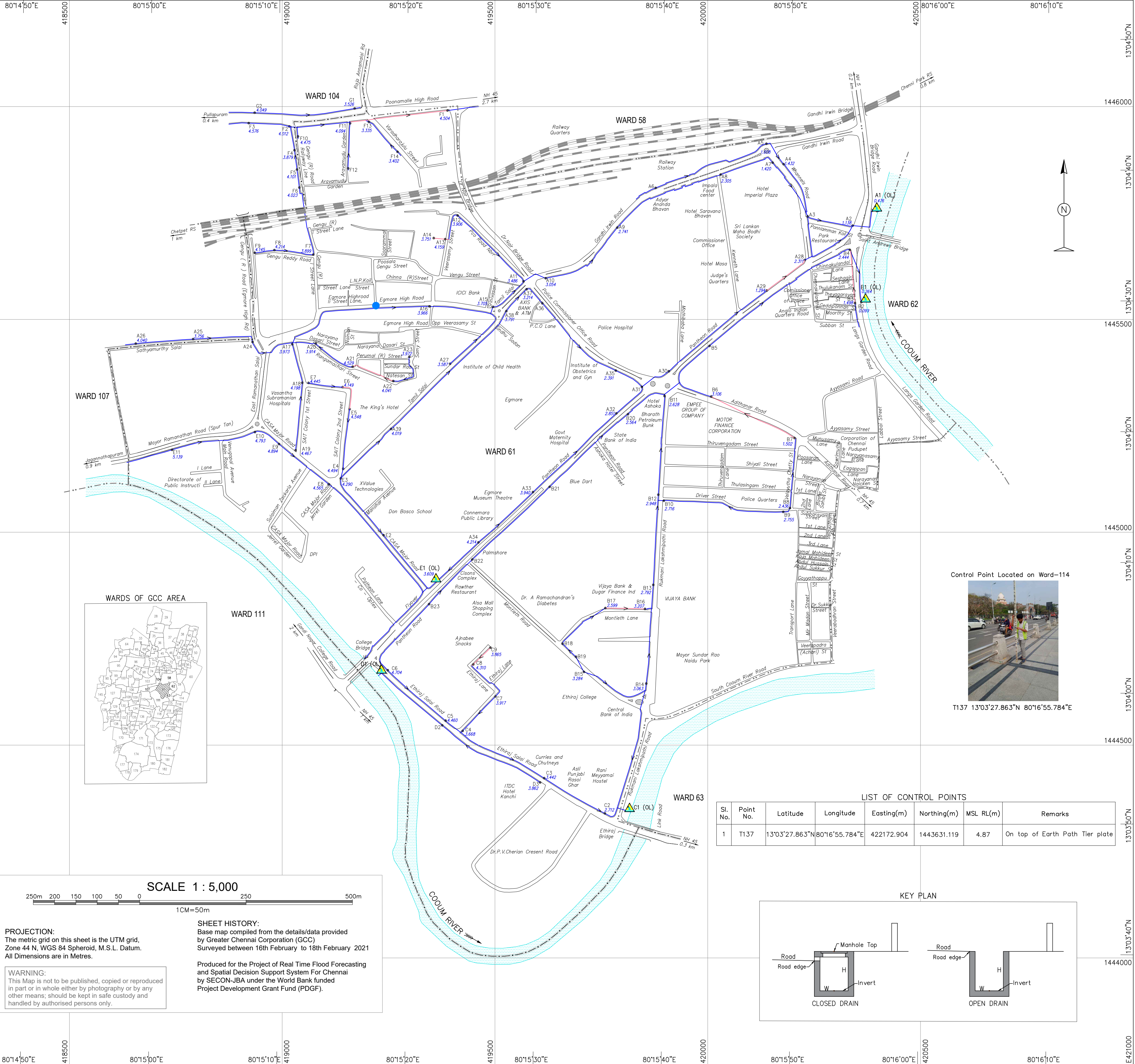


LIST OF POINTS							
SI No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL			DRAIN DIMENSIONS	
			Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
1	A1 (OL)	C	2.256	0.476	2.414	1.950	1.630
2	A2	C	2.741	1.138	2.585	1.100	1.453
3	A3	C	3.033	—	2.896	—	—
4	A4	C	3.031	1.432	2.878	1.350	1.419
5	A5	C	3.569	1.608	3.434	1.350	1.761
6	A6	C	3.354	—	3.347	—	—
7	A7	C	2.940	1.420	2.832	0.900	0.970
8	A8	C	3.109	2.305	2.838	0.650	0.654
9	A9	C	3.907	2.741	3.762	0.950	1.016
10	A10	C	4.396	3.054	4.270	0.900	1.162
11	A11	C	4.237	3.486	4.045	0.610	0.621
12	A12	C	4.381	3.906	4.191	1.100	0.275
13	A13	C	4.447	4.159	4.331	0.590	0.138
14	A14	C	4.618	3.751	4.457	0.500	0.747
15	A15	C	4.381	3.705	4.151	0.980	0.526
16	A16	C	4.651	3.966	4.415	0.680	0.485
17	A17	C	4.842	3.973	4.846	0.680	0.669
18	A18	C	5.135	4.198	5.018	0.720	0.637
19	A19	C	5.369	4.467	5.283	0.710	0.592
20	A20	C	4.873	3.914	4.850	0.680	0.809
21	A21	C	5.109	4.529	5.089	0.700	0.380
22	A22	C	4.843	4.041	4.849	0.700	0.602
23	A23	C	4.912	3.972	4.770	0.720	0.790
24	A24	C	4.368	—	4.373	—	—
25	A25	C	5.037	3.756	4.905	1.300	1.081
26	A26	C	5.269	4.040	5.083	1.230	1.079
27	A27	C	4.500	3.587	4.435	0.980	0.513
28	A28	C	2.965	2.311	2.743	0.650	0.404
29	A29	C	2.646	1.294	2.479	1.500	0.572
30	A30	C	3.706	—	3.592	—	—
31	A31	C	3.814	—	3.743	—	—
32	A32	C	3.644	2.851	3.501	0.980	0.203
33	A33	C	4.618	3.940	4.429	0.950	0.278
34	A34	C	4.843	4.214	4.787	0.980	0.179
35	A35	C	4.091	2.391	3.828	1.340	1.270
36	A36	C	4.251	—	4.114	—	—
37	A37	C	4.140	3.214	3.925	0.680	0.776
38	A38	C	4.435	3.791	4.085	0.610	0.494
39	A39	C	5.111	4.019	4.974	0.680	0.942
40	B1 (OL)	C	1.724	0.264	2.074	1.200	1.310
41	B2	C	2.255	0.099	2.079	1.000	2.006
42	B3	C	2.164	1.498	2.054	0.650	0.486
43	B4	C	2.652	2.444	2.506	0.550	0.208
44	B5	C	3.125	—	3.038	0.800	—
45	B6	C	3.376	3.106	3.347	0.650	0.070
46	B7	C	2.725	1.502	2.586	0.700	0.973
47	B8	C	3.260	2.436	3.143	0.700	0.674
48	B9	C	3.404	2.755	3.144	0.680	0.449
49	B10	C	3.716	2.716	3.771	0.650	0.650
50	B11	C	3.841	2.628	3.609	1.250	0.973
51	B12	C	3.940	2.948	3.769	0.800	0.442
52	B13	C	3.959	2.792	3.771	0.600	0.817
53	B14	C	4.364	3.063	4.271	0.700	0.781
54	B15	C	3.719	3.284	3.552	0.650	0.235
55	B16	C	3.851	3.207	3.614	0.650	0.244
56	B17	C	3.745	2.599	3.703	0.650	0.696
57	B18	C	3.707	—	3.673	—	—
58	B19	C	3.661	—	3.635	—	—
59	B20	C	3.632	2.564	3.506	1.100	0.618
60	B21	C	4.479	—	4.431	—	—
61	B22	C	4.790	—	4.764	—	—
62	B23	C	5.198	—	5.160	—	—
63	C1 (OL)	C	2.957	—	4.778	—	—
64	C2	C	4.523	2.712	4.461	0.900	1.261
65	C3	C	4.612	3.442	4.523	0.750	0.570
66	C4	C	5.374	3.668	5.279	0.840	1.256
67	C5	C	5.449	4.460	5.285	0.600	0.609
68	C6	C	5.505	4.704	5.225	0.600	0.501
69	C7	C	4.938	3.917	4.962	0.750	0.501
70	C8	C	5.361	4.310	5.190	0.720	0.731
71	C9	C	5.158	3.865	5.186	0.520	0.613
72	D1 (OL)	C	3.674	—	5.335	—	—
73	D2	C	5.415	—	5.315	—	—
74	D3	C	4.707	3.862	4.551	0.900	0.545
75	E1 (OL)	C	4.827	3.609	4.739	0.520	1.088
76	E2	C	5.128	—	4.961	—	—
77	E3	C	5.372	4.290	5.246	0.680	0.982
78	E4	C	5.321	4.494	5.217	0.680	0.697
79	E5	C	5.388	4.548	5.221	0.540	0.710
80	E6	C	5.273	4.149	5.025	0.680	0.784
81	E7	C	5.108	4.445	5.112	0.690	0.373
82	E8	C	5.558	4.565	5.211	1.100	0.653
83	E9	C	5.667	4.894	5.589	1.100	0.623
84	E10	C	5.812	4.793	5.663	0.580	0.869
85	E11	C	5.425	5.139	5.247	0.980	0.036
86	F1	C	4.815	4.504	4.667	0.600	0.311
87	F2	C	5.155	4.012	4.883	1.200	0.743
88	F3	C	5.492	4.576	5.213	1.200	0.516
89	F4	C	4.920	3.879	4.828	0.650	0.621
90	F5	C	5.063	4.101	4.907	0.600	0.712
91	F6	C	4.993	4.023	4.973	0.650	0.820
92	F7	C	5.227	3.899	5.238	1.210	1.128
93	F8	C	5.313	4.214	5.363	0.780	0.699
94	F9	C	4.980	4.145	4.737	0.580	0.705
95	F10	C	5.086	4.475	4.842	0.600	0.461
96	F11	C	4.910	4.094	4.716	1.200	0.396
97	F12	C	4.827	—	4.900	—	—
98	F13	C	4.638	3.335	4.448	0.600	0.753
99	F14	C	4.621	3.402	4.631	—	1.069
100	G1	C	4.830	3.526	4.584	1.200	0.924
101	G2	C	5.323	4.049	5.115	1.250	0.874

LEGEND	
	Drain Outlet
	Drain With Reverse Gradient
“—”	Manhole's inside not Accessible



SCALE 1 : 5,000

250m 200 150 100 50 0 250 500m

1CM=50m

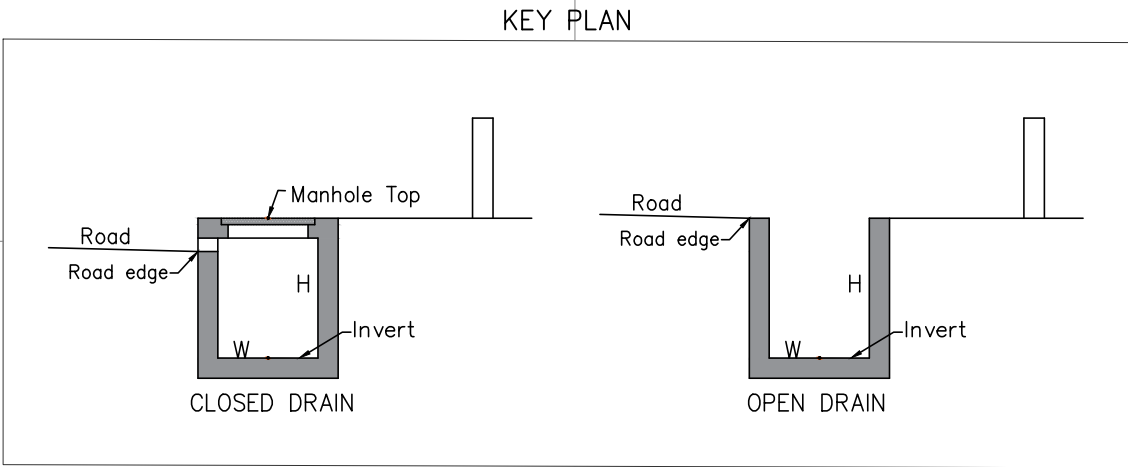
PROJECTION:
The metric grid on this sheet is the UTM grid, Zone 44 N, WGS 84 Spheroid, M.S.L. Datum. All Dimensions are in Metres.

WARNING:
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SHEET HISTORY:
Base map compiled from the details/data provided by Greater Chennai Corporation (GCC)
Surveyed between 16th February to 18th 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).

LIST OF CONTROL POINTS						
Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)
1	T137	13°03'27.863"N	80°16'55.784"E	422172.904	1443631.119	4.87



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 onside drain; with both side drain.

Road with reverse gradient drain.

Spaced names: locality; village.



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

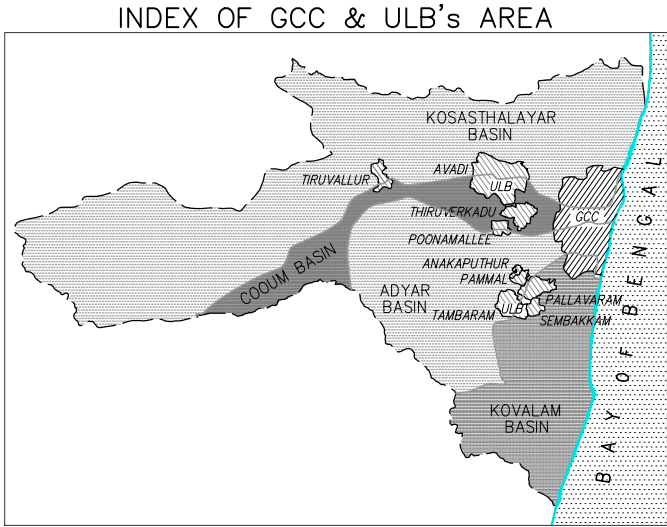
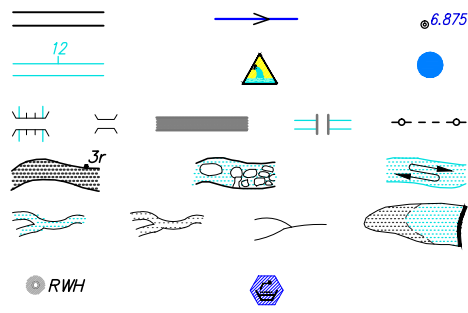
Canal. Outlet. Inundated area by previous flood.

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. 61, ZONE V - ROYAPURAM				
PROJECT CONSULTANTS	SECON - JBA Consulting (India) (U.K.) JV				
SHEET No. 24 OF 114	SCALE 1:5000	DRAWING No.	CFM/SWD/WARD-24		REV. 0