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**PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA**

**Communications Division  
Carrier Oversight and Programs Branch**

**RESOLUTION T- 17245  
January 21, 2010**

**R E S O L U T I O N**

**Resolution T-17245 Funding Approval for the California Valley Broadband Project, from the California Advanced Services Fund (CASF), Amounting to \$7,893,700.**

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**Summary**

This Resolution adopts contingent funding for the California Valley Broadband (CVB) project, amounting to \$7,893,700 from the California Advanced Services Fund (CASF). The amount granted represents 10% of the project costs to provide broadband service to unserved and underserved areas in accordance with Commission Resolution (Res.) T-17143 and Decision (D.) 09-07-020.

**Background**

On December 20, 2007, the Commission approved D.07-12-054 which established the two-year CASF program to provide matching funds of up to 40% of the total project costs for the deployment of broadband infrastructure in unserved and underserved areas in California.<sup>1</sup> Resolution T-17143, approved on June 12, 2008, adopted application requirements, scoring criteria for the award of funds, and a prescribed timeline for other filings and notifications, including a projected Commission Meeting date for final approval of award(s). This same Resolution directed interested applicants seeking funding for unserved and underserved projects, to file their project proposals and funding requests beginning July 24, 2008.

D.07-12-054 limited the extension of CASF funding to:

- Entities with CPCNs that qualify as “telephone corporations” as defined in § 234 of the Public Utilities Code (PU Code);

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<sup>1</sup> SB 1193 (Chapter 393, Stats. of 2008) established the California Advanced Services Fund as a new public purpose program.

- Wireless carriers registered with the Commission and have been granted a Wireless Identification Number (WIR);
- Entities who have pending applications for a CPCN; and
- A consortium with a member holding a CPCN or a WIR who will serve as the fiscal agent of the consortium (D.07-12-054 at pgs. 33-35, mimeo).

On July 9, 2009, the Commission issued D.09-07-020 establishing new schedules and plans for the filing, review and approval of an additional round of broadband project requests. While retaining the CASF 40% matching grant process, D.09-07-020 modified the CASF grant to extend 10% matching funds to the applicant provided the remaining 80% of the project cost is funded by the federal government's American Recovery and Reinvestment Act (ARRA) <sup>2</sup> and 10% is provided by the applicant.

On July 29, 2009, Governor Schwarzenegger signed Assembly Bill (AB) 1555 (Chapter 24, Statutes of 2009), amending Section 281 of the PU Code to expand CASF eligibility to any entity applying for CASF funding in conjunction with their ARRA funding request provided that entity satisfies the eligibility requirement for CASF funding. AB 1555 also provides that the Commission establish requirements and guidelines for non-certificated applicants.

On October 29, 2009, the Commission approved Resolution T-17233 establishing application requirements and guidelines for non-certificated applicants and broadband providers applying for CASF grant money, in conjunction with an application for ARRA funding, to develop and deploy broadband infrastructure.

As of December 17, 2009, \$57.61 million has been granted for 38 projects covering 11,045 square miles, benefiting 115,706 potential households as follows:

- Unserved- \$12.04 million, 17 projects, 4,303 square miles, and 33,327 households
- Underserved- \$45.57 million, 21 projects, 6,742 square miles, 82,379 households.

## **Notice/Protests**

On July 28, 2009, the Census Block Group (CBG) list for CVB's project by county was posted on the Commission's CASF website page under "(1) UNSERVED areas proposed to be served as of July 17, 2009: Census Block Groups (CBGs)," and (2) UNDERSERVED areas proposed to be served as of July 17, 2009: Census Block Groups (CBGs)". Subsequently when CVB amended their application, removing some CBGs and adding additional CBGs, the additional CBGs were posted to the CASF website page as of October 5, 2009. Challenges were filed against the list of CBGs posted as of July 17, 2009

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<sup>2</sup> The American Recovery and Reinvestment Act (ARRA) appropriates \$7.2 billion for grants and loans to support broadband deployment on a national level. ARRA offers a unique and ground breaking opportunity for California to partner with the federal government and other state agencies in advancing the goal of bridging the digital divide.

and October 5, 2009. Communications Division (CD) proceeded to review and analyze the proposed project areas to verify that they were indeed unserved and/or underserved as of the applicant's filing date.

## **Discussion**

This Resolution adopts contingent funding of \$7,893,700 for the proposed CVB project in the Central Valley and associated Delta communities. This project is described in detail in Appendix A, pages A-1 to A-19. Maps of the proposed project can be found in Appendix A, pages A-20 and A-21. The total project cost is estimated at \$78,937,009 of which 10%, or \$7,893,700, is being requested from CASF as a match to CVB's 80% ARRA fund request.

On July 17, 2009, CVB submitted a project proposal under U-4228-C for the unserved and underserved areas of the Central Valley region, as a certificated carrier as required by Res. T-17143. CVB's proposed project cost was \$102,474,691. Subsequently, CVB amended its original application for CASF grant funding by submitting an amended application on October 5, 2009, as a non-certificated applicant pursuant to AB 1555, after addressing issues raised by the Commission during its review of the original grant application. In this amended application, CVB also reduced their CASF funding request to \$8,216,583 and reduced the number of proposed CBGs for both unserved and underserved areas from a total of 822 CBGs to 549.

CVB is a consortia of the principals of Moreno Trenching Ltd, Mika Telecom Group, and MT2 Telecom, LP, formed in May 2009 to develop the CVB project. CVB's principals have extensive experience in wireless communications, engineering construction and design.

CVB's project proposes to deploy a fixed wireless network using two unregulated (WiFi) frequencies and one licensed (WiMAX) frequency that will deliver high speed internet services to the seven county region of the Central Valley, which includes Sacramento, Solano, San Joaquin, Stanislaus, Merced, Madera, and Fresno counties. CVB will also provide services for Voice over IP (VoIP) or permit other VoIP services to be used on the network. CVB asserts that wireless distribution is the most cost effective method to distribute bandwidth over such a large and diverse area. The proposed network will utilize 120 existing co-locatable tower facilities for approximately 90% of its access point facilities in the first year of deployment, and will construct ten (10) new site towers with copper backhaul Dual T-1's in year two. This technology allows for the most expedient deployment to over 90% of the proposed unserved and underserved households within the project's coverage area. The CVB network anticipates utilizing redundant multi-point to point licensed Motorola PTP 800 Ethernet bridge microwave units for the backhaul to fiber links, and between primary towers. Each county covered will have three licensed Motorola PTP 800 backhaul to fiber links, feeding into the CVB network's primary tower location. According to CVB, the fiber backhaul will be

provided by any one or combination of three different providers; CENIC, Comcast and/or Qwest. The fiber backhaul is the first choice to deliver broadband to the network because a fiber connection to each county will deliver up to 7 Gbps to the network through intranet connections across the proposed network. Each primary tower will also be equipped with 2 licensed Ethernet bridge microwave units. The network will be managed and controlled from a single network operating center (NOC) located within the project area and staffed for network monitoring and second tier support. Once full radio frequency engineering is performed, repeater sites will be dispersed to provide necessary access and signal strength to the communities and households applying for service. CVB will deploy an average of 0.5 repeater sites per primary site for a total of 65 repeater tower sites. The network will consist of Access Point broadcast radios transmitting broadband signal to Subscriber Unit radios, installed at the customer premise that will be owned and maintained by CVB.

The total proposed network footprint represents 8803 square miles, seven counties, and includes an estimated 40,905 potential unserved households and 36,290 potential underserved households by CBG. CVB applied the percentage of land area covered by the BBTF map in the applicable CBG to the number of housing units within the borders of the respective CBG to determine the number of unserved and underserved households. The CVB project will partner with a wireless service provider to provide wireless internet service. CVB estimates that the project would be completed within 24 months from the beginning of construction.

CVB proposes to offer high-speed internet access service at speeds of up to 20 mbps download and up to 6 mbps upload. The following table outlines CVB's initial product and pricing service strategy. CVB's proposal includes a 3-year term commitment which guarantees this pricing program for three (3) years. CVB's Terms of Service include a 30-day money back guarantee with any 1-year or 2-year subscription plan. Customers with a one or two year plan may cancel the agreement for any reason by delivering written notice to Provider at any time within 30 days after the effective date of the Agreement. Non-recurring charges include a basic installation fee for non-term agreement equal to \$150 for a single computer. Installation of home network is optional; the fee is \$125 and includes Wireless Router. Network services will be provided for \$75 per hour of technician time on site plus travel. CVB's business terms and conditions will apply to all customer accounts.

**California Valley Broadband, LLC Proposed Broadband Services and Pricing**

<b>Service Delivery</b>	<b>Basic Service Near-Line-of-Sight (NLOS)</b>	<b>Hi-Speed Service Line-of-Sight (LOS)</b>	<b>Premium Service Line-of-Sight (LOS)</b>
Price	\$34.95	\$44.95	\$54.95
Down Load	3.3 Mbps	6 Mbps	20 Mbps
Up Load	3.3 Mbps	6 Mbps	4.2 Mbps
Est. Take Rate	33.3%	33.3%	33.3%

CVB asserts that California’s Central Valley is a region of severe unemployment and very high foreclosure rates. With the deployment of CVB’s project, more households and businesses in the region will have access to broadband service, and nearly 560 construction and related jobs is expected to be created. This job creation is an economic benefit to the Central Valley communities served.

According to CVB, this project is a proposal to cover the small and large “pockets” of diverse unserved and underserved communities, households and businesses through the seven county region of the Central Valley using wireless technology. As such, the project will bring broadband access to potential new subscribers, create jobs, reduce the poverty level, stimulate economic output and growth, and improve the lives of the residents of the Central Valley area.

For qualification purposes under the CASF program, unserved areas are defined as areas not served by any form of facilities-based broadband, or where internet connectivity is available only through dial-up service or satellite. Likewise, underserved areas are defined as areas where broadband service is available but no facilities-based provider offers service at speeds of at least 3 mbps download and 1 mbps upload.

Communications Division (CD) reviewed CVB’s project eligibility through analysis of the required submitted data. These data include, but are not limited to: descriptions of current and proposed broadband infrastructure; Geographic Information System (GIS) formatted Shapefiles mapping the subject areas; assertion that the area is unserved and/or underserved; potential subscriber size and household incomes; project construction schedule; project budget; proposed pricing and commitment period for new subscribers; and, financial qualifications of the applicant. In addition, CD reviewed the submitted Shapefiles, which mapped the broadband deployment proposed using United States 2000 Census data, the January, 2008, Broadband Task Force Report (BBTF) including its on-line maps, and the revised August 10, 2009, California Broadband Task Force (CBTF) maps, among others.

In the original July 17, 2009 application, AT&T, Comcast, Digital Path, Kerman Telephone, Ponderosa, Sierra Telephone, SureWest, and Verizon formally challenged 404 out of 503 unserved CBGs and 196 out of 319 underserved CBGs. In response to these challenges and to incorporate CVB organizational changes since its initial filing, CVB amended its application on October 5, 2009, this time as a non-certificated applicant pursuant to AB 1555. In its amended application, CVB removed 266 unserved and 19 underserved CBGs, which were previously posted to the CASF website as of July 17, 2009, and also added 12 underserved CBGs. In summary, CVB's proposed application covers 237 unserved CBGs and 312 underserved CBGs. The additional CBGs and corresponding area map was posted on the CASF website.

AT&T further challenged CVB's amended October 5, 2009 application. Upon further review, CD staff determined that portions of four challenged CBGs served by AT&T should be removed from CVB's proposal.

As part of its review of the amended application, CD analyzed the CVB project to verify that the areas proposed to be served by CVB did not coincide with areas shown as served and not unserved or underserved on the updated broadband availability maps. CD staff overlaid the Shapefiles submitted by CVB to the updated California Broadband Task Force (CBTF) report maps and challenged areas to verify the broadband speeds in the proposed area. CD staff used this same method of overlaying Shapefiles applicants submitted onto the CBTF maps to determine which areas in a CBG are served, unserved or underserved. CD staff then met with CVB to discuss challenges to the proposed areas.

For the unserved areas proposed, CD identified CBGs as already partially served, totally served, or where approval is already pending for applicants other than CVB. CVB responded to the challenges by removing project areas identified on the maps as served or pending CASF approval, further reducing the total unserved CBGs to 216.

For the underserved areas proposed and challenged, CVB responded by removing portions of project areas identified on the maps as pending CASF approval. With respect to the other challenged CBGs, CVB rebutted these challenges through submission of survey results from competitive broadband providers, including advertisements, inquiries and scripts with customer service reps, attesting to competitive download speed offerings from 768 kbps to 20 mbps and upload speeds ranging from 128 kbps to 896 kbps. After discussion between CD staff and CVB, it was determined that the challenges filed to CVB's underserved areas, other than the areas already pending CASF approval, are not valid.

Based on challenges received and CD staff's verification of CVB's proposal, CD staff determined that 219 unserved CBGs and 296 underserved CBGs are eligible for CASF funding.

The CVB project is subject to CEQA. The Commission cannot authorize the disbursement of funds and CVB cannot conduct ground breaking activities until completion of CEQA review. CVB, prior to the first 25% payment, must identify any other special permit requirements and will provide those with a cross-reference to the government agencies from which the permits will be or have been required for this project.

CVB is required to comply with all the guidelines, requirements, and terms and conditions associated with the granting of CASF funds for non-licensed broadband providers as specified in the ordering paragraphs of Res. T-17233, such as 1) the requirement to post a performance bond equal to the total amount payable under this CASF award, or 10% of the project costs within five business days after completion of the California Environmental Quality Act (CEQA) review; 2) the requirement to submit the information sheets in Appendices 1 and 2 of Res. T-17233 within 10 business days from the effective date of Res. T-17233 as part of their application; 3) the condition that all applicants must agree in writing to allow the Commission to inspect the applicant's accounts, book, papers, and documents related to the application and award of CASF funds; and 4) the requirement to comply with all the guidelines, requirements and conditions associated with the granting of CASF funds as specified in Res. T-17143, including, but not limited to, the submission of Form 477 annually to the Federal Communications Commission. Failure to comply may result in the voiding of the grant.

The receipt of the CASF grant is contingent on CVB's compliance with the requirements in Res. T-17233 and Res. T-17143; and receipt of 80% ARRA funding.

### **Payments to CASF Recipients**

Submission of invoices from and payments to CVB shall be made in accordance with Section IX of Appendix A of Resolution T-17143 and according to the guidelines and supporting documentation required in Resolution T-17143.

Payment to CVB shall essentially follow the process adopted for funds created under Public Utilities Code §270. The following table describes the timeline for processing CASF payments.

Event	Payment Cycle 1 (Day/Month)	Payment Cycle 2 (Day/Month)
Invoices due from California Valley Broadband Telecommunications, Inc. to CD	5 <sup>th</sup> of Month 1	20 <sup>th</sup> of Month 1
Payment letters from CD to Information and Management Services Division (IMSD) <sup>3</sup>	On 19 <sup>th</sup> of Month 1	On 4 <sup>th</sup> of Month 2
Invoices submitted from IMSD to State Controller's Office (SCO) for payments	20 <sup>th</sup> through 26 <sup>th</sup> of Month 1	5 <sup>th</sup> through 13 <sup>th</sup> of Month 2

CVB may submit its invoices under Payment Cycle 1 or 2.

If any date in this payment schedule falls on a weekend or holiday, that date will be advanced to the next business day but the remaining dates in the payment schedule will remain unchanged. The SCO requires 14 to 21 days to issue payment from the day that requests are received by SCO.

**Comments on Draft Resolution**

In compliance with PU Code § 311(g), a notice letter was emailed on November 3, 2009, informing a) all CASF applicants filing under D.09-07-020, and b) parties on the service list of R.06-06-028 of the availability of the draft of this Resolution for public comments at the Commission's website <http://www.cpuc.ca.gov/static/documents/index.htm>. This letter also informed parties that the final conformed Resolution adopted by the Commission will be posted and will be available at this same website.

The following parties filed public comments: Comcast Phone of California, LLC (Comcast), Division of Ratepayer Advocates (DRA), Etheric Networks Inc. (Etheric), Kerman Telephone Company (Kerman), The Ponderosa Telephone Company (Ponderosa), and Sierra Telephone Company (Sierra).

Opening Comments

*I. Comcast*

Comcast listed CBGs where it already provides broadband service with speeds of 6 mbps download and 1 mbps upload. Comcast commented that duplicative areas

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<sup>3</sup> The above schedule is contingent on the CASF recipient submitting clear, complete, and error-free invoices to CD. Additional time to process payments may be necessary if CD finds problems with the submitted invoices.

should be disallowed and CVB should adjust its CASF funding request accordingly. In addition, Comcast indicated that the project detail in Appendix A shows some of the CBGs listed twice under the unserved and the underserved category. Comcast recommends that Appendix A be corrected to reflect the correct number of CBGs. Lastly, Comcast states that CVB's proposal should be limited to 7500 per census block as defined by NTIA.

## *II. DRA*

DRA recommended that CVB explain its methodology for calculating the number of households for both the Middle and Last Mile projects.

“The middle mile portion of the project will not directly serve households. However, the Draft Resolution states that CVB will serve 41,313 unserved households and 44,210 underserved households”.

Second, DRA suggested this Resolution be revised to state the amounts of funding allocated for material and equipment, and the amounts for installation and labor costs. It also stated that CVB should explain how it proposes to allocate project costs between the unserved and underserved areas. Further, the Commission should more thoroughly review CVB's application against up-to-date and accurate service maps to ensure that the CBGs that CVB proposes serving are in fact unserved or underserved. Lastly, the Commission should include an audit requirement in the Resolution.

## *III. Etheric*

Etheric submitted comments which questioned CVB's cost per household of \$1,100 and CVB's level of inexperience with broadband service. In addition, it stated that CVB does not offer any private capital and has no existing operation.

## *IV. Kerman, Ponderosa and Sierra*

Kerman stated that it currently provides service to several CBGs listed in this proposal with speeds of up to 5 or 6 mbps upload and download. Kerman recommends the Resolution eliminate the CBGs in question and adjust funding accordingly.

Ponderosa stated that it offers broadband service with speeds of up to 6 mbps to customers in its wireline service territory. Ponderosa stated that it will extend service to those remote areas where it does not currently provide broadband. Ponderosa recommends the Resolution eliminate the CBGs currently in their service territory and adjust funding accordingly.

Sierra stated that it currently provides service to several CBGs listed in this proposal with download speeds of at least 3 mbps and upload speeds of 1 mbps. Sierra recommends the Resolution eliminate the CBGs in question and adjust funding accordingly.

Reply Comments

*I. CVB's Replies:*

*A. To Comcast's comments*

CVB stated that it conducted a website review of Comcast's advertised download and upload speeds and contacted Comcast's customer service to inquire about the speeds Comcast currently offers. Both Comcast's advertisement and customer services inquiries confirmed that Comcast currently provides broadband with speeds of 6 -12 mbps download and 500 – 2 mbps upload with Power Boost.<sup>4</sup>

CVB clarified that there is no duplication of household counts between its proposed unserved and underserved areas. To support its position, CVB overlaid the CBTF with the U.S. Census Bureau CBG mapping to calculate the portions of a CBG that is unserved or underserved. CVB applied the percentage of that CBG land area to the number of household units to determine the number of unserved and underserved units.

*B. To DRA's comments*

With regard to the methodology for calculating the number of households in the unserved and underserved areas, CVB explained that it overlaid the CBTF map with the U.S. Census Bureau CBG map to calculate the portions of the CBG that is unserved and underserved. CVB then applied the percentage of that CBG land area to the number of household units to determine the number of unserved and underserved units.

*C. To Etheric's Comments*

With regard to Etheric's comment on the cost per household, CVB's CASF amended application filed on October 5, 2009 which reflects the adjusted cost per potential customer of \$960 per household is 17% more than the \$800 average cost. In addition, while CVB does not currently offer broadband service, it has nearly 30 years

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<sup>4</sup> PowerBoost is a patent pending Comcast network technology that enables you to experience faster connection speeds while you are downloading and uploading large files to the Internet by PowerBoost leveraging additional capacity that is already built into Comcast's advanced network.

experience in civil/utility engineering and 15 years experience in wireless project development, engineering, leasing/permitting and deployment.

With regard to Etheric's concern on private capital, CVB stated that it will provide 10% matching funds of \$8,033,433 to the total project cost.

*D. Kerman's, Ponderosa's and Sierra's Comments*

With regard to Kerman's comment on areas already served by Kerman, CVB contacted Kerman and was informed by staff that there are pockets of fiber service that provide 3 mbps download and 1 mbps upload. The remaining areas have copper line with broadband speeds of up to 6 mbps download and .512 kbps upload.

In response to Ponderosa's comment on areas already served by Ponderosa, CVB provided CD staff with a printout of Ponderosa's advertisement indicating that broadband with speeds of 6 mbps/512 kbps and 3 Mbps/384 kbps is currently being offered to customers.

With regard to Sierra's comment on areas already served by Sierra, CVB stated that it proposes to serve only those unserved portions of the CBG as identified by the CBTF. Additionally, CVB only included in its proposal those areas where the CBTF mapping indicates speeds between 500 kbps - 5 mbps. CVB further stated that Sierra advertises speeds ranging from 786 kbps down/256 kbps up to 3 mbps down/1 mbps up on its website and CVB is unable to determine those areas with the 3 mbps/1mbps minimum service required per Res. T-17143.

*II. Comcast Replies*

Comcast filed additional reply comments on November 23, 2009 and stated that while CVB tried to contest the upload and download speeds offered by Comcast, Comcast maintains that CVB effectively admits that Comcast provides the required 1mbps upload and 3 mbps download speed.

*Staff Responses on Comments Filed*

In evaluating challenges, CD staff recognizes that CBGs cover broad areas and that challenges filed regarding a particular CBG does not necessarily mean that the entire CBG is actually served. Thus, in evaluating challenges filed, CD staff requests from challengers' additional information such as maps of served areas, speeds offered and subscriber information to verify the veracity of the challenges.

CD staff agrees with Comcast's first comment. Comcast explained that it currently provides broadband with download speeds of 6 mbps and upload speed of 1 mbps

in its territory. Comcast further explained that its website does not indicate the speeds offered nor can a customer service representative confirm the exact speed because Comcast’s website and customer service is intended for its nationwide customer base and not California specific. CVB could not provide additional information or proof to the contrary. Therefore, CD requested CVB to remove these CBGs and adjust its funding request accordingly.

While the project detail in Appendix A shows some of the CBGs listed as unserved and underserved, CD staff has determined that there is no duplication in areas and therefore, no duplication in cost.

With regard to Comcast’s comment on NTIA’s limit of accessible records for each census block level to 7500, CD staff notes that the Commission shall use existing definitions of census block groups for unserved and underserved areas when reviewing applications eligible for CASF funding.

With regard to DRA’s comment regarding the calculation for middle and last mile, CVB corrected its application and this Resolution has been changed to reflect the correct project description to a last mile project. In the issue of the number of households for the unserved and underserved areas, CD accepts CVB’s calculation methodology.

In answer to DRA’s second comment regarding project cost, below is CVB’s project cost breakdown:

Site Acquisition, Engineering and Construction Costs All Towers excluding Radio Cost	\$17,884,457
Backhaul Radio Equipment	\$8,850,639
Broadcast Equipment Network	\$8,909,453
Eligible Termination and Installations Costs	\$34,803,140
CVB Broadband Network and Termination Costs	\$70,447,688
Qualifying Operational CapEx Two Years	\$6,215,954
Contingency @ 5% on Construction and Operational Cost	\$2,273,367
<b>Total CapEx for Infrastructure over Two Years</b>	<b>\$78,937,009</b>

With respect to DRA’s comment regarding reviewing the application against up-to-date service maps, D.09-07-020 provides a new schedule for filing, review and approval of CASF applications. CD reviewed this project by analyzing required data provided by the applicant including but not limited to shapefiles mapping the subject area against the CBTF updated maps (August 10, 2009). The CBG list for this project appeared by county on the Commission’s CASF website to give other broadband providers the opportunity to challenge the CBGs.

CD's analysis started from the date (July 17, 2009) that the applicant submitted the application for the proposed area. Based on Res. T-17143, the applicant's assertion that the area is unserved or underserved is as of the date of submission. It is not fair to the applicant or administratively feasible to continuously update and review that the areas already deemed unserved or underserved by CD.

In answer to DRA's fourth comment that this resolution should include an audit requirement, all CASF resolutions have an Ordering Paragraph that the Commission has the right to conduct any necessary audit, verification, and discovery during project implementation/construction to ensure that CASF funds are spent in accordance with Commission approval.

With regard to Etheric's comment regarding the cost per household, we note that CASF project costs cannot be standardized precisely because not all areas have the same topographical characteristics, the same demographics or can be served by the same technology or infrastructure. It would not be consistent with the goals of the CASF to deprive residents in areas of the State from receiving broadband service simply because they live in areas that are more costly to serve.

Regarding Etheric's comment questioning CVB's experience, the CVB project will partner with a wireless service provider that has broadband service experience to provide wireless internet service.

Regarding Etheric's concern that CVB makes no capital commitment, CVB will provide 10% matching funds or funds equal to the total amount payable under this CASF award to this project.

CD agrees with Kerman's comment and recommendation that this Resolution eliminate those CBGs where Kerman already provides broadband service in with speeds of at least 3 mbps download and 1 mbps upload. Kerman provided CD staff with a map of those areas within their service territory that already have broadband service with speeds of at least 3 mbps download and 1 mbps upload. In addition, Kerman provided CD staff with a list of customers who currently subscribe to broadband from Kerman with speeds of at least 3 mbps download and 1 mbps upload. CD contacted these customers and verified that the information provided by Kerman is correct. Consequently, CD will disallow those areas within Kerman's territory verified to have the minimum speed requirements from this Resolution.

With regard to Ponderosa's comment on areas already served by Ponderosa, CVB provided CD staff with a printout of Ponderosa's advertisement of broadband service offers to customers with speeds of 6.0 mbps download/512 kbps upload and 3.0 mbps download/384 kbps upload. Since these speeds do not meet the minimum speed requirement of 3 mbps download and 1 mbps upload, CD will allow the following CBGs or areas within these CBGs in this Resolution: 060190055032,

060190055151, 060190055151, 060190064011, 060190064012, 060190064013, 060190064014, 060190064015, 060190064016, 060190064021, 060190064022, 060190064023, 060190064024, 060190064025, 060190064026, 060190064033, 060390001021, 060390001022, 060390001023, 060390001024, 060390001031, 060390004052, 060390001053, 060390001055 and 060390005091.

With respect to Sierra's comment on areas already served by Sierra, CD staff recommends disallowing CBGs 060390001032, 060390001033, 060390001034, 060390001054 where Sierra stated it provides broadband with the minimum speed requirement of 3/1 in its entirety.

CD staff had many conversations with Sierra's representative regarding the availability of broadband service speeds of 3/1 mbps in the "underserved" areas of CBGs 060390001021, 060390001031, 060390001051, 060390001053, 060390001022, 060390001052, and 060390001055 and in "unserved" areas of CBGs 060390001021, 060390001032, 060390001052, 060390001031, 060390001051, 060390001055. Sierra provided CD staff with 15 names and addresses of customers who subscribe to their broadband service in these CBGs. Except for one customer, CD staff verified that these customers were in areas within these CBGs already served and not included in CVBs proposal. Therefore, CD recommends that only that portion of CBG # 060390001005 already shown and verified by staff as already served will be disallowed.

## **Conclusion**

The Commission finds CD's recommended contingent CASF funds award for 219 unserved and 296 underserved areas in the CVB Last Mile project as discussed in this resolution and summarized in Appendix A to be reasonable and consistent with Commission orders, and, therefore, adopts such award.

CVB's contingent funding is based on 1) compliance with the requirements of Resolutions T-17233 and T-17143; and 2) receiving ARRA funding. If CVB is unable to obtain ARRA funding and, as a result, will not build its project, CVB should promptly notify the Director of CD so that CASF funds may be reallocated to other grants.

CVB is also required to post a performance bond and provide a copy of the bond to CD as directed in this resolution.

## **Findings**

1. The CASF was established as a two-year program that will provide matching funds of up to 40% of the total project costs for the deployment of broadband infrastructure in unserved and underserved areas in California.

2. Resolution T-17143, approved on June 12, 2008, adopts the application requirements and scoring criteria for the award of funds, a prescribed timeline for other filings, and notifications including a projected Commission Meeting date for final approval of award(s).
3. On July 9, 2009, the Commission issued D.09-07-020 approving a new CASF schedule and plan for an additional round of broadband projects that would complement broadband grants awarded under the federal government's American Recovery and Reinvestment Act (ARRA). While retaining the 40% matching grant process, the Commission in this Decision authorized providers an option of seeking a 10% grant from the CASF concurrent with efforts to seek an 80% grant from the ARRA fund.
4. On July 29, 2009, Governor Schwarzenegger signed AB 1555 (Chapter 24, Statutes of 2009), amending Section 281 of the Public Utilities Code expanding CASF eligibility to any entity applying for CASF funding in conjunction with their ARRA funding request provided that entity satisfied the eligibility requirement of r CASF funding.
5. On October 29, 2009, the Commission approved Resolution T-17233, which addresses the requirements for non-certificated or non-licensed broadband providers applying for CASF grant money in conjunction with their ARRA funding request.
6. A list of census block groups (CBGs) appeared by county for CVB's project was posted on the Commission's CASF website page on July 28, 2009 under "UNSERVED areas proposed to be served as of July 17, 2009: Census Block Groups (CBGs)", and "UNDERSERVED areas proposed to be served as of July 17, 2009: Census Block Groups (CBGs)." Subsequently additional CBGs appeared by county on the CASF website under "UNDERSERVED areas proposed to be served as of October 5, 2009." CD proceeded with its independent review and analysis of this project area to verify that it was unserved and/or underserved as of the applicant's filing date.
7. CVB filed an application on July 17, 2009, seeking 10% CASF funding under U-4228-C, and subsequently filed an amended application on October 5, 2009 as a non-certificated applicant pursuant to AB 1555.
8. CVB's project proposes to deploy a fixed wireless network that will deliver high speed internet services throughout the greater Central Valley region.
9. CVB's proposed network will utilize 120 existing co-locatable tower facilities for approximately 90% of its access point facilities in year one and will construct ten (10) new site towers with copper backhaul Dual T-1's in year two. CVB proposes to deploy three different wireless frequencies (900 MHz, 2.4 GHz, 3.65 GHz) using WiFi or WiMAX protocols.
10. CVB's proposed project will deploy two different microwave frequencies for its Middle Mile, and fiber backhaul. Each county covered will have 3 licensed Motorola PTP 800 backhaul to fiber links, feeding into the CVB networks' primary tower

locations. The fiber backhaul connections will be provided by any one or combination of three different providers; CENIC, Comcast and/or Qwest.

11. Unserved areas are defined as areas not served by any form of facilities-based broadband, or where internet connectivity is available only through dial-up service or satellite.
12. Underserved areas are defined as areas where broadband is available but no facilities-based provider offers services at speeds of at least 3 mbps download and 1 mbps upload.
13. CD reviewed CVB's project eligibility based on criteria in Resolution T-17143. These data include, but are not limited to: proof of Certificate of Public Convenience and Necessity (CPCN) registration; descriptions of current and proposed broadband infrastructure; geographic information system (GIS) formatted Shapefiles mapping the subject areas; assertion that the area is underserved; potential subscriber size and household incomes; project construction schedule; project budget; proposed pricing and commitment period for new subscribers; and, financial qualifications of the applicant.
14. CD reviewed the shapefiles, which mapped the broadband deployment, using sources including, but not limited to, the United States 2000 Census data, the January, 2008, Broadband Task Force Report, and the revised August 10, 2009, California Broadband Task Force map, among others. These maps helped to verify the existence or non-existence of broadband service areas and broadband speeds, where available.
15. After its review, CD determined that 219 unserved CBGs and 296 underserved CBGs are eligible for CASF funding.
16. CVB's project is subject to the California Environmental Quality Act (CEQA). The Commission must complete CEQA review prior to disbursing CASF funds for construction activities.
17. CVB is required to post a performance bond equal to the total amount payable under this CASF award, or 10% of the project cost, and provide a copy of the bond to CD within five business days after the completion of the CEQA review, in accordance with the existing CASF funding rules. Failure to comply with this requirement may result in voiding of the grant.
18. CVB should comply with all guidelines, requirements, and conditions associated with the granting of CASF funds as specified in the ordering paragraphs of Resolutions T-17233 and T-17143 including but not limited to the submission of FCC Form 477 and Commission auditing requirements.
19. CVB should notify the Director of CD of the disposition of its ARRA application and CEQA review within 30 days of its knowledge of the status of the application and review.

20. If the CVB project will not be constructed, CVB should notify the Director of CD within 30 days of the decision that the project will not be constructed so that the committed CASF funds may be reallocated to other grants.
21. A notice letter was emailed on November 3, 2009, informing a) all applicants filing for unserved and underserved areas and, b) parties on the service list of R.06-06-028 of the availability of the draft of this Resolution for public comments at the Commission's website <http://www.cpuc.ca.gov/static/documents/index.htm>. This letter also informed parties that the final conformed Resolution adopted by the Commission will be posted and available at this same website.
22. Comments filed by Comcast Phone of California, LLC, Division of Ratepayer Advocates, Etheric Networks Inc., Kerman Telephone Company, The Ponderosa Telephone Company, and Sierra Telephone Company on or before November 18, 2009 are addressed in this Resolution.
23. The Commission finds CD's recommended contingent CASF award to CVB, for unserved and underserved areas in the CVB project and as discussed in this resolution and summarized in Appendix A, to be reasonable and consistent with Commission orders and should be adopted.

**THEREFORE, IT IS ORDERED that:**

1. The Commission shall award contingent funding of \$7,893,700 from the California Advanced Services Fund to California Valley Broadband (CVB) for its project to provide service in unserved and underserved areas as described in the Discussion section and summarized in Appendix A of this Resolution. The award is contingent on CVB receiving (1) an ARRA grant for 80% of the total estimated project cost, (2) compliance with the Ordering Paragraphs of Res. T-17233.
2. CVB shall post a performance bond equal to the total amount payable under this CASF award, or 10% of the project cost, and provide a copy of the bond to CD within five business days after completion of California Environmental Quality Act (CEQA) review in accordance with the existing CASF funding rules. Failure to comply with this requirement may result in voiding of the grant.
3. CVB shall comply with all guidelines, requirements, and conditions associated with the CASF funds award as specified in Resolutions T-17233, T-17143 and D.09-07-020 including but not limited to FCC Form 477 and Commission auditing requirements.
4. CVB shall notify the CD Director of the disposition of its ARRA application and work with the Commission's staff to complete CEQA review of the project. Failure to comply may result in voiding of the grant
5. If the CVB project will not be constructed, CVB shall notify the Director of CD within 30 days of the decision that the project will not be constructed so that the committed CASF funds may be reallocated for other grants.

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6. The program fund payment of \$7,893,700 for this Commission-approved unserved and underserved project shall be paid out of the CASF fund in accordance with the guidelines adopted in Resolutions T-17233, T-17143 and D.09-07-020.
7. Payments to CVB shall be in accordance with Section IX of Appendix A of Resolution T-17143 and in accordance with the process defined in the "Payments to CASF Recipients" section of this resolution.



**APPENDIX A**  
**California Valley Broadband, LLC**  
**California Valley Broadband - Project**  
**Key Information**

1	<i>Project ID</i>		
2	<i>Project Name</i>	<b>California Valley Broadband</b>	
3	<i>Project Plan</i>	California Valley Broadband (CVB) is a superior fixed wireless network. CVB anticipates utilizing a ‘tri-band’ deployment of two unregulated (WiFi) frequencies and one licensed (WiMAX) frequency to accommodate range, terrain, tree and other interference issues.	
4	<i>Project Size (in square miles)</i>	6,621 Unserved 2,183 Underserved	
5	<i>Download speed</i>	Up to 20 mbps	
6	<i>Upload speed</i>	Up to 6 mbps	
7	<i>Location</i>	Sacramento, Solano, San Joaquin, Stanislaus, Merced, Madera and Fresno Counties	
a)	<i>Community Name</i>	Avocado, Bretz Mill, Broadview Farms, Burrel, Calflax, Cantua Creek, Cedar Grove, Cedarbrook, Cella, Chaney Ranch, Clint, Conejo , Crabtree, Deer Crossing , Dunlap, Elk, Etheda Springs, Five Points , Giffen Cantua Ranch, Goodmill, Gravesboro , Hoffman Point, Hume, Hume Station	
		Kanawyers , Levis, Mercey Hot Springs, Minkler, Miramonte, Monmouth, Mono Hot Springs, Navelencia , Oro Loma , Oxalis, Panoche Junction, Parkfield Junction, Piedra , Piedra Post Office, Pilibos Ranch, Pinehurst, Rodgers Crossing, Schilling, Squaw Valley, Three Rocks, Vanguard	
		Westhaven , Westside, Wildflower, Wood Ranch , Berenda , Bonita, Central Camp, Daulton, Italian Swiss Colony, Kismet, La Vina, Trigo, Whisky Falls, Athlone, Ballico, Brito, Cortez, Cortez, Cressey, Dos Palos Y, Hamburg Farms, Hopeton, Ingomar, Merced Falls, Santa Rita Park, Snelling	
		South Dos Palos, Stevinson, Bruceville, Clay, Emmaton, Herald, Point Pleasant, Burnham, Cometa, Dogtown, Gillis, Holt, Mokelumne City, Mossdale, New Hope, San Joaquin River Club, Thornton, Trull, Van Allen, Vernalis, Allendale, Birds Landing, Bucktown, Bunker, Chipps, Collinsville, Creed	
		Cygnus, Denverton, Dozier, Dutton, Jacksnipe, Maine Prairie, Meins Landing, Montezuma, Olcott, Oxford, Pierce, Rio Vista Junction, Spoonbill, Toland Landing, Vale, Woodward, Yolano, Cooperstown, Eugene, Hatch, Jet, Knights Ferry, La Grange	
		Montpelier, Ohm, Paulsell, Solyo, Stomar, Valley Home, Warnerville, Westley	

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b)	<i>CBGs/Household Income</i>	<u>UNSERVED</u>	
		060190015002	\$37,007
		060190016001	\$43,026
		060190016002	\$35,972
		060190017004	\$39,063
		060190018003	\$42,500
		060190019001	\$41,667
		060190019003	\$30,385
		060190038033	\$50,833
		060190039002	\$28,594
		060190039003	\$23,262
		060190039004	\$29,583
		060190039005	\$27,895
		060190041001	\$46,429
		060190055152	\$77,073
		060190059021	\$54,567
		060190059022	\$70,000
		060190059024	\$36,250
		060190059025	\$21,932
		060190059042	\$45,250
		060190063001	\$60,331
		060190063002	\$52,188
		060190064012	\$69,375
		060190064014	\$44,700
		060190064015	\$55,682
		060190064016	\$30,000
		060190064021	\$61,563
		060190064022	\$53,224
		060190064025	\$20,417
		060190064031	\$25,455
		060190064032	\$32,368
		060190064033	\$29,850
		060190064034	\$43,884
		060190064035	\$33,785
		060190065001	\$23,912
		060190069003	\$35,000
		060190073001	\$37,404
		060190073003	\$42,813
		060190073005	\$48,030
		060190074001	\$25,982
		060190074002	\$34,250
		060190075001	\$29,821
		060190075003	\$29,821
		060190076001	\$33,043
		060190076002	\$31,538
		060190076003	\$40,938
		060190077001	\$35,391

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 CD/MA1

		060190077004	\$25,455
		060190078001	\$31,399
		060190078002	\$21,250
		060190079001	\$31,771
		060190079002	\$47,159
		060190080001	\$43,929
		060190080003	\$58,203
		060190082001	\$28,269
		060190082003	\$30,250
		060190082006	\$27,467
		060190083022	\$24,766
		060190083023	\$27,969
		060190084015	\$29,875
		060190084021	\$25,769
		060190084022	\$27,981
		060390001021	\$28,281
		060390001023	\$35,304
		060390001031	\$37,831
		060390001051	\$37,039
		060390001052	\$47,500
		060390001053	\$36,190
		060390001055	\$38,913
		060390002002	\$26,719
		060390002003	\$31,111
		060390002004	\$32,841
		060390004001	\$33,750
		060390004002	\$29,875
		060390005031	\$30,750
		060390005032	\$39,265
		060390005033	\$49,468
		060390005061	\$45,729
		060390005072	\$43,375
		060390005073	\$31,319
		060390005081	\$43,281
		060390005091	\$60,139
		060390010001	\$47,188
		060390010002	\$66,599
		060390010003	\$29,432
		060390010004	\$26,750
		060470001001	\$32,065
		060470001002	\$26,964
		060470002001	\$34,625
		060470002002	\$43,468
		060470002006	\$24,412
		060470003013	\$36,016
		060470003031	\$35,644
		060470003032	\$39,500
		060470004002	\$50,183

Resolution T- 17245  
 CD/MA1

		060470004003	\$52,778
		060470004004	\$35,000
		060470004005	\$50,341
		060470004006	\$36,129
		060470005032	\$36,375
		060470005051	\$35,769
		060470009011	\$31,328
		060470009012	\$25,739
		060470009013	\$35,583
		060470009031	\$71,923
		060470019011	\$36,458
		060470019022	\$41,641
		060470020005	\$39,028
		060470020006	\$40,427
		060470021001	\$34,145
		060470021002	\$30,481
		060470021003	\$44,018
		060470024001	\$30,227
		060470024002	\$32,991
		060470024003	\$17,650
		060470024004	\$28,073
		060670094031	\$68,438
		060670094032	\$40,987
		060670094041	\$71,250
		060670094042	\$69,444
		060670094053	\$30,761
		060670094061	\$73,125
		060670094062	\$62,679
		060670095011	\$33,214
		060670096041	\$39,464
		060670096042	\$77,059
		060670096051	\$35,313
		060670096182	\$65,938
		060670097001	\$34,625
		060670097002	\$43,750
		060670097004	\$44,063
		060670098001	\$34,970
		060770031061	\$60,804
		060770031081	\$64,833
		060770031141	\$66,354
		060770032151	\$65,580
		060770038032	\$28,906
		060770038034	\$33,125
		060770039001	\$31,944
		060770039002	\$51,750
		060770040011	\$32,500
		060770040012	\$27,404
		060770040021	\$85,000

Resolution T- 17245  
 CD/MA1

		060770041031	\$43,984
		060770041033	\$55,089
		060770041041	\$76,504
		060770046001	\$55,179
		060770046002	\$45,427
		060770046004	\$57,794
		060770047011	\$40,179
		060770047021	\$46,053
		060770047022	\$52,466
		060770047023	\$65,000
		060770047024	\$68,000
		060770048001	\$46,786
		060770048002	\$49,688
		060770048003	\$39,911
		060770049021	\$52,727
		060770049023	\$42,095
		060770049024	\$34,167
		060770050031	\$42,143
		060770051061	\$40,625
		060770051062	\$55,474
		060770051111	\$31,875
		060770051191	\$38,958
		060770052021	\$44,519
		060770052032	\$73,194
		060770052033	\$62,321
		060770055001	\$26,500
		060770055002	\$60,114
		060770055003	\$81,027
		060952508001	\$17,188
		060952518043	\$71,635
		060952521021	\$49,020
		060952521022	\$65,855
		060952522021	\$75,375
		060952522022	\$70,982
		060952523073	\$99,442
		060952527025	\$78,548
		060952529031	\$76,725
		060952529032	\$69,514
		060952529033	\$93,371
		060952529034	\$54,167
		060952533001	\$45,333
		060952533002	\$57,656
		060952535001	\$43,527
		060952535004	\$51,473
		060990001011	\$46,964
		060990001012	\$65,972
		060990001013	\$51,875
		060990001014	\$43,913

Resolution T- 17245  
CD/MA1

		060990001023	\$77,514
		060990005081	\$65,795
		060990005082	\$41,902
		060990005083	\$35,875
		060990005084	\$ 43,750
		060990015005	\$43,375
		060990028011	\$33,971
		060990028013	\$45,642
		060990028024	\$57,778
		060990029011	\$50,083
		060990031001	\$27,468
		060990031003	\$31,118
		060990031004	\$125,143
		060990031005	\$30,357
		060990032022	\$69,327
		060990032023	\$50,357
		060990033001	\$48,065
		060990033002	\$25,547
		060990033003	\$43,952
		060990033004	\$29,868
		060990034001	\$38,750
		060990034002	\$28,333
		060990035004	\$46,471
		060990036031	\$34,375
		060990036032	\$31,188
		060990036034	\$46,625
		060990036035	\$31,786
		060990036044	\$44,107
		060990037003	\$41,731
	<i>CBGs /Household Income</i>	<u>UNDERSERVED</u>	
		060190008009	\$24,167
		060190015002	\$37,007
		060190016001	\$43,026
		060190016002	\$35,972
		060190017004	\$39,063
		060190018001	\$25,741
		060190018003	\$42,500
		060190019001	\$41,667
		060190019002	\$31,932
		060190019003	\$30,385
		060190038031	\$28,261
		060190038033	\$50,833
		060190039002	\$28,594
		060190039003	\$23,262
		060190039004	\$29,583
		060190039005	\$27,895
		060190041001	\$46,429

Resolution T- 17245  
 CD/MA1

		060190042071	\$60,521
		060190043011	\$120,268
		060190055032	\$29,375
		060190055111	\$71,767
		060190055112	\$59,167
		060190055151	\$30,507
		060190055152	\$77,073
		060190059022	\$70,000
		060190059024	\$36,250
		060190059042	\$45,250
		060190061005	\$31,250
		060190063001	\$60,331
		060190064011	\$32,985
		060190064012	\$69,375
		060190064013	\$47,727
		060190064014	\$44,700
		060190064015	\$55,682
		060190064016	\$30,000
		060190064021	\$61,563
		060190064022	\$53,224
		060190064023	\$48,472
		060190064024	\$50,417
		060190064025	\$20,417
		060190064026	\$49,750
		060190064033	\$29,850
		060190064034	\$43,884
		060190065001	\$23,912
		060190065002	\$22,404
		060190065003	\$21,691
		060190065004	\$22,426
		060190065005	\$32,045
		060190068011	\$25,101
		060190068021	\$32,679
		060190068022	\$31,250
		060190069001	\$26,458
		060190069002	\$39,625
		060190069003	\$35,000
		060190070041	\$37,361
		060190071003	\$26,250
		060190072011	\$40,625
		060190072015	\$37,462
		060190072022	\$40,175
		060190073001	\$37,404
		060190073002	\$37,273
		060190073003	\$42,813
		060190073004	\$33,000
		060190073005	\$48,030
		060190074001	\$25,982

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 CD/MA1

		060190074002	\$34,250
		060190074003	\$35,091
		060190075001	\$29,821
		060190075002	\$32,292
		060190075003	\$29,821
		060190075004	\$46,944
		060190075005	\$37,361
		060190076001	\$33,043
		060190076002	\$31,538
		060190076003	\$40,938
		060190076004	\$38,264
		060190077001	\$35,391
		060190077002	\$28,472
		060190078002	\$21,250
		060190078003	\$18,836
		060190078004	\$29,167
		060190079001	\$31,771
		060190079002	\$47,159
		060190080001	\$43,929
		060190080003	\$58,203
		060190080004	\$24,783
		060190082001	\$28,269
		060190082002	\$44,107
		060190082003	\$30,250
		060190082006	\$27,467
		060190083013	\$23,864
		060190083021	\$17,348
		060190083022	\$24,766
		060190083023	\$27,969
		060190084013	\$41,761
		060190084015	\$29,875
		060190084016	\$25,938
		060390001021	\$28,281
		060390001022	\$41,283
		060390001023	\$35,304
		060390001024	\$39,444
		060390001031	\$37,831
		060390001051	\$37,039
		060390001052	\$47,500
		060390001053	\$36,190
		060390001055	\$38,913
		060390002001	\$41,339
		060390002002	\$26,719
		060390002003	\$31,111
		060390002004	\$32,841
		060390004001	\$33,750
		060390004002	\$29,875
		060390005031	\$30,750

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		060390005032	\$39,265
		060390005033	\$49,468
		060390005061	\$45,729
		060390005072	\$43,375
		060390005073	\$31,319
		060390005081	\$43,281
		060390005083	\$57,670
		060390005091	\$60,139
		060390007003	\$62,269
		060390010001	\$47,188
		060390010002	\$66,599
		060390010003	\$29,432
		060390010004	\$26,750
		060470001001	\$32,065
		060470002002	\$43,468
		060470002003	\$43,068
		060470002005	\$43,963
		060470002006	\$24,412
		060470003012	\$28,750
		060470003013	\$36,016
		060470003031	\$35,644
		060470003032	\$39,500
		060470003041	\$24,828
		060470004002	\$50,183
		060470004003	\$52,778
		060470004004	\$35,000
		060470004005	\$50,341
		060470004006	\$36,129
		060470005031	\$24,306
		060470005032	\$36,375
		060470005051	\$35,769
		060470007021	\$30,125
		060470009011	\$31,328
		060470009012	\$25,739
		060470009013	\$35,583
		060470018021	\$29,100
		060470019011	\$36,458
		060470019012	\$21,786
		060470019013	\$25,795
		060470019014	\$25,750
		060470019021	\$28,413
		060470019022	\$41,641
		060470020005	\$39,028
		060470020006	\$40,427
		060470021001	\$34,145
		060470021002	\$30,481
		060470021003	\$44,018
		060470022014	\$35,260

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		060470022021	\$49,198
		060470022023	\$49,286
		060470023011	\$52,209
		060470023021	\$51,993
		060670086001	\$92,213
		060670086002	\$83,979
		060670086003	\$39,615
		060670087012	\$49,125
		060670090053	\$46,705
		060670092001	\$54,861
		060670093151	\$91,122
		060670093152	\$84,076
		060670094031	\$68,438
		060670094032	\$40,987
		060670094041	\$71,250
		060670094042	\$69,444
		060670094043	\$70,104
		060670094044	\$65,938
		060670094053	\$30,761
		060670094061	\$73,125
		060670094062	\$62,679
		060670095011	\$33,214
		060670096041	\$39,464
		060670096042	\$77,059
		060670096051	\$35,313
		060670097001	\$34,625
		060670097002	\$43,750
		060670097003	\$40,179
		060670097004	\$44,063
		060670098001	\$34,970
		060770037002	\$38,611
		060770038034	\$33,125
		060770039001	\$31,944
		060770039002	\$51,750
		060770040011	\$32,500
		060770040012	\$27,404
		060770041023	\$34,861
		060770041031	\$43,984
		060770041032	\$68,913
		060770041033	\$55,089
		060770041041	\$76,504
		060770046001	\$55,179
		060770046002	\$45,427
		060770046003	\$33,558
		060770046004	\$57,794
		060770047011	\$40,179
		060770047021	\$46,053
		060770047022	\$52,466

Resolution T- 17245  
 CD/MA1

		060770047023	\$65,000
		060770047024	\$68,000
		060770047026	\$43,958
		060770048001	\$46,786
		060770048002	\$49,688
		060770048003	\$39,911
		060770048005	\$63,750
		060770049012	\$53,107
		060770049021	\$52,727
		060770049022	\$50,272
		060770049023	\$42,095
		060770049024	\$34,167
		060770050031	\$42,143
		060770050032	\$71,523
		060770050041	\$55,208
		060770051061	\$40,625
		060770051062	\$55,474
		060770051111	\$31,875
		060770051191	\$38,958
		060770051192	\$29,219
		060770052021	\$44,519
		060770052031	\$62,500
		060770052032	\$73,194
		060770052033	\$62,321
		060770055001	\$26,500
		060770055002	\$60,114
		060770055003	\$81,027
		060952508001	\$17,188
		060952517012	\$36,659
		060952517021	\$46,875
		060952518031	\$56,932
		060952521021	\$49,020
		060952521022	\$65,855
		060952522022	\$70,982
		060952523051	\$56,111
		060952523092	\$83,381
		060952527025	\$78,548
		060952529031	\$76,725
		060952529033	\$93,371
		060952529034	\$54,167
		060952531016	\$63,214
		060952532011	\$80,815
		060952532014	\$90,973
		060952533001	\$45,333
		060952533002	\$57,656
		060952534015	\$67,155
		060952534024	\$36,202
		060952534025	\$54,563

Resolution T- 17245  
 CD/MA1

		060952535001	\$43,527
		060952535004	\$51,473
		060990001011	\$46,964
		060990001012	\$65,972
		060990001013	\$51,875
		060990001014	\$43,913
		060990001021	\$57,857
		060990001023	\$77,514
		060990002011	\$46,607
		060990002012	\$56,827
		060990002022	\$36,750
		060990005012	\$49,250
		060990005081	\$65,795
		060990005082	\$41,902
		060990028011	\$33,971
		060990028013	\$45,642
		060990028023	\$37,333
		060990028024	\$57,778
		060990029011	\$50,083
		060990029012	\$31,339
		060990029013	\$47,917
		060990029014	\$37,208
		060990029015	\$46,528
		060990029024	\$38,750
		060990030021	\$48,092
		060990031001	\$27,468
		060990031005	\$30,357
		060990033004	\$29,868
		060990034001	\$38,750
		060990034002	\$28,333
		060990035002	\$40,833
		060990035004	\$46,471
		060990036031	\$34,375
		060990036033	\$34,650
		060990036034	\$46,625
		060990036035	\$31,786
		060990036041	\$45,000
		060990036043	\$33,603
		060990036044	\$44,107
c)	<i>ZIP Codes</i>	<i>Unservd</i>	
		95230	
		95307	
		95313	
		95316	
		95323	
		95326	
		95329	

Resolution T- 17245  
CD/MA1

		95355	
		95356	
		95357	
		95358	
		95360	
		95361	
		95363	
		95367	
		95368	
		95376	
		95380	
		95385	
		95386	
		95387	
		93210	
		93234	
		93242	
		93602	
		93608	
		93609	
		93611	
		93616	
		93618	
		93620	
		93621	
		93622	
		93624	
		93625	
		93626	
		93627	
		93628	
		93630	
		93631	
		93634	
		93640	
		93641	
		93646	
		93648	
		93651	
		93654	
		93656	
		93657	
		93660	
		93662	
		93664	
		93667	
		93668	
		93675	

Resolution T- 17245  
CD/MA1

		93701	
		93702	
		93706	
		93711	
		93720	
		93722	
		93725	
		93601	
		93604	
		93610	
		93614	
		93622	
		93626	
		93637	
		93638	
		93643	
		93644	
		93645	
		93653	
		93669	
		93720	
		93610	
		93620	
		93622	
		93635	
		93665	
		95301	
		95303	
		95312	
		95315	
		95316	
		95317	
		95322	
		95324	
		95333	
		95334	
		95340	
		95348	
		95360	
		95365	
		95369	
		95374	
		95380	
		95388	
		94571	
		95615	
		95624	
		95632	

Resolution T- 17245  
CD/MA1

		95638	
		95639	
		95641	
		95655	
		95683	
		95690	
		95693	
		95742	
		95758	
		95817	
		95818	
		95820	
		95822	
		95823	
		95824	
		95826	
		95827	
		95828	
		95829	
		95830	
		95831	
		95832	
		95203	
		95204	
		95206	
		95207	
		95209	
		95212	
		95215	
		95219	
		95220	
		95227	
		95230	
		95231	
		95236	
		95237	
		95240	
		95242	
		95258	
		95320	
		95330	
		95336	
		95337	
		95361	
		95366	
		95376	
		95385	
		95632	

Resolution T- 17245  
 CD/MA1

		95686	
		95690	
		94510	
		94512	
		94533	
		94535	
		94571	
		94585	
		94589	
		94590	
		94591	
		94592	
		95612	
		95616	
		95620	
		95687	
		95688	
		95690	
		95694	
	<i>ZIP Codes</i>	<i>Underserved</i>	
		95230	
		95307	
		95313	
		95316	
		95323	
		95326	
		95329	
		95356	
		95357	
		95358	
		95360	
		95361	
		95363	
		95368	
		95380	
		95386	
		93210	
		93234	
		93242	
		93602	
		93605	
		93606	
		93608	
		93609	
		93611	
		93616	
		93618	

Resolution T- 17245  
CD/MA1

		93621	
		93622	
		93625	
		93626	
		93627	
		93630	
		93631	
		93634	
		93640	
		93646	
		93648	
		93651	
		93654	
		93656	
		93657	
		93660	
		93662	
		93664	
		93667	
		93668	
		93675	
		93706	
		93711	
		93720	
		93722	
		93725	
		93727	
		93601	
		93604	
		93610	
		93614	
		93622	
		93626	
		93637	
		93638	
		93643	
		93644	
		93645	
		93653	
		93669	
		93610	
		93620	
		93635	
		95301	
		95315	
		95317	
		95322	
		95324	

Resolution T- 17245  
CD/MA1

		95333	
		95334	
		95340	
		95348	
		95360	
		95365	
		95369	
		95374	
		95380	
		95388	
		95615	
		95624	
		95632	
		95638	
		95639	
		95641	
		95683	
		95690	
		95693	
		95742	
		95758	
		95827	
		95829	
		95830	
		95832	
		95206	
		95212	
		95215	
		95219	
		95220	
		95227	
		95230	
		95231	
		95236	
		95237	
		95240	
		95242	
		95258	
		95320	
		95330	
		95336	
		95337	
		95361	
		95366	
		95376	
		95632	
		95686	
		95690	

Resolution T- 17245  
 CD/MA1

		94510	
		94512	
		94533	
		94571	
		94585	
		94589	
		94592	
		95612	
		95616	
		95620	
		95687	
		95688	
		95690	
		95694	
8	<i>Estimated Potential Subscriber Size</i>		
a)	<i>Households</i>	40,905 Unserved	
		36,290 Underserved	
9	<i>Deployment Schedule (from Commission approval)</i>	24 months	
10	<i>Proposed Project Budget</i>	\$78,937,009	
	<i>CASF (10%)</i>	\$7,893,700	
	<i>CIAC</i>		
	<i>Amount of CASF Funds Requested</i>	\$7,893,700	

Resolution T- 17245  
CD/MA1

**APPENDIX A**  
**Resolution T-17245**  
**California Valley Broadband, LLC**  
**California Valley Broadband Shapefile**





**Note: Map is for illustrative purposes only**  
 (End of Appendix A)