

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
GUADALUPE MEDIA, LTD.
RADIO STATION KWED
SEGUIN, TEXAS

October 23, 2009

1580 KHZ 1 KW U DA-N

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
GUADALUPE MEDIA, LTD.
RADIO STATION KWED
SEGUIN, TEXAS

1580 KHZ 1 KW U DA-N

Table of Contents

	Technical Narrative
Figure 1	Aerial (Satellite) Photograph
Figure 2	Transmitter Location
Figure 3	Antenna Site Plat
Figure 4	Sketch of Antenna Elements
Figure 5	Specifications for Nighttime Directional Antenna System
Figure 6	Proposed Daytime Field Strength Contours
Figure 7	Existing Daytime Field Strength Contours
Figure 8	Daytime Allocation Study

Figure 9	Tabulation of Data Employed in Calculation of Groundwave Contours
Figure 10	Proposed Nighttime Horizontal Plane Standard Radiation Pattern
Figure 11	Tabulation of Nighttime Standard Radiation Pattern
Figure 12	Proposed Nighttime Field Strength Contours
Figure 13	Existing Nighttime Field Strength Contours
Figure 14	Nighttime Allocation Study

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
GUADALUPE MEDIA, LTD.
RADIO STATION KWED
SEGUIN, TEXAS

1580 KHZ 1 KW U DA-N

Technical Narrative

The technical exhibit of which this narrative is part has been prepared on behalf of Guadalupe Media Group, LTD., licensee of AM broadcast station KWED at Seguin, Texas. KWED is licensed as a Class B station for operation on 1580 kilohertz with daytime power of 1 kilowatt and nighttime power of 253 watts, operating with the same non-directional antenna pattern during daytime and nighttime hours. By means of this present application, the licensee proposes to change transmitter site locations with a new non-directional antenna for daytime operation and a new directional antenna for nighttime operation. The daytime power will remain at 1 kilowatt while the nighttime power will be increased to 1 kilowatt. The daytime and nighttime services are proposed from the same site location.

The proposal is classified as a minor change according to 47 CFR 73.3571(a)(2). As a Class B station operating on one of the channels listed in 73.25(c), the proposal satisfies 47 CFR 73.21(a)(2) which permits operation with a nominal power of not less than 0.25 kilowatt nor more than 50 kilowatts at any time.

The Federal Aviation Administration has been notified of the proposal as new tower construction is proposed.

Proposed Transmitter Location

The location of the proposed KWED facility will be at NAD27 coordinates:

29-35-06 North

98-01-13 West

An aerial (satellite) photograph is included as Figure 1 with the proposed transmitter location shown as Figure 2. The antenna site plat is shown on Figure 3.

Antenna Systems

A total of two towers will be employed for the nighttime directional antenna pattern. The daytime non-directional operation will use tower 2 of the nighttime array. As indicated on Figure 4, the radiating elements for both towers are 57.9 meters (190 feet) in height and have an overall height of 58.8 meters (193 feet) above ground level. A summary of specifications for the nighttime directional antenna array is included herein as Figure 5.

The daytime non-directional radiation efficiency has been calculated using Figure 8 of 47 CFR 73.190. As a result, the radiation efficiency for a 190 foot tower, $G = 109.9$ degrees, is 318.7 mV/m at one kilometer for one kilowatt. The nighttime directional antenna pattern has been calculated in accordance with 47 CFR 73.150 assuming a one-ohm lumped loss resistance at the current loop of each tower in the array. The nighttime standard radiation pattern is shown herein as Figure 10 and is tabulated in Figure 11.

Section 73.24(g)

The provisions of 47 CFR 73.24(g) require that the population within the 1,000 mV/m contour not exceed 300 persons. At the proposed location, during daytime or nighttime hours, the proposed 1,000 mV/m contour encompasses 0 persons. Therefore, the provisions of 47 CFR 73.24(g) are met.

Daytime Coverage

The proposed KWED daytime field strength contours are depicted on Figure 6 and the existing daytime field strength contours are shown on Figure 7. As indicated on Figure 6, the proposed daytime 5 mV/m contour will completely encompass the city limits of Seguin. The Seguin city limits depicted were obtained from a map contained in the TIGER 2000 U.S. census files.

Daytime Allocation Study

A daytime allocation study was made utilizing FCC Figure M-3. Daytime field strength contours were calculated in accordance with 47 CFR 73.183. Figure 9 is a tabulation of the data employed in the calculation of daytime contours. Based on this analysis, the proposed KWED facility will comply with all relevant allocation criteria.

Nighttime Coverage

The proposed KWED nighttime field strength contours are depicted on Figure 12 and the existing daytime field strength contours are shown on Figure 13. As can be seen from Figure 12, the proposed nighttime interference-free contour will provide 88.7 percent coverage of the area within the city limits of Seguin.

Nighttime Allocation Study

The proposed KWED facility will afford nighttime protection to all stations and international allotments operating on 1570 kHz, 1580 kHz, and 1590 kHz. Figure 14 contains pertinent calculation data to support a conclusion that this proposal comports with all nighttime interference protection requirements.

Critical Hours Allocation Study

During critical hours, KWED adequately protects the 0.1 mV/m groundwave contour of co-channel Class A station CKDO, Oshawa, Canada. From the KWED site, the closest point on the CKDO 0.1 mV/m contour is 2201 kilometers on a true bearing of 39.8 degrees. The permissible field toward this CKDO point, as determined by Appendix 8 of the Canadian Agreement¹, is 1691 mV/m at one kilometer. The proposed KWED non-directional antenna pattern in the vicinity of 39.8 degrees true has radiation values of 318.7 mV/m; therefore, CKDO is protected during critical hours by the KWED proposal.

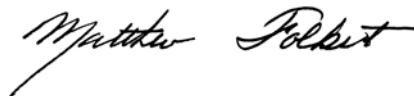
Environmental Considerations

The proposed KWED operation was evaluated in terms of both the electric and magnetic field components which will be present at the base of each tower. Using Figures 1 through 4 of Supplement A to OET Bulletin 65, the worst case interpolated distance at which the electric and magnetic fields would fall below ANSI guidelines is 2 meters. Accordingly, the areas surrounding the base of each tower will be appropriately restricted with a fence having a minimum radius of 2 meters (7 feet) unless data obtained after construction has been completed indicates otherwise. The

¹ AGREEMENT BETWEEN THE GOVERNMENT OF CANADA AND THE GOVERNMENT OF THE UNITED STATES OF AMERICA RELATING TO THE AM BROADCASTING SERVICE IN THE MEDIUM FREQUENCY BAND – OTTAWA, 1984

fence will assure that persons on the property outside the fenced area will not be exposed to radiofrequency field levels in excess of those recommended by the ANSI. In addition, warning signs will be posted.

This statement addresses only human exposure to radiofrequency radiation and not to other non-radiofrequency radiation matters listed in the National Environmental Policy Act of 1969.

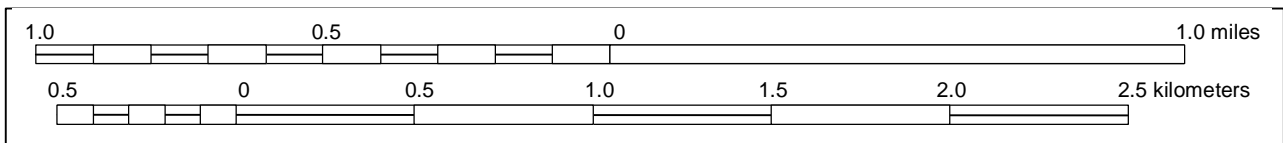
A handwritten signature in black ink, reading "Matthew Folkert". The signature is written in a cursive style with a large, sweeping initial 'M'.

Matthew Folkert
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237

(941) 329-6000

October 23, 2009

Figure 1

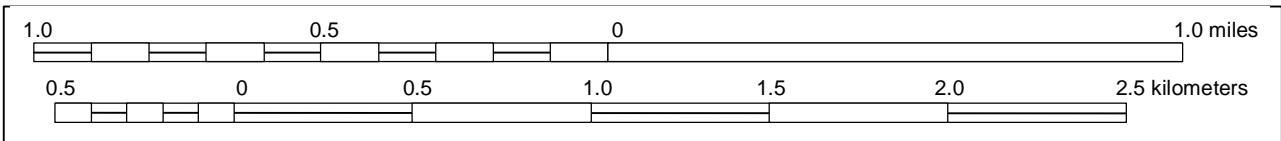
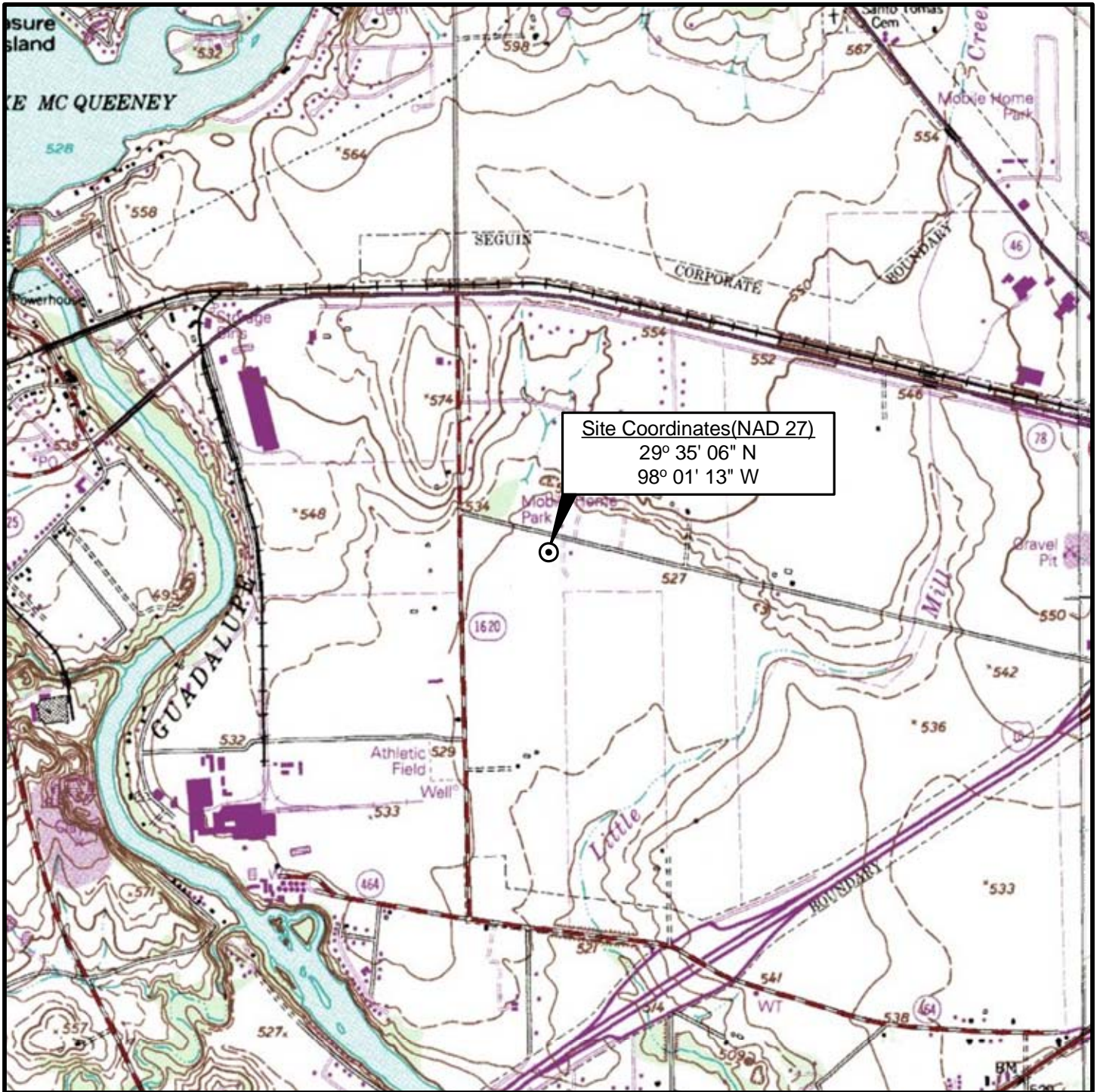


AERIAL (SATELLITE) PHOTOGRAPH

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2

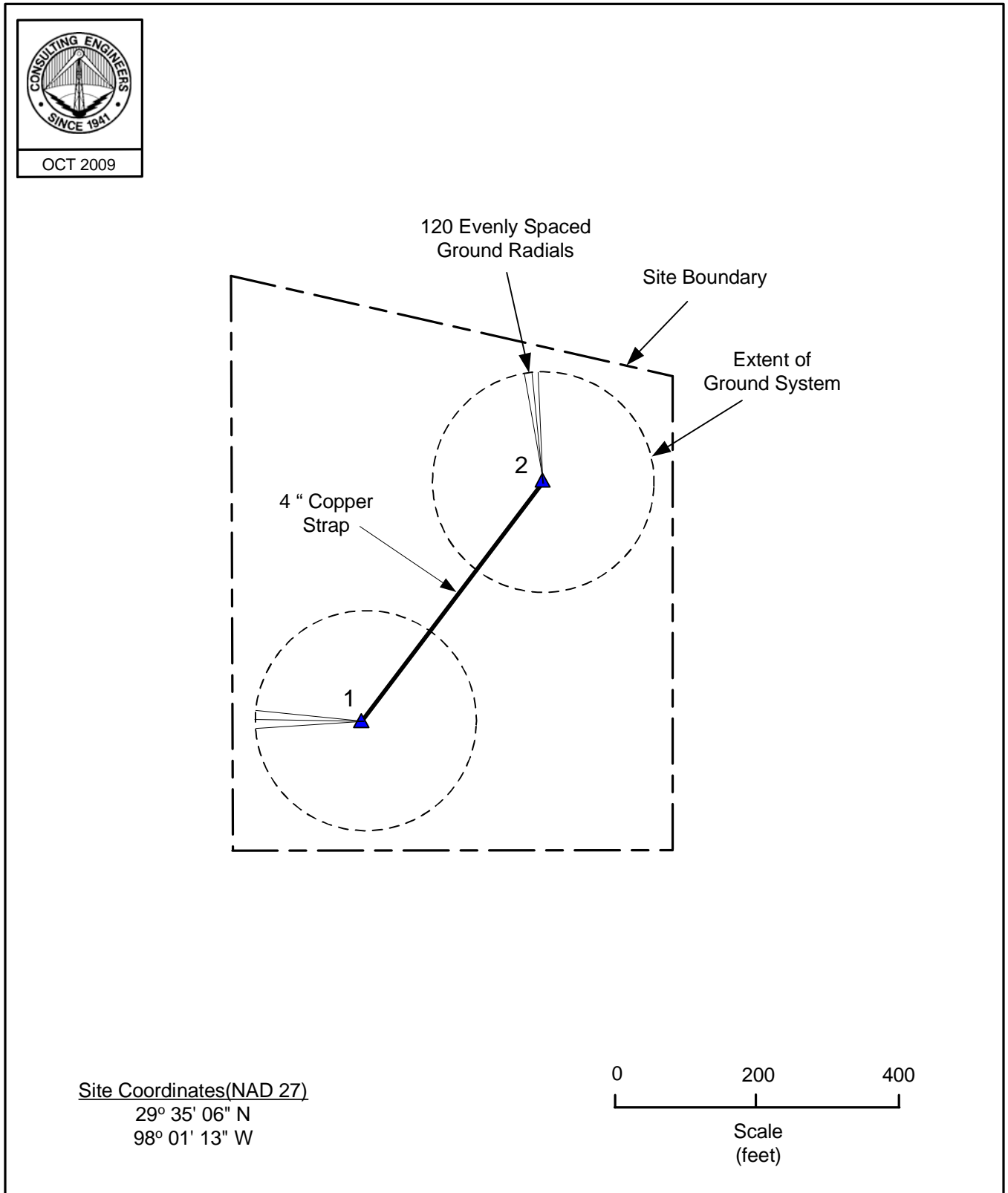


TRANSMITTER LOCATION

RADIO STATION KWED
SEGWIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 3

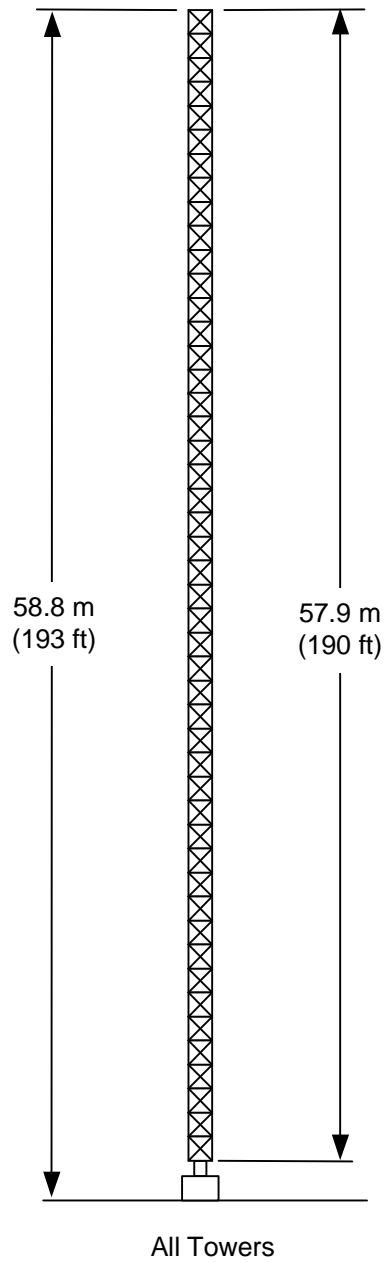
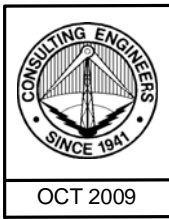


ANTENNA SITE PLAT

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 4



Site Coordinates(NAD 27)

29° 35' 06" N
98° 01' 13" W

Not To Scale

SKETCH OF ANTENNA ELEMENTS

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION KWED
SEGUIN, TEXAS

1580 KHZ 1 KW U DA-N

Specifications for
Nighttime Directional Antenna Systems

Frequency:	1580 kHz
Hours of Operation:	Unlimited
Power:	1 kW
Number of Towers:	1(Day) 2(Night)
Type of Tower:	Guyed, Uniform Cross-section, Base-insulated
All Towers - height above base insulator	57.9 m (190 ft)
All Towers - overall height	58.8 m (193 ft)

Tower Arrangement:

<u>Tower No.</u>	<u>Spacing (deg.)/(m)</u>	<u>Orientation (deg. True)</u>
1	0.0	0.0
2	243.0/128.1	37.0

Nighttime Element Field Parameters:

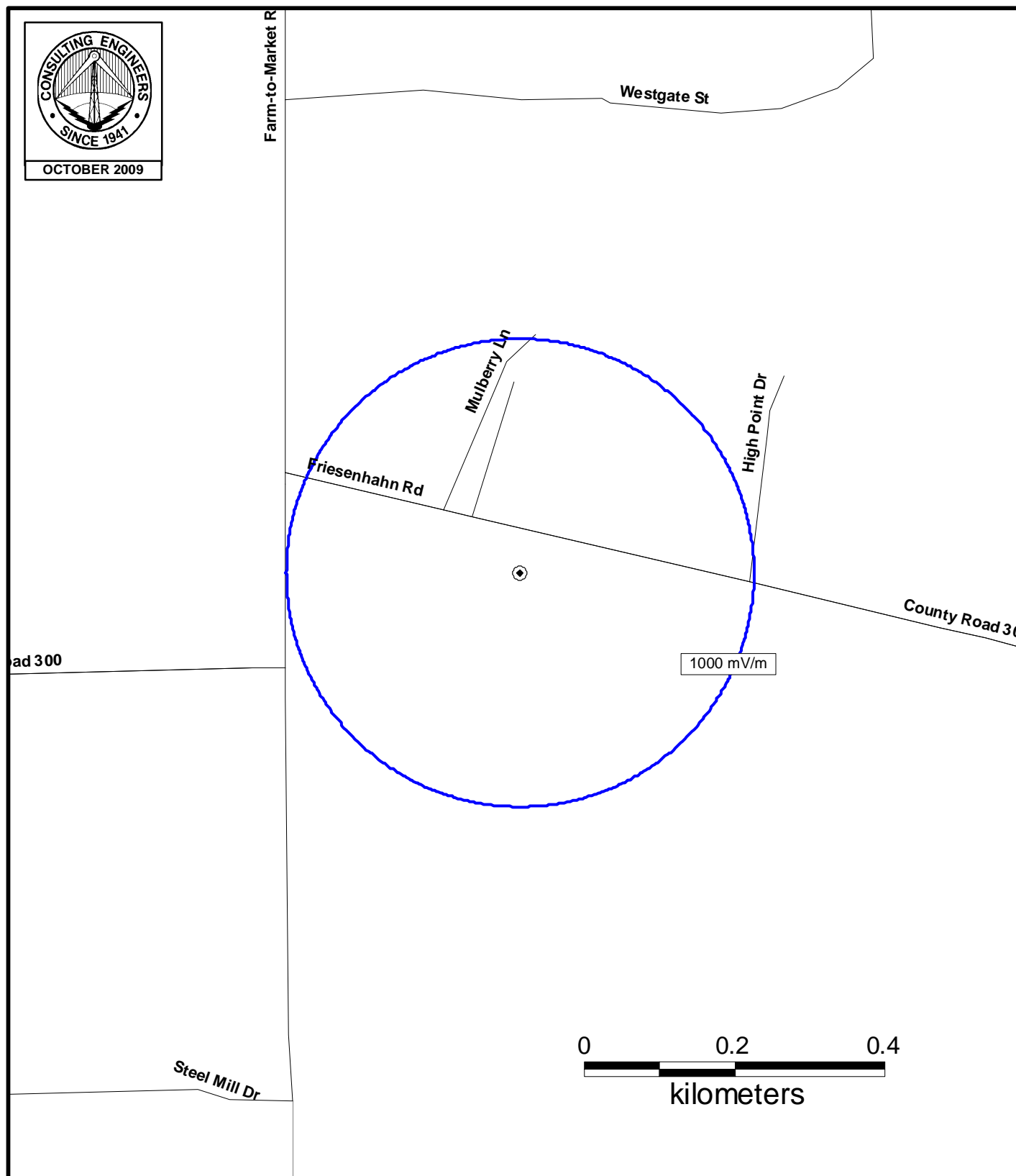
<u>Tower No.</u>	<u>Field Ratio</u>	<u>Phase (degrees)</u>
1	1.000	0.0
2	0.571	-3.0

Ground System:

Installed about the base of each tower are 120 evenly spaced, buried copper wire radials (#8 AWG), extending 47.4 meters (157 ft) and bonded to a transverse copper strap between towers. Also, installed about the base of each tower is a 48" x 48" copper ground screen. In addition, copper strap runs from the transmitter and down the line of towers and is bonded to ground at the base of each tower.

**Geographic Coordinates of
Center of Antenna Array:**

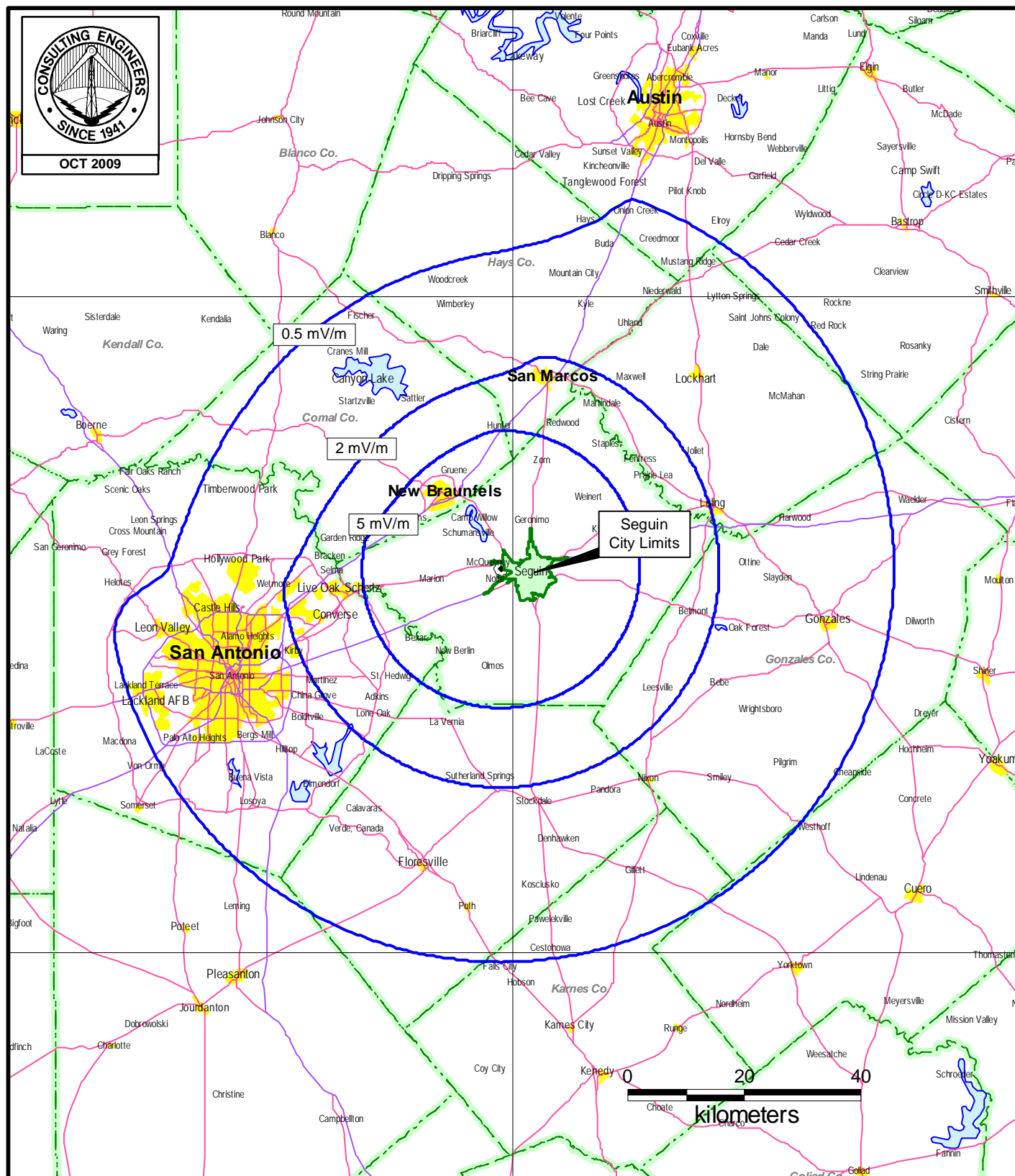
29° 35' 06" North Latitude
98° 01' 13" West Longitude



PROPOSED DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

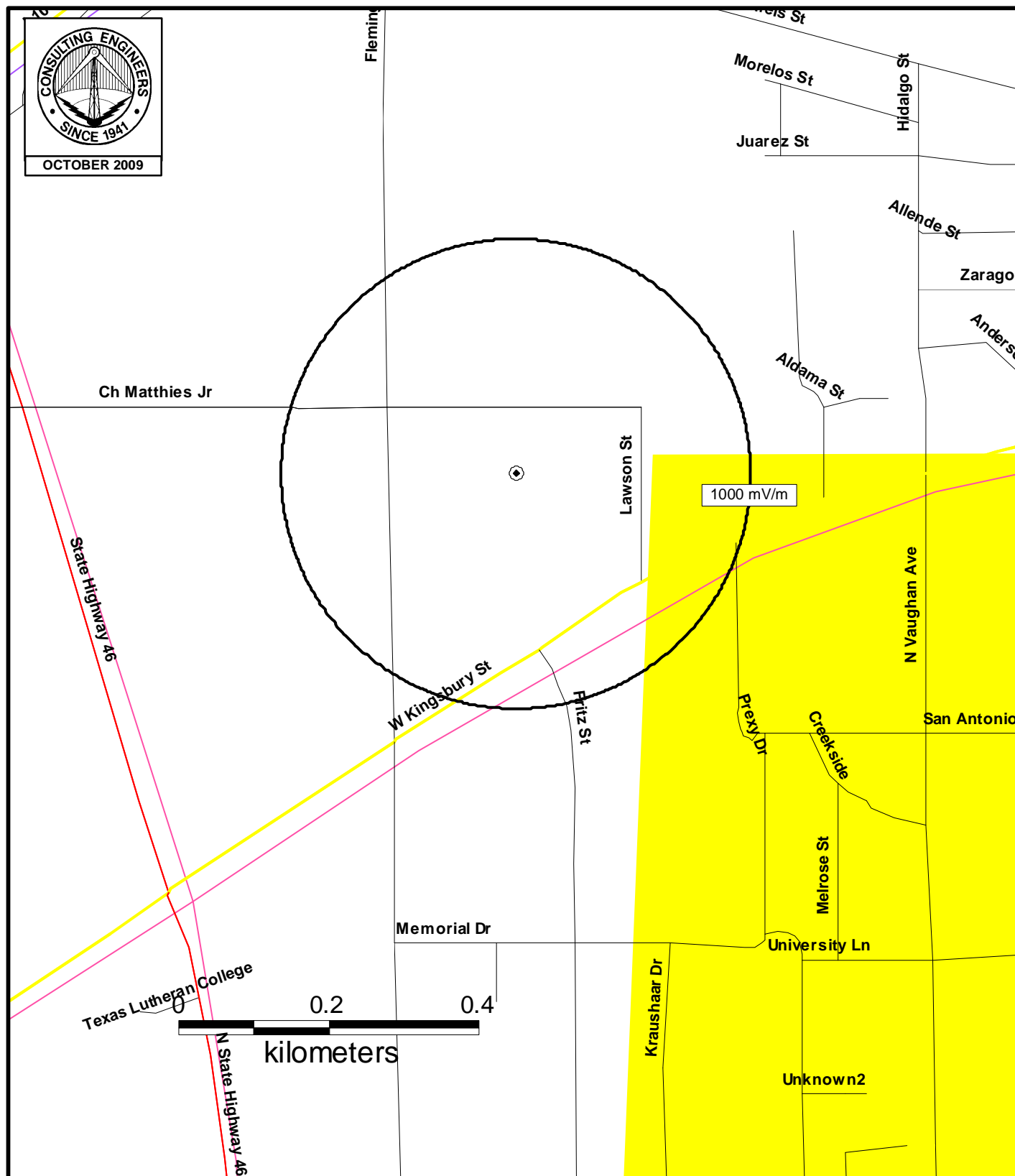
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



PROPOSED DAYTIME FIELD STRENGTH CONTOURS

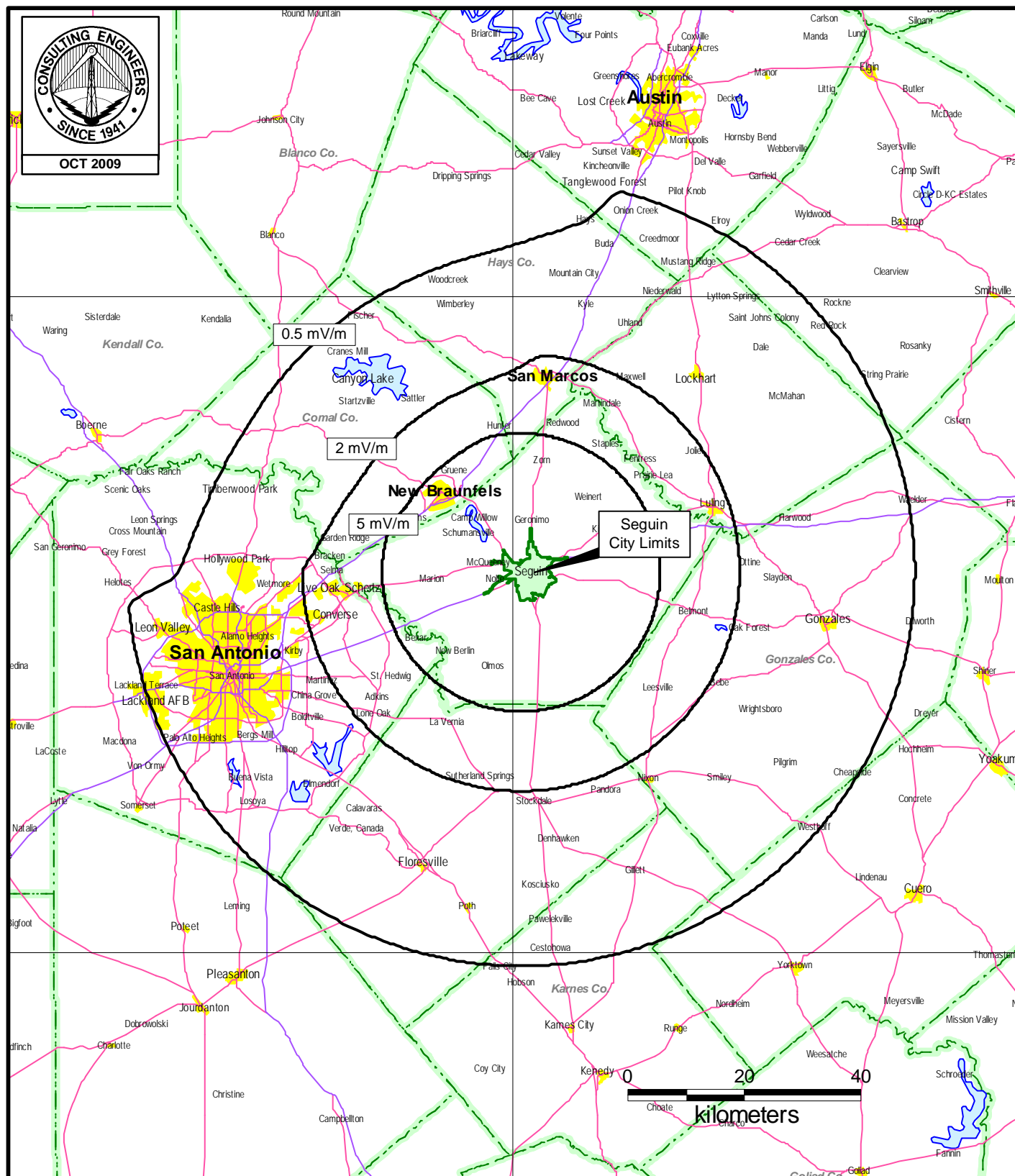
RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

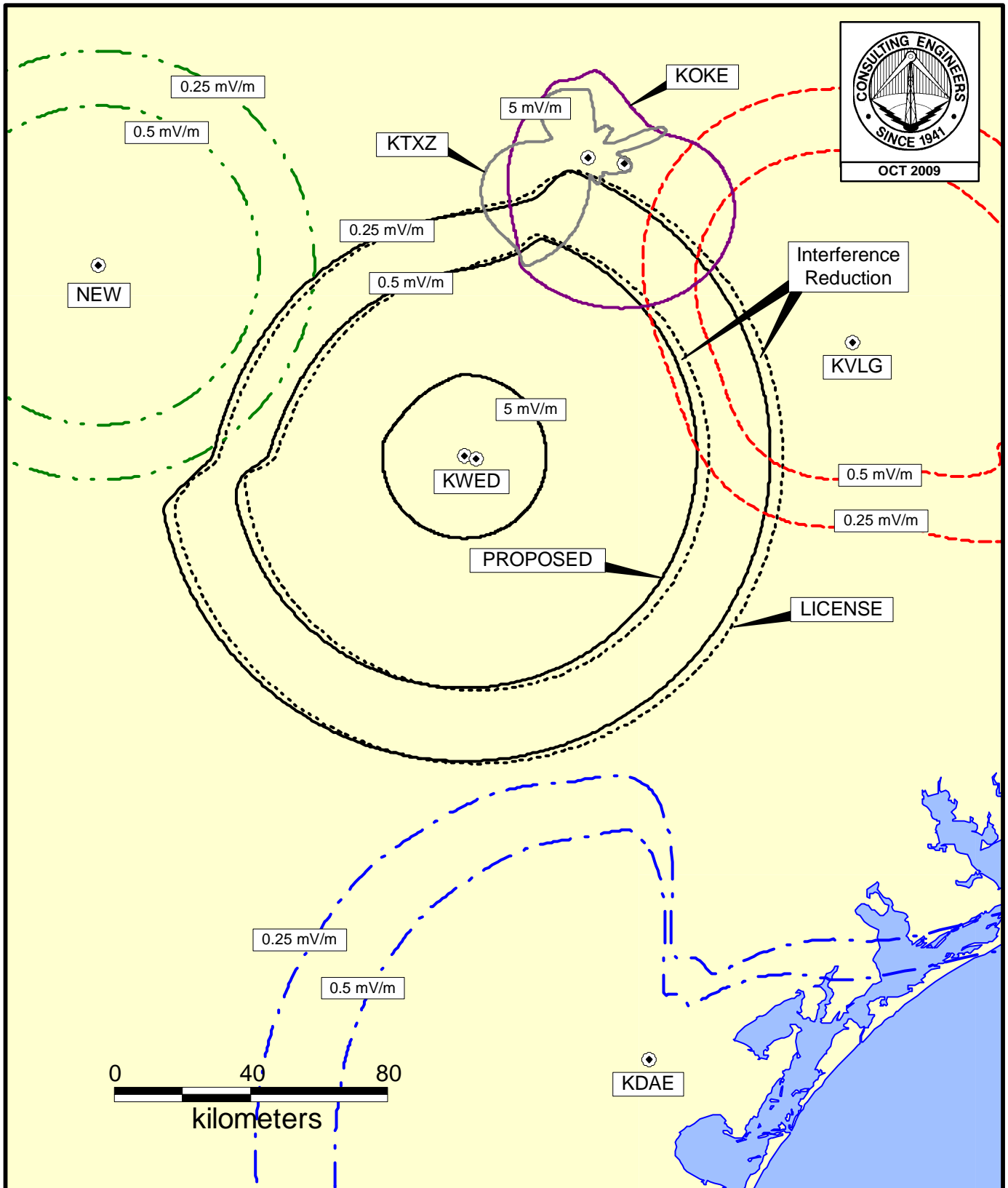


EXISTING DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 8



DAYTIME ALLOCATION STUDY

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION KWED
SEGUIN, TEXAS

1580 KHZ 1 KW U DA-N

Tabulation of Data Employed in
Calculation of Groundwave Contours

1560 kHz Station

93.0 km KTXZ L 30-21-38 N 097-39-11 W 2.5 kW DA2 - 465.0 mV/m@1km
57.8 mi Azi: 22.5 Class: B Sched: U File #: BL19820602AH
Location: WEST LAKE HILLS, TX, US

1570 kHz Station

116.5 km KVLG L 29-52-58 N 096-51-57 W 0.25 kW DA2 - 152.1 mV/m@1km
72.4 mi Azi: 73.8 Class: D Sched: U File #: BL
Location: LA GRANGE, TX, US

1590 kHz Stations

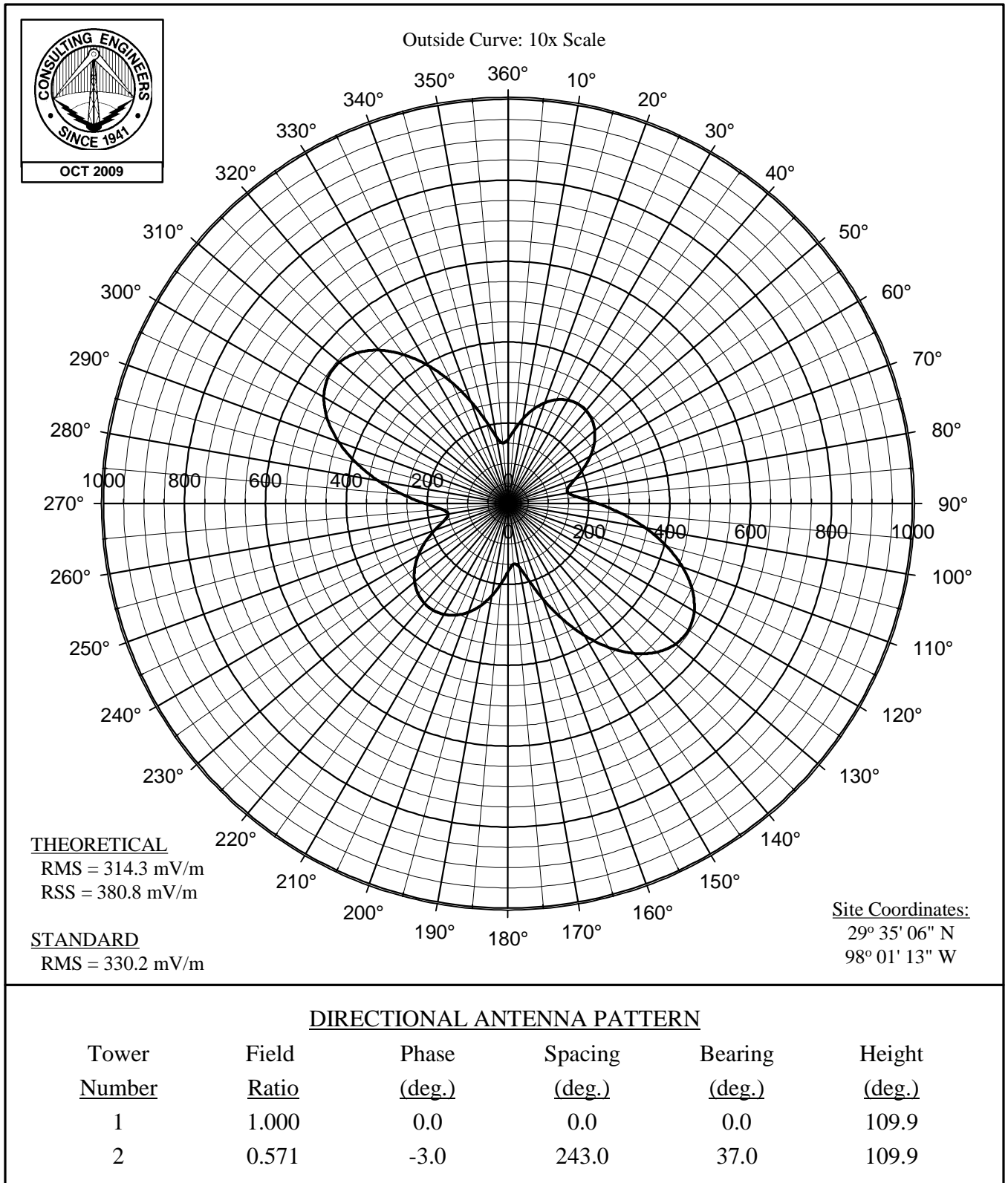
118.7 km NEW A 30-04-51 N 099-06-32 W 1.0 kW DAN - 305.8 mV/m@1km
73.8 mi Azi: 297.3 Class: B Sched: U File #: BNP20040129AAO
Location: KERRVILLE, TX, US

181.4 km KDAE L 28-01-16 N 097-28-14 W 1.0 kW DA2 - 320.3 mV/m@1km
112.7 mi Azi: 162.9 Class: B Sched: U File #: BL13803
Location: SINTON, TX, US

1600 kHz Station

95.9 km KOKE L 30-20-44 N 097-32-46 W 5.0 kW DA2 - 709.3 mV/m@1km
59.6 mi Azi: 28.6 Class: B Sched: U File #: BL19990514DC
Location: PFLUGERVILLE, TX, US

Figure 10



PROPOSED NIGHTTIME HORIZONTAL PLANE STANDARD RADIATION PATTERN

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

TECHNICAL EXHIBIT
 APPLICATION FOR CONSTRUCTION PERMIT
 RADIO STATION KWED
 SEGUIN, TEXAS

1580 KHZ 1 KW U DA-N

NIGHTTIME RADIATION PATTERN
(Radiation Values at One Kilometer)

Tower <u>Number</u>	Field <u>Ratio</u>	Phase <u>(deg.)</u>	Spacing <u>(deg.)</u>	Bearing <u>(deg.)</u>	Height <u>(deg.)</u>
1	1.000	0.0	0.0	0.0	109.9
2	0.571	-3.0	243.0	37.0	109.9

Input Power <u>(kW)</u>	Loop Loss <u>(ohms)</u>	Theo. RMS <u>(mV/m)</u>	Theo. RSS <u>(mV/m)</u>	Q Factor <u>(mV/m)</u>	Standard RMS <u>(mV/m)</u>
1	1.0	314.3	380.8	10.0	330.2

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	0 (mV/m)	5 (mV/m)	10 (mV/m)	15 (mV/m)	20 (mV/m)	25 (mV/m)	30 (mV/m)
0	158	156	150	142	134	130	129
5	183	179	170	157	141	127	119
10	213	209	197	180	158	137	119
15	241	237	224	204	178	151	125
20	265	260	246	225	196	165	135
25	284	279	264	241	211	177	143
30	296	291	276	252	221	186	150
35	301	296	281	257	226	190	153
40	301	296	280	256	225	189	153
45	294	289	274	250	219	184	149
50	280	275	261	238	208	175	142
55	261	256	242	221	193	162	133
60	236	231	219	199	174	148	124
65	207	203	192	175	154	134	118
70	177	174	165	153	139	127	120
75	154	152	148	141	135	132	133
80	151	151	150	149	149	152	157
85	176	176	177	179	182	186	190
90	223	223	224	225	227	228	228
95	282	282	281	280	278	274	269
100	345	344	341	337	330	321	309
105	406	404	399	391	379	365	347
110	460	457	450	439	423	403	379
115	503	500	491	477	457	433	405
120	532	529	518	502	480	453	422
125	545	541	531	513	490	462	430
130	541	537	527	510	487	459	427
135	520	516	507	491	470	444	414
140	483	481	472	459	441	418	392
145	434	432	426	415	401	383	362
150	375	374	370	363	354	341	326
155	312	311	310	306	302	295	286
160	249	249	249	249	249	247	244
165	194	195	196	197	199	202	204
170	158	158	158	158	160	163	167
175	150	149	145	141	138	137	139

Standard Radiation Pattern
(at One Kilometer)

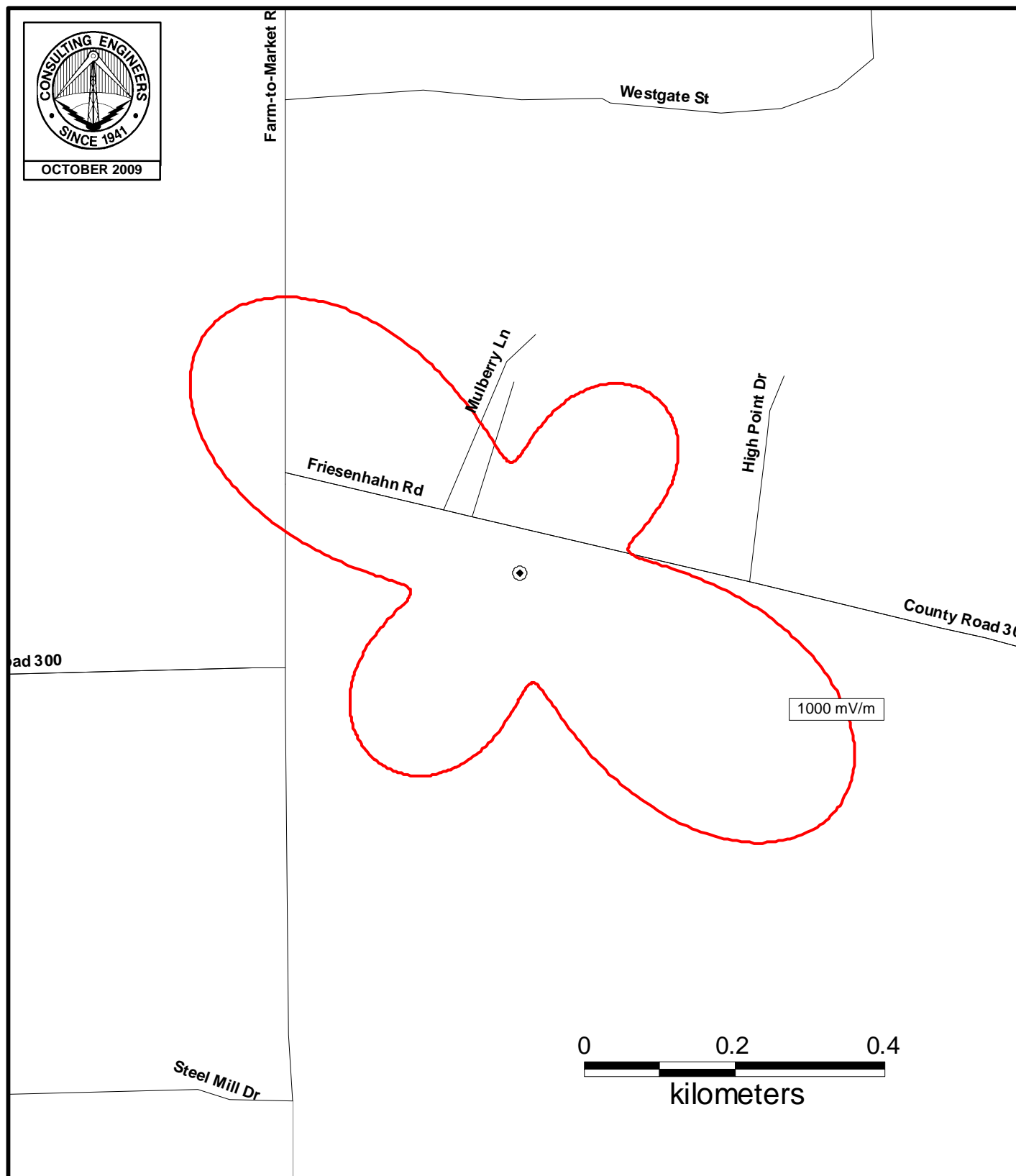
Azimuth Angle (deg)	Elevation Angle in Degrees						
	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)	65 (mV/m)
0	134	141	148	152	151	145	132
5	118	123	131	138	141	138	128
10	110	110	118	126	132	131	124
15	108	103	107	117	124	126	120
20	111	98.8	100	109	118	121	118
25	115	97.7	95.8	104	113	118	115
30	118	97.8	93.3	100	110	116	114
35	120	98.1	92.2	98.8	109	115	113
40	120	98.1	92.3	99.0	109	115	113
45	118	97.8	93.6	101	111	116	114
50	114	97.8	96.5	105	114	119	116
55	110	99.3	102	110	119	122	118
60	108	104	109	118	125	127	121
65	111	112	120	128	133	132	125
70	120	126	134	141	143	139	129
75	138	145	151	155	153	146	133
80	163	168	171	170	165	154	138
85	193	194	192	187	176	162	143
90	226	222	215	203	189	170	147
95	261	250	237	220	200	177	152
100	295	278	258	236	211	185	156
105	326	303	277	250	221	191	160
110	353	324	294	262	229	196	163
115	374	341	307	271	236	200	165
120	388	352	315	277	240	203	167
125	394	357	318	280	241	204	167
130	392	355	317	278	240	203	167
135	381	347	310	274	237	201	165
140	363	332	299	265	231	197	163
145	338	312	284	254	223	192	160
150	308	288	265	241	214	186	156
155	275	261	244	225	203	179	152
160	239	232	222	208	191	171	147
165	204	203	198	190	178	162	142
170	172	175	176	173	166	154	137
175	144	150	155	156	154	146	132

Standard Radiation Pattern
(at One Kilometer)

Azimuth Angle (deg)	Elevation Angle in Degrees						
	0 (mV/m)	5 (mV/m)	10 (mV/m)	15 (mV/m)	20 (mV/m)	25 (mV/m)	30 (mV/m)
180	168	166	158	148	136	127	122
185	199	196	185	169	151	132	118
190	232	228	215	196	172	147	124
195	262	257	243	222	195	164	134
200	286	281	267	244	214	180	146
205	304	299	284	260	229	193	156
210	316	311	296	271	239	202	163
215	322	317	301	276	244	207	167
220	321	316	301	276	244	206	167
225	314	309	294	270	238	201	162
230	301	296	281	257	227	191	155
235	282	277	262	240	210	177	144
240	256	251	238	217	190	161	132
245	225	221	209	191	168	143	122
250	193	189	179	164	147	130	118
255	163	161	154	145	135	127	124
260	149	148	146	143	140	141	144
265	163	163	164	165	167	170	174
270	204	204	205	207	209	210	212
275	261	261	261	260	259	257	253
280	325	324	322	318	312	304	294
285	388	386	382	374	364	350	334
290	445	442	436	425	410	391	369
295	492	489	480	466	447	424	397
300	525	522	512	496	474	448	418
305	543	539	529	512	489	460	428
310	544	540	530	512	489	461	429
315	527	524	514	498	476	450	419
320	495	492	484	470	451	428	401
325	450	447	441	430	415	396	373
330	394	393	388	380	370	356	340
335	332	332	329	325	319	311	301
340	270	270	269	269	267	265	260
345	212	213	214	215	217	219	220
350	169	169	170	172	174	178	183
355	150	149	147	145	145	147	151

Standard Radiation Pattern
(at One Kilometer)

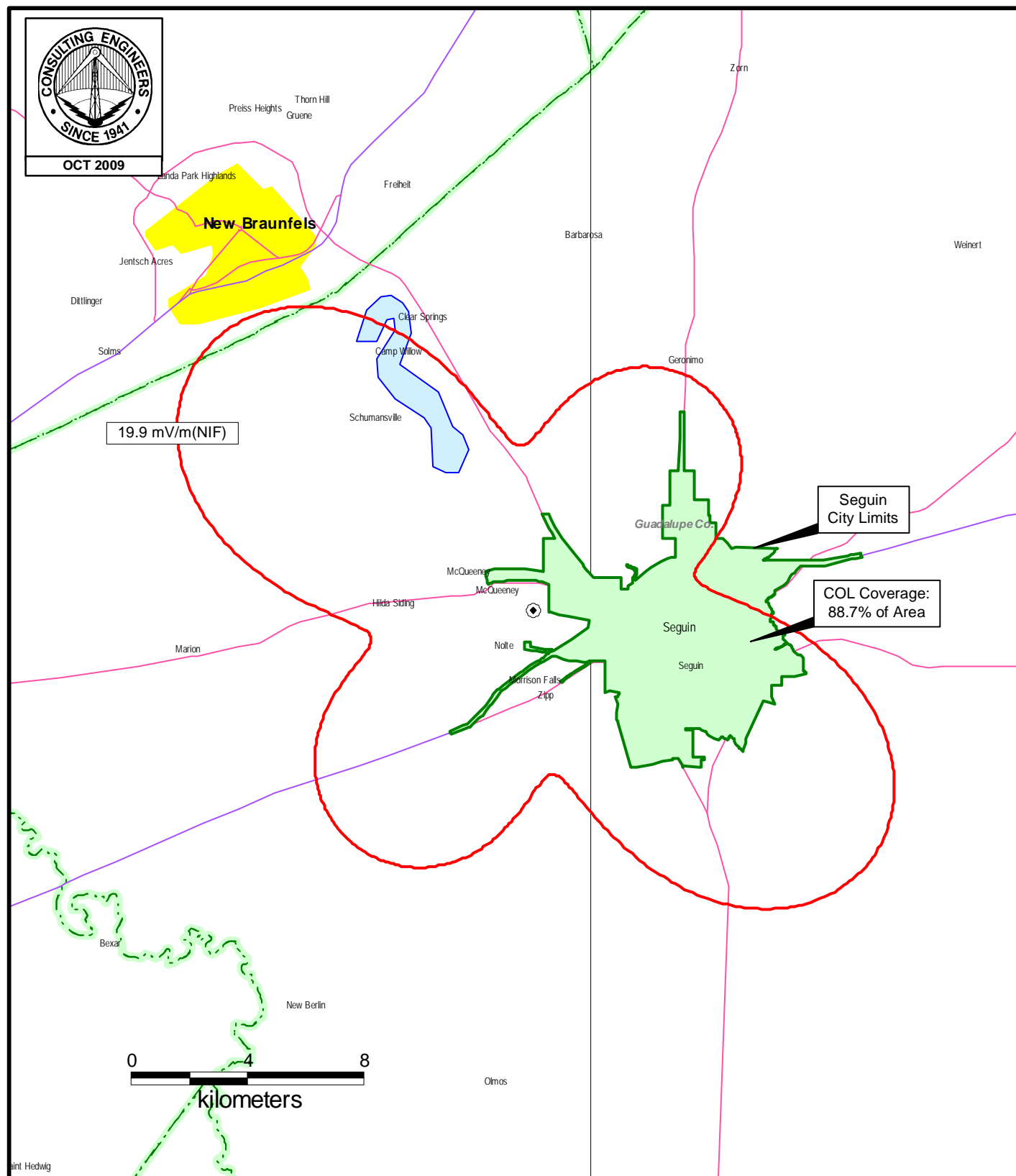
Azimuth Angle (deg)	Elevation Angle in Degrees						
	35 (mV/m)	40 (mV/m)	45 (mV/m)	50 (mV/m)	55 (mV/m)	60 (mV/m)	65 (mV/m)
180	123	129	136	141	142	138	127
185	111	113	120	127	132	130	122
190	108	103	108	116	122	124	118
195	111	98.6	99.1	107	115	118	115
200	117	97.7	93.5	100	109	114	112
205	123	98.9	90.4	95.1	104	110	110
210	127	100	88.8	92.1	101	108	108
215	130	101	88.3	90.8	100	107	107
220	130	101	88.3	90.9	100	107	107
225	127	100	89.1	92.6	102	108	108
230	122	98.6	90.8	95.9	105	111	110
235	115	97.7	94.4	101	110	115	112
240	110	99.2	101	108	116	119	115
245	108	105	110	118	124	125	119
250	113	116	123	130	134	132	123
255	127	133	139	144	144	139	128
260	149	155	159	160	156	147	133
265	178	180	180	176	168	156	138
270	211	209	203	194	181	164	143
275	247	238	226	211	193	172	148
280	282	267	249	228	205	180	153
285	315	293	269	243	216	187	157
290	344	317	287	257	225	193	161
295	367	335	302	267	233	198	164
300	384	349	312	275	238	201	166
305	393	356	318	279	241	203	167
310	394	356	318	279	241	204	167
315	386	350	314	276	239	202	166
320	370	338	304	270	234	199	165
325	348	320	291	260	228	195	162
330	320	298	274	247	219	190	159
335	288	272	254	233	209	183	155
340	254	245	232	217	198	176	151
345	219	216	210	200	186	168	146
350	186	189	188	183	174	160	142
355	157	163	167	167	162	152	137



PROPOSED NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

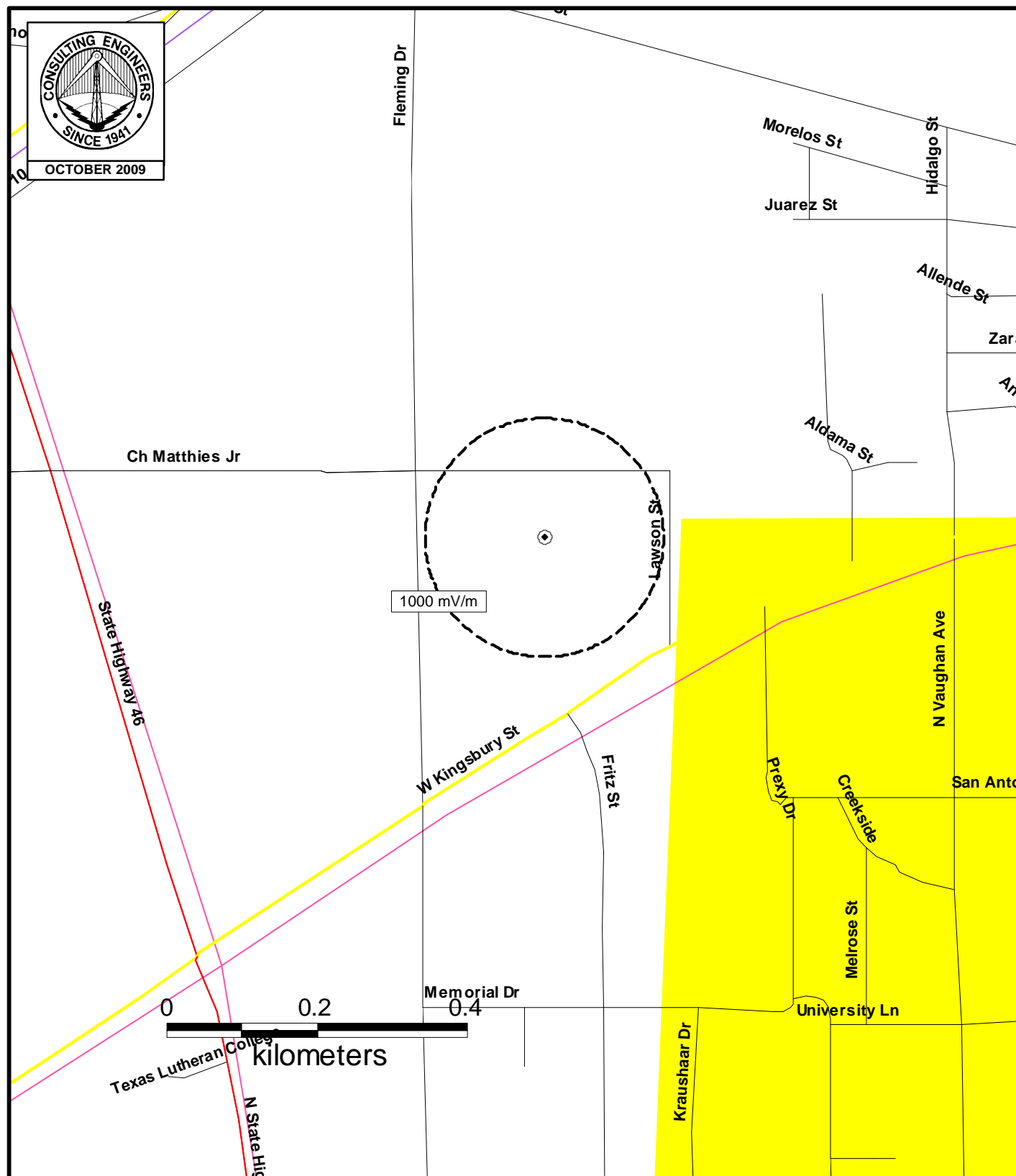
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



PROPOSED NIGHTTIME FIELD STRENGTH CONTOURS

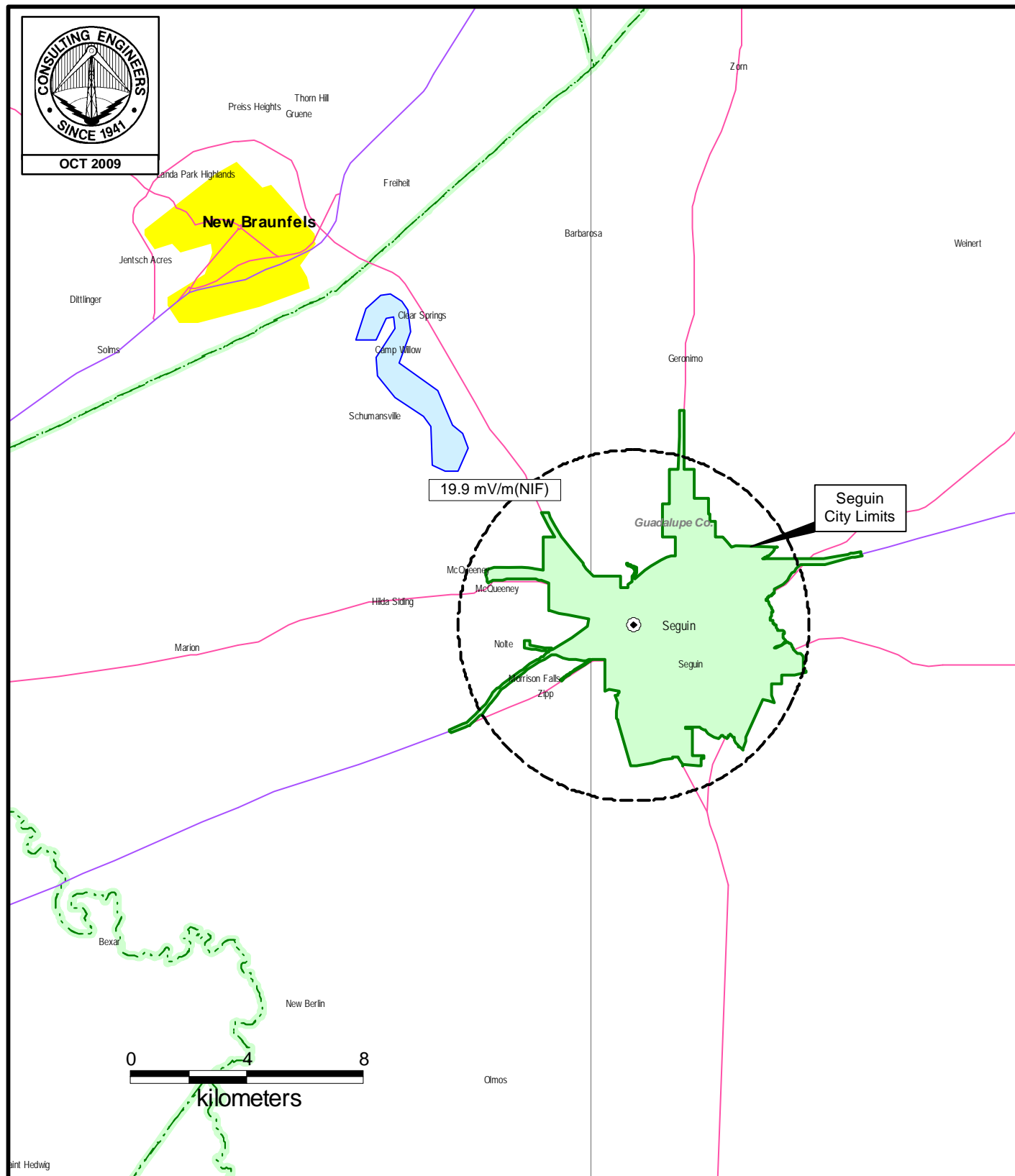
RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION KWED
SEGUIN, TEXAS
1580 KHZ 1 KW U DA-N



EXISTING NIGHTTIME FIELD STRENGTH CONTOURS

RADIO STATION KWED
SEGWIN, TEXAS
1580 KHZ 1 KW U DA-N

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
RADIO STATION KWED
SEGUIN, TEXAS

1580 KHZ 1 KW U DA-N

Nighttime Allocation Study

RSS Limit Calculation To KWED

Station Information:

Call: KWED
Freq: 1580 kHz
SEGUIN, TX, US
Hours: N
Lat: 29-35-06 N
Lng: 098-01-13 W
Power: 1.0 kW
Theo RMS: 314.28 mV/m @ 1km @ 1.0 kW

Standard: FCC Rules (1992 Skywave Propagation Model) [10%]

Contributors:

Call	Freq (kHz)	City	St	Ct	Limit (mV/m)	(%)	RSS Limit (mV/m)
XEDM/A	1580	HERMOSILLO	SO	MX	17.476	100.0	17.476
KMIK	1580	TEMPE	AZ	US	9.563	54.7	19.921 (NIF)
KIRT	1580	MISSION	TX	US	5.471	27.5	20.659
KGAF	1580	GAINESVILLE	TX	US	5.203	25.2	21.304

Non-Contributors:

Call	Freq (kHz)	City	St	Ct	Limit (mV/m)
XEDM/O	1580	HERMOSILLO	SO	MX	22.424

Night Allocation Protection Report

Call: KWED
Freq: 1580 kHz
SEGUIN, TX, US
Hours: N
Lat: 29-35-06 N
Lng: 098-01-13 W
Power: 1.0 kW
Theo RMS: 314.28 mV/m @ 1km @ 1.0 kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	109.9	0	0	0.0	0.0	0.0	0.0
2	0.571	-3.0	243.0	37.0	109.9	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
KGAF	US	TX	GAINESVILLE	135.66	4.809	177.24	176.96	0.28
50% = 17.655, 25% = 19.235; XEDM/A=13.81 XERF/A=11.00 KXZZ=7.64								
KXZZ	US	LA	LAKE CHARLES	130.96	3.975	151.75	151.01	0.74
50% = 13.228, 25% = 14.647; XEDM/A=10.24 XERF/A=8.38 KMIK=4.87 KWED=3.97								
XEDM/O	MX	SO	HERMOSILLO	42.02	1.902	226.24	214.84	11.40
50% = 4.081, 25% = 5.015; XEST/A=3.61 KBLA=1.90 KMIK=1.73 KGAF=1.40 KWED=1.33 KIRT=1.33								
XEDM/A	MX	SO	HERMOSILLO	41.63	1.900	228.25	208.98	19.27
50% = 4.113, 25% = 5.043; XEST/A=3.65 KBLA=1.90 KMIK=1.77 KGAF=1.37 KIRT=1.32 KWED=1.32								
NEW	US	TX	PANHANDLE	76.14	5.482	360.02	333.19	26.84
50% = 21.536, 25% = 22.223; XEDM/A=19.19 XERF/A=9.78 KGAF=5.48								
KIRT	US	TX	MISSION	179.56	6.278	174.81	147.73	27.08
50% = 23.755, 25% = 25.111; XEDM/A=17.76 XERF/A=15.77 KMIK=8.14								
WSRF	US	FL	FORT LAUDERDALE	19.16	1.591	415.09	323.07	92.03
50% = 5.009, 25% = 6.363; XEDM/A=3.75 UNK-A=2.45 WEKO=2.25 KXZZ=1.87 XERF/A=1.86 KMIK=1.74 WCCF=1.67 XEFRT1/A=1.62								
WSRF	US	FL	FORT LAUDERDALE	19.14	1.592	415.73	323.15	92.58
50% = 5.011, 25% = 6.367; XEDM/A=3.75 UNK-A=2.45 WEKO=2.25 KXZZ=1.87 XERF/A=1.86 KMIK=1.73 WCCF=1.69 XEFRT1/A=1.62								
WCCF	US	FL	PUNTA GORDA	23.17	1.982	427.87	306.50	121.37
50% = 6.809, 25% = 7.93; WSRF=5.34 XEDM/A=4.23 KXZZ=2.45 WEAM=2.38 XERF/A=2.20								
NEW	US	TX	KERRVILLE	375.99	2.964	394.10	270.77	123.33
50% = 9.258, 25% = 11.854; KDAV=5.90 KMIC=5.05 XEVOZ/ =5.05 KELP=4.10 XEACH/A=3.72 KDAE=3.57 XE/A=3.39								

Figure 14
Sheet 3 of 4

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
NEW	US	TX	KERRVILLE	374.36	2.964	395.83	272.40	123.43
50% = 9.23, 25% = 11.855; KDAV=5.88 XEVOZ/ =5.05 KMIC=5.01 KELP=4.12 XEACH/A=3.72 KDAE=3.62 XE/A=3.39								
NEW	US	NM	ROSWELL	72.56	9.629	663.46	532.50	130.96
50% = 33.105, 25% = 38.515; XEDM/A=33.10 KMIK=15.53 XERF/A=12.10								
NEW	US	TN	MIDDLETON	42.66	3.548	415.82	265.93	149.90
50% = 13.686, 25% = 14.19; WEAM=12.16 XEDM/A=6.27 XERF/A=3.75								
WEAM	US	GA	COLUMBUS	31.59	2.124	336.19	164.10	172.09
50% = 7.068, 25% = 8.496; KXZZ=5.04 XEDM/A=4.95 XERF/A=2.83 WHFS=2.24 WHLY=2.16 WVKO=2.14								
NEW	US	NM	SANTA FE	46.07	7.282	790.30	525.14	265.16
50% = 28.317, 25% = 29.239; XEDM/A=28.32 XERF/A=7.28								
KMIC	US	TX	HOUSTON	248.36	2.319	466.89	182.65	284.24
50% = 6.371, 25% = 9.358; XEVOZ/ =4.72 KDAV=3.13 KDAE=2.92 WALG=2.85 XE/A=2.72 XEACH/A=2.69 KVGB=2.68 WZRX=2.49 XE0067/A=2.34 XENVA2/A=2.32								
YNR11-A (345)	NU		RELOJ NACION	3.33	0.500	749.91S	444.10	305.81
KDAE	US	TX	SINTON	314.09	3.480	553.91	218.00	335.92
50% = 11.131, 25% = 14.215; KMIC=7.48 XEVOZ/ =6.56 XEACH/A=5.00 XE/A=4.58 XENVA2/A=4.06 KDAV=3.98 KELP=3.57 XE0067/A=3.48								
XE0050/A	MX	CI	SALTILLO	117.57	14.263	606.60	256.00	350.59
50% = 28.527, 25% = 29.588; XEDM/A=28.53 KMIK=7.85								
KDAV	US	TX	LUBBOCK	104.82	1.718	819.40	461.94	357.46
50% = 4.864, 25% = 6.871; XEVOZ/ =3.19 KMIC=2.75 KELP=2.43 XEDM/A=2.34 KVGB=2.17 XEPNA/A=1.90 XE/A=1.84 XECSI/A=1.82 XEACH/A=1.75								
XEAF1/O	MX	GT	APASEO EL GRAND	59.77	7.980	667.54	252.52	415.02
50% = 15.96, 25% = 19.894; XEDM/A=15.96 XELI/A=7.82 XETBV/A=6.89 XEUY/A=5.69								
XEAF/A	MX	GT	OJO SECO	58.01	7.910	681.77	254.70	427.07
50% = 17.685, 25% = 19.804; XEDM/A=15.82 XELI/A=7.91 XETBV/A=6.88 XEUY/A=5.67								
WHLY	US	IN	SOUTH BEND	17.12	2.605	760.95	301.28	459.67
50% = 9.286, 25% = 10.42; CKDO/A=9.29 XEDM/A=3.83 WVKO=2.77								
CKDO/O (285)	CA	ON	OSHAWA	3.23	0.501	775.65s	301.56	474.09
CKDO/A (285)	CA	ON	OSHAWA	3.23	0.508	786.43s	301.56	484.87
XE0042/O	MX	HG	TULANCINGO	58.60	7.921	675.86	171.88	503.97
50% = 15.842, 25% = 17.979; XEDM/A=10.54 XETBV/A=8.54 XELI/A=8.18 XEUY/A=7.12 XE/A=4.64								
WLIM	US	NY	PATCHOGUE	7.50	1.165	776.55	263.59	512.96
50% = 3.83, 25% = 4.659; CKDO/A=3.83 XEDM/A=1.76 WHFS=1.56 CFAV/A=1.22								
XEVAB1/A	MX	MX	VALLE DE BRAVO	47.74	7.575	793.35	230.34	563.02
50% = 16.882, 25% = 18.021; XEDM/A=12.05 XELI/A=9.08 XETBV/A=7.58 XEUY/A=6.30								

Figure 14
Sheet 4 of 4

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WV KO	US	OH	COLUMBUS	16.00	2.845	888.99	292.35	596.64
50% = 10.144, 25% = 11.378; WHLY=10.14 WHFS=3.89 XEDM/A=3.38								
XEQL/A	MX	MC	ZAMORA	50.08	8.913	889.85	286.03	603.82
50% = 17.827, 25% = 20.331; XEDM/A=17.83 XELI/A=7.57 XETBV/A=6.19								
XETBV/A	MX	VC	TIERRA BLANCA	42.00	6.367	757.93	150.79	607.14
50% = 13.628, 25% = 15.006; XEUY/A=9.10 XELI/A=7.89 XE/A=6.37 XEDM/A=6.28								
NEW	US	UT	SPRINGVILLE	18.26	4.103	1123.43	514.60	608.83
50% = 16.411, 25% = 16.411; XEDM/A=16.41								
NEW	US	UT	SPANISH FORK	18.44	4.163	1129.18	516.16	613.02
50% = 16.653, 25% = 16.653; XEDM/A=16.65								
NEW	US	UT	TOOELE	17.00	3.886	1143.17	515.81	627.36
50% = 15.545, 25% = 15.545; XEDM/A=15.54								
NEW	US	UT	PAYSON	18.61	4.283	1150.91	520.56	630.35
50% = 17.132, 25% = 17.132; XEDM/A=17.13								
XEUY/A	MX	VC	NANCHITAL	36.13	6.630	917.54	212.71	704.83
50% = 13.477, 25% = 14.281; XETBV/A=9.11 XE/A=7.39 XELI/A=6.63 XEDM/A=4.72								
XELI/A	MX	GR	CHILPANCINGO	35.06	6.671	951.43	206.42	745.01
50% = 13.343, 25% = 14.207; XEDM/A=8.31 XETBV/A=7.99 XEUY/A=6.71 XE/A=4.88								
WHFS	US	MD	MORNINGSIDE	11.02	2.244	1018.37	254.81	763.56
50% = 8.01, 25% = 8.978; WLIM=6.54 CKDO/A=4.63 WV KO=3.26 XEDM/A=2.41								
KVGB	US	KS	GREAT BEND	47.45	1.166	1228.36	147.82	1080.53
50% = 3.452, 25% = 4.663; KDAV=2.22 WAKR=1.93 XEVOZ/ =1.81 KUNX=1.60 KLFE=1.51 KWBG=1.44 KMIC=1.25 XEDM/A=1.17								
XE/A	MX	CS	TAPACHULA	16.58	4.974	1499.72	264.08	1235.64
50% = 9.948, 25% = 12.026; XEUY/A=7.54 XETBV/A=6.49 XELI/A=4.92 TIMS-A=4.63								
XEFRT1/A	MX	CS	COMITAN	21.37	6.883	1610.06	290.33	1319.72
50% = 14.548, 25% = 15.961; XE/A=9.80 XEUY/A=8.26 XETBV/A=6.88 XELI/A=5.08 TIMS-A=4.16								
NEW/A	CA	AB	EDMONTON	3.81	1.341	1760.49	278.09	1482.40
50% = 2.682, 25% = 2.942; XEDM/A=2.32 CKDO/A=1.35 KGAL=1.21								
NEW/A	CA	AB	EDMONTON	3.81	1.341	1760.47	278.05	1482.42
50% = 2.682, 25% = 2.942; XEDM/A=2.32 CKDO/A=1.35 KGAL=1.21								
NEW	US	UT	WASHINGTON	20.03	8.171	2039.78	541.37	1498.42
50% = 32.684, 25% = 32.684; XEDM/A=26.03 KMIK=19.76								
WALG	US	GA	ALBANY	29.19	0.973	1666.06	149.72	1516.34
50% = 2.967, 25% = 3.92; XEVOZ/ =2.01 WXVI=1.58 WFBR=1.52 WZRX=1.15 TGXC-A=1.13 KMIC=1.01 WPVL=1.00 WNTS=0.99 WKTP=0.97								