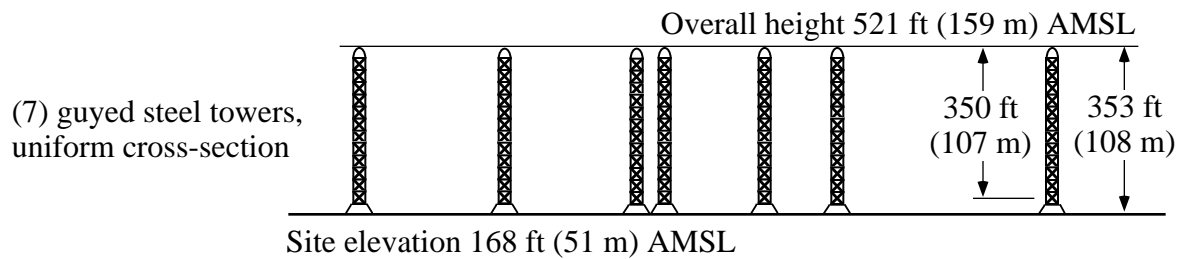
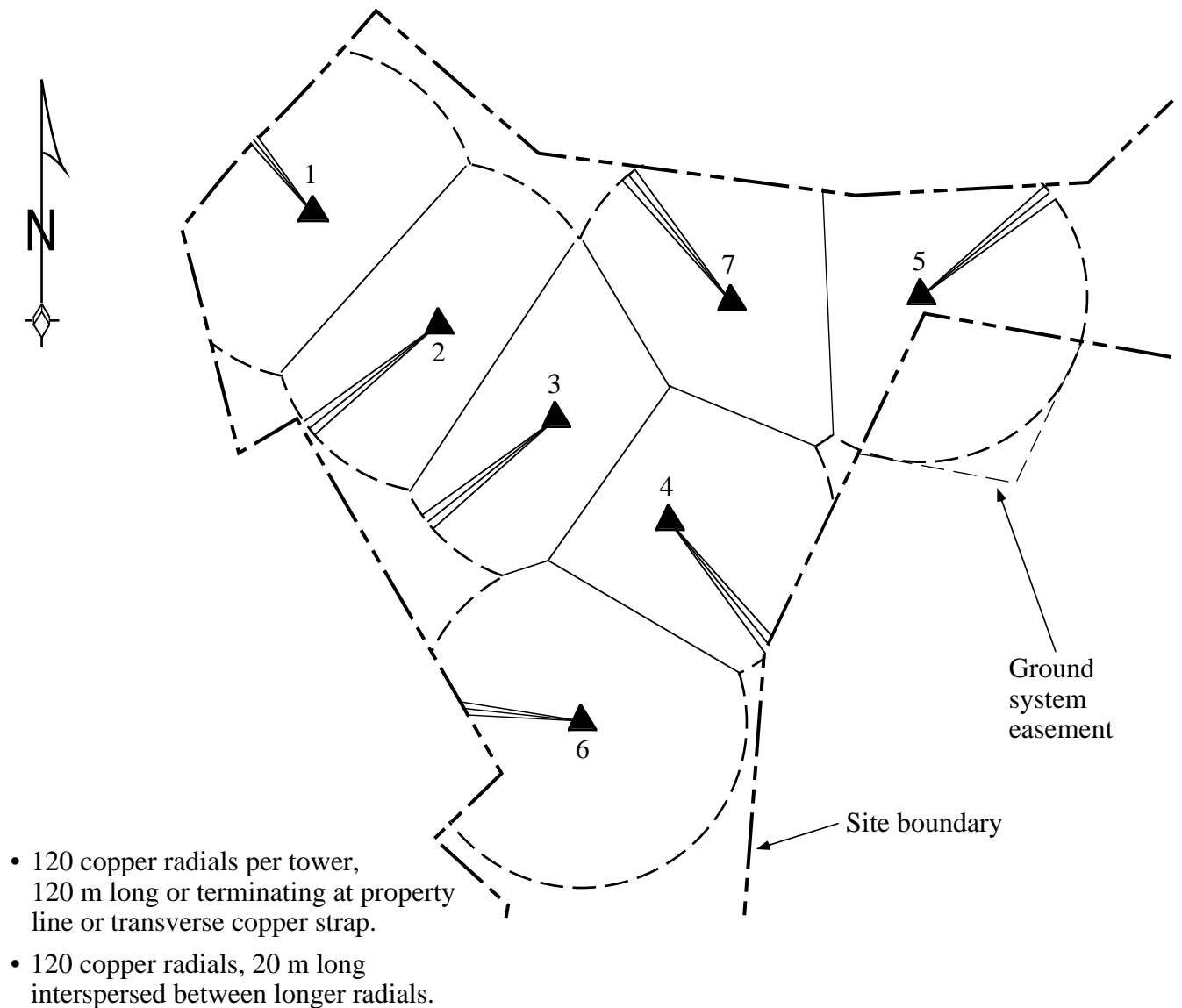


# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Proposed Antenna System



Towers to be painted and lighted in accordance with FAA requirements.

Geographical Coordinates (NAD27)

40° 50' 52" N  
74° 20' 22" W



**HAMMETT & EDISON, INC.**  
CONSULTING ENGINEERS  
SAN FRANCISCO

020410  
Exhibit 10A



**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Site Photographs (1 of 2)**



View looking North



View looking Northeast



View looking East



View looking Southeast

Photographs taken November 18, 2001



**HAMMETT & EDISON, INC.**  
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020410  
Exhibit 10C1



**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Site Photographs (2 of 2)**



View looking South



View looking Southwest



View looking West



View looking Northwest

Photographs taken November 18, 2001

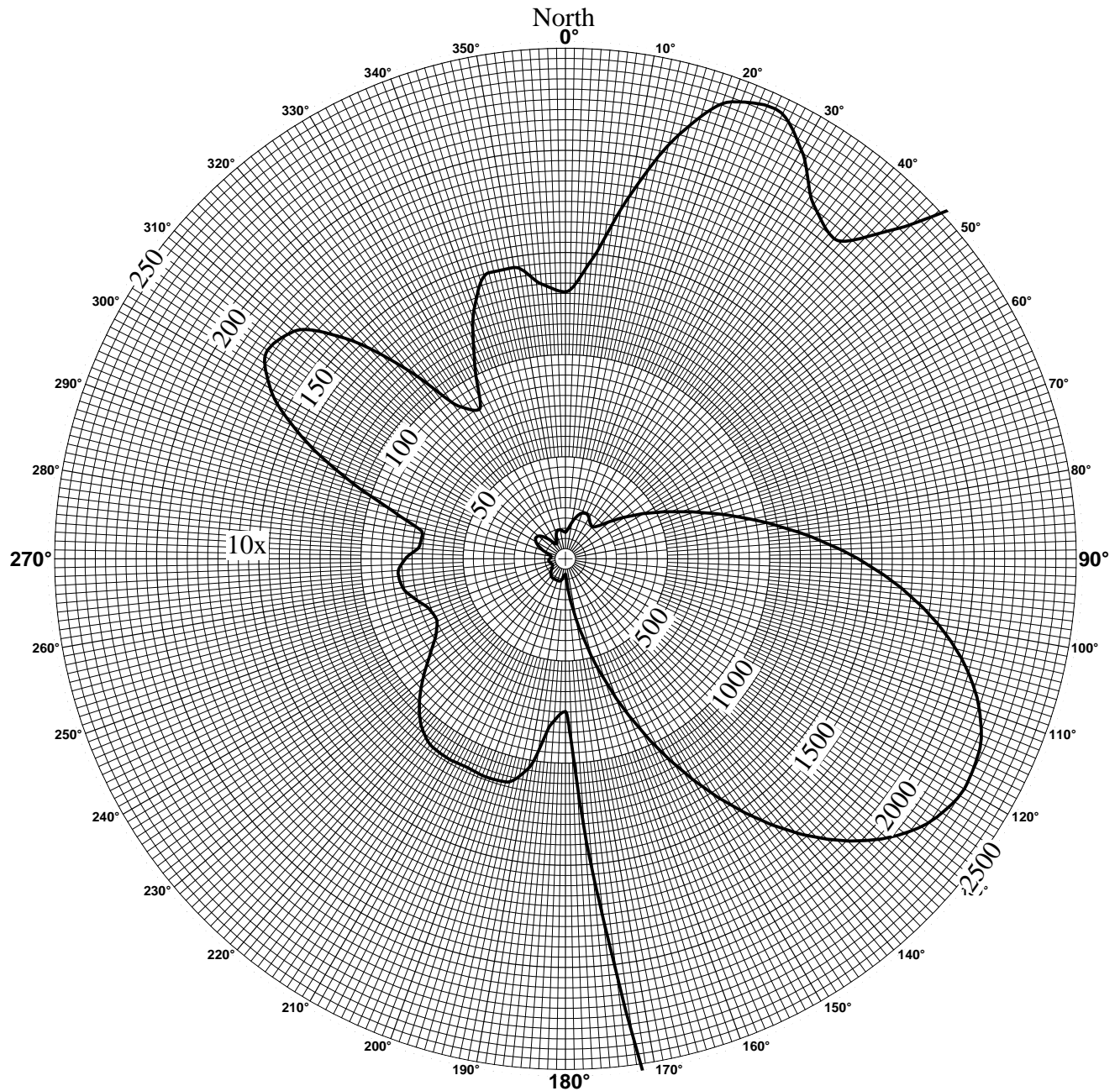


**HAMMETT & EDISON, INC.**  
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Exhibit 10C2

# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Proposed Daytime Standard Pattern (mV/m @ 1 km) FCC Form 301 §III-A, Question 7.



### Standard Pattern Calculations

Theo. RMS	=	823.2 mV/m @ 1 km
k Factor	=	434.8
ERSS	=	2636.3 mV/m @ 1 km
Nominal power	=	8.5 kW
Q	=	65.91 mV/m @ 1 km
Standard RMS	=	867.2 mV/m @ 1 km

### Operating Parameters

Twr	Height	Bearing	Dist.	Field	Phase
1	89.4°	0.0°T	0.0°	1.000	0.0°
2	99.4	131.4	91.6	3.066	-167.7
3	84.4	130.0	172.0	4.207	+18.1
4	84.4	130.9	253.9	2.710	-143.4
5	99.4	97.8	331.1	0.647	-140.6
6	79.4	152.2	309.8	0.547	-73.6
7	79.4	101.9	231.4	0.774	-91.1



**HAMMETT & EDISON, INC.**  
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020410.1  
Exhibit 10D1

# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Proposed Daytime Standard Pattern (mV/m @ 1 km)

Az	El: 0	5	10	15	20	25	30	35	40	45	50	55	60
0	130.7	126.9	117.7	110.9	117.6	142.6	180.5	222.8	263.0	296.5	319.8	330.4	326.6
5	146.9	141.6	127.4	110.1	101.9	116.1	151.4	196.4	242.1	282.2	312.1	328.5	328.8
10	180.2	174.1	156.9	132.6	111.2	109.6	137.0	182.0	231.4	276.5	311.4	331.7	334.4
15	215.0	208.5	189.8	162.7	135.4	123.8	142.1	184.1	234.3	281.6	318.7	340.5	343.7
20	238.1	231.6	213.0	186.3	159.8	147.6	163.0	202.2	251.0	297.7	334.3	355.1	356.6
25	243.1	237.2	220.8	198.3	178.5	174.1	193.5	232.5	279.4	323.5	357.2	374.8	372.8
30	231.0	226.6	215.1	201.5	194.5	203.3	230.9	271.7	316.6	357.1	386.2	398.9	391.8
35	211.7	210.0	206.6	206.4	215.9	239.1	274.9	317.7	360.4	396.4	419.8	426.2	412.9
40	204.6	206.3	212.7	226.7	250.8	284.9	325.9	369.1	408.8	439.5	456.5	455.9	435.6
45	228.2	232.6	246.2	269.4	301.5	340.6	383.1	424.6	460.1	484.9	494.8	486.8	459.0
50	282.5	288.0	304.3	330.4	364.6	404.0	444.8	482.7	513.0	531.3	533.8	518.0	482.7
55	356.1	361.7	377.8	403.3	435.9	472.6	509.5	542.2	566.3	577.6	572.5	548.9	505.9
60	443.0	448.0	462.4	485.0	513.7	545.4	576.5	602.6	619.5	623.1	610.2	578.8	528.4
65	545.6	549.4	560.5	578.0	600.1	624.1	646.9	664.4	672.6	667.7	646.5	607.2	549.5
70	670.7	672.7	678.6	687.8	699.6	712.1	722.9	728.8	726.2	711.3	681.1	633.8	569.1
75	824.4	823.8	822.1	819.6	816.6	812.9	807.2	797.5	780.9	754.1	713.9	658.4	586.9
80	1007.3	1003.4	992.1	974.7	952.8	928.0	900.9	871.3	837.3	796.2	744.9	680.7	602.5
85	1213.7	1206.0	1183.8	1149.2	1105.3	1055.6	1003.1	949.6	895.0	837.4	773.6	700.4	615.9
90	1432.7	1421.1	1387.4	1334.5	1267.0	1190.4	1110.0	1030.1	952.5	876.6	799.4	717.1	626.6
95	1650.7	1635.2	1590.0	1519.0	1428.0	1324.3	1215.6	1108.4	1007.1	912.3	821.5	730.4	634.6
100	1852.9	1833.8	1778.0	1690.1	1577.1	1448.0	1312.5	1179.4	1055.2	942.3	838.7	739.7	639.5
105	2025.2	2003.0	1938.0	1835.5	1703.4	1552.2	1393.2	1237.3	1093.0	964.2	849.8	744.3	641.0
110	2155.3	2130.6	2058.3	1944.1	1797.0	1628.2	1450.7	1276.9	1116.8	975.8	853.4	743.8	639.1
115	2233.5	2207.0	2129.7	2007.6	1850.0	1669.3	1479.3	1293.6	1123.4	975.1	848.5	737.6	633.5
120	2253.3	2226.0	2146.1	2020.0	1857.3	1671.0	1475.3	1284.5	1110.8	960.8	834.6	725.7	624.4
125	2211.9	2184.6	2104.8	1978.8	1816.6	1631.1	1436.9	1248.6	1078.2	932.7	811.7	708.1	611.8
130	2110.4	2083.9	2006.7	1885.0	1728.7	1550.5	1364.9	1186.3	1026.3	891.3	780.3	685.4	596.1
135	1953.4	1928.7	1856.5	1742.9	1597.5	1432.7	1262.4	1100.2	957.1	838.4	741.7	658.4	577.9
140	1749.6	1727.3	1662.1	1559.9	1429.9	1283.7	1134.4	994.8	874.4	776.6	697.7	628.1	557.6
145	1510.5	1491.1	1434.5	1346.3	1235.0	1111.6	988.2	876.0	782.7	709.5	650.5	595.9	535.9
150	1250.2	1234.0	1187.0	1114.4	1024.2	926.4	832.2	750.9	687.7	640.9	602.7	563.1	513.6
155	984.2	971.3	934.3	877.8	809.6	739.1	676.0	627.6	595.6	575.0	556.6	531.0	491.2
160	728.2	718.5	690.9	650.2	604.0	561.1	529.9	514.5	512.4	515.5	514.1	500.3	469.1
165	496.8	489.8	470.7	444.5	419.3	403.9	404.3	419.6	443.0	464.8	476.5	471.9	447.7
170	302.1	297.3	285.1	272.1	267.5	279.6	309.0	349.0	390.2	424.1	444.0	445.7	427.0
175	154.9	151.6	145.2	145.3	163.1	200.6	250.6	304.1	353.3	392.1	415.9	421.4	407.0
180	74.8	73.2	73.7	88.7	123.3	171.4	225.7	279.7	328.3	366.7	391.2	398.7	387.5
185	81.4	82.0	86.9	102.8	132.4	172.9	219.2	266.3	309.6	344.9	368.3	376.9	368.5
190	104.1	105.6	111.5	124.9	147.8	179.1	216.2	255.3	292.6	324.0	346.1	355.5	349.8
195	113.1	115.2	121.8	134.2	153.4	178.8	209.2	241.9	274.2	302.6	323.7	334.2	331.2
200	113.7	115.7	122.1	133.2	149.5	170.8	196.3	224.5	253.3	279.8	300.8	312.9	313.0
205	112.9	114.4	119.1	127.5	140.1	157.2	178.7	203.5	230.1	255.8	277.5	291.8	295.1
210	113.4	113.9	116.0	120.4	128.2	140.6	158.1	180.2	205.3	231.1	254.3	271.2	278.0
215	112.9	112.6	112.1	112.4	115.3	122.8	136.2	155.8	180.2	206.8	231.9	251.7	262.0
220	108.9	108.1	105.7	103.0	101.7	104.6	114.4	132.1	156.3	184.1	211.4	234.1	247.6
225	101.1	99.9	96.6	91.9	87.7	87.2	94.2	110.8	135.5	164.7	194.1	219.1	235.3
230	90.9	89.6	85.9	80.4	74.8	72.5	78.4	94.9	120.4	150.7	181.4	207.8	225.7
235	80.7	79.5	76.1	70.9	65.8	64.3	71.0	88.3	114.0	144.1	174.6	201.0	219.2
240	73.1	72.2	69.7	66.4	64.2	66.2	75.6	93.5	118.0	146.2	174.5	199.2	216.2
245	69.7	69.3	68.6	68.5	71.0	77.9	90.6	108.9	131.6	156.6	181.3	202.5	216.7
250	71.2	71.5	72.8	76.4	83.7	95.5	111.5	130.7	152.0	173.6	193.9	210.5	220.6
255	76.1	76.9	80.1	87.0	98.7	115.0	134.6	155.5	176.2	195.1	210.9	222.3	227.6
260	80.9	82.1	86.8	96.8	112.8	133.9	157.5	181.0	202.1	219.1	231.0	237.1	236.9
265	82.2	83.7	89.8	103.0	123.8	150.3	178.9	205.8	228.2	244.1	252.6	253.8	248.0
270	78.3	80.1	87.5	104.4	130.9	163.7	198.0	229.2	253.6	269.1	274.9	271.5	260.3
275	71.7	73.3	81.6	102.2	134.9	174.5	214.9	250.7	277.7	293.4	297.0	289.5	273.2
280	71.0	71.5	78.3	100.6	138.2	184.0	230.3	270.7	300.4	316.4	318.2	307.1	286.1
285	85.7	84.3	86.4	105.4	144.2	194.0	245.0	289.4	321.5	337.9	338.1	323.8	298.5
290	113.1	109.9	106.7	118.9	154.8	205.8	259.7	307.0	340.9	357.6	356.4	339.2	310.1
295	143.0	138.8	131.7	137.8	168.9	219.1	274.5	323.6	358.6	375.2	372.6	352.8	320.6
300	166.8	161.9	152.9	155.5	183.5	232.6	288.6	338.7	374.2	390.4	386.3	364.5	329.6
305	178.0	173.1	164.3	167.0	195.1	244.7	301.3	351.8	387.2	402.7	397.4	373.8	336.9
310	173.3	169.2	162.7	169.6	201.8	254.0	311.7	362.3	397.2	411.9	405.4	380.5	342.4
315	152.8	150.3	149.0	164.3	204.1	260.2	319.2	369.6	403.7	417.4	410.0	384.5	346.0
320	121.3	121.5	128.7	155.7	204.1	263.9	323.5	373.2	406.2	418.9	411.1	385.7	347.6
325	91.3	95.2	112.8	150.5	204.7	265.9	324.6	372.6	404.1	416.0	408.4	384.0	347.4
330	84.4	90.9	113.2	153.5	207.2	266.0	321.7	367.2	397.1	408.7	402.0	379.6	345.5
335	105.1	110.2	128.3	162.4	209.5	262.7	313.9	356.3	384.8	396.8	392.1	372.8	342.3
340	130.4	133.3	144.7	169.5	207.6	253.5	299.7	339.2	367.1	380.6	379.1	364.2	338.1
345	145.0	145.9	151.5	167.8	197.3	236.4	278.2	315.9	344.4	360.8	363.9	354.5	333.7
350	144.8	144.1	145.0	154.2	176.6	210.4	249.5	287.1	318.0	338.7	347.8	344.7	329.8
355	135.0	132.9	129.2	131.5	147.4	177.4	215.5	254.8	289.7	316.4	332.4	336.2	327.1



**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Distance to Proposed Daytime Contours**

<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>	<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>
0°T	12.39 km	21.22 km	41.94 km	45°T	23.48 km	40.49 km	72.51 km
1	12.48	21.34	42.14	46	24.09	41.36	72.76
2	12.61	21.54	42.47	47	24.73	42.28	73.06
3	12.81	21.82	42.93	48	25.46	43.29	73.52
4	13.05	22.18	43.51	49	26.20	44.34	73.92
5	13.34	22.59	44.19	50	26.97	45.43	74.44
6	13.66	23.06	44.96	51	27.76	46.53	74.99
7	14.00	23.56	45.79	52	28.60	47.69	75.58
8	14.37	24.08	46.65	53	29.42	48.85	76.25
9	14.74	24.61	48.13	54	30.25	49.99	76.92
10	15.11	25.15	50.23	55	31.08	51.14	77.61
11	15.48	25.67	52.34	56	31.94	52.33	78.40
12	15.83	26.17	54.32	57	32.78	53.48	79.09
13	16.17	26.65	56.17	58	33.62	54.63	79.87
14	16.49	32.78	70.18	59	34.47	55.79	80.66
15	18.12	34.75	72.50	60	35.31	56.93	81.46
16	19.47	36.27	74.36	61	36.19	58.02	82.37
17	20.51	37.47	75.84	62	37.05	58.47	83.27
18	21.32	38.41	77.04	63	37.91	58.93	84.19
19	21.99	39.20	78.04	64	38.79	59.40	85.12
20	22.46	39.77	78.79	65	39.68	59.97	86.16
21	22.88	40.26	79.41	66	40.57	60.45	87.12
22	23.23	40.66	79.90	67	41.49	61.04	88.19
23	23.47	40.92	80.22	68	42.44	61.56	89.21
24	23.59	41.05	80.36	69	43.37	62.16	90.32
25	23.67	41.12	80.39	70	44.32	62.78	92.02
26	23.69	41.11	80.32	71	45.30	63.41	152.22
27	23.67	41.03	80.15	72	46.28	64.04	168.11
28	23.55	40.84	79.83	73	47.27	64.78	200.39
29	23.45	40.65	79.48	74	48.27	77.00	227.16
30	23.27	40.37	79.01	75	49.29	103.71	314.60
31	23.06	40.05	78.48	76	50.31	131.68	399.83
32	22.84	39.71	77.92	77	51.33	158.21	427.95
33	22.60	39.36	77.35	78	52.40	171.52	368.07
34	22.38	39.02	76.79	79	53.43	167.02	346.48
35	22.16	38.69	76.26	80	60.23	163.48	394.70
36	21.98	38.41	75.80	81	70.62	160.03	395.45
37	21.81	38.16	75.41	82	76.03	155.49	350.17
38	21.74	38.03	75.19	83	76.99	109.22	196.02
39	21.73	38.01	74.99	84	72.27	106.86	136.81
40	21.78	38.07	73.89	85	70.08	93.30	130.56
41	21.95	38.31	73.32	86	71.17	83.98	119.04
42	22.18	38.65	72.92	87	71.34	83.55	114.76
43	22.55	39.16	72.64	88	69.98	82.39	114.07
44	22.97	39.77	72.45	89	68.69	81.28	113.43



**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Distance to Proposed Daytime Contours**

<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>	<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>
90°T	67.71 km	80.48 km	113.09 km	135°T	203.68 km	372.30 km	663.13 km
91	66.95	79.90	112.97	136	215.11	383.09	673.44
92	66.24	79.37	112.87	137	210.01	377.33	667.22
93	65.62	78.92	112.85	138	203.30	370.06	659.44
94	65.61	79.08	113.42	139	198.12	364.04	653.10
95	66.67	80.30	115.04	140	194.12	359.12	647.83
96	66.22	80.01	130.97	141	189.94	353.98	642.01
97	65.61	79.55	157.88	142	185.60	348.61	635.86
98	64.03	78.12	192.07	143	180.95	343.03	629.43
99	62.64	76.88	226.90	144	176.15	336.96	622.72
100	62.15	76.53	245.29	145	171.12	330.57	615.64
101	60.98	75.49	256.60	146	165.88	324.06	608.37
102	59.90	74.53	268.58	147	156.52	313.36	596.85
103	59.33	74.08	282.35	148	145.73	300.89	583.31
104	58.56	73.43	298.65	149	134.12	287.60	568.90
105	58.03	73.00	318.37	150	122.07	273.78	553.86
106	57.37	72.45	336.49	151	108.61	258.43	537.35
107	56.85	72.02	353.21	152	89.13	236.57	514.49
108	56.39	71.65	362.57	153	68.88	214.21	490.50
109	55.79	71.13	364.91	154	64.75	194.15	468.67
110	55.44	75.57	369.53	155	62.39	173.03	445.90
111	54.89	76.50	370.52	156	60.24	152.67	423.83
112	54.61	81.58	375.63	157	58.41	133.03	402.19
113	54.28	84.57	378.73	158	56.54	112.40	379.19
114	53.90	86.89	381.13	159	54.86	92.93	357.20
115	53.64	89.01	383.32	160	53.14	78.56	333.46
116	53.41	111.80	406.28	161	51.24	76.11	307.33
117	57.89	187.73	481.93	162	49.56	73.86	281.38
118	79.43	252.73	546.71	163	47.61	71.32	252.87
119	91.59	264.81	558.76	164	45.32	68.94	230.93
120	104.57	277.97	571.87	165	38.11	66.26	213.82
121	117.52	290.84	584.67	166	35.83	63.65	193.95
122	121.56	294.80	588.57	167	33.97	60.99	152.54
123	120.87	294.03	587.73	168	32.06	57.54	109.21
124	118.01	291.06	584.69	169	30.10	53.99	97.58
125	113.48	286.39	579.93	170	28.14	50.53	92.61
126	108.21	280.96	574.39	171	26.15	46.90	87.43
127	104.72	277.22	570.57	172	24.11	43.31	82.26
128	114.98	287.10	580.35	173	22.10	39.80	77.12
129	125.58	297.27	590.29	174	20.09	35.55	71.80
130	135.53	306.76	599.50	175	18.08	32.58	66.50
131	145.70	316.48	608.91	176	16.16	29.68	61.85
132	162.46	332.76	624.84	177	14.32	26.86	57.28
133	176.30	346.08	637.78	178	12.70	24.29	53.05
134	188.10	357.33	648.61	179	11.32	22.10	49.38



**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Distance to Proposed Daytime Contours**

<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>	<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>
180°T	10.33 km	20.49 km	46.65 km	225°T	10.49 km	20.05 km	49.32 km
181	9.83	19.65	45.21	226	10.35	19.58	48.65
182	9.73	19.51	44.99	227	10.21	19.08	47.95
183	9.96	19.92	45.73	228	10.07	18.58	47.22
184	10.39	20.66	47.03	229	9.92	18.07	46.48
185	10.91	21.54	48.57	230	9.76	17.55	45.71
186	11.44	22.42	50.09	231	9.61	17.09	44.93
187	11.93	23.25	51.51	232	9.45	16.85	44.07
188	12.37	23.97	52.76	233	9.30	16.62	43.30
189	12.74	24.59	53.81	234	9.15	16.39	42.44
190	12.99	25.05	54.63	235	9.00	16.17	41.61
191	13.18	25.40	55.28	236	8.87	15.95	40.79
192	13.31	25.65	55.75	237	8.73	15.75	39.99
193	13.37	25.81	56.08	238	8.61	15.56	39.24
194	13.33	25.84	56.23	239	8.50	15.39	38.44
195	13.24	25.80	56.27	240	8.40	15.23	37.69
196	13.23	25.82	56.34	241	8.31	15.10	36.98
197	13.20	25.80	56.34	242	8.24	14.99	36.52
198	13.14	25.75	56.29	243	8.19	14.91	36.12
199	13.07	25.67	56.20	244	8.15	14.84	35.78
200	13.00	25.58	56.10	245	8.13	14.81	35.42
201	12.91	25.49	55.98	246	8.12	14.80	35.12
202	12.83	25.40	55.87	247	8.13	14.82	34.90
203	12.75	25.31	55.77	248	8.16	14.86	34.74
204	12.62	25.17	55.62	249	8.20	14.92	34.63
205	12.55	25.09	55.54	250	8.25	15.00	34.58
206	12.42	24.97	55.41	251	8.31	15.10	34.48
207	12.36	24.91	55.36	252	8.39	15.22	34.51
208	12.23	24.79	55.25	253	8.47	15.34	34.47
209	12.11	24.67	55.15	254	8.55	15.47	34.45
210	11.98	24.55	55.03	255	8.64	15.61	34.35
211	11.84	24.42	54.91	256	8.73	15.74	34.25
212	11.63	24.21	54.70	257	8.81	15.86	34.13
213	11.48	24.05	54.53	258	8.88	15.98	34.00
214	11.30	23.80	54.27	259	8.95	16.09	33.75
215	11.28	23.52	53.96	260	9.01	16.18	33.72
216	11.25	23.15	53.55	261	9.06	16.25	33.70
217	11.21	22.74	53.08	262	9.10	16.31	33.79
218	11.15	22.31	52.58	263	9.12	16.34	33.85
219	11.09	22.08	52.26	264	9.13	16.35	33.86
220	11.02	21.83	51.91	265	9.11	16.33	33.83
221	10.93	21.56	51.51	266	9.09	16.29	33.76
222	10.84	21.18	50.98	267	9.04	16.23	33.65
223	10.73	20.85	50.49	268	8.98	16.13	33.49
224	10.61	20.42	49.88	269	8.91	16.02	33.30

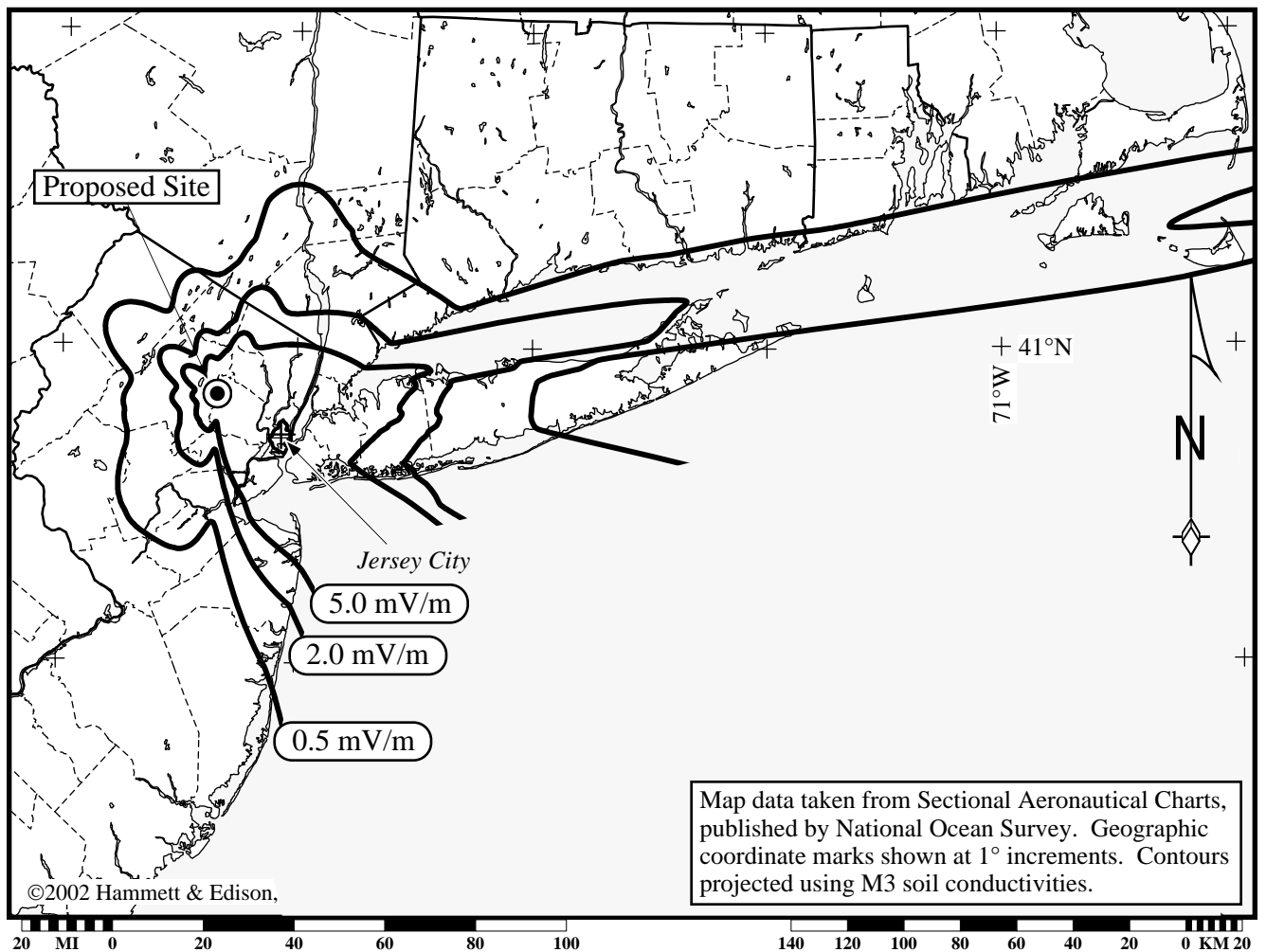
**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Distance to Proposed Daytime Contours**

<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>	<u>Azimuth</u>	<u>5 mV/m</u>	<u>2 mV/m</u>	<u>0.5 mV/m</u>
270°T	8.82 km	15.88 km	33.07 km	315°T	13.67 km	23.07 km	44.99 km
271	8.72	15.73	32.81	316	13.35	22.62	44.23
272	8.61	15.56	32.53	317	13.00	22.12	43.40
273	8.50	15.39	32.24	318	12.63	21.57	42.51
274	8.39	15.22	31.96	319	12.23	20.99	41.55
275	8.29	15.07	31.70	320	11.82	20.38	40.55
276	8.21	14.94	31.49	321	11.39	19.75	39.51
277	8.15	14.85	31.34	322	10.96	19.11	38.45
278	8.14	14.82	31.29	323	10.54	18.48	37.42
279	8.16	14.86	31.36	324	10.14	17.89	36.43
280	8.23	14.98	31.55	325	9.79	17.36	35.55
281	8.36	15.18	31.89	326	9.50	16.93	34.82
282	8.54	15.46	32.36	327	9.30	16.61	34.30
283	8.78	15.82	32.97	328	9.19	16.45	34.03
284	9.06	16.25	33.70	329	9.19	16.44	34.02
285	9.38	16.74	34.52	330	9.29	16.60	34.28
286	9.73	17.28	35.40	331	9.48	16.89	34.76
287	10.11	17.84	36.34	332	9.74	17.28	35.42
288	10.50	18.42	37.31	333	10.06	17.76	36.21
289	10.89	19.01	38.29	334	10.40	18.28	37.07
290	11.29	19.60	39.26	335	10.76	18.81	37.96
291	11.68	20.18	40.22	336	11.12	19.35	38.84
292	12.06	20.74	41.14	337	11.47	19.86	39.70
293	12.43	21.28	42.04	338	11.80	20.35	40.50
294	12.79	21.79	42.88	339	12.10	20.80	41.23
295	13.12	22.28	43.67	340	12.38	21.20	41.90
296	13.43	22.73	44.42	341	12.62	21.55	42.48
297	13.72	23.14	45.10	342	12.82	21.85	42.97
298	13.98	23.52	45.73	343	13.00	22.10	43.38
299	14.21	23.86	46.28	344	13.13	22.30	43.70
300	14.42	24.16	46.77	345	13.23	22.44	43.94
301	14.60	24.41	47.19	346	13.29	22.53	44.09
302	14.75	24.62	47.54	347	13.32	22.57	44.16
303	14.86	24.79	47.81	348	13.32	22.56	44.14
304	14.95	24.91	48.01	349	13.28	22.51	44.06
305	15.00	24.98	48.14	350	13.22	22.42	43.91
306	15.02	25.01	48.18	351	13.13	22.29	43.70
307	15.01	24.99	48.15	352	13.02	22.14	43.44
308	14.96	24.92	48.04	353	12.90	21.96	43.16
309	14.88	24.81	47.85	354	12.78	21.78	42.86
310	14.76	24.64	47.57	355	12.65	21.60	42.56
311	14.61	24.43	47.22	356	12.54	21.43	42.29
312	14.43	24.16	46.78	357	12.45	21.30	42.07
313	14.21	23.85	46.27	358	12.39	21.21	41.92
314	13.95	23.49	45.67	359	12.37	21.18	41.87

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Proposed Daytime Contours

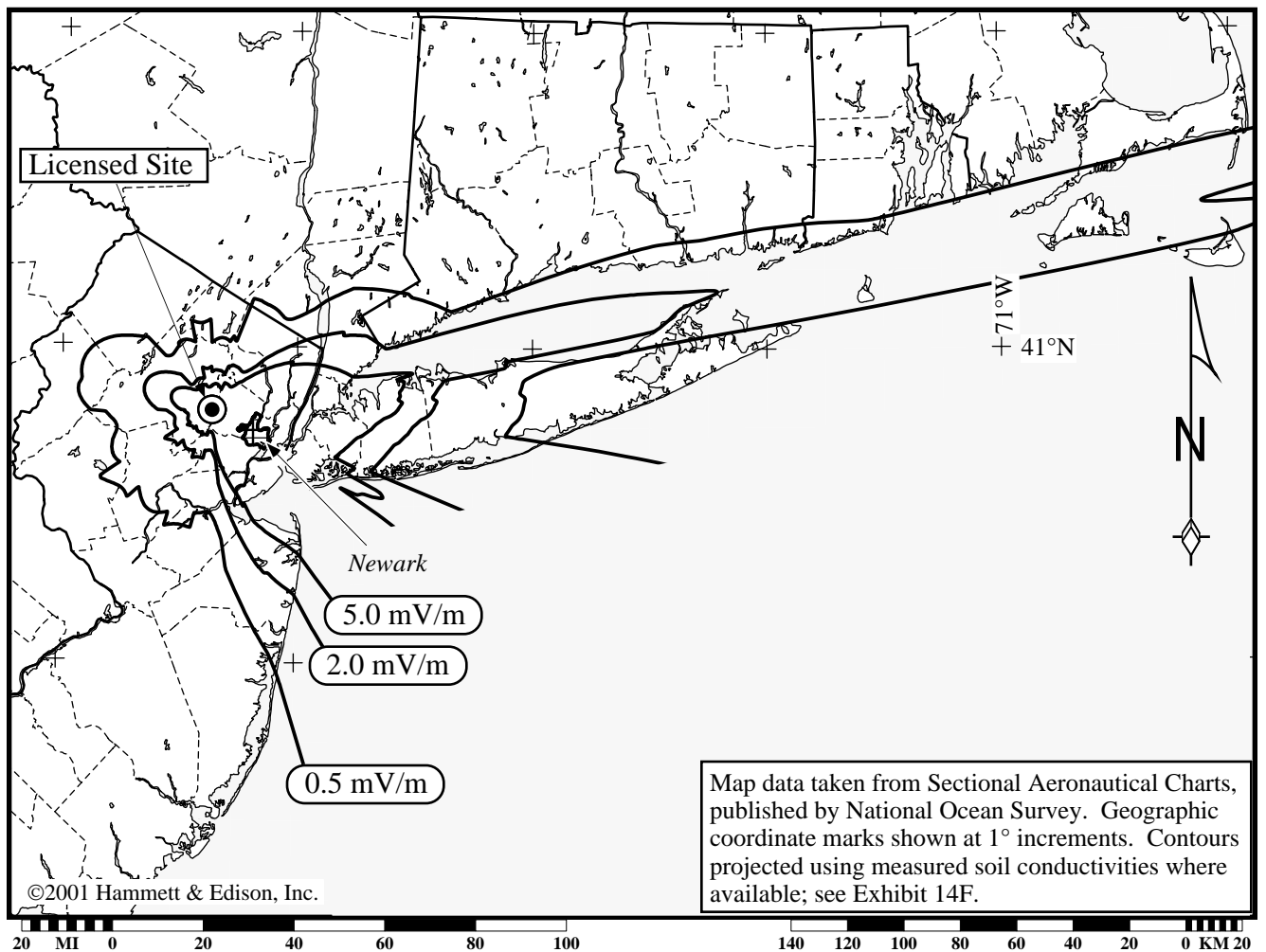


HAMMETT & EDISON, INC.  
CONSULTING ENGINEERS  
SAN FRANCISCO

020410.1  
Exhibit 10D4

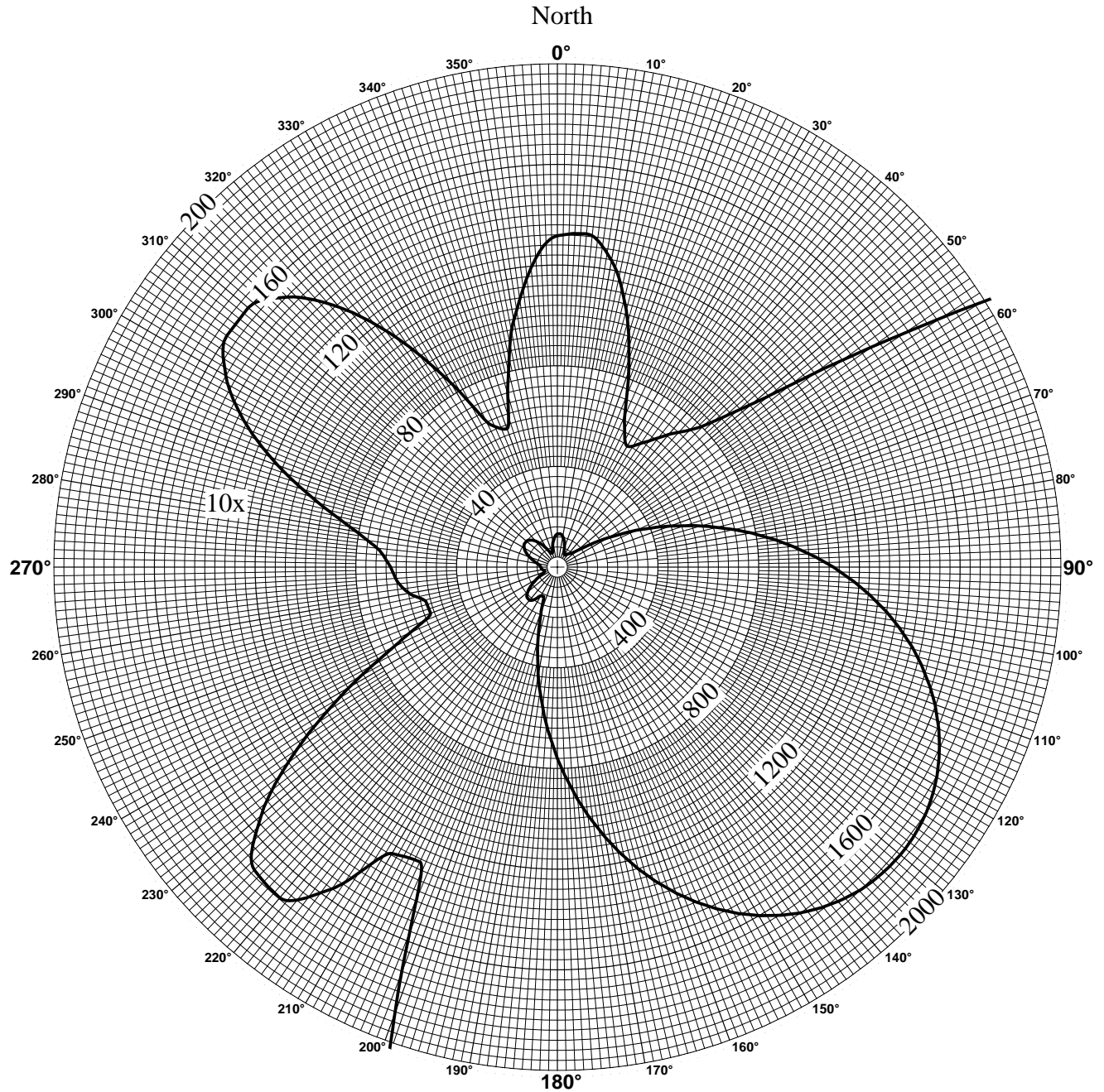
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Licensed Daytime Contours



Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

Proposed Nighttime Standard Pattern (mV/m @ 1 km)  
FCC Form 301 §III-A, Question 7.



Standard Pattern Calculations

Theo. RMS = 750.3 mV/m @ 1 km  
 k Factor = 396.7  
 ERSS = 1734.7 mV/m @ 1 km  
 Nominal power = 5.0 kW  
 Q = 43.37 mV/m @ 1 km  
 Standard RMS = 789.1 mV/m @ 1 km

Operating Parameters

	Twr	Height	Bearing	Dist.	Field	Phase
1	89.4°	0.0°T	0.0°	1.000	0.0°	
2	99.4	131.4	91.6	2.742	-153.3	
3	84.4	130.0	172.0	3.009	+54.1	
4	84.4	130.9	253.9	1.246	-93.6	



**HAMMETT & EDISON, INC.**  
 CONSULTING ENGINEERS  
 SAN FRANCISCO

020410  
 Exhibit 10E1



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Proposed Nighttime Standard Pattern (mV/m @ 1 km)

Az	El: 0	5	10	15	20	25	30	35	40	45	50	55	60
0	131.7	130.8	128.3	123.9	117.7	109.4	99.3	87.6	75.1	62.9	52.4	44.9	40.6
5	133.0	131.8	128.2	122.3	114.3	104.3	92.9	80.6	68.6	57.9	49.7	44.7	42.0
10	123.7	122.3	118.3	111.8	103.2	93.1	82.0	71.0	61.1	53.3	48.3	45.8	44.3
15	105.6	104.3	100.4	94.4	86.7	77.9	69.1	61.1	54.9	51.1	49.2	48.4	47.3
20	82.9	81.8	78.9	74.4	68.9	63.2	58.3	54.8	52.9	52.5	52.6	52.3	50.8
25	63.0	62.5	61.0	59.0	56.9	55.4	54.8	55.2	56.2	57.3	57.7	56.9	54.4
30	55.5	55.5	55.5	55.8	56.5	57.8	59.5	61.4	63.0	63.8	63.4	61.5	57.8
35	60.6	60.8	61.5	62.6	64.1	65.9	67.8	69.3	70.2	70.0	68.5	65.5	60.7
40	68.8	69.0	69.6	70.7	72.0	73.5	74.8	75.7	75.8	74.7	72.4	68.5	63.0
45	78.0	78.1	78.3	78.7	79.2	79.8	80.2	80.3	79.6	77.9	74.9	70.5	64.5
50	100.9	100.5	99.1	97.0	94.5	91.9	89.3	86.8	84.1	80.9	76.9	71.8	65.4
55	152.6	151.1	146.6	139.7	131.1	121.5	111.8	102.7	94.5	87.2	80.4	73.7	66.4
60	235.7	232.8	224.3	210.9	193.9	174.4	154.1	134.3	116.3	100.9	88.1	77.4	68.0
65	345.8	341.3	328.0	307.1	280.0	248.7	215.4	182.3	151.5	124.5	102.2	84.8	71.2
70	477.5	471.1	452.5	423.0	384.6	340.0	292.2	244.0	198.4	157.6	123.4	96.5	76.6
75	624.7	616.3	592.0	553.2	502.7	443.8	380.3	315.9	254.2	198.3	150.6	112.7	84.6
80	781.0	770.7	740.4	692.2	629.2	555.5	475.7	394.4	316.0	244.3	182.4	132.4	95.0
85	940.1	927.8	891.7	834.2	758.9	670.5	574.4	476.2	380.9	293.3	217.0	154.6	107.2
90	1096.1	1081.9	1040.3	973.9	886.8	784.4	672.7	558.0	446.4	343.1	252.6	177.9	120.7
95	1243.6	1227.7	1181.1	1106.6	1008.7	893.3	767.0	637.0	509.9	391.8	287.8	201.4	134.5
100	1378.3	1360.9	1309.8	1228.1	1120.7	993.7	854.4	710.4	569.3	437.7	321.2	223.8	148.0
105	1496.6	1478.0	1423.2	1335.4	1219.7	1082.8	932.2	776.1	622.6	479.0	351.4	244.4	160.5
110	1596.1	1576.4	1518.6	1425.8	1303.5	1158.3	998.4	832.2	668.3	514.6	377.6	262.2	171.5
115	1674.9	1654.5	1594.3	1497.8	1370.2	1218.6	1051.4	877.2	705.1	543.3	398.8	276.7	180.5
120	1732.1	1711.1	1649.2	1550.0	1418.7	1262.6	1090.0	910.1	732.1	564.3	414.3	287.4	187.1
125	1766.8	1745.5	1682.7	1581.7	1448.2	1289.3	1113.5	930.1	748.4	577.1	423.7	293.8	191.0
130	1778.8	1757.4	1694.2	1592.7	1458.3	1298.4	1121.5	936.8	753.8	581.2	426.6	295.7	192.1
135	1767.9	1746.6	1683.6	1582.6	1448.8	1289.7	1113.6	930.0	748.0	576.5	422.9	293.1	190.4
140	1734.1	1713.1	1651.0	1551.4	1419.8	1263.1	1090.1	909.7	731.1	563.1	412.8	285.9	185.8
145	1677.6	1657.0	1596.6	1499.6	1371.4	1219.1	1051.1	876.2	703.5	541.2	396.4	274.5	178.6
150	1598.8	1579.0	1520.8	1427.5	1304.3	1158.3	997.4	830.4	665.7	511.5	374.3	259.1	169.0
155	1498.7	1479.9	1424.6	1336.2	1219.6	1081.6	930.0	773.0	618.7	474.6	347.0	240.4	157.5
160	1378.7	1361.1	1309.6	1227.2	1118.7	990.7	850.3	705.5	563.6	431.7	315.5	218.9	144.4
165	1241.1	1225.1	1177.9	1102.7	1003.9	887.5	760.3	629.5	502.1	384.1	280.7	195.6	130.6
170	1089.2	1074.9	1032.8	965.8	878.0	774.8	662.5	547.5	435.9	333.3	244.1	171.4	116.7
175	927.2	914.8	878.4	820.4	744.7	656.1	560.0	462.0	367.6	281.4	207.3	147.7	103.7
180	760.3	750.0	719.7	671.5	608.7	535.4	456.3	376.3	299.8	230.7	172.2	126.0	92.6
185	595.0	586.8	562.7	524.6	475.1	417.6	356.0	294.2	235.8	184.0	141.1	108.1	84.3
190	438.3	432.2	414.4	386.4	350.1	308.3	264.0	220.3	179.8	144.9	116.8	95.4	79.4
195	298.9	294.9	283.2	264.8	241.4	214.8	187.3	160.9	137.4	117.6	101.8	89.0	77.7
200	188.8	186.7	180.8	171.7	160.4	148.0	135.7	124.3	114.2	105.1	96.6	87.9	78.3
205	129.2	128.8	127.6	125.9	123.6	121.1	118.1	114.7	110.5	105.1	98.4	90.1	80.1
210	131.4	131.4	131.2	130.8	130.0	128.6	126.2	122.5	117.5	111.0	102.9	93.2	82.0
215	156.0	155.6	154.3	152.1	149.0	144.8	139.5	133.1	125.5	116.6	106.6	95.4	83.2
220	171.5	170.7	168.5	164.9	160.0	153.9	146.6	138.3	128.9	118.7	107.6	95.7	83.1
225	170.2	169.4	167.0	163.1	157.9	151.4	143.9	135.5	126.2	116.1	105.3	93.7	81.5
230	153.6	152.9	150.9	147.7	143.4	138.1	132.0	125.1	117.4	108.9	99.6	89.5	78.5
235	126.4	126.0	124.7	122.7	120.0	116.8	113.1	108.8	103.8	98.0	91.2	83.3	74.2
240	95.3	95.1	94.5	93.5	92.5	91.4	90.3	88.9	87.1	84.5	80.8	75.7	69.0
245	68.1	67.9	67.3	66.7	66.3	66.5	67.3	68.5	69.6	70.1	69.5	67.3	63.1
250	53.6	53.1	51.7	49.8	48.3	47.7	48.5	50.7	53.6	56.4	58.4	58.7	57.0
255	53.9	53.1	50.7	47.3	43.5	40.2	38.6	39.2	41.7	45.2	48.6	50.8	51.1
260	59.8	58.9	56.2	52.2	47.4	42.5	38.4	36.1	36.0	38.1	41.2	44.1	45.7
265	63.9	63.0	60.4	56.5	51.8	46.9	42.3	38.6	36.2	35.7	37.0	39.3	41.2
270	66.2	65.1	62.2	58.1	53.6	49.3	45.5	42.1	39.1	36.8	35.9	36.4	37.8
275	70.5	69.0	64.8	59.2	53.5	49.1	46.2	44.2	42.0	39.4	36.9	35.5	35.6
280	81.1	78.8	72.4	63.4	54.5	48.0	45.1	44.5	44.0	42.0	38.9	35.9	34.5
285	98.0	94.8	85.8	72.8	58.9	48.0	43.2	43.5	44.8	44.2	41.2	37.2	34.2
290	118.1	114.0	102.6	85.7	66.8	50.5	41.9	41.9	44.8	45.8	43.4	38.8	34.6
295	137.2	132.4	119.0	99.0	75.9	54.5	41.5	40.3	44.6	47.1	45.4	40.6	35.3
300	152.0	146.8	131.9	109.6	83.4	58.4	41.7	39.4	44.7	48.4	47.3	42.3	36.2
305	160.3	154.7	139.0	115.3	87.3	60.2	41.7	39.1	45.4	49.9	49.1	43.9	37.2
310	160.3	154.7	138.7	114.7	86.3	59.0	41.0	39.8	47.1	51.9	51.1	45.5	38.1
315	151.7	146.3	130.7	107.3	80.0	54.6	40.1	41.9	50.0	54.5	53.1	46.9	38.9
320	134.8	129.7	115.3	93.8	69.4	48.5	40.4	46.0	54.1	57.6	55.1	48.1	39.5
325	111.3	106.8	94.2	76.1	56.9	44.1	44.2	52.3	59.2	61.0	57.0	49.0	40.0
330	84.5	81.1	71.5	58.9	48.4	46.2	52.4	60.4	65.1	64.5	58.7	49.6	40.3
335	62.3	60.4	55.8	51.5	51.4	56.5	63.8	69.4	70.9	67.5	59.8	49.8	40.3
340	58.5	58.5	59.1	61.4	65.8	71.5	76.2	78.2	76.0	69.7	60.2	49.4	40.1
345	75.9	76.5	78.3	81.1	84.3	87.0	87.7	85.4	79.6	70.6	59.6	48.6	39.9
350	99.7	100.0	100.6	101.2	101.2	99.8	96.2	89.9	80.9	69.8	58.0	47.3	39.8
355	119.9	119.5	118.5	116.5	113.0	107.8	100.4	90.8	79.4	67.2	55.4	45.9	39.9



**Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey**

**Distance to Proposed Nighttime Interference-Free Contour**

<u>Azimuth</u>	<u>20.09 mV/m</u>	<u>Azimuth</u>	<u>20.09 mV/m</u>	<u>Azimuth</u>	<u>20.09 mV/m</u>	<u>Azimuth</u>	<u>20.09 mV/m</u>
0°T	4.61 km	45°T	3.06 km	90°T	26.54 km	135T	40.21 km
1	4.64	46	3.21	91	26.99	136	38.98
2	4.66	47	3.35	92	27.44	137	35.30
3	4.67	48	3.56	93	27.87	138	35.07
4	4.66	49	3.77	94	28.28	139	34.98
5	4.65	50	4.02	95	28.68	140	34.88
6	4.62	51	4.31	96	29.08	141	34.77
7	4.58	52	4.67	97	29.46	142	34.65
8	4.53	53	5.05	98	29.82	143	34.52
9	4.46	54	5.46	99	30.17	144	34.38
10	4.39	55	5.92	100	30.51	145	34.21
11	4.30	56	6.43	101	30.84	146	34.04
12	4.21	57	6.94	102	31.16	147	33.87
13	4.10	58	7.49	103	31.47	148	33.68
14	3.98	59	8.05	104	31.76	149	33.48
15	3.86	60	8.63	105	32.04	150	33.27
16	3.73	61	9.26	106	32.30	151	33.04
17	3.59	62	9.88	107	32.56	152	32.81
18	3.45	63	10.51	108	32.82	153	32.56
19	3.31	64	11.14	109	34.04	154	32.28
20	3.16	65	11.79	110	35.01	155	32.01
21	3.02	66	12.44	111	35.10	156	31.73
22	2.87	67	13.09	112	35.75	157	31.44
23	2.74	68	13.77	113	36.28	158	31.13
24	2.62	69	14.42	114	36.67	159	30.81
25	2.50	70	15.07	115	37.16	160	30.47
26	2.41	71	15.72	116	37.26	161	30.10
27	2.34	72	16.37	117	36.83	162	29.74
28	2.28	73	17.01	118	36.48	163	29.37
29	2.25	74	17.64	119	36.12	164	28.98
30	2.24	75	18.27	120	35.84	165	28.55
31	2.25	76	18.89	121	35.69	166	28.13
32	2.28	77	19.50	122	35.75	167	27.70
33	2.32	78	20.13	123	35.92	168	27.26
34	2.37	79	20.72	124	36.09	169	26.77
35	2.42	80	21.30	125	36.14	170	26.30
36	2.48	81	21.88	126	36.31	171	25.82
37	2.54	82	22.44	127	36.46	172	25.29
38	2.59	83	22.99	128	36.61	173	24.77
39	2.65	84	23.53	129	36.80	174	24.24
40	2.70	85	24.06	130	36.94	175	23.67
41	2.75	86	24.57	131	37.27	176	23.12
42	2.80	87	25.08	132	37.97	177	22.51
43	2.89	88	25.57	133	38.63	178	21.93
44	2.97	89	26.07	134	39.31	179	21.30

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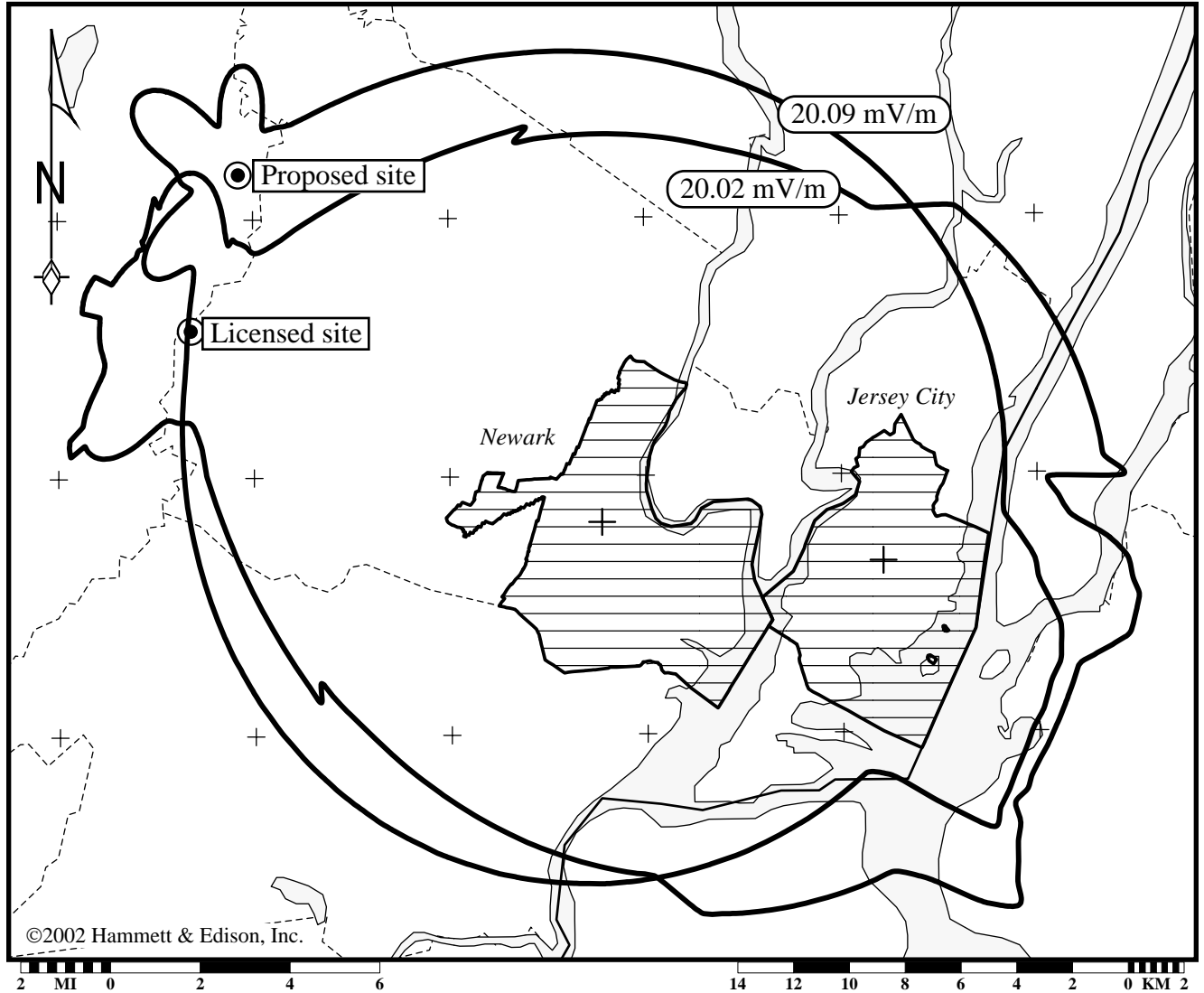
## Distance to Proposed Nighttime Interference-Free Contour

<u>Azimuth</u>	<u>20.09 mV/m</u>	<u>Azimuth</u>	<u>20.09 mV/m</u>	<u>Azimuth</u>	<u>20.09 mV/m</u>	<u>Azimuth</u>	<u>20.09 mV/m</u>
180°T	20.65 km	225°T	5.63 km	270°T	2.61 km	315°T	5.15 km
181	20.03	226	5.57	271	2.63	316	5.08
182	19.35	227	5.50	272	2.65	317	5.00
183	18.67	228	5.41	273	2.68	318	4.91
184	17.96	229	5.31	274	2.72	319	4.81
185	17.25	230	5.20	275	2.76	320	4.70
186	16.53	231	5.07	276	2.81	321	4.58
187	15.79	232	4.94	277	2.87	322	4.45
188	15.05	233	4.79	278	2.94	323	4.32
189	14.29	234	4.63	279	3.02	324	4.18
190	13.48	235	4.46	280	3.10	325	4.03
191	12.66	236	4.29	281	3.20	326	3.87
192	11.84	237	4.11	282	3.30	327	3.71
193	11.01	238	3.93	283	3.41	328	3.55
194	10.12	239	3.74	284	3.52	329	3.38
195	9.23	240	3.55	285	3.63	330	3.21
196	8.47	241	3.36	286	3.75	331	3.05
197	7.72	242	3.18	287	3.87	332	2.89
198	7.01	243	3.00	288	3.99	333	2.74
199	6.54	244	2.83	289	4.11	334	2.60
200	6.09	245	2.68	290	4.23	335	2.48
201	5.67	246	2.54	291	4.34	336	2.39
202	5.30	247	2.41	292	4.45	337	2.32
203	4.98	248	2.31	293	4.56	338	2.30
204	4.72	249	2.23	294	4.66	339	2.31
205	4.54	250	2.18	295	4.76	340	2.35
206	4.43	251	2.14	296	4.85	341	2.43
207	4.40	252	2.13	297	4.94	342	2.53
208	4.42	253	2.14	298	5.02	343	2.65
209	4.50	254	2.16	299	5.09	344	2.79
210	4.60	255	2.19	300	5.16	345	2.94
211	4.73	256	2.23	301	5.22	346	3.09
212	4.87	257	2.27	302	5.27	347	3.24
213	5.01	258	2.31	303	5.31	348	3.39
214	5.14	259	2.35	304	5.35	349	3.54
215	5.27	260	2.39	305	5.38	350	3.68
216	5.38	261	2.43	306	5.39	351	3.82
217	5.47	262	2.46	307	5.40	352	3.95
218	5.55	263	2.49	308	5.40	353	4.07
219	5.62	264	2.51	309	5.39	354	4.18
220	5.66	265	2.53	310	5.38	355	4.28
221	5.69	266	2.55	311	5.35	356	4.37
222	5.70	267	2.57	312	5.32	357	4.44
223	5.69	268	2.58	313	5.27	358	4.51
224	5.67	269	2.60	314	5.22	359	4.57



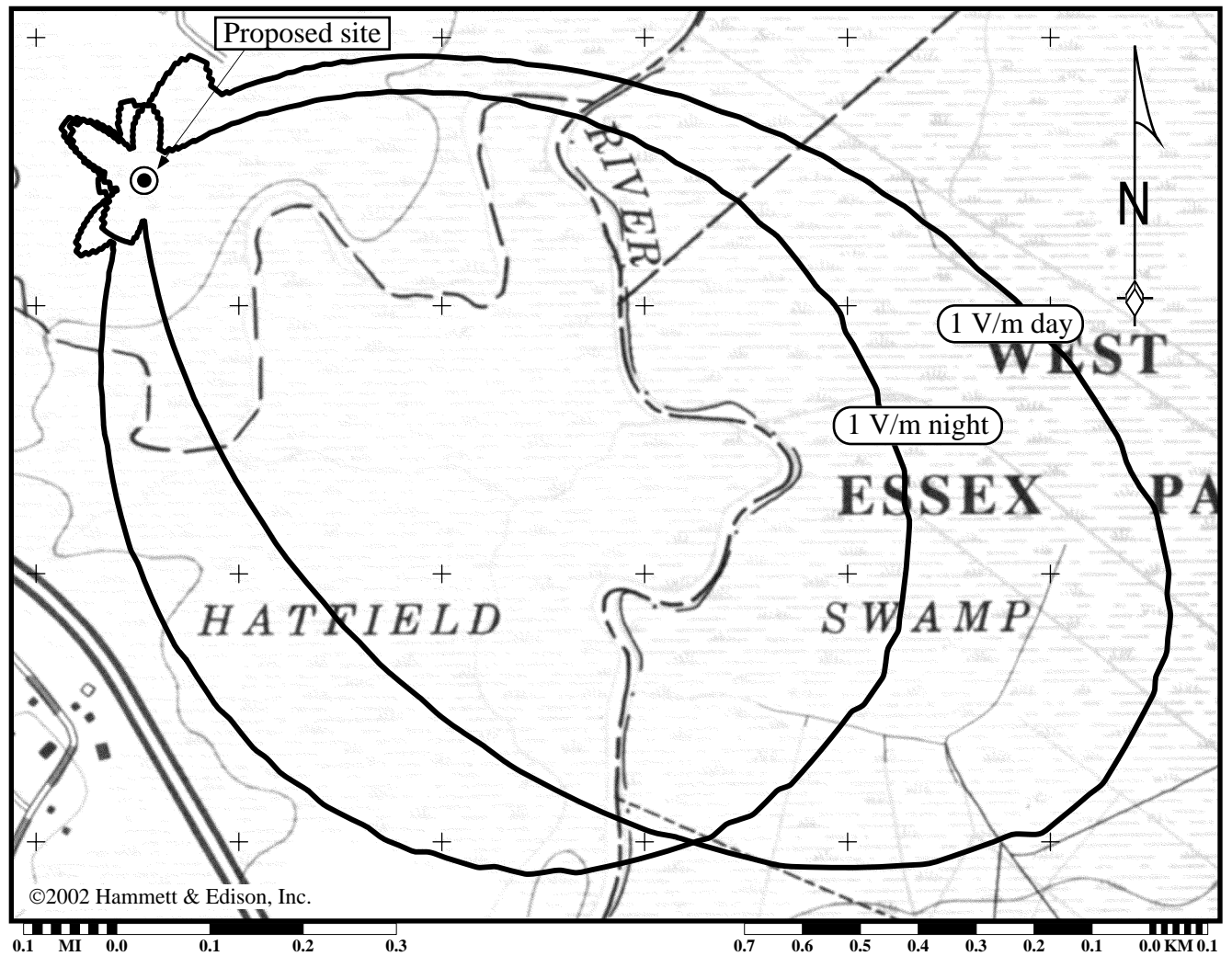
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Nighttime Coverage Contours  
Licensed (Newark) and Proposed (Jersey City)



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Proposed 1 V/m Blanketing Contours



According to 2000 U.S. Census, only 44 persons reside within the daytime blanketing contour and no persons reside within the nighttime blanketing contour.



HAMMETT & EDISON, INC.  
CONSULTING ENGINEERS  
SAN FRANCISCO

020410.1  
Exhibit 10F1



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Licensed 1 V/m Blanketing Contours

