Wireless overlay.

In an area with normal residential density depending on height, angle and tree canopy we would expect to reach approximately 200 homes per lighted PCC.

Number of homes 200, cost per location $3,000 number of people per household 4. Cost per person served in the home $3.75. This does not include potential support for peripheral users within the umbrella serve area. Nor does it include the cost of the internet. This would be served by the fiber and potentially provided free to these areas.

Advantages of the outside wireless solution. Most targeted PCC's are located in areas that have underserved. This provides outreach into these areas and helps create sustainability. If moderate from our perspective but from state perspective 5mb total up and down was provided free this would be an impetus for these people to get into the PCC's and learn how to use a computer and would increase PCC numbers of users since users tend to come from closer locations first.

The other compelling argument is the direct outreach and community information gathered on the effectiveness of this methodology for a whole community. This helps create sustainability and direct connection for children across the community. The data this would provide and the local awareness this would bring could be the impetus necessary to create a community wireless overlay that would enhance both public safety, the medical community and allow the children the consistent access they need to be successful.

The continued rise of smartphones will make the wireless support even more valuable.

Data mining on the traffic usage could provide key information into the direction schools and training programs need to go. By getting out ahead of these trends it is much easier to make sure the resources are in place.

This can also be used to provide connectivity to cameras outside the facilities to enhance the perception of safety. These AP's could be the starting point to provide future mesh hops deeper into areas that may never see a fiber deployment of significance.

The internal wireless overlay could also be used to support other benefits for the PCC such as video training, security and equipment inventory through RFID's.

Here is some proposed text to get us started:

"Wireless access points that are open to the public will significantly expand the capacity and the hours of operation for public computing centers. Fifteen public computing centers that do not currently have wireless access will be equipped with wireless 'wifi' access points. In the case of PCCs in larger buildings, we will be installing a system of comprehensive commercial-grade access points in multiple zones and floors of the buildings. This will extend the reach and capacity of these centers by allowing users with laptops and mobile devices to utilize wireless in any areas of the buildings and in adjacent outdoor public zones and plazas. In addition, the public will be able to use this free wifi access 24 hours a day, 7 days a week even after hours or when the center is in use for a training event."

I believe this fits under PCC not SBA, because we are primarily using this wireless to expand the capacity (number of users) of public computer centers--we are no longer using this to add subscribers (i.e., this is not going to be a significant ISP into people's homes, and there will not be a paid subscription level of access).

SBA portion can come from the up top piece