

SELLMEYER ENGINEERING

BROADCAST AND COMMUNICATIONS CONSULTING ENGINEERS

P.O. Box 356 McKinney, Texas 75070

MEMBER AFCCE

(972) 542-2056

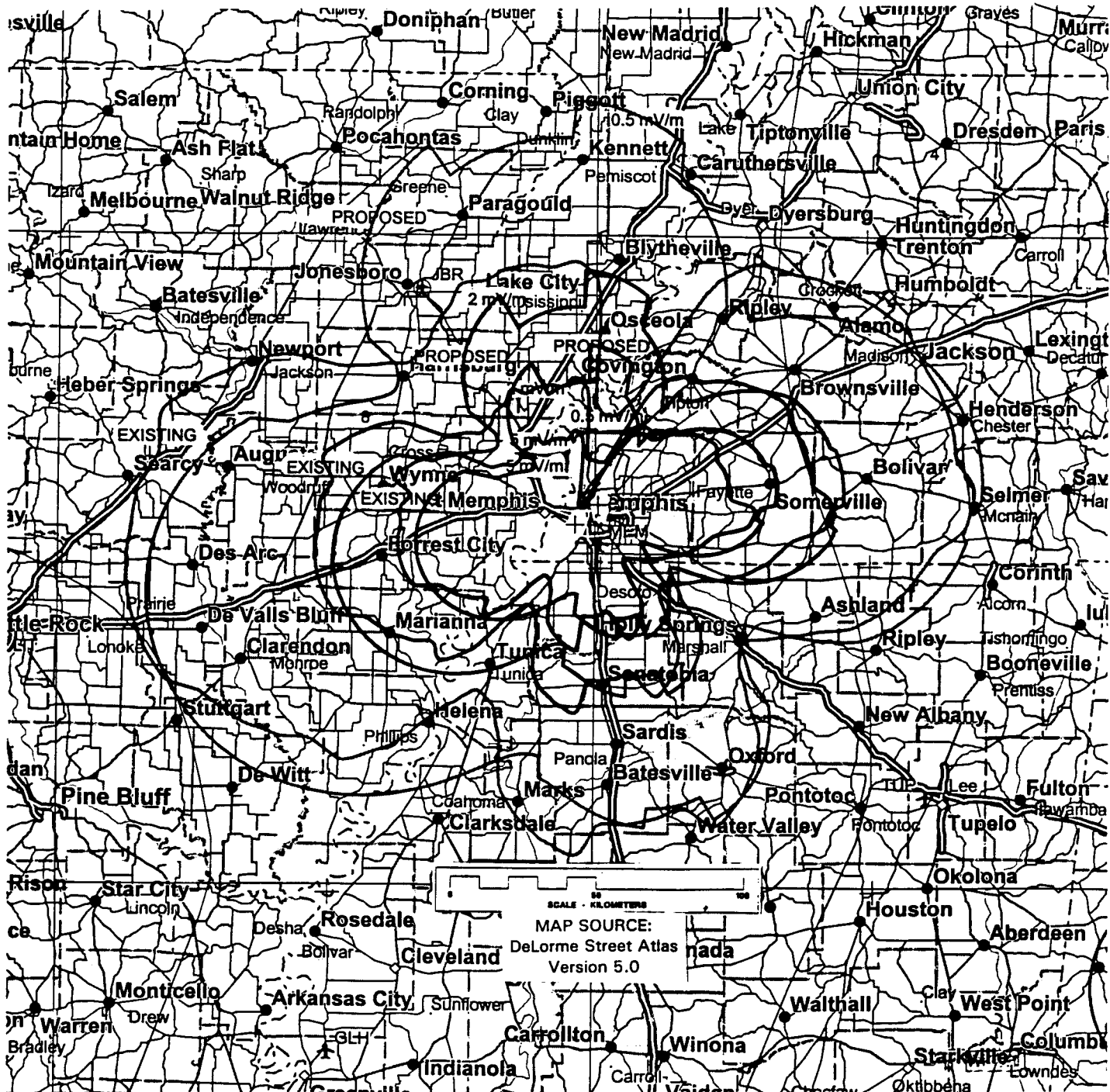
EXHIBIT E1-5A

MAP SHOWING PROPOSED DAYTIME SERVICE CONTOURS

RADIO STATION KWAM

990 KHZ, 0.33 KW, 10 KW-LS, DA-2

MEMPHIS, TENNESSEE



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BROADCAST AND COMMUNICATIONS CONSULTING ENGINEERS

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EXHIBIT E1-5B
MAP SHOWING PROPOSED 1000 MV/M DAYTIME CONTOUR
RADIO STATION KWAM
990 KHZ, 0.33 KW, 10 KW-LS, DA-2
MEMPHIS, TENNESSEE



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EXHIBIT E1-5C

TABULATION OF DISTANCES TO CONTOURS

RADIO STATION KWAM

990 KHZ, 0.33 KW, 10 KW-LS, DA-2

MEMPHIS, TENNESSEE

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Call: KWAM

Coordinates: 35 11 45.00 90 00 32.00

Frequency: 990 kHz Number of contours: 5

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers:				
		Contour levels in mV/m.				
		5.000	2.000	0.500	0.250	0.025
0.0	1362.76	54.09	79.59	137.06	177.19	362.37
5.0	1287.56	52.75	77.77	134.14	173.59	353.63
10.0	1184.57	50.81	75.16	129.94	168.42	345.79
15.0	1054.79	37.52	60.98	113.61	150.73	324.80
20.0	900.82	34.46	56.44	106.26	141.57	311.04
25.0	728.47	31.26	50.68	96.98	129.90	277.04
30.0	551.57	27.40	43.70	85.84	115.76	245.48
35.0	407.22	30.05	47.42	85.54	111.03	227.47
40.0	379.20	28.91	45.88	83.12	105.42	219.37
45.0	505.30	33.68	52.30	91.61	113.46	237.82
50.0	707.99	39.92	60.62	99.96	125.01	260.58
55.0	928.67	45.44	67.97	107.80	135.54	280.17
60.0	1140.05	49.94	73.99	114.37	144.28	295.45
65.0	1325.89	53.44	76.94	119.60	151.14	306.97
70.0	1474.49	56.01	78.94	123.49	156.19	315.22
75.0	1577.33	57.67	80.57	126.34	159.77	320.85
80.0	1628.94	60.44	82.93	129.28	163.07	325.03
85.0	1626.99	60.41	83.26	129.60	163.37	325.30
90.0	1572.43	59.55	82.97	128.68	162.08	323.06
95.0	1469.19	53.31	78.87	123.35	156.02	314.94
100.0	1323.90	53.40	78.66	121.92	153.44	308.85
105.0	1145.23	50.04	74.12	117.48	147.43	298.04
110.0	943.31	45.78	68.42	111.91	139.82	284.86
115.0	729.34	40.50	61.39	105.01	130.36	266.96
120.0	515.99	34.06	52.80	94.00	118.65	243.31
125.0	321.70	26.38	42.46	77.75	102.55	207.59
130.0	195.96	19.65	33.14	63.30	84.23	178.69
135.0	231.73	21.78	36.13	67.92	90.07	185.21
140.0	353.51	36.56	53.29	89.70	115.30	214.73
145.0	474.88	41.50	59.75	99.85	128.25	235.10
150.0	574.71	44.88	64.26	106.99	137.34	250.14
155.0	647.10	47.08	67.20	111.67	143.30	261.83
160.0	690.24	48.32	68.85	114.30	146.63	271.26
165.0	704.14	39.81	60.47	106.24	138.78	273.60
170.0	690.08	39.42	59.95	105.40	137.72	282.94
175.0	650.85	44.98	65.13	109.69	141.38	300.72
180.0	591.58	43.20	62.76	105.90	136.56	292.69
185.0	522.06	40.95	59.75	101.12	130.48	282.46
190.0	461.27	38.80	56.88	96.59	124.70	272.33
195.0	441.29	31.37	49.21	88.34	116.01	262.11
200.0	492.96	33.25	51.72	92.31	121.09	271.04
205.0	616.16	37.27	57.08	100.82	131.92	289.40
210.0	787.71	42.04	63.43	110.99	144.80	310.18
215.0	985.40	46.71	69.67	121.06	157.41	329.42
220.0	1192.76	50.97	75.37	130.28	168.84	332.49
225.0	1396.53	54.68	80.39	138.34	178.75	337.69
230.0	1584.96	57.79	84.60	145.12	184.03	345.24
235.0	1747.29	60.28	87.98	150.51	187.94	351.85
240.0	1873.89	62.11	90.46	154.50	190.82	356.72
245.0	1956.70	63.26	92.03	157.00	192.85	360.01
250.0	1989.85	63.71	92.65	157.97	193.98	361.59

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MEMBER AFCCE

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EXHIBIT E1-5C, PAGE-2
TABULATION OF DISTANCES TO CONTOURS
RADIO STATION KWAM
990 KHZ, 0.33 KW, 10 KW-LS, DA-2
MEMPHIS, TENNESSEE
=====

Call: KWAM

Coordinates: 35 11 45.00 90 00 32.00

Frequency: 990 kHz Number of contours: 5

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers:				
		Contour levels in mV/m.				
		5.000	2.000	0.500	0.250	0.025
255.0	1970.13	63.44	92.28	157.39	194.40	361.75
260.0	1897.32	62.43	90.91	155.22	194.39	360.66
265.0	1774.29	60.68	88.52	151.38	194.52	363.63
270.0	1606.94	58.13	85.07	145.87	187.86	367.47
275.0	1403.92	54.81	80.57	138.61	179.08	365.58
280.0	1176.51	50.65	74.95	129.60	168.01	345.19
285.0	939.17	35.15	57.75	108.30	144.10	314.76
290.0	712.29	30.93	50.24	96.18	128.84	291.07
295.0	530.97	26.89	42.93	84.53	114.07	266.63
300.0	455.00	24.93	39.35	78.88	106.86	254.01
305.0	516.71	26.54	42.29	83.52	112.77	264.38
310.0	659.23	38.54	58.77	103.53	135.35	295.13
315.0	822.55	42.91	64.60	112.88	147.16	313.94
320.0	979.09	46.57	69.49	120.76	157.04	328.91
325.0	1117.42	49.49	73.38	127.06	164.87	340.65
330.0	1232.50	51.72	76.39	131.92	170.86	349.25
335.0	1322.04	53.37	78.61	135.49	175.25	355.46
340.0	1384.96	41.69	67.30	125.08	165.40	346.82
345.0	1420.78	42.27	68.14	126.42	167.02	349.14
350.0	1429.19	42.42	68.34	126.73	167.40	349.67
355.0	1409.93	42.09	67.89	126.02	166.53	351.07

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EXHIBIT E1-5C, PAGE-3
TABULATION OF DISTANCES TO CONTOURS
RADIO STATION KWAM
990 KHZ, 0.33 KW, 10 KW-LS, DA-2
MEMPHIS, TENNESSEE
=====

Call: KWAM

Coordinates: 35 11 45.00 90 00 32.00

Frequency: 990 kHz Number of contours: 1

Radiation			Distances to Contours in Kilometers:		
(mV/m at			Contour levels in mV/m.		
Azimuth	one km)	1000.000	Azimuth	one km)	1000.000
0.0	1362.76	1.27	255.0	1970.13	1.80
5.0	1287.56	1.21	260.0	1897.32	1.74
10.0	1184.57	1.11	265.0	1774.29	1.63
15.0	1054.79	1.00	270.0	1606.94	1.49
20.0	900.82	0.86	275.0	1403.92	1.31
25.0	728.47	0.70	280.0	1176.51	1.11
30.0	551.57	0.53	285.0	939.17	0.89
35.0	407.22	0.40	290.0	712.29	0.68
40.0	379.20	0.37	295.0	530.97	0.51
45.0	505.30	0.49	300.0	455.00	0.44
50.0	707.99	0.68	305.0	516.71	0.50
55.0	928.67	0.88	310.0	659.23	0.63
60.0	1140.05	1.07	315.0	822.55	0.78
65.0	1325.89	1.24	320.0	979.09	0.93
70.0	1474.49	1.37	325.0	1117.42	1.05
75.0	1577.33	1.46	330.0	1232.50	1.16
80.0	1628.94	1.51	335.0	1322.04	1.24
85.0	1626.99	1.50	340.0	1384.96	1.29
90.0	1572.43	1.46	345.0	1420.78	1.32
95.0	1469.19	1.37	350.0	1429.19	1.33
100.0	1323.90	1.24	355.0	1409.93	1.31
105.0	1145.23	1.08			
110.0	943.31	0.89			
115.0	729.34	0.70			
120.0	515.99	0.50			
125.0	321.70	0.31			
130.0	195.97	0.19			
135.0	231.73	0.23			
140.0	353.51	0.34			
145.0	474.88	0.46			
150.0	574.71	0.55			
155.0	647.10	0.62			
160.0	690.24	0.66			
165.0	704.14	0.67			
170.0	690.08	0.66			
175.0	650.85	0.63			
180.0	591.58	0.57			
185.0	522.06	0.50			
190.0	461.27	0.45			
195.0	441.29	0.43			
200.0	492.96	0.48			
205.0	616.16	0.59			
210.0	787.71	0.75			
215.0	985.40	0.93			
220.0	1192.76	1.12			
225.0	1396.53	1.30			
230.0	1584.96	1.47			
235.0	1747.29	1.61			
240.0	1873.89	1.72			
245.0	1956.70	1.79			
250.0	1989.86	1.82			

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EXHIBIT E1-5D
TABULATION OF CONDUCTIVITIES
RADIO STATION KWAM
990 KHZ, 0.33 KW, 10 KW-LS, DA-2
MEMPHIS, TENNESSEE
=====

Call: KWAM

MEMPHIS, TX

Coordinates: 35 11 45.00 90 00 32.00

Frequency: 990 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:					
		Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.					
0.0	1362.76	8.0E	315.5	15.0E	545.1	8.0E	878.9 4.0E 1212.7
5.0	1287.56	8.0E	347.9	15.0E	606.0	8.0E	1055.8 4.0E 1212.7
10.0	1184.57	8.0E	400.2	15.0E	678.3	8.0E	897.2 15.0E 1035.0
15.0	1054.79	5.0M	35.4	8.0E	714.8	15.0E	754.6 8.0E 1212.7
20.0	900.82	5.0M	35.4	8.0E	779.5	2.0E	784.0 8.0E 907.6
25.0	728.47	5.0M	35.4	8.0E	160.8	4.0E	242.6 8.0E 792.8
30.0	551.57	5.0M	35.4	8.0E	124.8	4.0E	239.8 8.0E 629.3
35.0	407.22	8.0E	106.6	4.0E	230.8	8.0E	682.0 15.0E 778.6
40.0	379.20	8.0E	94.0	4.0E	225.7	8.0E	739.1 15.0E 939.8
45.0	505.30	8.0E	87.3	4.0E	235.0	8.0E	415.4 4.0E 509.3
50.0	707.99	8.0E	82.0	4.0E	283.6	8.0E	305.5 4.0E 527.5
55.0	928.67	8.0E	78.0	4.0E	580.3	8.0E	676.0 2.0E 912.8
60.0	1140.05	8.0M	37.0	8.0E	75.0	4.0E	557.3 8.0E 637.8
65.0	1325.89	8.0M	37.0	8.0E	72.8	4.0E	507.8 2.0E 1212.7
70.0	1474.49	8.0M	37.0	8.0E	71.2	4.0E	478.4 2.0E 1189.6
75.0	1577.33	8.0M	37.0	8.0E	71.2	4.0E	467.7 2.0E 630.9
80.0	1628.94	10.0M	22.5	8.0E	71.9	4.0E	428.1 2.0E 644.7
85.0	1626.99	10.0M	22.5	8.0E	73.1	4.0E	377.6 2.0E 851.5
90.0	1572.43	10.0M	22.5	8.0E	74.9	4.0E	345.5 2.0E 439.9
95.0	1469.19	7.0M	35.4	8.0E	77.4	4.0E	322.9 2.0E 420.9
100.0	1323.90	8.0E	80.8	4.0E	305.3	2.0E	405.8 4.0E 472.7
105.0	1145.23	8.0E	85.1	4.0E	292.2	2.0E	390.7 4.0E 439.1
110.0	943.31	8.0E	90.6	4.0E	284.0	2.0E	373.7 4.0E 420.4
115.0	729.34	8.0E	97.2	4.0E	290.1	2.0E	360.6 4.0E 411.1
120.0	515.99	8.0E	104.1	4.0E	413.6	2.0E	512.5 4.0E 924.4
125.0	321.70	8.0E	112.7	4.0E	180.7	2.0E	280.2 4.0E 729.5
130.0	195.96	8.0E	120.7	4.0E	153.3	2.0E	331.9 4.0E 472.9
135.0	231.73	8.0E	131.0	4.0E	137.5	2.0E	371.3 4.0E 443.8
140.0	353.51	15.0M	37.0	8.0E	139.7	2.0E	402.1 4.0E 415.4
145.0	474.88	15.0M	37.0	8.0E	147.9	2.0E	428.9 8.0E 536.2
150.0	574.71	15.0M	37.0	8.0E	156.5	2.0E	456.3 8.0E 501.8
155.0	647.10	15.0M	37.0	8.0E	167.4	2.0E	491.0 1.0E 584.0
160.0	690.24	15.0M	37.0	8.0E	181.9	2.0E	542.9 5000.0E 582.2
165.0	704.14	8.0E	202.0	2.0E	313.4	4.0E	377.0 2.0E 559.4
170.0	690.08	8.0E	236.5	2.0E	305.4	4.0E	427.2 2.0E 544.2
175.0	650.85	15.0M	30.0	8.0E	301.8	2.0E	304.1 4.0E 503.0
180.0	591.58	15.0M	30.0	8.0E	311.3	4.0E	538.7 15.0E 543.7
185.0	522.06	15.0M	30.0	8.0E	411.8	4.0E	534.5 15.0E 659.8
190.0	461.27	15.0M	30.0	8.0E	512.5	4.0E	554.0 8.0E 566.5
195.0	441.29	8.0E	585.7	15.0E	627.8	5000.0E	1212.7
200.0	492.96	8.0E	602.3	15.0E	646.9	30.0E	666.1 5000.0E 1212.7
205.0	616.16	8.0E	539.7	15.0E	604.3	8.0E	610.3 30.0E 670.2
210.0	787.71	8.0E	405.6	4.0E	485.9	8.0E	506.8 15.0E 578.5
215.0	985.40	8.0E	329.1	4.0E	462.4	15.0E	536.0 8.0E 679.6
220.0	1192.76	8.0E	231.6	4.0E	422.1	15.0E	493.7 8.0E 716.5
225.0	1396.53	8.0E	187.1	4.0E	390.2	15.0E	469.6 8.0E 563.2
230.0	1584.96	8.0E	171.7	4.0E	371.9	15.0E	458.5 8.0E 570.5
235.0	1747.29	8.0E	164.4	4.0E	415.5	8.0E	619.7 4.0E 779.3
240.0	1873.89	8.0E	159.3	4.0E	427.2	8.0E	673.6 4.0E 675.9

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EXHIBIT E1-5D, PAGE-2
 TABULATION OF CONDUCTIVITIES
 RADIO STATION KWAM
 990 KHZ, 0.33 KW, 10 KW-LS, DA-2
 MEMPHIS, TENNESSEE
 =====

Call: KWAM
 MEMPHIS, TX
 Coordinates: 35 11 45.00 90 00 32.00
 Frequency: 990 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data:							
		Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
245.0	1956.70	8.0E	157.2	4.0E	478.4	8.0E	591.0	30.0E	716.9
250.0	1989.85	8.0E	158.1	4.0E	531.0	30.0E	687.8	15.0E	936.4
255.0	1970.13	8.0E	162.9	4.0E	400.0	15.0E	434.3	4.0E	491.8
260.0	1897.32	8.0E	173.7	4.0E	365.7	15.0E	654.7	30.0E	1066.5
265.0	1774.29	8.0E	195.9	4.0E	335.2	15.0E	624.3	30.0E	772.7
270.0	1606.94	8.0E	240.9	4.0E	313.9	15.0E	625.6	30.0E	736.6
275.0	1403.92	8.0E	312.2	15.0E	383.9	8.0E	453.7	15.0E	578.7
280.0	1176.51	8.0E	480.5	15.0E	557.1	8.0E	639.9	30.0E	807.2
285.0	939.17	5.0M	35.0	8.0E	484.9	15.0E	559.2	8.0E	630.5
290.0	712.29	5.0M	35.0	8.0E	476.2	15.0E	532.0	30.0E	972.2
295.0	530.97	5.0M	35.0	8.0E	462.7	15.0E	525.7	30.0E	1018.1
300.0	455.00	5.0M	35.0	8.0E	462.4	15.0E	559.7	30.0E	1063.0
305.0	516.71	5.0M	35.0	8.0E	440.6	15.0E	591.2	30.0E	823.2
310.0	659.23	8.0E	443.7	15.0E	629.8	30.0E	770.7	15.0E	935.0
315.0	822.55	8.0E	448.6	15.0E	663.0	30.0E	743.3	15.0E	879.3
320.0	979.09	8.0E	447.7	15.0E	694.7	30.0E	761.8	15.0E	827.5
325.0	1117.42	8.0E	448.8	15.0E	729.7	30.0E	808.9	15.0E	1067.5
330.0	1232.50	8.0E	453.4	15.0E	1212.7				
335.0	1322.04	8.0E	464.3	15.0E	945.7	30.0E	1085.6	15.0E	1212.7
340.0	1384.96	5.0M	41.8	8.0E	489.2	15.0E	956.5	30.0E	1059.8
345.0	1420.78	5.0M	41.8	8.0E	526.7	15.0E	1090.6	4.0E	1212.7
350.0	1429.19	5.0M	41.8	8.0E	355.1	15.0E	402.7	8.0E	538.2
355.0	1409.93	5.0M	41.8	8.0E	319.5	15.0E	468.5	8.0E	813.8

SELLMEYER ENGINEERING

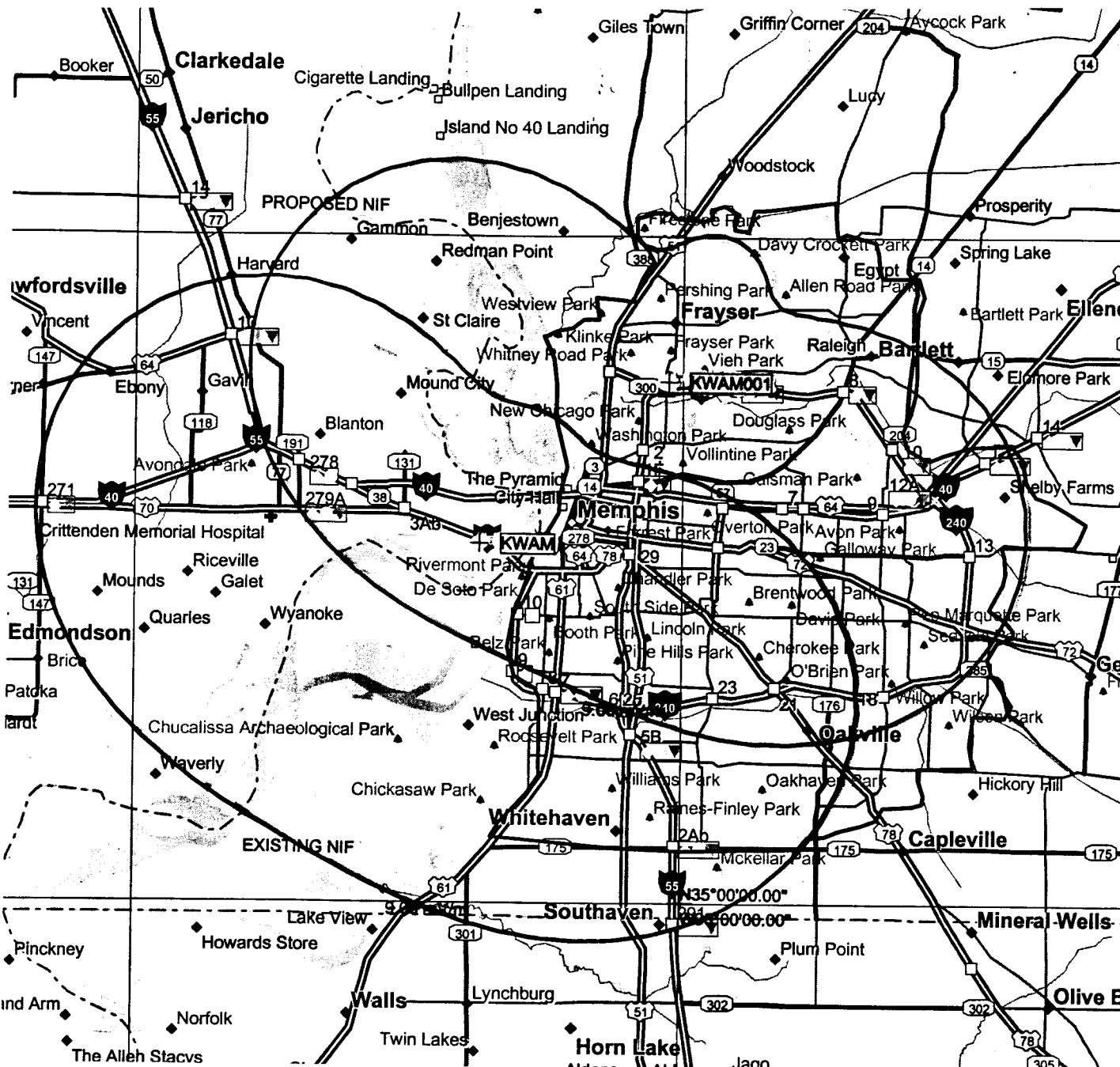
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P.O. Box 356 McKinney, Texas 75070

MEMBER AFCCE

(972) 542-2056

EXHIBIT E1-9A
MAP SHOWING PROPOSED NIGHTTIME SERVICE CONTOUR
RADIO STATION KWAM
990 KHZ, 0.33 KW, 10 KW-LS, DA-2
MEMPHIS, TENNESSEE



(972) 542-2056

Radiation			Distances to Contours in Kilometers:		
(mV/m at			Contour levels in mV/m.		
Azimuth	one km)	9.060	Azimuth	one km)	9.060
0.0	76.31	6.47	0.0	64.72	5.65
5.0	71.52	6.14	5.0	68.09	5.90
10.0	69.59	6.00	10.0	71.94	6.17
15.0	69.42	5.99	15.0	75.18	6.40
20.0	69.96	6.03	20.0	77.19	6.54
25.0	70.45	6.06	25.0	77.67	6.57
30.0	70.50	6.07	30.0	76.56	6.49
35.0	70.08	6.04	35.0	74.00	6.31
40.0	69.50	6.00	40.0	70.42	6.06
45.0	69.45	5.99	45.0	66.61	5.79
50.0	70.94	6.10	50.0	63.85	5.59
55.0	75.08	6.39	55.0	63.92	5.59
60.0	82.72	6.91	60.0	68.51	5.93
65.0	94.19	7.67	65.0	78.32	6.61
70.0	109.24	8.61	70.0	92.87	7.58
75.0	127.27	9.68	75.0	111.08	8.73
80.0	147.58	10.81	80.0	131.79	9.94
85.0	169.38	11.95	85.0	153.95	11.15
90.0	191.94	13.06	90.0	176.64	12.32
95.0	214.49	14.11	95.0	199.00	13.40
100.0	236.32	15.08	100.0	220.26	14.37
105.0	256.75	15.94	105.0	239.71	15.22
110.0	275.16	16.69	110.0	256.75	15.94
115.0	291.04	17.31	115.0	270.89	16.52
120.0	303.97	17.80	120.0	281.78	16.95
125.0	313.67	18.16	125.0	289.23	17.24
130.0	320.02	18.40	130.0	293.22	17.39
135.0	323.03	18.51	135.0	293.85	17.42
140.0	322.85	18.50	140.0	291.41	17.32
145.0	319.78	18.39	145.0	286.27	17.12
150.0	314.20	18.18	150.0	278.92	16.84
155.0	306.59	17.90	155.0	269.89	16.48
160.0	297.47	17.56	160.0	259.76	16.06
165.0	287.39	17.17	165.0	249.10	15.62
170.0	276.89	16.76	170.0	238.44	15.17
175.0	266.48	16.34	175.0	228.28	14.73
180.0	256.65	15.94	180.0	219.06	14.32
185.0	247.79	15.57	185.0	211.13	13.96
190.0	240.26	15.25	190.0	204.77	13.67
195.0	234.32	14.99	195.0	200.21	13.46
200.0	230.18	14.81	200.0	197.58	13.33
205.0	227.97	14.71	205.0	196.97	13.30
210.0	227.77	14.71	210.0	198.39	13.37
215.0	229.58	14.78	215.0	201.81	13.53
220.0	233.34	14.95	220.0	207.11	13.77
225.0	238.93	15.19	225.0	214.12	14.10
230.0	246.17	15.50	230.0	222.61	14.48
235.0	254.79	15.86	235.0	232.26	14.90
240.0	264.46	16.26	240.0	242.67	15.35

SELLMEYER ENGINEERING

BROADCAST AND COMMUNICATIONS CONSULTING ENGINEERS

P.O. Box 356 McKinney, Texas 75070

MEMBER AFCCE

(972) 542-2056

EXHIBIT E1-98, PAGE-2
TABULATION OF DISTANCES TO
NIGHTTIME INTERFERENCE FREE CONTOURS
RADIO STATION KWAM
990 KHZ, 0.33 KW, 10.0 KW-LS, DA-2
MEMPHIS, TENNESSEE

Call: KWAM (EXISTING)
Coordinates: 35° 08' 04"
90° 05' 38"

(PROPOSED)
35° 11' 45"
90° 00' 32"

Frequency: 990 kHz

Radiation Distances to Contours in Kilometers:					
(mV/m at one km)			Contour levels in mV/m.		
Azimuth	one km	9.060	Azimuth	one km	9.060
245.0	274.78	16.67	245.0	253.39	15.80
250.0	285.30	17.09	250.0	263.91	16.23
255.0	295.51	17.48	255.0	273.67	16.63
260.0	304.87	17.84	260.0	282.09	16.96
265.0	312.82	18.13	265.0	288.62	17.21
270.0	318.85	18.35	270.0	292.73	17.37
275.0	322.46	18.49	275.0	293.98	17.42
280.0	323.24	18.51	280.0	292.03	17.35
285.0	320.89	18.43	285.0	286.67	17.14
290.0	315.21	18.22	290.0	277.83	16.79
295.0	306.17	17.89	295.0	265.60	16.30
300.0	293.87	17.42	300.0	250.26	15.67
305.0	278.56	16.82	305.0	232.19	14.90
310.0	260.61	16.10	310.0	211.94	14.00
315.0	240.54	15.26	315.0	190.15	12.98
320.0	218.94	14.31	320.0	167.56	11.86
325.0	196.47	13.28	325.0	144.97	10.67
330.0	173.86	12.18	330.0	123.27	9.45
335.0	151.84	11.04	335.0	103.44	8.25
340.0	131.18	9.90	340.0	86.55	7.17
345.0	112.63	8.82	345.0	73.78	6.30
350.0	96.93	7.84	350.0	66.06	5.75
355.0	84.71	7.05	355.0	63.43	5.56