a. Opportunity the proposed system seeks to address The CCBC’s project, which addresses all of BTOP’s statutory purposes, is to connect via a Middle Mile infrastructure the disparate telecommunications networks in our region, as well as provide for connectivity to the geographically challenging and rural areas of our farmlands—the nation’s Salad Bowl—our rugged coast, and mountain areas. These rural areas include health clinics, schools, small businesses, and public safety organizations as well as households with low-speed access to the Internet. During the recent wildfires (2008 and 2009), there was no connectivity for first-responders. Public safety and economic development opportunities are primary considerations. CCBC’s mission is to plan for, build and connect the region’s disparate telecommunications networks and fulfill critical gaps, offering high speed Internet connectivity to ensure equity, access and digital literacy for all residents, businesses, government, education and other civic and social services agencies and institutions in the region. In addition, the project seeks to address the priorities listed in “The State of Connectivity: Building Innovation Through Broadband,” the final report of the California Governor’s Broadband Task Force. These priorities include: • Build out high-speed broadband infrastructure to all Californians • Develop model permitting standards and encourage collaboration among providers • Increase the use and adoption of broadband and computer technology • Engage and reward broadband innovation and research • Create a statewide e-health network • Leverage educational opportunities to increase broadband use b. A general description of the proposed funded service areas The broadband project focuses on the Monterey Bay area, a tri-county region of California’s central coast comprised of the counties of Monterey, San Benito and Santa Cruz. The total combined area of these three counties is 5,154.05 square miles. The proposed funded service area totals 3,899.35 square miles and encompasses the unserved (2,495.75 square miles) and underserved areas (1,403.6 square miles) of these three counties. c. Number of households and businesses passed The project serves the following, based on 2007 Census data for the specific Census Block Groups, that describe the project location including 57,640 unserved and underserved households and 5,439 businesses in unserved/underserved areas. d. Number of community anchor institutions, public safety entities, and critical community organizations passed and/or involved with project. • 215 e. Proposed services and applications for the proposed funded service areas and users Layer 2 bandwidth up to 100 Gpbs and dark fiber leases with option to interconnect to Internet in San Jose f. Approach to addressing the non-discrimination and interconnection obligations The applicant will adopt and implement policies that adhere to the non-discrimination and interconnection requirements set forth in the NOFA, and will display those policies prominently on the applicant’s web page. Additionally, the applicant will ensure that its services are offered at reasonable rates and terms, and will commit to binding private arbitration
of disputes concerning interconnection obligations. g. Type of broadband system that will be deployed (network type and technology standard) This middle mile broadband network is modeled on the Ultra-High Speed National LambdaRail (NLR), or Internet-2 as it’s more commonly known. The Internet-2 is a very high-speed coast to coast long haul network that aims to tie public and private peering exchanges together for a national backbone network that delivers speeds greater than 100Gbps. Essentially our mission is to extend those kinds of speed capabilities into our network providing open access transport to any last mile project or incumbent or competitive exchange carrier (ILEC or CLEC). This is fundamentally, a transport-only network design. The project includes SONET/TDM rings to provide a robust, reliable, and scalable infrastructure. The system will support traditional TDM services (DS1/DS3 to OC-x) as well as Ethernet over SONET and wavelength support. Every segment of the system will have a minimum of 100 Gbps symmetrical bandwidth. The reference architecture is designed to be upgradable to 1.6 Tbps on a segment-by-segment basis by simply adding or replacing cards at individual nodes. h. Qualifications of the applicant that demonstrate the ability to implement and operate a broadband infrastructure, and/or be a sustainable broadband service provider The Lead Agency, the University Corporation of Monterey Bay, and the California State University, Monterey Bay, own and/or operate several broadband networks, both on the institutional premises and within the proposed service area. These include OtterNet (an on-campus network), I-nets for local municipalities such as the cities of Monterey and Marina, and leased lines that serve the Naval Postgraduate School (NPS) and Corporation for Education Network Initiatives in California (CENIC) within the service area. In addition, member organizations of the Central Coast Broadband Consortium include municipalities and public, nonprofit and private agencies with significant in-house expertise in the management of broadband networks with functionality comparable to the proposed network. i. Overall infrastructure cost of the broadband system • $49,750,090 j. Overall expected subscriber projections for the project Based on input from regional strategic institutions and surveys of subscriber rates in comparable regions, cumulative subscriptions during the first five years of the project are conservatively projected as 25,067 Consumers and 2,231 small businesses • k. Number of jobs estimated to be created or saved as a result of this project The proposed project will create or save an estimated 3,500 jobs.