

Office of the City Manager

CONSENT CALENDAR
September 16, 2003

To: Honorable Mayor and
Members of the City Council
From: Weldon Rucker, City Manager
Subject: PURCHASE: Cisco Networking Equipment

RECOMMENDATION

Adopt a Resolution authorizing the City Manager to issue a purchase order to AMS.NET Inc for the purchase of Cisco networking equipment to provision 1947 Center Street for a total amount not to exceed \$150,000.

FISCAL IMPACTS OF RECOMMENDATION

The purchase of the networking equipment is included in the capital projects budget for the refurbishment of 1947 Center Street.

Budget Code: 850-5451-463-7044-02CB53

CURRENT SITUATION AND ITS EFFECTS

The acquisition of 1947 Center Street will add another 300 members of staff to the City of Berkeley's central "campus" network. The campus network is distinguished from the citywide network in that all the central buildings are linked by very high-speed fiber cabling, and the telephones are directly wired into the City's central telephone switch – termed the PBX.

The network actually consists of several layers of hardware and software technology that includes: desktop computers, cabling, servers (which control printing and other functions, and store email, files, Web pages, and other databases), and wide-area network links to other City sites and to the Internet. In addition to these layers, yet another layer exists between the cabling and the servers: this layer is termed the network infrastructure.

1947 Center Street's new network infrastructure will operate at a speed of 100Mbit – 100 megabits per second. Further, the network will be switched, that is to say that instead of being on a shared circuit, each computer will receive data directly at the full speed of 100Mbits. The network's backbone will be a 1Gbit (gigabit - one billion bits per second) data link running on fiber optic cable rising between the floors of the building. The result will be a very fast network that should serve staff for many years.

At the heart of the network is a Cisco 6000 router that will operate as a central switch for the building. This switch is identical to the one provisioning 2180 Milvia Street. This configuration offers several advantages:

- The two devices will synchronize very closely to create a seamless network.
- Staff will be working with familiar equipment
- One set of spares will be sufficient for both machines
- The presence of two identical systems will bring a degree of system redundancy and resilience to the network as a whole

It is proposed to make the award to AMS.NET, using the pricing from the State's standardized CMAS (California Multiple Award Schedules) pricing structure. AMS.NET is the company that installed the current Cisco equipment in 2180 Milvia Street.

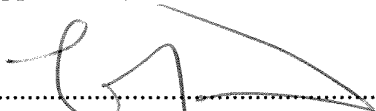
ALTERNATIVE ACTIONS CONSIDERED

The only alternative would be a patchwork of the networking equipment salvaged from the buildings from which staff is moving. However, the result would be an inflexible, slower network built with ageing equipment. Further, such a network would be both difficult to manage and potentially unreliable.

CONTACT PERSON

Chris Mead, Director
Department of Information Technology
981-6500

Approved by:


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Chris Mead, Director
Department of Information Technology

RESOLUTION NO. N.S.

AUTHORIZING THE CITY MANAGER TO ISSUE A PURCHASE ORDER TO AMS.NET FOR NETWORK EQUIPMENT IN AN AMOUNT NOT TO EXCEED \$150,000

WHEREAS, the present and future computer networking demands of staff and policy makers require a state-of-the-art networking infrastructure; and

WHEREAS, 1947 Center Street will become a major hub of the City's Administration that will require new networking equipment; and

WHEREAS, the Cisco network equipment will be purchased through the CMAS (California Multiple Awards Schedule) system in compliance with Charter Section 67.2.

NOW THEREFORE, BE IT RESOLVED by the Council of the City of Berkeley that the City Manager is hereby authorized to issue a purchase order to AMS.NET for network equipment and services in an amount not to exceed \$150,000 (budget code 850-5451-463-7044-02CB53).