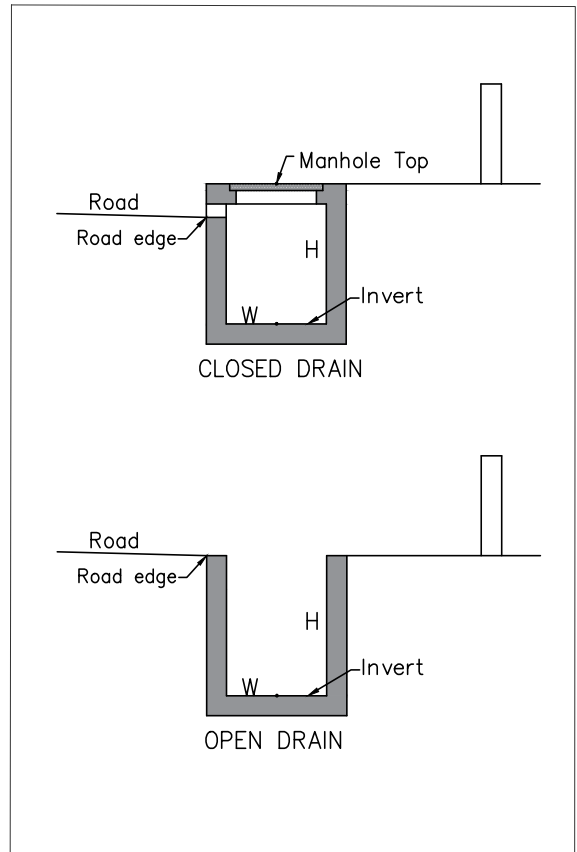


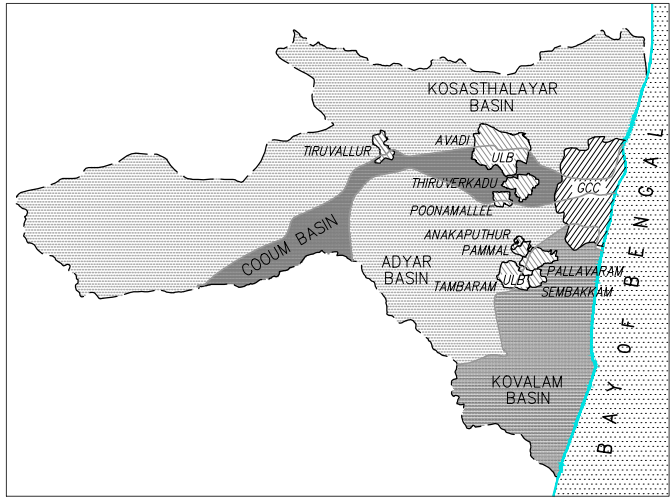
LIST OF POINTS							
Sl No.	MANHOLE ID	DRAIN Closed(C)/Open(O)	MSL LEVEL		DRAIN DIMENSIONS		
			Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
1	A1	C	7.294	5.674	7.116	1.790	1.240
2	A2	C	7.167	5.737	7.029	1.820	1.020
3	A3	C	7.072	—	6.998	—	—
4	A4	C	7.190	—	7.142	—	—
5	A5	C	7.468	6.378	7.175	1.100	0.850
6	B1	C	7.022	—	7.089	—	—
7	B2	C	7.259	—	7.271	—	—
8	B3	C	7.341	6.001	7.333	0.690	0.960
9	B4	C	7.362	5.942	7.334	0.720	1.250
10	B5	C	7.111	6.121	7.020	0.680	0.830
11	B6	C	7.301	6.461	7.201	0.780	0.700
12	B7	C	7.224	6.504	7.261	0.780	0.200
13	C1	C	6.883	—	6.808	—	—
14	C2	C	7.221	6.011	7.183	0.580	0.850
15	D1	C	6.877	5.367	6.572	0.850	1.000
16	D2	C	6.963	5.733	6.905	0.790	0.650
17	D3	C	7.255	6.475	7.305	0.650	0.570
18	E1	C	5.807	5.127	6.041	0.740	0.500
19	E2	C	5.782	5.002	5.645	0.620	0.780
20	E3	C	5.948	5.168	5.665	0.680	0.780
21	E4	C	6.001	4.891	5.806	0.980	0.900
22	F1	C	6.472	5.242	6.184	0.640	0.640
23	F5	C	5.401	4.291	5.769	0.810	0.750
24	F2	C	5.883	—	5.875	—	—
25	F3	C	6.321	—	6.117	—	—
26	G1	C	6.032	5.192	5.420	0.780	0.600
27	G2	C	6.215	5.285	6.087	0.690	0.790
28	G3	C	6.737	—	6.718	—	—
29	G4	C	6.646	—	6.676	—	—
30	G5	C	6.916	—	6.947	—	—
31	G6	C	6.960	5.820	6.947	0.740	0.860
32	G7	C	7.176	—	7.159	—	—
33	H1	C	6.949	5.889	6.637	0.780	0.900
34	H2	C	6.917	6.207	6.733	0.740	0.590
35	H3	C	7.080	6.260	6.893	0.780	0.440
36	H4	C	7.255	6.165	7.145	0.840	0.700
37	H5	C	7.204	—	7.177	—	—
38	H6	C	7.302	7.092	7.191	0.630	0.100
39	H7	C	7.406	7.226	7.368	0.640	0.040
40	H8	C	7.664	7.304	7.612	0.680	0.180
41	H9	C	8.024	—	8.035	—	—
42	H10	C	7.281	6.221	7.232	1.010	0.780
43	H11	C	7.611	6.631	7.632	1.060	0.670
44	H12	C	7.243	6.333	7.143	0.740	0.730
45	H13	C	7.096	6.436	6.976	0.740	0.450
46	H14	C	7.033	—	7.042	—	—
47	H15	C	7.584	—	7.582	—	—
48	H16	C	7.434	—	7.431	—	—
49	H17	C	7.509	—	7.522	—	—
50	H18	C	7.407	6.677	7.364	0.780	0.350
51	H19	C	7.249	6.139	7.122	0.990	0.750
52	H20	C	7.071	6.181	7.048	0.840	0.570
53	I1	C	6.299	5.569	6.142	0.960	0.470
54	I2	C	6.467	5.787	6.316	0.840	0.470
55	I3	C	6.866	5.926	6.702	1.170	0.780
56	I4	C	6.602	5.662	6.521	1.190	0.760
57	I5	C	6.589	5.599	6.601	1.380	0.780
58	I6	C	6.837	5.447	6.852	1.260	1.180
59	I7	C	6.653	5.703	6.651	1.210	0.740
60	I8	C	6.547	5.167	6.396	0.780	1.160
61	I9	C	6.333	5.173	6.343	0.740	0.980
62	I10	C	6.824	5.594	6.824	0.980	1.040
63	I11	C	7.570	6.440	7.564	1.040	0.890
64	I12	C	7.242	6.072	7.242	1.020	0.940
65	I13	C	7.339	6.669	7.286	0.740	0.500
66	I14	C	7.328	6.588	7.313	0.780	0.550
67	I15	C	7.347	7.127	7.249	0.720	0.130
68	I16	C	7.076	5.336	7.062	1.070	1.480
69	I17	C	6.846	6.306	6.895	0.720	0.320
70	I18	C	7.059	6.619	7.102	0.730	0.260
71	I19	C	7.079	6.349	7.042	0.840	0.600
72	I20	C	7.119	6.139	7.133	0.990	0.770
73	I21	C	7.156	5.846	7.189	0.960	1.040
74	I21A	C	7.297	—	7.265	—	—
75	I22	C	7.314	6.294	7.314	0.990	0.840
76	I23	C	6.559	5.779	6.373	0.880	0.610
77	I24	C	6.810	5.720	6.597	1.100	0.800
78	I25	C	7.063	6.133	6.921	0.860	0.740
79	I26	C	7.074	6.314	7.047	0.920	0.580
80	I27	C	7.619	—	7.618	—	—
81	I28	C	6.864	5.924	6.672	1.310	0.720
82	I29	C	6.835	5.675	6.767	1.210	0.930
83	I30	C	6.922	5.692	6.858	1.160	0.980
84	I31	C	7.277	5.717	7.159	1.310	1.280
85	I32	C	6.662	5.002	6.566	1.340	1.420
86	I33	C	6.633	4.833	6.462	1.390	1.610
87	I34	C	5.888	4.458	5.896	0.860	1.210
88	I35	C	5.597	4.287	5.605	0.840	1.030
89	I36	C	5.566	4.456	5.475	1.030	0.900
90	I37	C	5.520	4.520	5.449	—	—
91	I38	C	5.583	4.503	5.509	0.960	0.870
92	I39	C	6.006	4.812	5.814	1.070	1.034
93	J1	C	—	—	—	—	—
94	J2	C	6.780	5.300	6.490	1.890	1.170
95	J3	C	6.857	—	6.562	—	—

LEGEND
Drain Outlet
Drain With Reverse Gradient
"—" : Manhole's Inside not Accessible

KEY PLAN



INDEX OF GCC & ULB's AREA



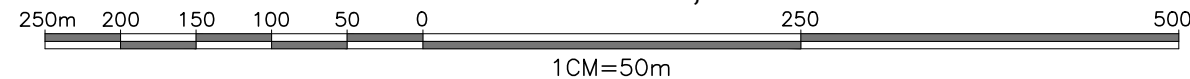
LIST OF CONTROL POINTS						
Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)
1	NMSV1	13°07'23.449"N	80°14'56.153"E	418591.350	1450878.991	6.200

Control Point Located on Ward-36



NMSV1 13°07'23.449"N 80°14'56.153"E

SCALE 1 : 5,000

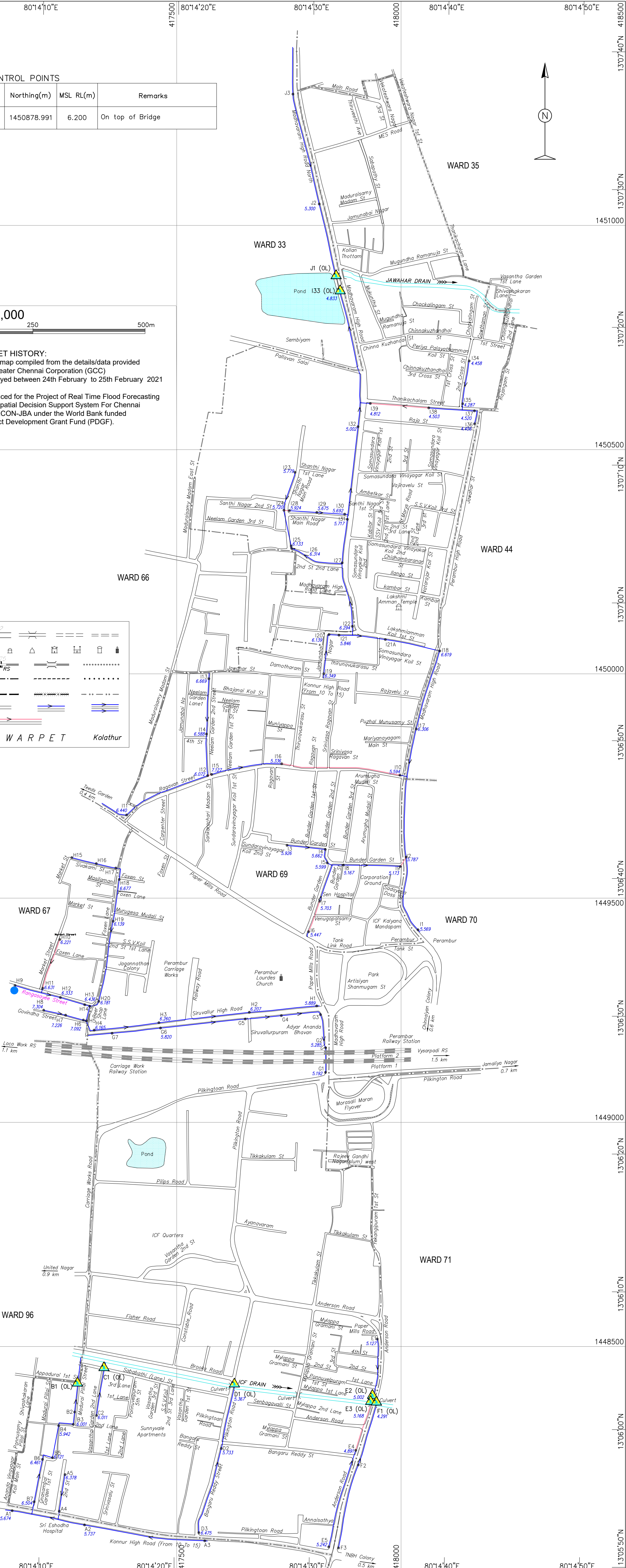
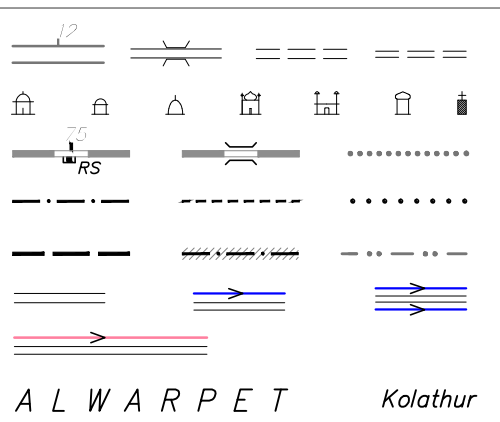


PROJECTION:
The metric grid on this sheet is the UTM grid.
Zone 44 N, WGS 84 Spheroid, M.S.L. Datum.
All Dimensions are in Metres.

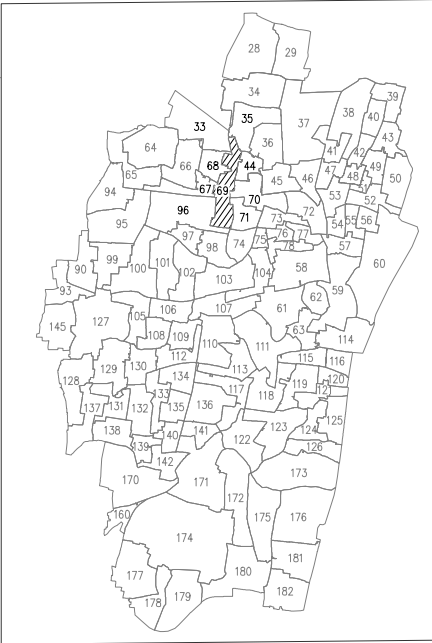
WARNING:
This Map is not to be published, copied or reproduced in part or in whole either by photography or by any other means; should be kept in safe custody and handled by authorised persons only.

SHEET HISTORY:
Base map compiled from the details/data provided by Greater Chennai Corporation (GCC)
Surveyed between 24th February to 25th 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).

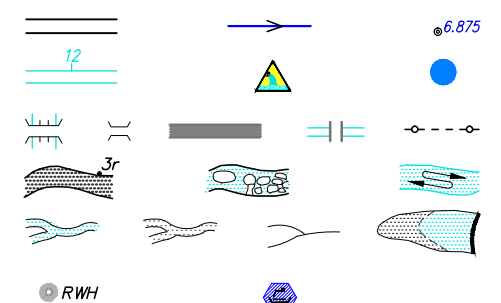
Roads: main; others: mud. Cart track.
Temple. Chhatra. Shrine. Mosque. Idgah. Tomb. Church.
Railways: broad gauge with station; bridge; metro.
Boundary: state; district; taluk.
Boundary: CMA; zone; ward.
Roads: without drain; with oneside drain; with both side drain.
Road with reverse gradient drain.
Spaced names: locality; village.



WARDS OF GCC AREA



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. 69, ZONE VI - THIRUVIKAI NAGAR		
PROJECT CONSULTANTS	SECON - JBA Consulting (India) JV		
SHEET No. 82 OF 114	SCALE 1:5000	DRAWING No. CFM/SWD/WARD-82	REV. 0