

EXHIBIT 16  
(Page 1 of 9)

CRITICAL HOURS INTERFERENCE STUDY

Cornerstone Church, Inc.  
Rossford, OH

There are two domestic Class A stations operating 1520 kHz which require additional protection consideration during critical hours. These stations are WWKB - Buffalo, New York and KOMA - Oklahoma City, Oklahoma. Table 16.0 presents the projection of the 0.1 mV/m groundwave contour for WWKB. This contour was projected using conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map. This contour is depicted in Figure 16.0. Also shown in this figure are twenty-two points, labeled A through V, located along the perimeter of this contour and the U.S./Canadian Border. Table 16.1 presents a tabulation of the bearing, distance, critical hours radiation limits, and proposed WDMN radiation toward each of these points. As can be seen from this table, the proposed WDMN daytime facilities will provide the required protection to WWKB during critical hours, as required by Section 73.187 of the FCC Rules.

Table 16.2 presents the projection of the 0.1 mV/m groundwave contour for KOMA. This contour was projected using conductivity data extracted from FCC Figure M3. This contour is depicted in Figure 16.2. This figure also shows eighteen points, labeled A through R, located along the perimeter of this contour. Table 16.3 presents a tabulation of the bearing, distance, critical hours radiation limits, and proposed WDMN radiation toward each of these points. As can be seen from this table, the proposed WDMN daytime facilities will provide the required protection to KOMA during critical hours, as required by Section 73.187 of the FCC Rules.

TABLE 16.0

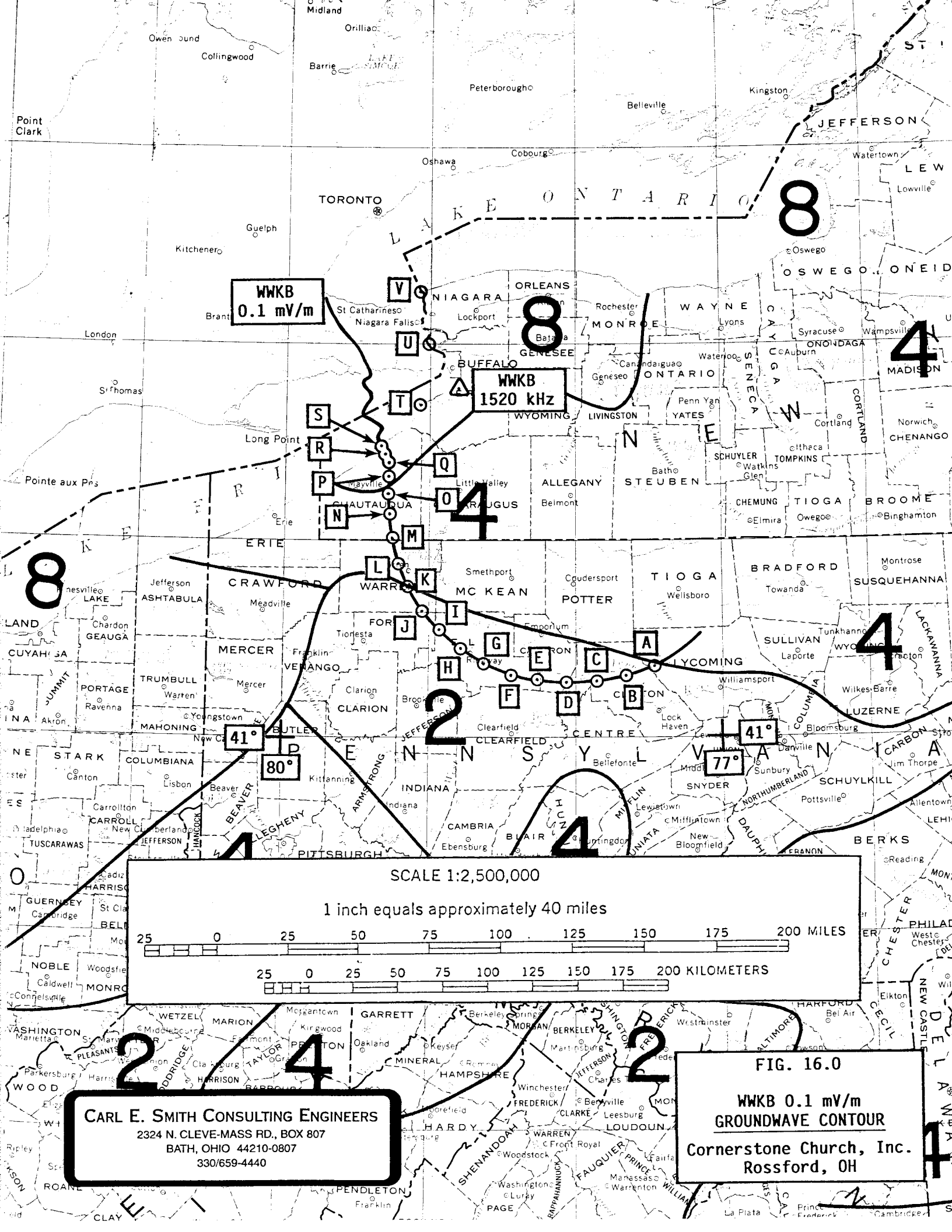
WWKB 0.1 mV/m  
GROUNDWAVE CONTOUR  
 Cornerstone Church, Inc.  
 Rossford, OH

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance(km))</u>	<u>0.1 mV/m Contour (km)</u>
135	4418.2	8/14.4,4	193.38
140	4356.9	8/14.5,4	192.55
145	4232.0	8/14.8,4/187.3,2	190.45
150	4044.7	8/14.9,4/170.4,2	186.05
155	3800.5	8/15.2,4/157.3,2	181.12
160	3505.4	8/15.7,4/147.6,2	175.61
165	3164.1	8/16.3,4/139.7,2	169.30
170	2789.5	8/17,4/133.6,2	162.21
175	2397.1	8/18,4/128,2	154.21
180	2003.1	8/19.3,4/123.5,2	145.46
185	1522.9	8/20.9,4/120,2	135.99
190	1270.6	8/23,4/117.3,2	126.03
195	956.9	8/25.8,4/115.7,2	115.74
200	689.4	8/29.7,4/114.9,2	103.35
205	472.3	8/36.1,4/115.9,2	91.26
210	306.6	8/47.2,4/122.2,2	80.46
215	191.6	8/65.6,4	72.58
220	125.0	8/76.2,4	62.41
225	99.3	8/81.7,4	56.60
230	95.2	8/86.5,4	55.59
235	96.4	8/97.3,4	55.90
240	96.3	8	55.87
245	71.4	8	49.22

TABLE 16.0 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>0.1 mV/m Contour (km)</u>
250	81.2	8/59.6,10	51.97
255	97.3	8/42.3,10	57.59
260	91.2	8/35.1,10	56.76
265	65.7	8/29.7,10	49.67
270	69.6	8/24.4,10	51.73
275	93.6	8/20.8,10/82.5,8/93.5,5	59.42
280	82.0	8/18.3,10/52,8/94.3,5	56.08
285	64.4	8/16.5,10/42.2,8/95.8,5	50.28
290	89.6	8/15,10/36.2,8/96,5	56.89
295	135.0	8/13.9,10/21.7,8/96.4,5	65.51
300	210.6	8/13.1,10/21.2,8/96.7,5	79.38
305	335.6	8/12.4,10/20.2,8/97.6,5/100.8, 15/102.3,5	95.85

All conductivity data extracted from FCC Figure M3 and the Canadian Conductivity Map.

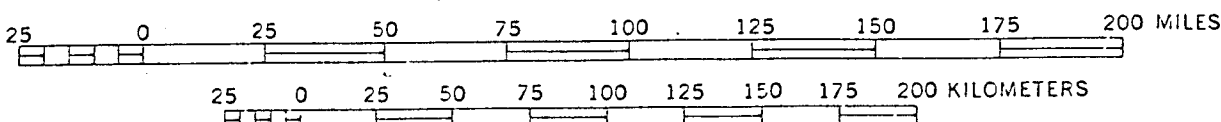


WWKB  
0.1 mV/m

WWKB  
1520 kHz

SCALE 1:2,500,000

1 inch equals approximately 40 miles



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**FIG. 16.0**  
**WWKB 0.1 mV/m**  
**GROUNDWAVE CONTOUR**  
**Cornerstone Church, Inc.**  
**Rossford, OH**

WDMN PROPOSED 1520KHZ  
CRITICAL HOURS RADIATION  
TOWARD WWKB  
(Domestic Standards)

BEARING (Degrees)	POINT ON 0.1 mV/m CONTOUR	DISTANCE TO 0.1 mV/m CONTOUR (km)	CRITICAL VERTICAL WINDOW (Degrees)	MAXIMUM WINDOW RADIATION (mV/m @ 1 km)	RADIATION LIMIT (mV/m @ 1 km)
89.9	A	501.8	0.0 - 24.3	12.9	200.4
90.6	B	485.9	0.0 - 25.1	13.2	197.2
91.1	C	468.3	0.0 - 26.0	13.5	194.0
91.4	D	453.3	0.0 - 26.8	13.7	191.2
90.3	E	437.0	0.0 - 27.7	13.0	188.1
90.0	F	421.1	0.0 - 28.6	12.9	185.2
90.3	G	406.0	0.0 - 29.6	13.0	182.4
89.2	H	392.2	0.0 - 30.5	12.8	179.9
87.8	I	380.1	0.0 - 31.3	13.3	177.7
86.0	J	370.0	0.0 - 32.0	15.0	176.0
84.1	K	362.4	0.0 - 32.6	17.6	174.7
81.7	L	358.0	0.0 - 32.9	20.6	174.1
79.3	M	356.4	0.0 - 33.0	22.4	174.0
77.2	N	356.7	0.0 - 33.0	22.4	174.4
75.6	O	357.2	0.0 - 33.0	21.2	174.8
73.8	P	361.1	0.0 - 32.7	18.6	175.8
72.6	Q	363.0	0.0 - 32.5	16.5	176.4
71.8	R	361.6	0.0 - 32.6	15.2	176.2
71.1	S	359.5	0.0 - 32.8	14.3	176.0
68.9	T	392.7	0.0 - 30.4	16.3	182.7
64.5	U	407.5	0.0 - 29.5	43.6	186.8
60.6	V	417.4	0.0 - 28.8	82.9	189.7

TABLE 16.1

CRITICAL HOURS INTERFERENCE  
STUDY TOWARD WWKB - BUFFALO, NY

Cornerstone Church, Inc.  
Rossford, OH

TABLE 16.2

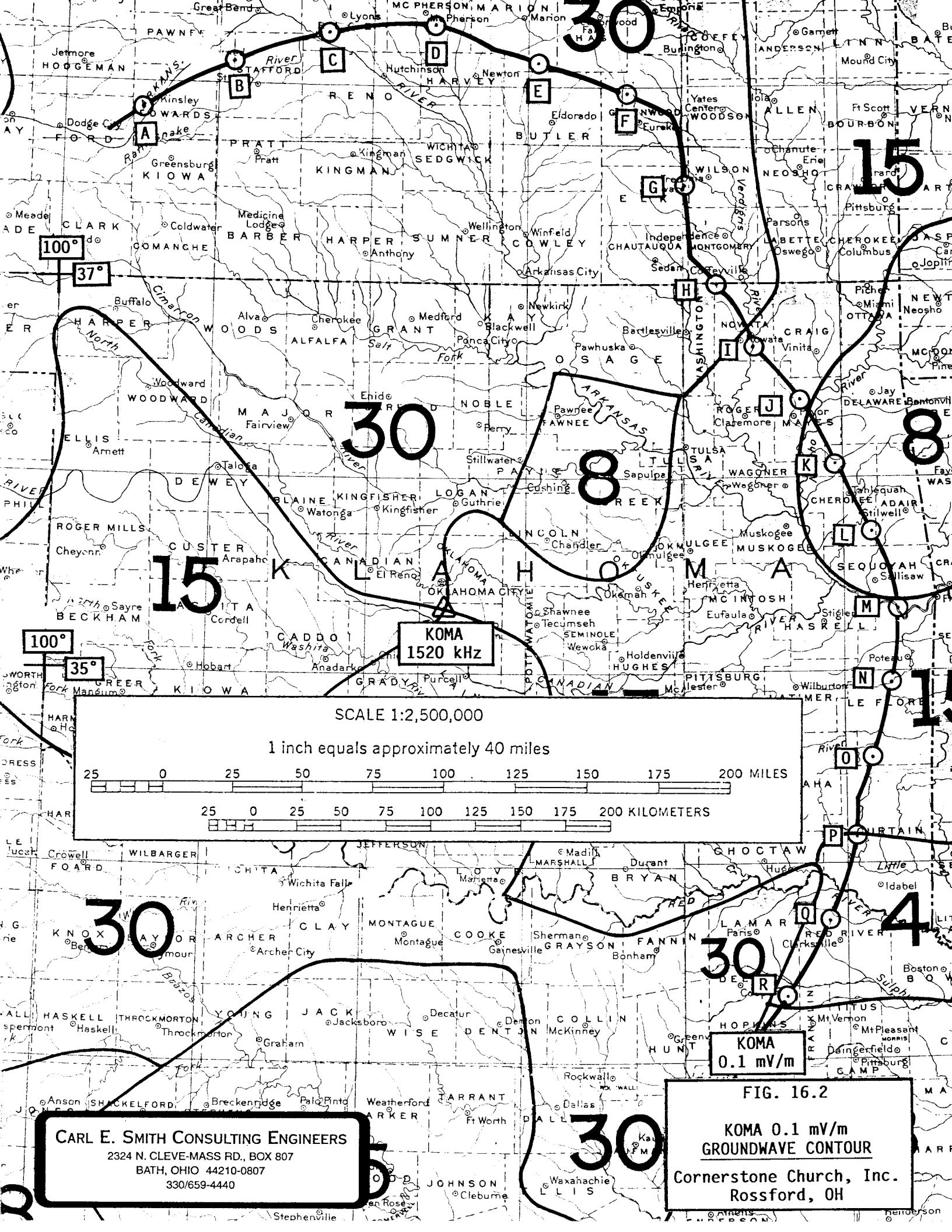
KOMA 0.1 mV/m  
GROUNDWAVE CONTOUR  
 Cornerstone Church, Inc.  
 Rossford, OH

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance(km))</u>	<u>0.1 mV/m Contour (km)</u>
325	2708.4	30	331.53
330	2708.4	30	331.53
335	2708.4	30	331.53
340	2708.4	30	331.53
345	2708.4	30	331.53
350	2708.4	30	331.53
355	2708.4	30	331.53
0	2708.4	30/31,15/36.4,30	328.53
5	2708.4	30/18.1,15/46.5,30	315.96
10	2708.4	30/12.8,15/49.6,30	311.83
15	2708.4	30/10,15/52.7,30	308.96
20	2708.4	30/8.2,15/54.8,30	307.23
25	2708.4	30/7,15/56.2,30	306.09
30	2708.4	30/6.2,15/56.1,30/92.9,8/149.3,15	271.00
35	2708.4	30/4.8,15/56.2,8/155.6,30	242.13
40	2708.4	30/3.8,15/55.8,8/162.5,30	239.12
45	2708.4	30/3.1,15/55.8,8/170.9,30	236.08
50	2708.4	30/2.7,15/56.2,8/169.6,15	228.53
55	2708.4	30/2.4,15/57,8/156.5,15	231.00
60	2708.4	30/2.2,15/58.3,8/146.2,15	233.30
65	2708.4	30/2,15/60.2,8/138.2,15/224.1,8	234.17
70	2708.4	30/1.8,15/64.1,8/129.8,15/213.8,8	235.79
75	2708.4	30/1.7,15/69.3,8/119.4,15/209.9,8	238.79

TABLE 16.2 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>0.1 mV/m Contour (km)</u>
80	2708.4	30/1.6,15/82.2,8/105.1,15/211,8	245.43
85	2708.4	30/1.6,15/223.4,8	252.62
90	2708.4	30/1.5,15	256.33
95	2708.4	30/1.5,15	256.33
100	2708.4	30/1.5,15	256.32
105	2708.4	30/1.5,15	256.32
110	2708.4	30/1.5,15	256.32
115	2708.4	30/1.5,15/38.7,30/41.3,15	237.27
120	2708.4	30/1.5,15/19.3,30/61.2,15/261.3,4	269.08
125	2708.4	30/1.5,15/13,30/70.3,15/257.9, 30/263.1,4	274.07
130	2708.4	30/1.6,15/9.8,30/79.2,15/244.7, 30/274.3,4	281.83
135	2708.4	30/1.7,15/7.9,30/88.7,15/236.3, 30/282.5,4	288.01
140	2708.4	30/1.8,15/6.7,30/98.7,15/228.8, 30/293.5,4	295.03
145	2708.4	30/1.9,15/5.8,30/112.1,15/223,30	301.62

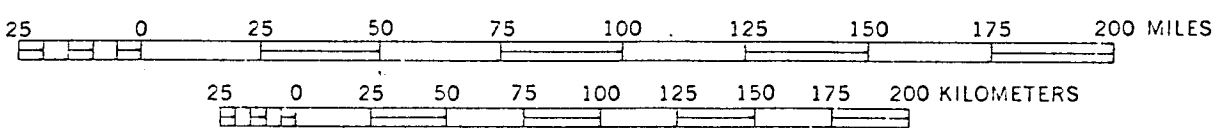
All conductivity data extracted from FCC Figure M3.



KOMA  
1520 kHz

SCALE 1:2,500,000

1 inch equals approximately 40 miles



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FIG. 16.2  
KOMA 0.1 mV/m  
GROUNDWAVE CONTOUR  
Cornerstone Church, Inc.  
Rossford, OH



WDMN PROPOSED 1520KHZ  
CRITICAL HOURS RADIATION  
TOWARD KOMA  
(Domestic Standards)

BEARING (Degrees)	POINT ON 0.1 mV/m CONTOUR	DISTANCE TO 0.1 mV/m CONTOUR (km)	CRITICAL VERTICAL WINDOW (Degrees)	MAXIMUM WINDOW RADIATION (mV/m @ 1 km)	RADIATION LIMIT (mV/m @ 1 km)
258.7	A	1410.8	0.0 - 6.4	17.0	480.2
258.9	B	1353.2	0.0 - 7.0	17.2	449.7
258.7	C	1295.7	0.0 - 7.5	17.0	419.9
257.8	D	1241.2	0.0 - 8.1	16.0	396.9
255.9	E	1199.1	0.0 - 8.6	14.1	381.3
254.1	F	1160.0	0.0 - 9.0	13.0	366.9
251.0	G	1156.6	0.0 - 9.1	14.0	369.4
248.3	H	1165.8	0.0 - 9.0	17.2	377.7
246.3	I	1166.5	0.0 - 8.9	19.8	381.6
244.3	J	1160.7	0.0 - 9.0	22.0	382.8
242.3	K	1165.6	0.0 - 9.0	23.4	388.5
240.2	L	1172.7	0.0 - 8.9	23.6	395.4
238.1	M	1188.5	0.0 - 8.7	22.5	407.9
236.6	N	1220.7	0.0 - 8.3	20.9	426.3
235.5	O	1258.4	0.0 - 7.9	19.3	446.3
234.2	P	1296.4	0.0 - 7.5	17.4	469.4
233.3	Q	1341.3	0.0 - 7.1	16.0	504.7
232.8	R	1391.7	0.0 - 6.6	15.3	543.3

TABLE 16.3

CRITICAL HOURS INTERFERENCE STUDY  
TOWARD KOMA - OKLAHOMA CITY, OK

Cornerstone Church, Inc.  
Rossford, OH