

Date of Issuance: September 7, 2010

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

**Communications Division  
Carrier Oversight and Programs Branch \***

**RESOLUTION T- 17288  
September 2, 2010**

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

**Resolution T- 17288 Approval of Funding for the Redwood Telephone LLC Northern California Open Community Fiber Network Project, from the California Advanced Services Fund, Amounting to \$2,169,815.**

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**Summary**

This Resolution adopts contingent funding for the Redwood Telephone LLC Northern California Open Community Fiber Network (Redwood) project, amounting to \$2,169,815 from the California Advanced Services Fund (CASF). This amount represents 10% of the project costs to provide broadband service to unserved and underserved areas in accordance with Commission Resolution 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).

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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.

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

- Entities with a Certificate of Public Convenience and Necessity (CPCN) that qualify as “telephone corporations” as defined in § 234 of the Public Utilities Code (PU Code);
- Wireless carriers registered with the Commission that 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. This decision also provides the potential for the applicants to seek CASF program funding while pursuing funding for broadband deployment grants issued under the Recovery Act.<sup>2</sup> Also, because federal grants under Recovery Act can fund up to 80% of the project cost, D.09-07-020 allowed applicants to seek an additional 10% funding coverage from the CASF, leaving only 10% of the project cost for the applicant to provide.

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 Recovery Act 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-CPUC certificated applicants and broadband providers applying for CASF grant money, in conjunction with an application for Recovery Act funding, to develop and deploy broadband infrastructure.

## **Notice/Protests**

The Census Block Group (CBG) list for the Redwood project appeared by county on the Commission’s CASF website page under “UNDERSERVED areas proposed to be served as of April 1, 2010: Census Block Groups (CBGs).” The Communications Division (CD) proceeded to review and analyze these project areas to verify that they were not served as of the applicants’ filing date.

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<sup>2</sup> The American Recovery and Reinvestment Act (Recovery Act) appropriates \$7.2 billion for grants and loans to support national broadband deployment. The Recovery Act 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.

## Discussion

This Resolution adopts funding of \$2,169,815 contingent on receipt of a Recovery Act award amounting to 80% of the total project cost for the Redwood project in Humboldt County. Key project information is on pages A-1 to A-4 of Appendix A. A Shapefile of Redwood's proposed project can be found on page A-5 of Appendix A.

On April 1, 2009, Redwood submitted its original application with a project cost estimate of \$21,698,146 of which 10% or \$2,169,815 is being requested from CASF as a match to a Round 2 Recovery Act fund request.

The proposed project provides middle mile and last mile facilities along the upper Northern California coastline from Brookings, Oregon border in the north to Benbow, California in the South. An additional segment will run east from Blue Lake to Willow Creek and north to unserved areas including Hoopa, Weitchpec, Orleans, and Somes Bar. The proposed project includes 11 Tribal Lands, 2 Counties, 8 incorporated and over 50 unincorporated cities. The project will pass 53,075 households and 9,891 businesses including local governmental agencies, health care providers, schools, and public safety organizations. These remote areas suffer from rough terrain and inclement weather. Many residents only have dialup available or are completely unserved.

The proposed project would provide up to 1 Gbps secure private transport, carrier-based Ethernet, and wholesale high-speed broadband internet access to its subscribers. There are 163 interconnection points to facilitate broadband adoption and demand aggregation including 28 Incumbent Local Exchange Carrier (ILEC) Central Offices (COs), 73 Tower/Cell Sites, 3 Connections to Service Providers, 41 Last Mile Network Access Points, and a Collocation Facility to the 23 proposed service areas: Arcata, Blue Lake, Brookings, Crescent City, Eureka, Fernbridge, Fieldbrook, Fortuna, Hoopa, Klamath, Korbek, Loleta, McKinleyville, Orick, Orleans, Redway, Requa, Rio Dell, Samoa/Manilla, Southern Humboldt, Trinidad, Weitchpec, Westhaven, and Willow Creek. Distribution will be over a standard Gigabit Passive Optical Network (GPON) architecture that will allow speeds to any location on the network up to 2.4 Gbps by multiple fibers for additional throughput. Subscribers will receive telephone and internet over a single fiber. This network will use Fiber to the Home (FTTH) technology.

By building a regional middle mile, the Redwood Telephone plan will interconnect anchor community facilities in served, un-served, under-served, rural, and non-rural areas while delivering last mile for unserved and underserved areas. The Redwood project proposes to construct middle mile facilities connecting 544 community anchor facilities including 135 k-12 schools, 15 libraries, 11 community colleges campuses, 6 other institutions of higher

learning, 76 public safety agencies, 60 medical and health providers, 32 community support organizations, and 209 other government facilities.

Redwood will provide last mile service for seven unserved service areas -- Hoopa, Klamath, Korbel, Orick, Orleans, Requa, and Weitchpec -- representing a population of 3,687 people and 676 businesses across 248 square miles. Underserved broadband services will be enhanced by providing last mile to six communities -- Fieldbrook, Hoopa, Klamath, Kneeland, Loleta, Southern Humboldt, and Westhaven -- representing 10,502 people and 3,541 businesses across 193 square miles.

Redwood will also improve communications for public safety by connecting fire agencies to central communications, state agencies, and to one another. Humboldt and Del Norte County Buildings will be directly connected on a backbone infrastructure for public safety and disaster recovery. All of the regions critical Public Safety Answering Points (PSAP) will be connected on a high-speed, back-bone infrastructure with the State of California for Next Generation 911 services, emergency management, public safety dispatch, and disaster recovery. Secure wireless terminals will be located at 41 locations across Humboldt and Del Norte County. Also, secure backhaul connections to 73 cell sites are available for emergency services on the proposed fiber network.

This project will provide broadband to 728 square miles in 119 CBGs at maximum speeds of 50 mbps download / 25 mbps upload retail, and average speeds up to 1 Gbps wholesale.

To qualify under the CASF program, an unserved area is defined as an area that is not served by any form of facilities-based broadband, or where Internet connectivity is available only through dial-up service or satellite. An underserved area is defined as an area in which broadband is available but no facilities-based provider offers service at speeds of at least 3 mbps download and 1 mbps upload. CD reviewed this project's 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 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 Shapefiles submitted which mapped the broadband deployment proposed using United States 2000 Census data, the January 2008 California Broadband Task Force (CBTF) Report including its on-line maps, and the revised August 10, 2009 CBTF maps, among others.

CD received no challenges to the project CBGs. However, upon review, CD determined that portions of two of the proposed 119 CBGs, specifically the areas around Loleta and Westhaven overlapped with areas shown as being served with broadband at speeds greater than 3/1 mbps download/upload on the CBTF maps. Redwood clarified that the portions

on the map of their proposed area that overlapped with areas shown as served on the CBTF maps were middle mile. No proposed last mile areas overlap served areas. CD determined that the CBGs covering the proposed area are qualified as unserved and underserved as defined in Resolution T-17143. Accordingly, CD recommends that the Commission approve a CASF funding award for the Redwood project.

This project is subject to the California Environmental Quality Act (CEQA). No ground breaking activities may be conducted and the Commission cannot disburse funding until the Commission has completed CEQA review. If any special permits are required, Redwood has agreed to notify the Commission, as appropriate.

Redwood 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, including the requirements to 1) post a performance bond equal to the total amount payable under this CASF award, or 10% of the project costs, 2) submit the performance bond within five business days after the completion of the CEQA review, if required and within five business days after Commission approval, if CEQA review is not required; 3) submit the information sheets in Appendices 1 and 2 of Res. T-17233 as part of Redwood's application; 4) agree in writing to allow the Commission to inspect the applicant's accounts, books, papers, and documents related to the application and award of CASF funds; and 5) comply with all the guidelines, requirements and conditions associated with the granting of CASF funds as specified in Resolution T-17143, including, but not limited to, the annual submission of Form 477 to the Federal Communications Commission as discussed in Res. T-17143.

The receipt of the CASF grant is contingent on Redwood's 1) compliance with the requirements in Resolution T-17233 and Resolution T-17143; and 2) receipt of Recovery Act funding on this project. If the applicant is not successful in its request for the Recovery Act grant or if the Recovery Act grant is less than 80%, then Redwood may request additional CASF funds in accordance with Ordering Paragraph No. 7 of D.09-07-020. The granting of additional funds will be contingent on the availability of CASF funds.

If the applicant is not successful in its request for the Recovery Act grant and, as a result will not build its project, Redwood should notify the Director of the Communications Division within thirty (30) days of receiving notification that their Recovery Act application has been rejected so that the Commission may be reallocate CASF funds to other grants.

### **Payments to CASF Recipients**

Submission of invoices from and payments to Redwood 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 Redwood 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 Redwood 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

Redwood 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 State Controller's Office (SCO) requires 14 to 21 days to issue payment from the day that requests are received by SCO. Approval and disbursement of the first 25% CASF payment is contingent upon Redwood's (1) compliance with the requirements in Resolutions T-17233 and T-17143; and (2) receiving Recovery Act funding approval.

**Comments on Draft Resolution**

In compliance with PU Code § 311(g), a notice letter was emailed on July 13, 2010 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.

On July 23, 2010, Travis Finch, President and CEO of Velocity Communications, Inc. (Velocity) sent an email informing staff that Velocity currently provides fixed wireless broadband service to two of the CBGs listed as both unserved and underserved, specifically 060230101011 and 060230101012, both located within zip code 95546. Further,

<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.

Velocity asserts that current speeds provided in these two CBGs are up to 3 Mbps download and 1 Mbps upload. Included in the email are coverage maps for both CBGs and a parcel map showing usable parcels covered.

Velocity did not pose any challenges to the April 1, 2010 proposed project CBGs posted on the CASF webpage as prescribed under Resolution T-17143 and D.09-07-020. Although Velocity is not a party to R.06-06-028, CD accepted their comments and shared them with Redwood on July 23, 2010.

On July 28, 2010, Redwood filed reply comments recommending that Velocity's objection be dismissed because it is inaccurate, incorrect, unverifiable, and did not comply with Commission procedures. Redwood argued that:

- The Chief Financial Officer of the Hoopa Valley Tribe Housing Authority informed Redwood that 70% of the reservation could not receive a signal from Velocity, based on interviews of a former installer for Velocity.
- Velocity would not be able to consistently provide service due to geographical concerns to 13 residents in the area.
- Velocity has inconsistent bandwidth availability and maximum download and upload speeds of 736 kbps based on tests of 2 business customers and one residential customer.

On August 05, 2010, Velocity sent staff an email rebutting Redwood's reply comments. Velocity asserted that Redwood's comments were inaccurate, as they were based on a former employee who was not familiar with Velocity's current infrastructure and that he was biased, having been terminated for impropriety. Velocity further stated that they do in fact have customers in areas Redwood claims are unserved, and that the speed tests performed by Redwood were for customers subscribed to speed tiers lower than 3/1.

On August 06, 2010, Redwood provided a more detailed map of their proposed area in the Hoopa Valley along with additional speed tests from customers confirmed to be subscribed at the 3/1 Tier from Velocity showing their actual speed averaged less than half of what was advertised. CD made Redwood's map available to Velocity and gave them the opportunity to provide evidence that they do serve customers in Redwood's proposed area by August 11, 2010. Velocity informed CD that due to extenuating circumstances, they would be unable to reply by the deadline set by CD, and that they would stand by their original protest.

Based on further review, CD concludes that no change is warranted and that the two CBGs-060230101011 and 060230101012, in Redwood's proposed coverage area are underserved, as indicted in Redwood's reply comments. Accordingly, the Commission dismisses Velocity's comments and allows the inclusion of these two CBGs in Redwood's proposed coverage area.

On July 27, 2010, the County of Humboldt and the Redwood Region Economic Development Commission sent letters to the Commission and the Director of the Communications Division, respectively, supporting Resolution T-17288.

## **Findings**

1. The California Advanced Services Fund (CASF) was adopted in Decision (D.) 07-12-054.
2. 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 underserved and underserved areas in California.
3. 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). T-17143 directed interested applicants seeking funding for underserved projects to file their project proposals and funding requests beginning July 24, 2008.
4. 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 Recovery Act funding request
5. 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 (Recovery Act). 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 Recovery Act fund.
6. A list of census block groups (CBGs) appeared by county on the Commission's CASF website page under "UNDERSERVED areas proposed to be served as of April 1, 2010: Census Block Groups (CBGs)." The Communications Division (CD) proceeded with its independent review and analysis of this project area to verify that it was not served as of the applicant's filing date.
7. An unserved area is defined as an area that is not served by any form of facilities-based broadband, or where Internet connectivity is available only through dial-up service or satellite. An underserved area is defined as an area in which broadband is available but no facilities-based provider offers service at speeds of at least 3mbps download and 1 mbps upload.

8. Redwood filed its original CASF project application on April 1, 2010, under D.09-07-020. CD reviewed the Redwood project eligibility through the analysis of required data submitted. 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 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.
9. Shapefiles, which mapped the broadband deployment, were reviewed by CD using sources including, but not limited to, the United States 2000 Census data, the January 2008 California Broadband Task Force (CBTF) Report, and the revised August 10, 2009 CBTF map, among others. These maps helped to verify the existence or non-existence of broadband service areas and broadband speeds, where available.
10. CD verified this project and, when necessary, requested additional information and/or meetings with the applicant to clarify its project proposal.
11. None of the 119 CBGs in this proposed project were formally challenged.
12. CD determined after its review that portions of 2 of the proposed 119 CBGs, specifically the areas around Loleta and Westhaven overlapped with areas showed as being served with broadband at speeds greater than 3/1 mbps download/upload on the CBTF maps. Redwood clarified that the portions on the map of their proposed area that overlapped areas shown as served on the BBTF were middle mile. No proposed last mile areas overlap served areas.
13. CD determined the Redwood project application for underserved areas covering 119 CBGs as eligible to receive funding under CASF.
14. The Commission finds CD's recommendation for conditional CASF award for Redwood's proposed project for unserved and underserved areas as discussed and summarized in Appendix A, to be reasonable and consistent with Commission orders and, therefore, adopts such award.
15. The project is subject to the California Environmental Quality Act (CEQA). No ground breaking activities may be conducted until the Commission has completed CEQA review. If any special permits are required, Redwood has agreed to notify the Commission, as appropriate.

16. Pursuant to the ordering paragraphs of Res. T-17233, Redwood is required to 1) post a performance bond equal to the total amount payable under this CASF award, or 10% of the project costs, 2) submit the performance bond within five business days after the completion of the California Environmental Quality Act (CEQA) review, if required and within five business days after Commission approval, if the proposed facilities are found to be exempt from CEQA review.
17. The proposed project may require CEQA review, but at this time, there is not enough known information about the physical components of the project to be able to conduct meaningful environmental review. If CEQA review is required, Redwood may not conduct any ground breaking activities, and the Commission may not disburse any funds until the Commission has completed this review. If any special permits are required, Redwood has agreed to notify the Commission as appropriate.
18. Redwood should comply with all guidelines, requirements, and conditions associated with the granting of CASF funds as specified in Resolution T-17233 and Resolution T-17143, including the submission of FCC Form 477.
19. The receipt of the CASF grant should be contingent on Redwood receiving the 80% Recovery Act grant on its underserved project. If the applicant is not successful in its request for the Recovery Act grant or if of the Recovery Act grant is less than 80%, then Redwood may request additional CASF funds in accordance with Ordering Paragraph No. 7 of D.09-07-020. The granting of additional funds will be contingent on the availability of CASF funds.
20. If Redwood is unable to obtain Recovery Act funding and will not construct the project, then Redwood must notify the Director of the Communications Division within thirty (30) days of receiving notification that their Recovery Act application has been rejected so that the Commission may reallocate CASF funds to other grants.
21. A notice letter was emailed on July 13, 2010, informing a) all applicants filing for 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. On July 23, 2010, Velocity Communications, Inc. (Velocity) sent an email informing staff that Velocity currently provides fixed wireless broadband service to two of the CBGs listed as both unserved and underserved, specifically 060230101011 and 060230101012, both located within zip code 95546.

23. Although Velocity is not a party to R.06-06-028, CD accepted their comments and shared them with Redwood on July 23, 2010. It is pointed out, however, that Velocity did not pose any challenges to the April 1, 2010 proposed project CBGs posted on the CASF webpage as prescribed under Resolution T-17143 and D.09-07-020. On July 23, 2010, staff informed Redwood of Velocity's comments.
24. On July 28, 2010, Redwood filed reply comments rebutting Velocity's objection as inaccurate, incorrect and unverifiable and thus, should be dismissed on its merits and for failure to comply with Commission procedures. In their reply comments, Redwood submitted proof that the area is underserved based on the # of households not receiving broadband service and / or receiving maximum speeds of 1.9 Mbps.
25. On August 05, 2010, Velocity sent staff an email responding to the Redwood's reply comments. Velocity denied Redwood's claims. When asked for specific information regarding customer speeds and bandwidth purchased from their supplier, Velocity informed CD that they would be unable to respond by the deadline and would allow their original protest to stand on its own.
26. Based on further review, CD concludes that no change is warranted and that the two CBGs- 060230101011 and 060230101012, in Redwood's proposed coverage area are underserved, as indicted in Redwood's reply comments. Accordingly, the Commission dismisses Velocity's comments and allows the inclusion of these two CBGs in Redwood's proposed coverage area.
27. On July 27, 2010, the County of Humboldt and the Redwood Region Economic Development Commission sent letters to the Commission and the Director of the Communications Division, respectively, supporting Resolution T-17288.

**THEREFORE, IT IS ORDERED that:**

1. The California Advanced Services Fund shall award contingent funding of \$2,169,815 from the California Advanced Services Fund to Redwood Telephone LLC for its Northern California Open Community Fiber Network to provide service in unserved and underserved areas as described in the Discussion section and summarized in Appendix A of this Resolution.
2. Redwood shall 1) post a performance bond equal to the total amount payable under this CASF award, or 10% of the project costs, 2) submit the performance bond within five business days after the completion of the California Environmental Quality Act (CEQA) review, if required and within five business days after Commission approval, if the proposed facilities are found to be exempt from CEQA review. Failure to post the

performance bond within the specified time frame may result in the CASF grant being rescinded.

3. Redwood shall comply with all guidelines, requirements, and conditions associated with the CASF funds award as specified in Resolution T-17143, Resolution T-17233, and D.09-07-020.
4. The receipt of the CASF grant shall be contingent on Redwood receiving the 80% Recovery Act grant on its underserved project. If the applicant is not successful in its request for the Recovery Act grant or if of the Recovery Act grant is less than requested, then Redwood may request additional CASF funds in accordance with Ordering Paragraph No. 7 of D.09-07-020. The granting of additional funds will be contingent on the availability of CASF funds.
5. Redwood shall notify the Director of the Communications Division within thirty (30) days of receiving notice that their Recovery Act application has been rejected and as a result, will not construct the underserved project, so that the Commission may reallocate CASF funds to other applicants.
6. The program fund payment of \$2,169,815 for this Commission-approved project shall be paid out of the CASF fund in accordance with the guidelines adopted in Resolution T-17143 and D.09-07-020.
7. Payments to Redwood 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**  
**Resolution T- 17288**  
**Redwood Project, Key Information**

Redwood Telephone LLC		
<b>1</b>	<b>Project Name</b>	<b>Northern California Open Community Fiber Network Project</b>
<b>2</b>	<b>Project Plan</b>	Fiber optic cables and wireless terminals will serve middle and last mile customers.
<b>3</b>	<b>Project Size (in square miles)</b>	728
<b>4</b>	<b>Download speed (maximum)</b>	50 mbps
<b>5</b>	<b>Upload speed (maximum)</b>	25 mbps
<b>6</b>	<b>Location</b>	Humboldt, Del Norte
<b>a)</b>	<b>Community Names</b>	Arcata, Blue Lake, Crescent City, Eureka, Ferndale, Fieldbrook, Fortuna, Hoopa, Klamath, Kneeland, Korbek, Loleta, Mckinleyville, Orick, Orleans, Redway, Requa, Rio Dell, Samoa, Southern Humboldt, Trinidad, Witchpec, Westhaven, Willow Creek
<b>b)</b>	<b>CBGs/Household Income</b>	
<b>#</b>		<b>CBG</b> <b>Income</b>
1		060150001011                      \$21,044
2		060150001012                      \$18,833
3		060150001021                      \$32,232
4		060150001022                      \$27,664
5		060150001031                      \$46,776
6		060150001032                      \$28,274
7		060150001033                      \$38,214
8		060150001034                      \$31,148
9		060150001035                      \$20,125
10		060150002011                      \$39,830
11		060150002012                      \$42,386
12		060150002013                      \$39,886
13		060150002021                      \$31,033
14		060150002022                      \$30,875
15		060150002024                      \$36,250
16		060150002031                      \$31,953
17		060150101022
18		060230001001                      \$16,667
19		060230001002                      \$21,429
20		060230001003                      \$24,167
21		060230001004                      \$19,435
22		060230002001                      \$31,316
23		060230002002                      \$29,188
24		060230002003                      \$29,414
25		060230002004                      \$20,323
26		060230002005                      \$17,155
27		060230002006                      \$21,150

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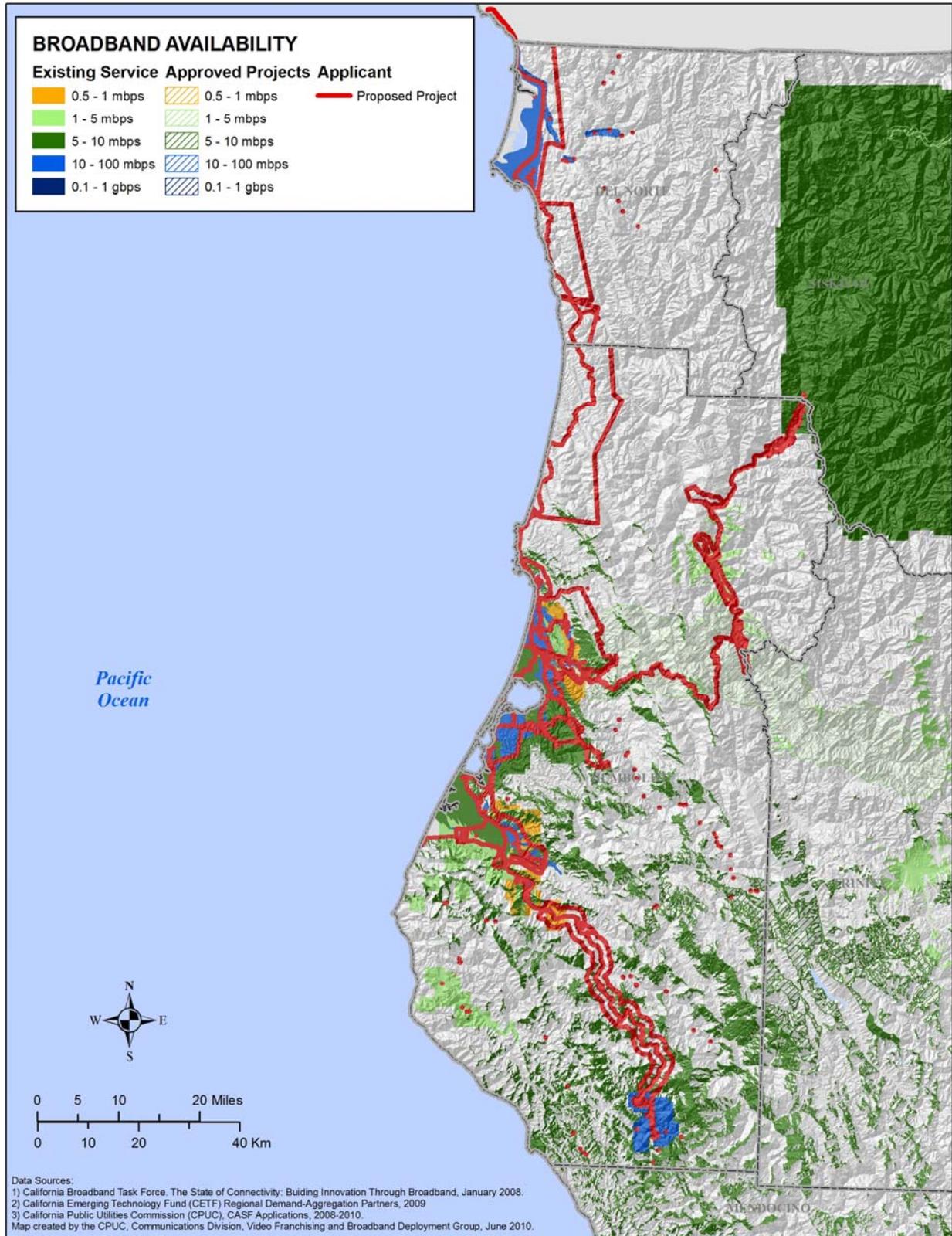
28	060230002031	\$26,696
29	060230003001	\$22,344
30	060230003002	\$30,263
31	060230003003	\$25,625
32	060230003004	\$36,583
33	060230003005	\$32,500
34	060230004001	\$48,900
35	060230004002	\$32,000
36	060230004003	\$23,678
37	060230005001	\$17,882
38	060230005002	\$25,333
39	060230005003	\$22,298
40	060230005004	\$22,432
41	060230006001	\$32,370
42	060230006002	\$34,293
43	060230006003	\$40,272
44	060230006004	\$26,037
45	060230006005	\$37,419
46	060230007001	\$36,949
47	060230007002	\$34,063
48	060230007003	\$40,438
49	060230007004	\$40,833
50	060230008001	\$31,061
51	060230008002	\$39,799
52	060230008003	\$35,402
53	060230009001	\$48,036
54	060230009002	\$49,028
55	060230009003	\$46,742
56	060230010005	\$14,620
57	060230011001	\$29,405
58	060230011002	\$16,995
59	060230011003	\$26,974
60	060230011004	\$32,780
61	060230011005	\$26,852
62	060230012001	\$25,313
63	060230012002	\$48,077
64	060230012003	\$18,648
65	060230101011	\$22,132
66	060230101012	\$26,429
67	060230101021	\$22,984
68	060230101022	\$10,000
69	060230101023	\$26,023
70	060230101024	\$42,813
71	060230102001	\$27,760
72	060230102002	\$34,844
73	060230102003	\$36,500
74	060230103001	\$50,417
75	060230103002	\$37,321

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76		060230103003	\$32,443
77		060230103004	\$29,583
78		060230103005	\$44,375
79		060230104001	\$39,472
80		060230104002	\$43,929
81		060230105011	\$40,855
82		060230105012	\$27,734
83		060230105013	\$36,406
84		060230105014	\$33,500
85		060230105021	\$43,107
86		060230105022	\$31,186
87		060230105023	\$47,955
88		060230106001	\$42,946
89		060230106002	\$47,850
90		060230107001	\$36,719
91		060230107002	\$44,141
92		060230107003	\$37,125
93		060230107004	\$23,438
94		060230107005	\$26,836
95		060230108001	\$28,833
96		060230108002	\$34,537
97		060230108003	\$35,625
98		060230108004	\$26,731
99		060230109001	\$22,500
100		060230109002	\$22,043
101		060230109003	\$40,227
102		060230109004	\$40,714
103		060230110001	\$45,806
104		060230110002	\$27,279
105		060230110003	\$34,659
106		060230111001	\$26,571
107		060230111002	\$29,336
108		060230111003	\$31,765
109		060230111004	\$36,736
110		060230112001	\$33,571
111		060230112002	\$43,365
112		060230112003	\$35,231
113		060230113001	\$35,102
114		060230113002	\$25,720
115		060230113003	\$30,167
116		060230113004	\$22,027
117		060230113005	\$27,188
118		060230113006	\$27,500
119		060230113007	\$41,528
<i>c)</i>	<i>ZIP Codes</i>		
		95501	
		95503	

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		95570	
		95573	
7	<i>Estimated Potential Subscriber Size</i>		
a)	<i>Households</i>	785 (Last Mile)	
b)	<i>Businesses Passed</i>	9,891	
c)	<i>Anchor Institutions</i>	544	
8	<i>Deployment Schedule (from Commission approval date)</i>	24 Months	
9	<i>Proposed Project Budget</i>	\$21,698,146	
a)	<i>CASF (10%)</i>	\$2,169,815	
b)	<i>CIAC</i>	\$0	
c)	<i>Amount of CASF Funds Requested</i>	<b>\$2,169,815</b>	

### APPENDIX A Resolution T- 17288 Redwood Project Shapefiles



### APPENDIX A Resolution T- 17288 Redwood Statewide Map



END OF APPENDIX A