

## OFFICIAL PROPOSAL Lawrence Art Center Installation December 26, 2006



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### **General Overview**

To provide laptop level service to end users, Freenet needs to install approximately 450 mesh radios throughout the city of Lawrence. To facilitate data services to end users and make the service available for public safety, the company would like to make use of several City owned buildings.

#### Site Selection Criteria

The specified sites were chosen to facilitate services to end users and provide for future expansion of city services.

The proposed site is as follows:



Figure 1: Lawrence Arts Center - 940 New Hampshire, Lawrence, KS 66044

#### **Proposed Installation Details**

As with Freenet's City Hall installation, the proposed radios would be installed on rooftops using non-penetrating roof mounts. These mounts are inconspicuous, durable and do not puncture or impact roof membranes.



Figure 2: Example of Non-Penetrating Roof Mount Installation

Power will be drawn off of the nearest available power port. These units have cords up to 30' in length. If the unit is further from power, the company commonly uses a low voltage DC Power Over Ethernet (PoE) solution. The image in Figure 2 above uses this PoE solution.