

# **EXHIBIT 11.1**

## **DESCRIPTION OF PROPOSED ANTENNA SYSTEM**

---

### **DAYTIME/CRITICAL HOURS ANTENNA SYSTEM**

1. The common daytime/critical hours antenna system will consist one (1) vertical, insulated, guyed, uniform cross-section steel towers. This is also Tower 1 (southwest tower) of the WXKS(AM) Everett, MA nighttime two tower array. The tower stand 78.1° or 59.7 meters above a 1.2 meter base pier and insulator for an overall height of 60.9 meters AGL. No obstruction lighting is believed required. Given the site elevation of 6.0 meters AMSL, the top of the tower stands at 66.9 meters AMSL.
2. The existing ground system consists of 120 buried copper radials, extending 52.4 meters in length, about the base of the tower except where shortened to terminate at the transverse copper strap running midway between the WXKS(AM) tower. The material used for the radials is #10 AWG, soft drawn copper wire.
3. The theoretical efficiency for the proposed daytime operation will be 282.232 mV/m/kW at 1 km based on the Figure 8 Tower de-rating and ground system correction program as taken off of the FCC website. Given the daytime operating power of 4.8 kW, the theoretical radiation will be 618.3 mV/m at 1 km.
4. The theoretical efficiency for the proposed critical hours operation will be 282.232 mV/m/kW at 1 km based on the Figure 8 Tower de-rating and ground system correction program as taken off of the FCC website. Given the critical hours operating power of 1.9 kW, the theoretical radiation will be 389.0 mV/m at 1 km.

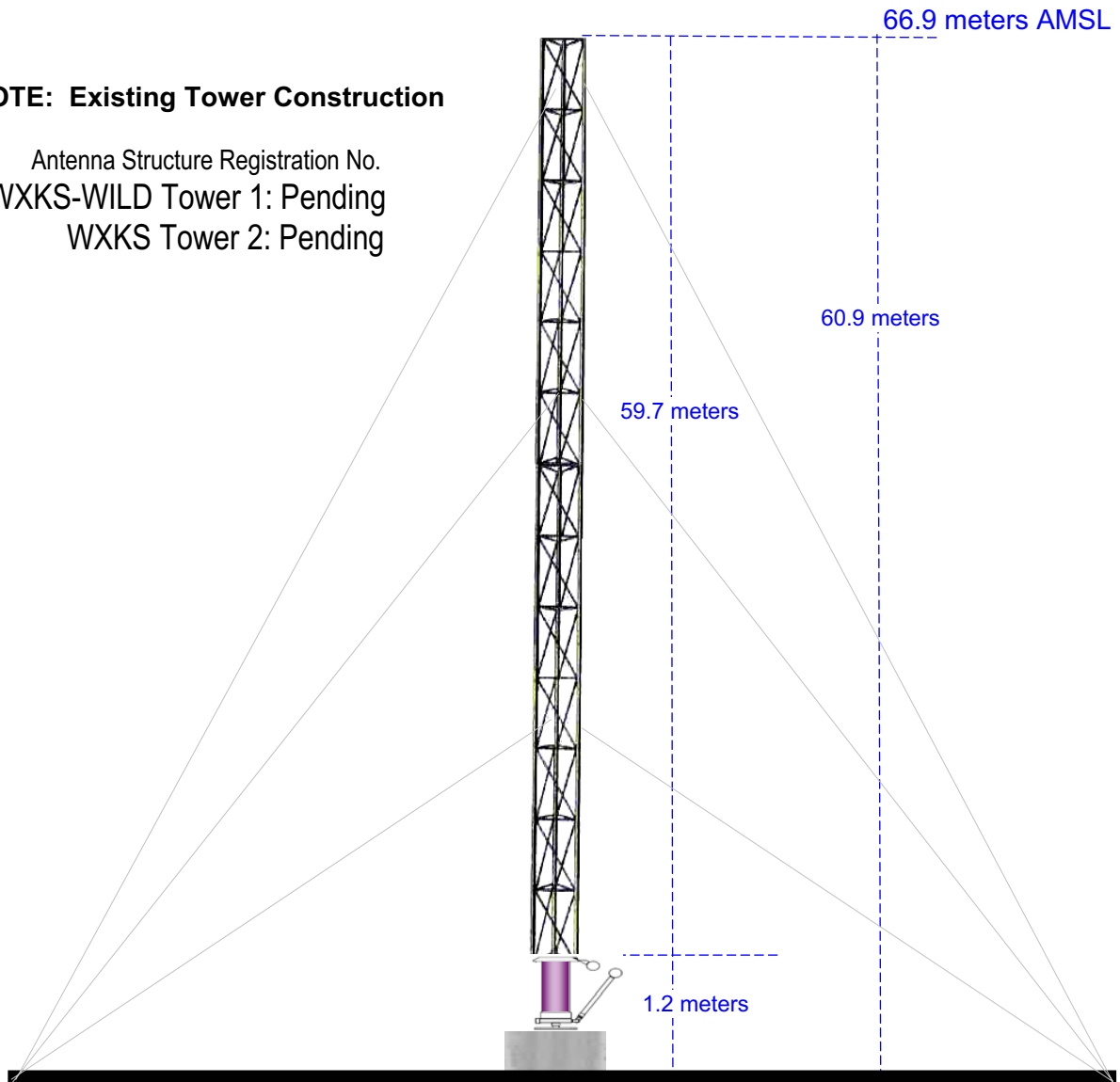
## FIGURE 11.2 VERTICAL PLAN OF ANTENNA SYSTEM

This site is located 0.5 km southeast of the Interstate  
16&28 Interchange, City of Medford, Middlesex County, MA

Site Location  
NL: 42° 24' 10"  
WL: 71° 04' 28"

### NOTE: Existing Tower Construction

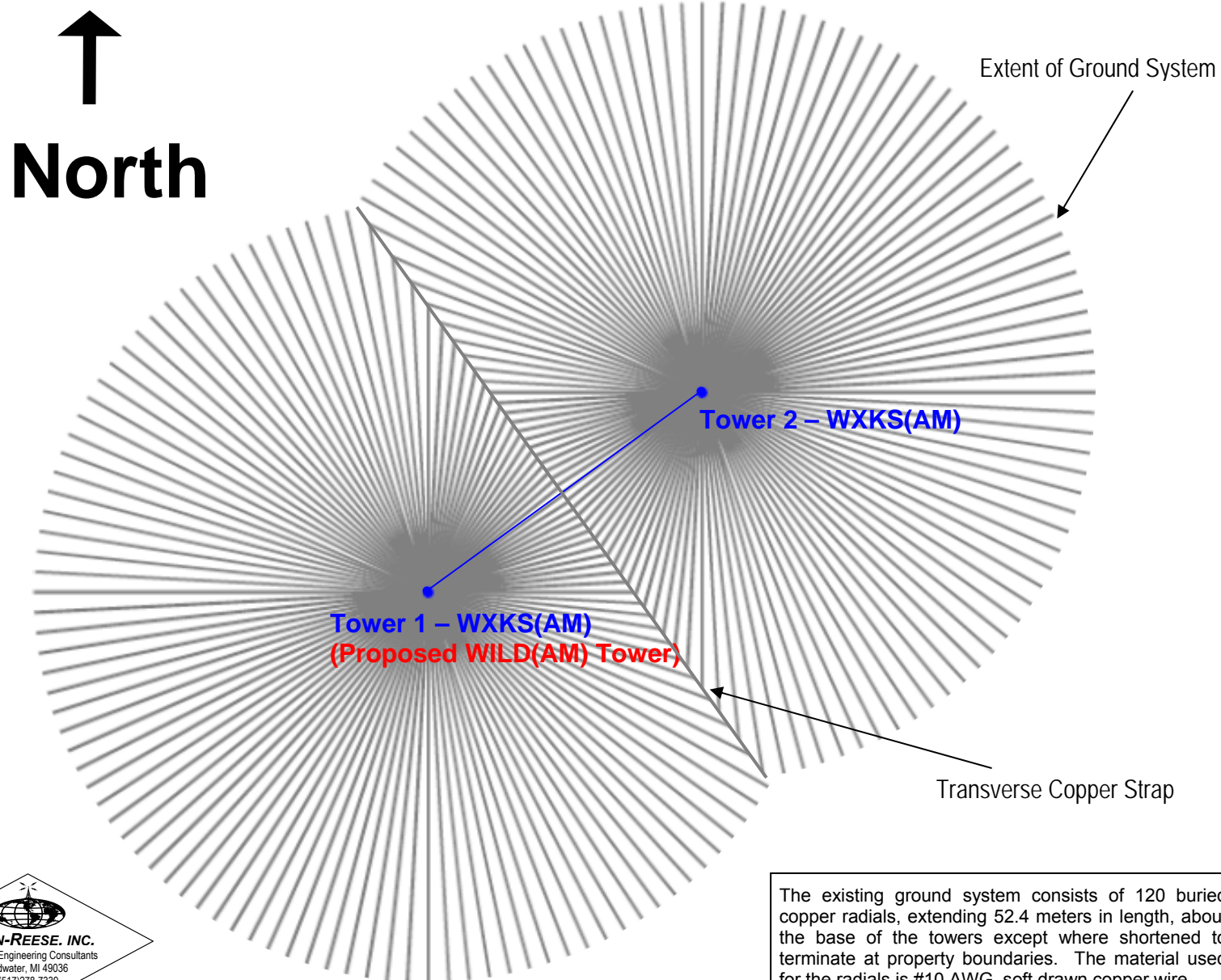
Antenna Structure Registration No.  
WXKS-WILD Tower 1: Pending  
WXKS Tower 2: Pending



Ground Elevation = 6.0 m AMSL  
Drawing is not to Scale

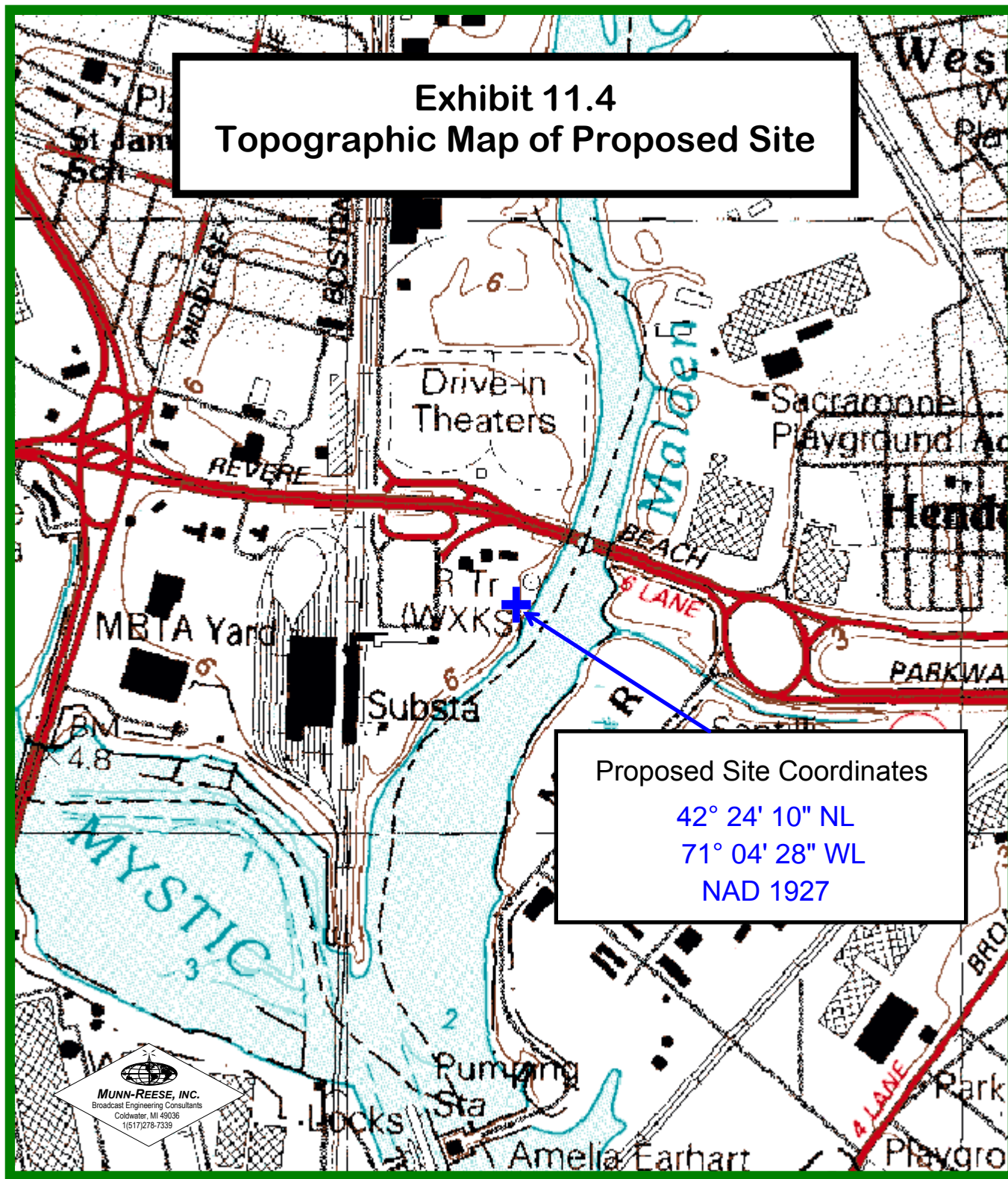
**MUNN-REESE, INC.**  
Broadcast Engineering Consultants  
Coldwater, MI 49036

## Exhibit 10.3 – Horizontal Plat of Antenna Array



The existing ground system consists of 120 buried copper radials, extending 52.4 meters in length, about the base of the towers except where shortened to terminate at property boundaries. The material used for the radials is #10 AWG, soft drawn copper wire

## Exhibit 11.4 Topographic Map of Proposed Site



Kilometers

0.0 0.1 0.2 0.3 0.4 0.5

Miles

0.0 0.09 0.18 0.27 0.36 0.45

Vertical Contour Intervals

3 meters

Boston North, MA  
USGS Topo Map  
1:25,000 - 1991



**Exhibit 11.5**  
**Photograph of**  
**Existing Site**

Tower 2 - WXKS(AM)  
Tower 1 - WXKS(AM)  
(Proposed WILD(AM) Tower)

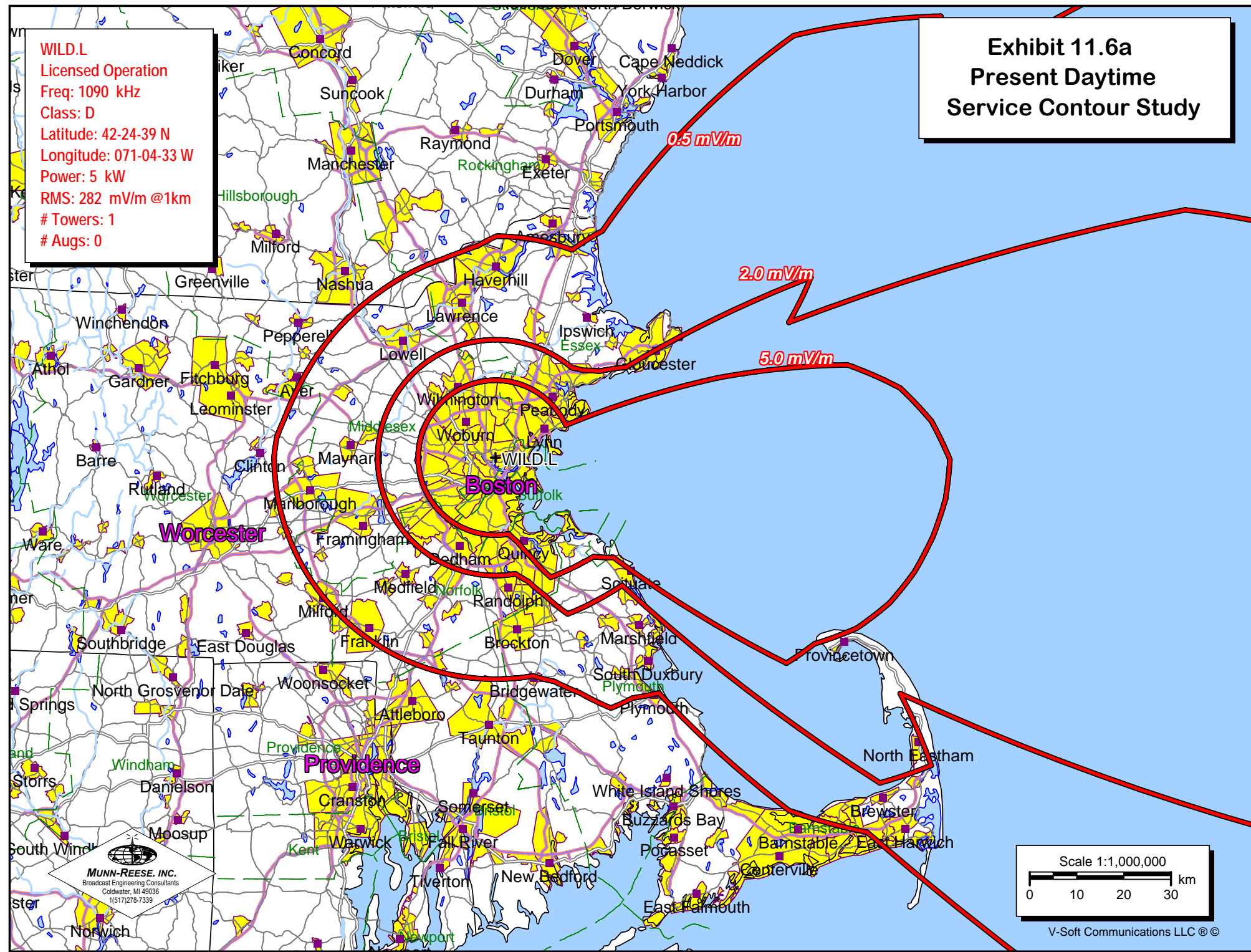


Photograph Taken April 3, 1995



WILD.L  
Licensed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-39 N  
Longitude: 071-04-33 W  
Power: 5 kW  
RMS: 282 mV/m @1km  
# Towers: 1  
# Augs: 0

# Exhibit 11.6a Present Daytime Service Contour Study



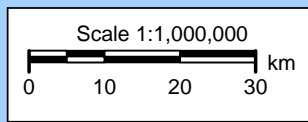
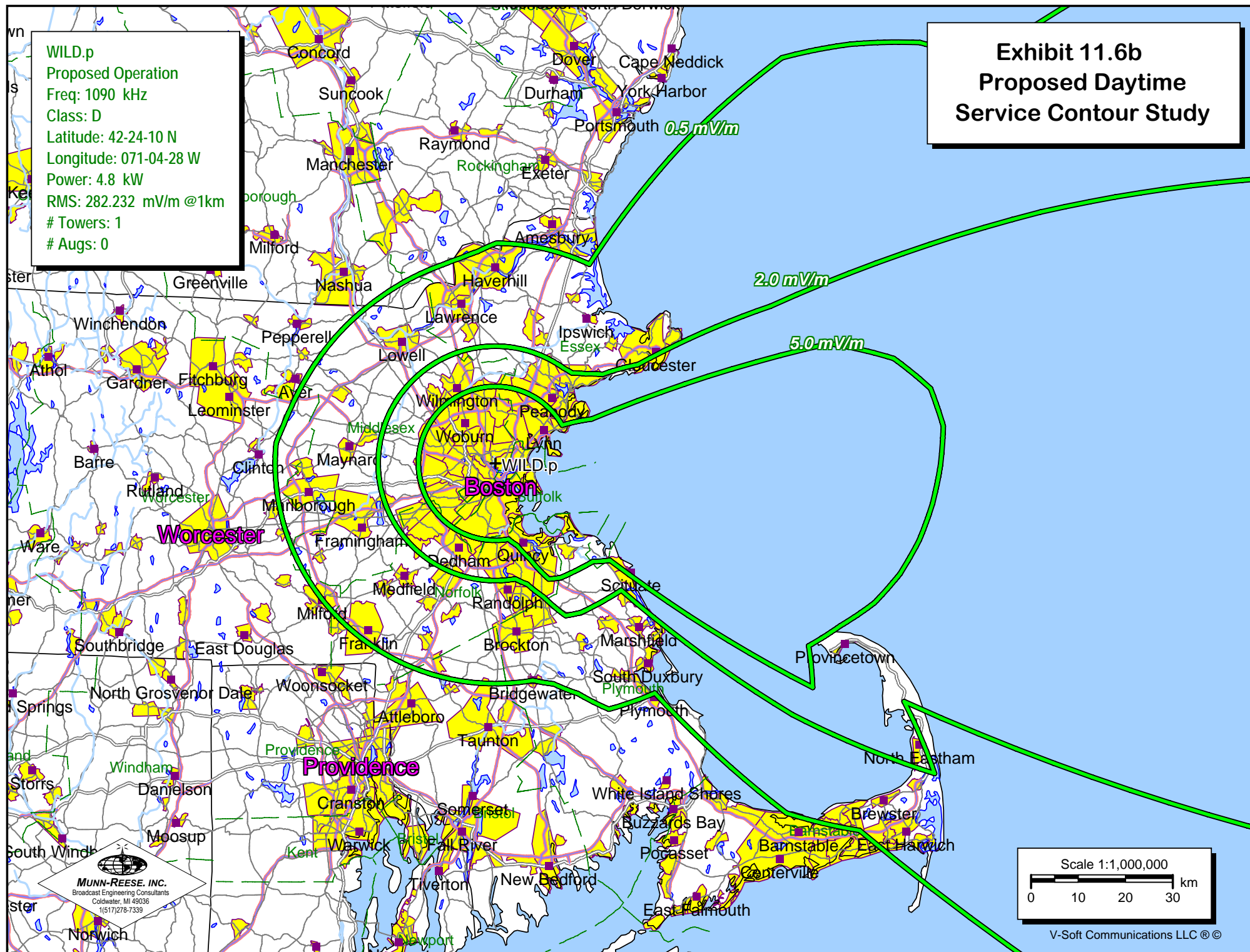
**MUNN-REESE, INC.**  
Broadcast Engineering Consultants  
Coldwater, MI 49036  
1(517)278-7339

Scale 1:1,000,000  
0 10 20 30 km  
V-Soft Communications LLC ©



WILD.p  
Proposed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-10 N  
Longitude: 071-04-28 W  
Power: 4.8 kW  
RMS: 282.232 mV/m @1km  
# Towers: 1  
# Augs: 0

## Exhibit 11.6b Proposed Daytime Service Contour Study



V-Soft Communications LLC ©

**Exhibit 11.6c**  
**Present & Proposed**  
**Daytime City Coverage Study**

**WILD.L**  
Licensed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-39 N  
Longitude: 071-04-33 W  
Power: 5 kW  
RMS: 282 mV/m @1km  
# Towers: 1  
# Augs: 0

**Present 5.0 mV/m Coverage**  
**of Boston: 108.02 km<sup>2</sup> (86.3 %)**

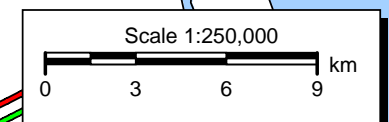
**WILD.p**  
Proposed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-10 N  
Longitude: 071-04-28 W  
Power: 4.8 kW  
RMS: 282.232 mV/m @1km  
# Towers: 1  
# Augs: 0

**Proposed 5.0 mV/m Coverage**  
**of Boston: 113.24 km<sup>2</sup> (90.6 %)**

WILD.L  
+  
WILD.p

**Boston City**  
**Limits**

**U.S. Census 2000**  
**Boston Land Area: 125.05 km<sup>2</sup>**

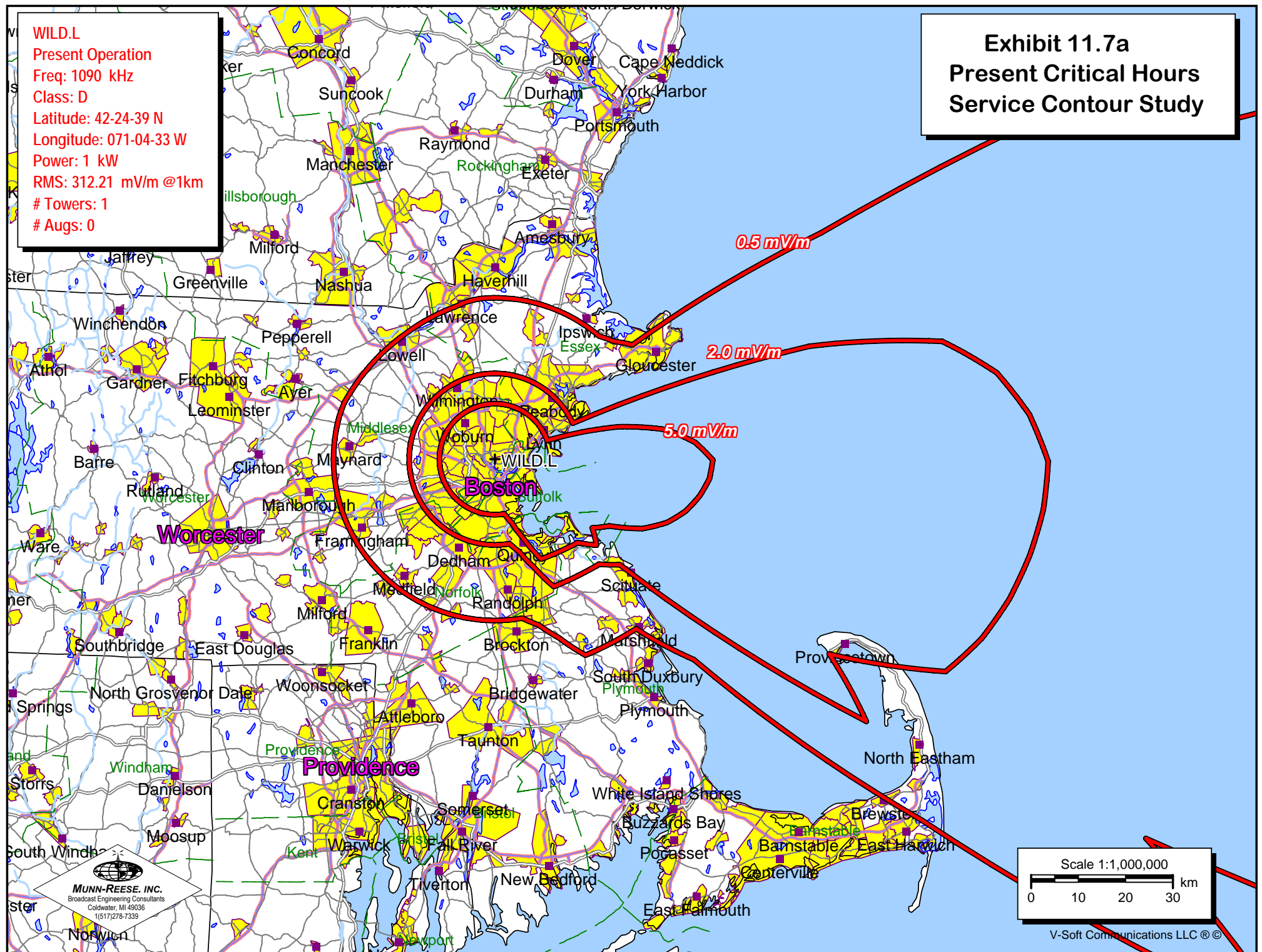


V-Soft Communications LLC © 2004



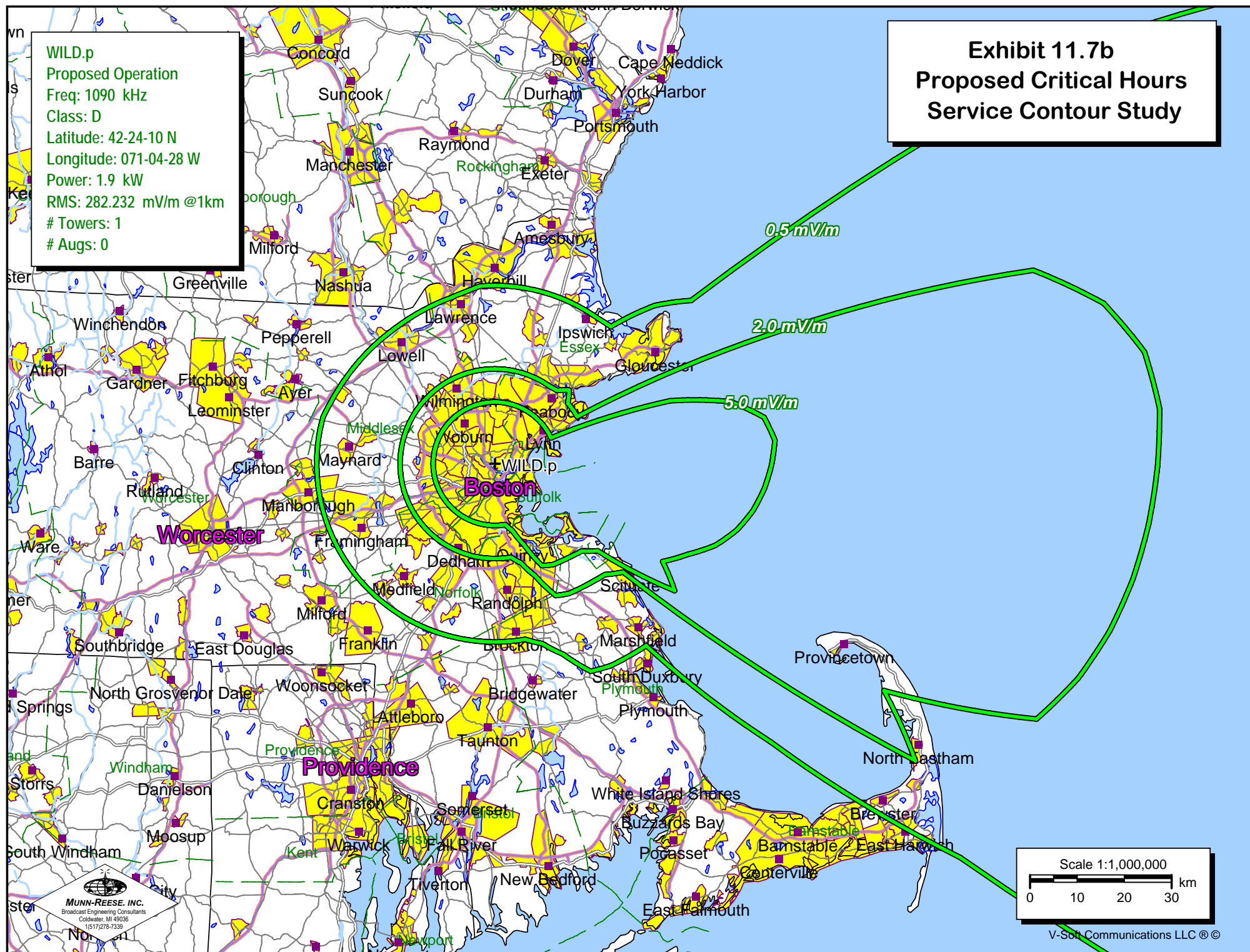
**WILD.L**  
Present Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-39 N  
Longitude: 071-04-33 W  
Power: 1 kW  
RMS: 312.21 mV/m @1km  
# Towers: 1  
# Augs: 0

# Exhibit 11.7a Present Critical Hours Service Contour Study



WILD.p  
Proposed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-10 N  
Longitude: 071-04-28 W  
Power: 1.9 kW  
RMS: 282.232 mV/m @1km  
# Towers: 1  
# Aucs: 0

## Exhibit 11.7b Proposed Critical Hours Service Contour Study



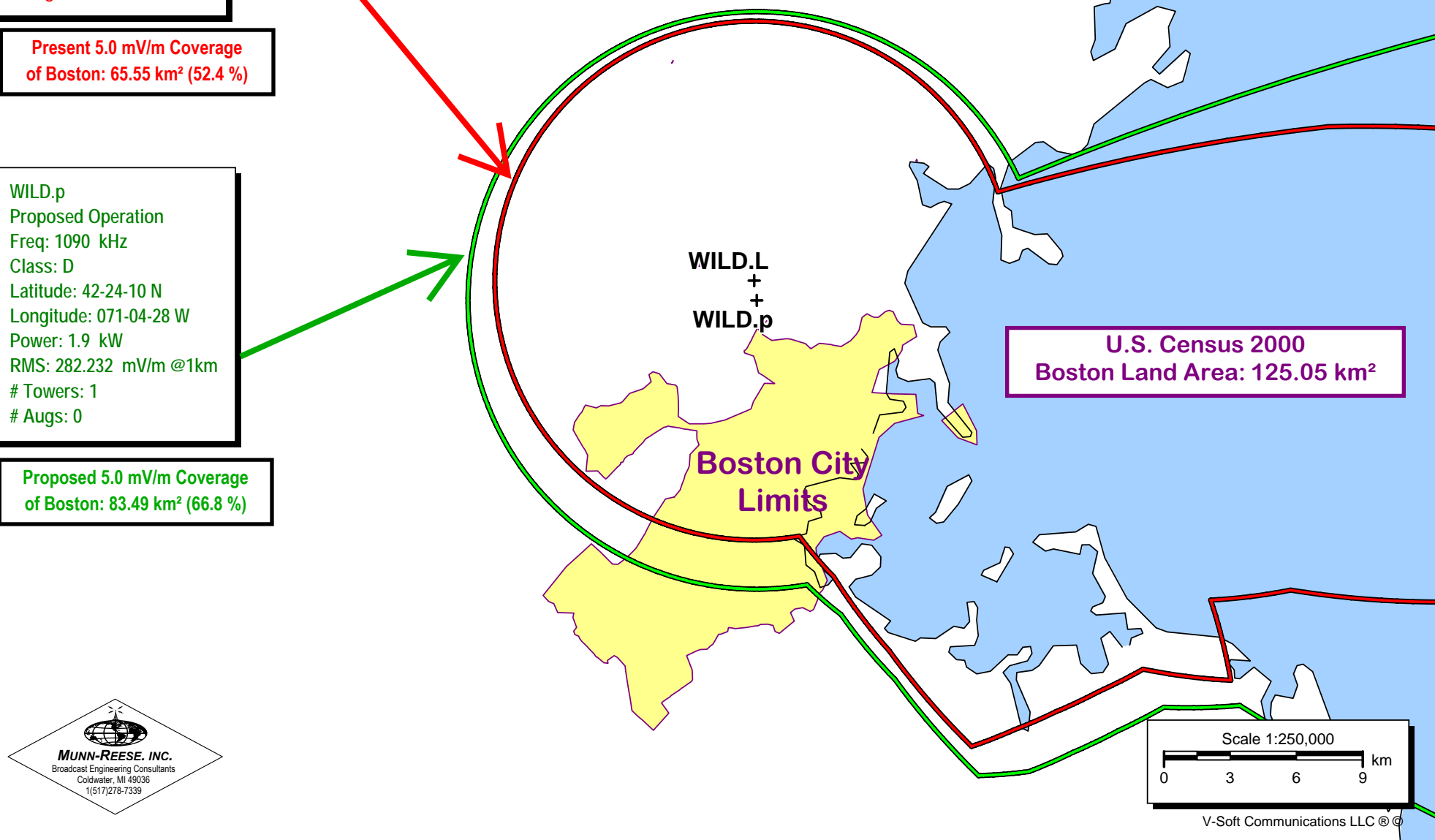
**WILD.L**  
Licensed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-39 N  
Longitude: 071-04-33 W  
Power: 1 kW  
RMS: 312.21 mV/m @1km  
# Towers: 1  
# Augs: 0

**Present 5.0 mV/m Coverage  
of Boston: 65.55 km<sup>2</sup> (52.4 %)**

**WILD.p**  
Proposed Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-10 N  
Longitude: 071-04-28 W  
Power: 1.9 kW  
RMS: 282.232 mV/m @1km  
# Towers: 1  
# Augs: 0

**Proposed 5.0 mV/m Coverage  
of Boston: 83.49 km<sup>2</sup> (66.8 %)**

# Exhibit 11.7c Present & Proposed Critical Hours City Coverage Study





**WILD.L**  
License Daytime Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-39 N  
Longitude: 071-04-33 W  
Power: 5 kW  
RMS: 282 mV/m @1km  
# Towers: 1  
# Augs: 0

1.0 V/m Population: 1,150  
25 mV/m Population: 601,432

## Exhibit 11.8 Present & Proposed 1.0 V/m "Blanket" Contour Study

**WILD.L**  
Licensed Critical Hours Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-39 N  
Longitude: 071-04-33 W  
Power: 1 kW  
RMS: 312.21 mV/m @1km  
# Towers: 1  
# Augs: 0

1.0 V/m Population: 253

**WILD.p**  
Proposed  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-10 N  
Longitude: 071-04-28 W  
Power: 4.8 kW  
RMS: 282.232 mV/m @1km  
# Towers: 1  
# Augs: 0

1.0 V/m Population: 249

**WILD.p**  
Proposed Critical Hours Operation  
Freq: 1090 kHz  
Class: D  
Latitude: 42-24-10 N  
Longitude: 071-04-28 W  
Power: 1.9 kW  
RMS: 282.232 mV/m @1km  
# Towers: 1  
# Augs: 0

1.0 V/m Population: none

**MUNN-REESE, INC.**  
Broadcast Engineering Consultants  
Coldwater, MI 49036  
1(517)278-7339

"+" Represents U.S. Census 2000 Population Centroid Datum

Scale 1:12,500

0 0.17 0.33 0.5 km

V-Soft Communications LLC ©