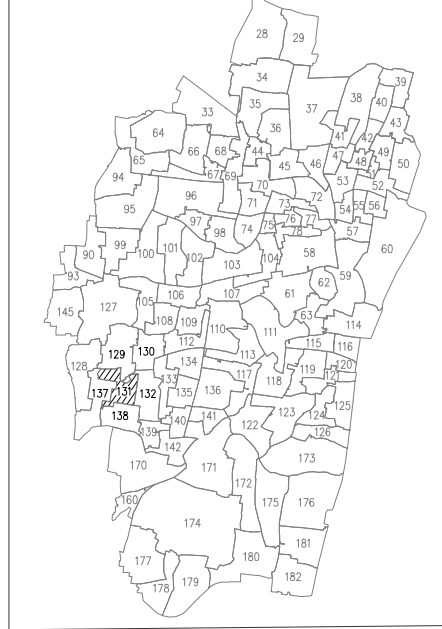
Drain With Reverse Gradient

Manhole's Inside not Accessible

KEY PLAN



WARDS OF GCC AREA



Control Point Located on Ward-137

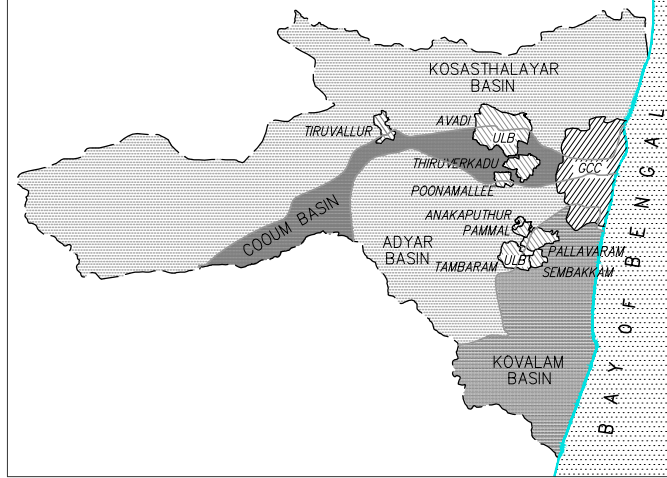


T151 13°02'49.278"N 80°11'40.412"E

LIST OF CONTROL POINTS

Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)	Remarks
1	T151	13°02'49.278"N	80°11'40.412"E	412670.748	1442474.282	11.350	On top of Stone Pitching Basement

INDEX OF GCC & ULB's AREA



Roads: main; others; mud. Cart track.

Temple. Chhatra. Shrine. Mosque. Idgah. Tomb. Church.

Railways: broad gauge with station; bridge; metro.

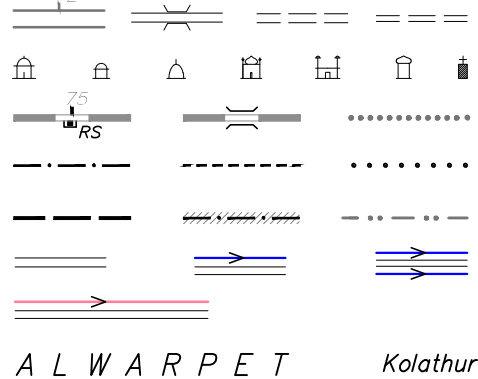
Boundary: state; district; taluk.

Boundary: CMA; zone; ward.

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

Road with reverse gradient drain.

Spaced names: locality; village.



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

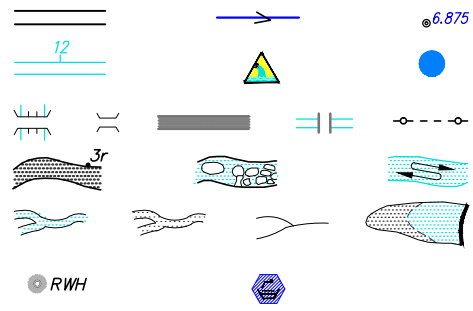
Canal. Outlet. Inundated area by previous flood.

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.



CLIENT	GREATER CHENNAI CORPORATION (GCC) REPRESENTING COMMISSIONERATE OF REVENUE ADMINISTRATION AND DISASTER MANAGEMENT		
FUNDED BY	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. 131, ZONE X - KODAMBAKKAM		
PROJECT CONSULTANTS	SECON - JBA Consulting (India) (U.K.) JV		