

COMPUTATION SHEET

COMMISSION ON REGIONAL PLANNING
THE METROPOLITAN DISTRICTFile
Computed by
Date
Checked by
Data

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STATION DESIGNATION	STATE COORDINATES		DISTRICT COORDINATES		STATE C.G. STATE COORDS		DIST. C.G. - DIST. COORDS		BEARING ANGLE		RADIAL DISTANCE	
	X	Y	EAST	NORTH	X+X	Y+Y	E-E	N-N	STATE	DISTRICT	STATE	DISTRICT
AM. IND.	620 748.75	340 782.14	168 942.66	152 471.02	10 189.25	- 2 323.79	10 188.60	- 2 325.12	12 50 50.31	12 51 18.76	10 450.88	10 450.54
MON. 82	622 162.95	341 569.45	170 306.92	152 258.21	11 553.45	- 1 536.48	11 552.86	- 1 537.93	07 34 30.90	07 34 57.71	11 655.17	11 654.77
83	622 470.39	339 900.22	170 614.22	151 588.95	11 860.89	- 2 205.71	11 860.16	- 2 207.19	15 07 27.46	15 07 54.65	12 286.47	12 286.15
BARTLETT	596 049.69	389 556.43	144 195.46	201 252.77	- 14 559.81	- 46 450.50	- 14 558.60	- 46 456.63	17 24 12.56	17 23 59.90	48 478.92	48 484.40
BATTERSON	591 523.79	319 644.66	139 665.43	131 337.68	- 19 085.71	- 23 461.27	- 19 088.43	- 23 458.46	39 07 41.90	39 08 08.39	30 243.93	30 243.47
164	590 803.39	321 649.03	138 945.53	133 342.08	- 19 806.11	- 21 456.90	- 19 808.53	- 21 454.06	42 42 32.46	42 42 58.63	29 200.69	29 200.25
165	589 823.54	321 472.09	137 965.65	133 165.25	- 20 785.96	- 21 633.84	- 20 788.41	- 21 630.89	43 51 17.76	43 51 43.96	30 001.32	30 000.89
Box Hill	680 174.75	352 285.24	228 317.67	163 963.96	- 69 565.25	- 9 119.31	- 69 563.61	- 9 147.82	07 31 00.83	07 30 27.97	70 168.25	70 165.12
CEMETERY	602 129.90	364 761.04	150 277.40	176 451.15	- 8 479.60	- 21 655.11	- 8 476.66	- 21 655.01	21 23 02.65	21 22 38.70	23 256.13	23 254.96
MON. 1	600 401.44	364 738.13	148 548.94	176 428.39	- 10 208.06	- 21 632.20	- 10 205.12	- 21 632.25	25 15 44.08	25 15 20.97	23 919.19	23 918.86
?	600 685.59	365 738.47	148 833.17	177 428.10	- 9 923.91	- 22 632.54	- 9 920.89	- 22 632.56	23 40 35.32	23 40 12.16	24 712.66	24 711.47
COPPER	602 719.37	410 161.09	150 873.96	221 850.29	- 7 890.13	- 67 055.16	- 7 880.10	- 67 054.15	06 42 39.32	06 42 09.25	67 517.76	67 515.59
ELMWOOD	606 515.80	325 852.06	154 658.40	137 543.03	- 4 093.70	- 17 253.87	- 4 095.66	- 17 253.11	13 20 50.45	13 21 14.68	17 732.86	17 732.58
86	606 806.47	326 912.74	154 949.28	138 603.65	- 3 803.03	- 16 193.19	- 3 804.78	- 16 192.49	13 12 59.78	13 13 22.89	16 633.77	16 633.49
87	606 265.29	326 003.47	154 401.94	137 694.48	- 4 344.21	- 17 102.46	- 4 346.12	- 17 101.66	14 15 08.37	14 15 32.31	17 645.57	17 645.27
FULLER	624 054.07	352 163.65	172 199.78	163 851.92	- 13 444.57	- 9 057.72	- 13 445.72	- 9 055.78	33 58 06.53	33 57 36.88	16 211.07	16 210.91
41	624 630.33	352 703.32	172 776.12	164 391.15	- 14 020.83	- 9 597.39	- 14 022.06	- 9 595.01	34 23 31.22	34 22 58.95	16 990.95	16 990.66
GARCIA	624 527.39	355 738.62	182 673.27	167 425.29	- 23 917.89	- 12 632.69	- 23 919.31	- 12 629.15	27 50 29.86	27 50 00.94	27 049.01	27 048.64
CLAY	610 034.15	334 890.81	158 177.82	146 581.42	- 575.35	- 8 215.12	- 576.24	- 8 214.72	04 00 22.31	04 00 45.25	8 235.24	8 234.91
84	611 611.17	334 998.25	159 754.84	146 688.67	- 1 001.67	- 8 107.68	- 1 000.78	- 8 107.47	07 02 34.68	07 02 13.02	8 169.32	8 169.00
85	610 645.16	333 372.24	158 788.64	145 062.78	- 25.66	- 9 733.69	- 24.58	- 9 733.36	00 12 35.66	00 12 12.80	9 733.76	9 733.42
HEUBLEIN	586 661.89	361 697.03	134 809.44	173 298.91	- 23 947.61	- 18 501.10	- 23 944.62	- 18 502.77	37 41 18.38	37 41 39.85	30 261.84	30 260.49
HOSPITAL	616 589.86	350 927.59	164 735.64	162 616.50	- 5 980.36	- 7 821.66	- 5 981.58	- 7 820.36	37 24 04.15	37 24 41.00	9 845.96	9 845.68
155	616 230.28	350 759.28	164 376.04	162 448.23	- 5 620.78	- 7 653.35	- 5 621.98	- 7 652.09	36 17 39.62	36 18 16.83	9 495.63	9 495.32
156	616 176.55	351 205.71	164 322.36	162 894.66	- 5 567.05	- 8 099.78	- 5 568.30	- 8 098.52	34 30 03.90	34 30 40.48	9 828.45	9 828.12
MORRIS	622 732.52	349 977.51	170 870.54	181 665.64	- 12 113.02	- 26 871.58	- 12 116.48	- 26 869.50	24 15 52.68	24 16 20.73	29 475.53	29 475.06
48	623 600.54	349 971.92	171 748.53	181 659.94	- 12 991.04	- 26 865.99	- 12 994.47	- 26 863.80	25 48 21.86	25 48 49.80	29 842.06	29 841.58
49	623 411.96	349 306.91	171 559.87	180 994.96	- 12 802.46	- 26 200.98	- 12 805.81	- 26 198.82	26 02 28.69	26 02 56.68	29 161.52	29 161.05
SCHOOL	618 750.88	300 691.86	166 691.86	112 383.31	- 8 141.38	- 42 414.07	- 8 135.84	- 42 412.83	10 51 56.74	10 51 31.85	43 188.37	43 186.11
126	618 134.66	301 305.81	166 273.75	112 997.33	- 7 525.16	- 41 800.12	- 7 519.69	- 41 798.81	10 12 19.75	10 11 54.73	42 472.08	42 469.83
127	619 021.21	301 408.69	167 160.34	113 190.10	- 8 411.71	- 41 607.24	- 8 406.28	- 41 606.04	11 25 45.83	11 25 21.13	42 449.02	42 446.77
SELDEN	593 494.03	333 230.90	141 637.63	144 923.52	- 17 115.47	- 9 875.03	- 17 116.43	- 9 872.62	29 59 00.42	29 58 33.65	19 759.95	19 759.58
153	592 792.79	333 134.61	140 936.40	144 827.32	- 17 816.71	- 9 971.32	- 17 817.66	- 9 968.82	29 14 02.56	29 13 35.83	20 417.21	20 416.82
154	592 588.71	332 829.95	140 732.28	144 522.69	- 18 020.79	- 10 275.98	- 18 021.78	- 10 273.45	29 41 34.98	29 41 08.26	20 744.75	20 744.36
SEMINARY	604 429.59	354 737.57	152 575.87	166 427.93	- 6 179.91	- 11 631.64	- 6 178.19	- 11 631.79	27 58 54.42	27 58 29.53	13 171.42	13 170.75
32	605 079.33	355 185.73	153 225.65	166 876.02	- 5 530.17	- 12 079.80	- 5 528.41	- 12 079.88	24 25 54.43	24 25 29.07	13 284.49	13 284.83
33	605 532.54	354 502.97	153 678.79	166 193.22	- 5 076.96	- 11 397.04	- 5 075.27	- 11 397.08	24 00 40.34	24 00 14.54	12 476.70	12 476.05
NEW STATE	610 821.17	318 427.96	158 962.76	130 118.66	- 211.67	- 24 671.97	- 208.70	- 24 677.48	00 29 29.15	00 29 04.36	24 678.88	24 678.36
70	613 216.35	318 352.87	161 257.93	130 043.31	- 2 606.85	- 24 753.06	- 2 603.87	- 24 752.83	06 00 42.84	06 00 18.48	24 889.95	24 889.41
91	612 731.30	317 066.70	160 872.74	128 757.20	- 2 121.80	- 26 039.23	- 2 118.68	- 26 038.94	04 39 30.38	04 39 06.02	26 125.53	26 124.99
TALCOTT	586 579.13	356 391.07	134 726.60	168 083.82	- 24 030.37	- 13 285.14	- 24 027.46	- 13 287.68	28 56 09.31	28 56 36.59	27 458.22	27 457.53
TRAVELERS	620 954.35	339 240.80	169 098.10	150 929.89	- 10 344.83	- 3 865.13	- 10 344.04	- 3 866.25	20 29 13.75	20 29 38.51	11 043.31	11 042.96
WHITE SPIRE	601 855.14	338 308.54	150 000.00	150 000.00	- 8 753.76	- 4 797.39	- 8 754.06	- 4 796.14	28 43 27.84	28 43 02.21	9 982.15	9 981.81
	26 256 208.74	14 783 555.13	6 826 428.56	6 656 234.00							971 848.62	971 838.41
CENTER OF GRAVITY	610 609.50	343 105.93	158 754.06	154 796.14							23 139.73	23 139.01

NOTE:

CONVERSION FORMULA TO BE USED
FOR PLOTTING PURPOSES ONLY.

REFER ALL QUESTIONS TO MR.

TED METHENY, JA 50841, EXT 225

ANGLE OF SKEW = 0° 00' 26.87"
SIN. " " " " 0.0001 3027
COS " " " " .9999 9999

SCALE FACTORS: (SF)

STATE TO DIST. = 0.9999 6892

DIST. TO STATE = 1.0000 3108

COORDINATES OF CENTER OF GRAVITY:

STATE DIST.
X 610 609.50 E. 158 754.06
Y 343 105.93 N. 154 796.14

STATE TO DIST:

(SF) COS X = (0.9999 6892) (.9999 9999) = .9999 6891

(SF) SIN X = (0.9999 6892) (.0001 3027) = .0001 3027

DIST. TO STATE

(SF) COS X = (1.0000 3108) (.9999 9999) = 1.0000 3107

(SF) SIN X = (1.0000 3108) (.0001 3027) = .0001 3027

STATE TO DIST:

E = (.9999 6891) X + (.0001 3027) Y = 451 881.15

N = (.9999 6891) Y - (.0001 3027) X = 188 219.58

DIST. TO STATE

X = (1.0000 3107) E - (.0001 3027) N = 451 878.67

Y = (1.0000 3107) N + (.0001 3027) E = 188 224.82