

July 7, 2019

Senate Agriculture, Natural Resources, and Energy Committee Senate Business Labor and Technology Committee House Transportation and Energy Committee House Business Affairs and Labor Committee State Capitol Building Denver, Colorado 80203

## Dear Committee Members:

The attached report by the Broadband Deployment Board is hereby submitted in accordance with section 40-15-509.5 (9) C.R.S.

If Committee Members have questions or would like additional information, please contact me at jordan.beezley@state.co.us.

Sincerely,

Jordan Beezley

**Broadband Deployment Director** 



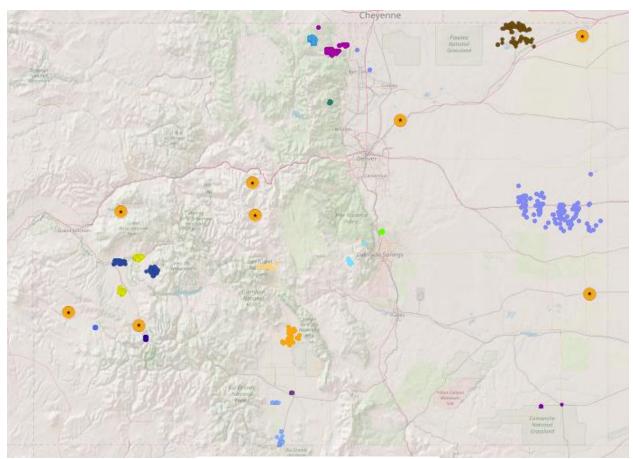




## Annual Report of the Broadband Fund and Broadband Deployment Board to the General Assembly July 1, 2019

Pursuant to section 40-15-509.5 (9) C.R.S. the Broadband Deployment Board (Board) is required to report annually on the projects supported by the Broadband Fund including the number of projects; the location of each project; the amount of funding received for each project; and a description of each project.

The Broadband Deployment Board awarded \$19,641,826 in grants from the Broadband Fund to 29 rural broadband infrastructure deployment projects. When complete the projects will provide broadband access to over 17,000 households.



Broadband Fund Grant Project Locations



## **Broadband Fund Grants**

| 16-0083            | Nucla-Naturita Telephone                                                                                                                                                                                                                                                                                                                                                                                             | Company  |               |          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------|----------|
|                    | Gobblers Knob Upgrade                                                                                                                                                                                                                                                                                                                                                                                                |          |               |          |
| Budget<br>Project  | Total Project Cost                                                                                                                                                                                                                                                                                                                                                                                                   | \$57,779 | Funds Awarded | \$43,334 |
| Status             | Complete                                                                                                                                                                                                                                                                                                                                                                                                             |          |               |          |
| Project<br>Summary | The project is a microwave enhancement of the grantee's Gobblers Knob site located approximately 6 miles west of Nucla, to the San Miguel Basin area, via the grantee's microwave site at Pony Draw. The enhancement will be accomplished with a 2 hop microwave capable of 700 Mbps. The microwave will connect to an Adtran TA5000 DSL shelf supplying the 48 connected households with broadband internet access. |          |               |          |

| 16-0084           | NE Colorado Cellular, Inc                                                         | . dba Viaero Wireles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | s             |           |  |
|-------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|--|
|                   | Sheridan Lake, Towner ar                                                          | nd Brandon Project                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |           |  |
| Budget<br>Project | Total Project Cost                                                                | \$634,799                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Funds Awarded | \$395,452 |  |
| Status            | Complete                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |           |  |
| Project           | The grantee will construct two 195 foot towers designated as Sheridan Lake North, |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |           |  |
| Summary           | located approximately 10 and associated antenna a towers and on each the e        | The grantee will construct two 195 foot towers designated as Sheridan Lake North, located approximately 9.52 miles Northwest of Sheridan Lake and Sheridan Lake South, located approximately 10.4 miles South of the Sheridan Lake. 3.65 GHz TDD base stations and associated antenna and transmission lines will be installed on each tower of the new towers and on each the existing Towner and Sheridan operated by the grantee.  Microwave radios and associated antenna and transmission lines will be installed on each |               |           |  |

| 16-0085            | S5 Chaffee County Telecom LLC, dba Colorado Central Telecom Twin Lakes and Southern Lake County Project                                |                                                                                                                                        |                                                                                                                                                                                                                       |                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
|                    |                                                                                                                                        |                                                                                                                                        |                                                                                                                                                                                                                       |                                                            |
| Budget<br>Project  | Total Project Cost                                                                                                                     | \$384,452                                                                                                                              | Funds Awarded                                                                                                                                                                                                         | \$288,338                                                  |
| Status             | Complete                                                                                                                               |                                                                                                                                        |                                                                                                                                                                                                                       |                                                            |
| Project<br>Summary | and another at Sugarloaf Mincorporate both 4G LTE a infrastructure. Grantee's labeliport site. From there, the Telecom's Methodist Mou | Mountain near Turq<br>nd Wi-Fi 802.11ac N<br>ast-mile microwave<br>the Granite site will<br>ntain tower using a<br>thodist tower can b | new tower sites: One at the Guoise Lake. Colorado Central AIMO in its last-mile fixed willinks will be backhauled through be backhauled to Colorado Glicensed Trango GigaPlus 2+ pe routed to either Center, Saradio. | I Telecom will ireless ough the Granite Central ouicrowave |



| 16-0086            | CenturyLink Inc.                                                                                                                                                       |                                                                                                                                           |                                                                                                                                                                                                                                         |                                                                                   |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                    | Hudson and Keenesburg I                                                                                                                                                | Project                                                                                                                                   |                                                                                                                                                                                                                                         |                                                                                   |
| Budget<br>Project  | Total Project Cost                                                                                                                                                     | \$299,200                                                                                                                                 | Funds Awarded                                                                                                                                                                                                                           | \$299,156                                                                         |
| Status             | Complete                                                                                                                                                               |                                                                                                                                           |                                                                                                                                                                                                                                         |                                                                                   |
| Project<br>Summary | at (1) 450 5th Ave Hudsor<br>7799 Weld County Rd 59,<br>to the DSLAM's located at<br>Ave Keenesburg, (4) 7799<br>Grantee will test all equip<br>Mbps download and 3 Ml | n, (2) 605 Ash Hudson<br>Keenesburg, (5) 80 St<br>t (1) 450 5th Ave Hud<br>Weld County Rd 59,<br>ment and ensure Brops upload and suffice | r Line Access Multiplexer's (In, (3) 374 Woodard Ave Kee Main Keenesburg. Granteedson, (2) 605 Ash Hudson, (3) Keenesburg, (5) 80 S Main I coadband internet access with cient latency to allow for readdentified in the Right of First | nesburg, (4)<br>will install fiber<br>374 Woodard<br>Keenesburg.<br>h at least 25 |

| 16-0087                      | PC Telcorp, Inc., dba PC Te                                                          | elcom                                                                |                                                                                                                                                   |                           |
|------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                              | Ovid, Sedgwick and Julesb                                                            | urg Project                                                          |                                                                                                                                                   |                           |
| Budget<br>Project            | Total Project Cost                                                                   | \$85,232                                                             | Funds Awarded                                                                                                                                     | \$55,400                  |
| Status<br>Project<br>Summary | wireless access points and<br>Work will include running<br>testing equipment to ensu | antennas on the "S<br>new cables, installir<br>re service of at leas | access points and antennas<br>edgwick Tower" and "Julesb<br>ng equipment, adjusting equi<br>t 25 Mbps downstream and<br>real-time communications. | urg Tower."<br>ipment and |

| 16-0088           | Optimus Communications LLC |                      |               |           |  |
|-------------------|----------------------------|----------------------|---------------|-----------|--|
|                   | Collbran Colorado and Ea   | stern Plateau Valley | Project       |           |  |
| Budget<br>Project | Total Project Cost         | \$150,000            | Funds Awarded | \$112,500 |  |
| Status            | Complete                   |                      |               |           |  |



Project Summary Grantee will purchase and install wireless microwave backhaul equipment at the Optimus Communications LLC main office in Grand Junction. This equipment will connect to new microwave backhaul equipment purchased and installed by grantee on the existing Palisade Point tower on the Grand Mesa. The Palisade Point equipment will connect to the Cable Head End building in Collbran CO. Grantee will use Cisco routing equipment and DOCSIS 3.0 system for internet distribution over the cable infrastructure. Grantee will purchase, build and install a solar powered communications site with a microwave link from Palisade Point to the Vega tower. Grantee will purchase and install three 120 degree 5.8Ghz antenna and three 5.8 Ghz radios at the Vega tower. Grantee will purchase and install an additional microwave link from the Cable Head End to the Plateau City tower. Grantee will purchase and install four 90 degree 5.8Ghz antenna and 12 AC 5.8 Ghz radios at the Cable Head End tower and the Plateau City tower.

| 16-0089            | CenturyLink Inc. Ridgeway                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                       |               |           |  |  |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------|--|--|
| ,                  | Riugeway                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |               |           |  |  |
| Budget<br>Project  | Total Project Cost                                                                                                                                                                                                                                                                                                                                            | \$841,200                                                                                                                                                                                                                                                                                                             | Funds Awarded | \$841,200 |  |  |
| Status             | Complete                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                       |               |           |  |  |
| Project<br>Summary | located at: (1) 97 Chipeta I<br>Village SQ, (6) 222 Vista DI<br>Grantee will install fiber to                                                                                                                                                                                                                                                                 | e grantee will upgrade eight Digital Subscriber Line Access Multiplexer's (DSLAN ated at: (1) 97 Chipeta Dr., (2) 1000 Clinton, (3) 265 N Lena, (4) 501 W Otto, (5) age SQ, (6) 222 Vista DR (7) 125 S Lena ST (8) 309 Sherman.  Intee will install fiber to the DSLAM's located at (1) 97 Chipeta Dr., (2) 1000 Clir |               |           |  |  |
|                    | 265 N Lena, (4) 501 W Otto, (5) 109 Village SQ, (6) 222 Vista DR (7) 125 S Lena ST (8) 309 Sherman.  Grantee will test all equipment and ensure Broadband internet access with at least 25 Mbps download and 3 Mbps upload and sufficient latency to allow for real-time communications to the last mile connections identified in the Right of First Refusal |                                                                                                                                                                                                                                                                                                                       |               |           |  |  |

|                   | <b>Futurum Communication</b> | s Corporation, dba I | Forethought.net, Brainstorn | า        |
|-------------------|------------------------------|----------------------|-----------------------------|----------|
| 16-0090           | Internet                     |                      |                             |          |
|                   | Red Cliff                    |                      |                             |          |
| Budget<br>Project | Total Project Cost           | \$93,471             | Funds Awarded               | \$70,103 |
| Status            | Complete                     |                      |                             |          |

at least 140 of the locations served must have availability of speeds of 40/5.

Written Plan. At least 750 of the locations served must have availability of speeds of 100/10, at least 100 of the locations served must have availability of speeds of 40/20, and



Executive Director's Office

## **Project** Summary

From the CenturyLink Fiber Demarc, grantee will install fiber through two Ski Cooper buildings, trenching from edge of Ski Cooper building to Lift Hut and through existing conduit from Hut. At the Lift House grantee will construct a mount, engineered by manufacturer to the Lift House infrastructure. On this structure grantee will install a 4ft. Dish pointing to Red Cliff. At Red Cliff a reciprocal licensed radio will be installed on 80ft tower being built by the Town of Red Cliff. Grantee will deploy LTE Fixed wireless radio equipment from the Red Cliff tower. LTE fixed wireless will deliver 25MB/5MB and potentially higher speeds as standard evolves. Grantee will purchase, install and test all equipment ensuring broadband internet service to the Town of Red Cliff of at least 25 Mbps download and 3 Mbps upload with latency sufficient to enable real time communications.

| 17-0001            | Delta Montrose Electric                                                          | Association                                                                                                   |                                                                                                                                                                             |                                                         |  |
|--------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--|
|                    | Paonia, Olathe and Happy Canyon in Delta and Montrose Counties                   |                                                                                                               |                                                                                                                                                                             |                                                         |  |
|                    |                                                                                  |                                                                                                               |                                                                                                                                                                             | \$2,646,19                                              |  |
| Budget<br>Project  | Total Project Cost                                                               | \$6,615,480                                                                                                   | Funds Awarded                                                                                                                                                               | 2                                                       |  |
| Status             | Project Underway                                                                 |                                                                                                               |                                                                                                                                                                             |                                                         |  |
| Project<br>Summary | Canyon area outside of t<br>broadband service to 1,7<br>area has a population of | he City of Montrose. <sup>-</sup><br>'31 residential addres<br>4,159. The applicant<br>receive service as par | is: Northwest Paonia, Olatho<br>The project will provide fibe<br>ses and 213 business addres<br>provided a list of 40 "comm<br>t of the proposed project. N<br>and conduit. | er to the premise<br>sses. The project<br>nunity anchor |  |

| 17-0002 | NE Colorado Cellular, Inc. dba Viaero Wireless                                    |                                                                                        |               |            |  |  |
|---------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------|------------|--|--|
|         | Arriba, Genoa and rural                                                           | Lincoln County                                                                         |               |            |  |  |
| -       |                                                                                   |                                                                                        |               | \$1,038,39 |  |  |
| Budget  | Total Project Cost                                                                | \$1,384,529                                                                            | Funds Awarded | 7          |  |  |
| Project |                                                                                   |                                                                                        |               |            |  |  |
| Status  | Project Underway                                                                  |                                                                                        |               |            |  |  |
| Project | The grantee will construct two new towers and upgrade equipment on three existing |                                                                                        |               |            |  |  |
| Summary | towers to provide service                                                         | towers to provide service in Arriba, Genoa and rural Lincoln County. Last-mile service |               |            |  |  |
|         | provided via fixed wirele                                                         | provided via fixed wireless, fiber to the towers is used for backhaul.                 |               |            |  |  |

| 17-0003           | San Luis Valley Rural Electric Cooperative                        |           |               |           |  |
|-------------------|-------------------------------------------------------------------|-----------|---------------|-----------|--|
|                   | Hermit Lakes, Ptarmigan Meadows, Pearl Lakes and Spring Creek HOA |           |               |           |  |
| Budget<br>Project | Total Project Cost                                                | \$939,298 | Funds Awarded | \$700,402 |  |
| Status            | Project Underway                                                  |           |               |           |  |



Project Summary The grantee will provide broadband service over a fiber to the home network utilizing existing electric utility poles in rural Mineral and Hinsdale Counties along CO Highway 149. The project will serve 278 homes and 20 businesses.

| 17-0004                      | Inventive Wireless of Ne | braska, LLC dba Vista | abeam                                                                                    |                 |
|------------------------------|--------------------------|-----------------------|------------------------------------------------------------------------------------------|-----------------|
|                              | Jackson County           |                       |                                                                                          |                 |
| Budget<br>Project            | Total Project Cost       | \$392,313             | Funds Awarded                                                                            | \$260,313       |
| Status<br>Project<br>Summary | broadband service over t | he 5ghz unlicensed s  | nd use three existing tower<br>pectrum. The project would<br>addresses in Jackson County | provide service |

| 17-0005 | Brainstorm Internet Inc.                                                             |                |                                                          |           |  |
|---------|--------------------------------------------------------------------------------------|----------------|----------------------------------------------------------|-----------|--|
|         | South San Juan County - C                                                            | ascade Village |                                                          |           |  |
| Budget  | Total Project Cost                                                                   | \$455,000      | Funds Awarded                                            | \$268,500 |  |
| Project |                                                                                      |                |                                                          |           |  |
| Status  | Project Underway                                                                     |                |                                                          |           |  |
| Project | The grantee will extended fiber from the Purgatory Ski Area approximately 4 miles to |                |                                                          |           |  |
| Summary | •                                                                                    |                | dential addresses and the Be e provided using fiber with |           |  |

| 17-0008            | Jade Communications LLC Conejos, Paisaje, Mogote, Fox Creek, Aspen Springs, Bear Creek, Sheep Creek, Conejos Valley, Ponderosa, & Hocra                                                                                                                                 |             |               |            |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|------------|
|                    |                                                                                                                                                                                                                                                                         |             |               | \$2,372,81 |
| Budget<br>Project  | Total Project Cost                                                                                                                                                                                                                                                      | \$3,663,756 | Funds Awarded | 7          |
| Status             | Project Underway                                                                                                                                                                                                                                                        |             |               |            |
| Project<br>Summary | The grantee will construct a fiber to the premise project in Conejos County spanning approximately 20 miles along CO17 west of US 285 and Antonito. The project would provide service to 829 residential and 34 businesses and community anchor institutions addresses. |             |               |            |

| 17-0012 | SECOM Inc.              |             |               |            |
|---------|-------------------------|-------------|---------------|------------|
|         | Las Animas, Springfield | and Holly   |               |            |
| Budget  | Total Project Cost      | \$1.591.807 | Funds Awarded | \$1.193.85 |



Project

Status Project Underway

Project The project would provide service up to 200/200Mbps via a fiber to the premise network

Summary to Las Animas, Springfield and Holly.

| 18-0001            | Jade Communications L    | LC                     |               |           |
|--------------------|--------------------------|------------------------|---------------|-----------|
|                    | San Antonio              |                        |               |           |
| Budget<br>Project  | Total Project Cost       | \$676,126              | Funds Awarded | \$507,094 |
| Status             | Project Underway         |                        |               |           |
| Project<br>Summary | The project will provide | fiber connections to 9 | 33 addresses. |           |

| 18-0002 | Jade Communications L     | LC                     |                              | _         |
|---------|---------------------------|------------------------|------------------------------|-----------|
|         | Riverdance Ranch          |                        |                              |           |
| Budget  | Total Project Cost        | \$153,996              | Funds Awarded                | \$115,497 |
| Project |                           |                        |                              |           |
| Status  | Project Underway          |                        |                              |           |
| Project | The project will provide  | fiber connections to 1 | .4 addresses in the Riverdar | nce Ranch |
| Summary | subdivision north of Alar | nosa.                  |                              |           |

| 18-0003 | <b>Delta Montrose Electric</b> | Association             |                              |                  |
|---------|--------------------------------|-------------------------|------------------------------|------------------|
|         | Northeast Delta and Sou        | theast Crawford         |                              |                  |
| '       |                                |                         |                              | \$2,334,98       |
| Budget  | Total Project Cost             | \$3,363,897             | Funds Awarded                | 8                |
| Project |                                |                         |                              |                  |
| Status  | Project Underway               |                         |                              |                  |
| Project | The project would provi        | de fiber to the premise | e internet service in Southe | ast Crawford and |
| Summary | Northeast Delta.               |                         |                              |                  |

| 18-0004            | Delta Montrose Electric | Association            |                              |              |
|--------------------|-------------------------|------------------------|------------------------------|--------------|
|                    | West Spring Creek       |                        |                              |              |
| Budget<br>Project  | Total Project Cost      | \$1,519,970            | Funds Awarded                | \$759,985    |
| Status             | Project Underway        |                        |                              |              |
| Project<br>Summary | The project would provi | de fiber to the premis | e internet service in West S | oring Creek. |

5



| 18-0005 | Global Broadband Corpo                                                                    | oration               |               |           |
|---------|-------------------------------------------------------------------------------------------|-----------------------|---------------|-----------|
|         | Red Feather Lakes and C                                                                   | rystal Lakes          |               |           |
| Budget  | Total Project Cost                                                                        | \$756,042             | Funds Awarded | \$567,031 |
| Project |                                                                                           |                       |               |           |
| Status  | Project Underway                                                                          |                       |               |           |
| Project | The project will provide wireless service to 797 addresses in the Red Feather Lakes area. |                       |               |           |
| Summary | The project will require t                                                                | he construction of ne | w towers.     |           |

| 18-0006 | SECOM Inc.               |                        |                              |           |
|---------|--------------------------|------------------------|------------------------------|-----------|
|         | Pritchett                |                        |                              |           |
| Budget  | Total Project Cost       | \$237,845              | Funds Awarded                | \$178,384 |
| Project |                          |                        |                              |           |
| Status  | Project Underway         |                        |                              |           |
| Project | The project will provide | fiber to the premise s | ervice to 125 addresses in P | ritchett. |
| Summary |                          |                        |                              |           |

| 18-0014 | Viaero                     |                        |                             |               |
|---------|----------------------------|------------------------|-----------------------------|---------------|
|         | Peetz                      |                        |                             |               |
| Budget  | Total Project Cost         | \$880,386              | Funds Awarded               | \$660,289     |
| Project |                            |                        |                             |               |
| Status  | Project Underway           |                        |                             |               |
| Project | The project will provide s | service to 105 address | ses in the Stoneham/Peetz a | area of Logan |
| Summary | County.                    |                        |                             |               |

| 19-0005 | xb7-BEMA Broadband          |                     |                                                                              |                |
|---------|-----------------------------|---------------------|------------------------------------------------------------------------------|----------------|
|         | Big Elk Meadows in Larime   | er County           |                                                                              |                |
| Budget  | Total Project Cost          | \$97,769            | Funds Awarded                                                                | \$64,627       |
| Project |                             |                     |                                                                              |                |
| Status  | Project Underway            |                     |                                                                              |                |
| Project | The Project will provide ac | cess to broadband s | services by building last mile                                               | infrastructure |
| Summary | , ,                         | e to its remote and | ty. Big Elks in Larimer County difficult to reach location, an 00 residents. | •              |



| Exect | ıtive | Directo | or's | Office |
|-------|-------|---------|------|--------|
|       |       |         |      |        |

| 19-0009            | StratusIQ                                                                                                                                                                                                                                                                                                                                                                           |           |               |                              |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|------------------------------|
|                    | Sun Hills in El Paso Count                                                                                                                                                                                                                                                                                                                                                          | У         |               |                              |
| Budget<br>Project  | Total Project Cost                                                                                                                                                                                                                                                                                                                                                                  | \$690,836 | Funds Awarded | \$518,127                    |
| Status             | Under Appeal                                                                                                                                                                                                                                                                                                                                                                        |           |               |                              |
| Project<br>Summary | The proposed project will connect 106 addresses, or 400-500 people to access FTTH Infrastructure using (GPON) technology to deliver plans with up to 1Gbps download speeds and up to 250Mbps upload speeds for every home. StratusIQ is also expanding the project to other underserviced homes even if they are not included the Sun Hills Development, located in El Paso County. |           |               | download<br>so expanding the |

| 19-0011           | Global Broadband Coporation                                                                                                                                                                                                                                                                                                                                              |           |               |            |  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|------------|--|
|                   | Glacier View Meadows in Larimer County                                                                                                                                                                                                                                                                                                                                   |           |               |            |  |
| Budget<br>Project | Total Project Cost                                                                                                                                                                                                                                                                                                                                                       | \$896,426 | Funds Awarded | \$672,319  |  |
| Status            | Project Underway                                                                                                                                                                                                                                                                                                                                                         |           |               |            |  |
| Project           | Global Broadband is targeting 376 unique residential and small business and home based                                                                                                                                                                                                                                                                                   |           |               |            |  |
| Summary           | business addresses in the Glacier View Meadows subdivision within Larimer County,                                                                                                                                                                                                                                                                                        |           |               | er County, |  |
|                   | Colorado and the surrounding area. The project will provide access to a broadband network to the Glacier View Meadows community through the installation of a new                                                                                                                                                                                                        |           |               |            |  |
|                   | wireless tower. Global Broadband will also install the necessary power, metering, backup systems, etc. to support the tower location and facilitate service. Global Broadband will also either provide backhaul Internet access through an aerial fiber link or the middle mile backhaul link will be provided by microwave from the tower located in Red Feather Lakes. |           |               |            |  |

| 19-0013 | Colorado Central Teleco                                                                   | om                    |                      |            |
|---------|-------------------------------------------------------------------------------------------|-----------------------|----------------------|------------|
|         | Chalk Creek Canyon                                                                        |                       |                      |            |
|         |                                                                                           |                       |                      | \$1,215,72 |
| Budget  | Total Project Cost                                                                        | \$1,620,961           | <b>Funds Awarded</b> | 1          |
| Project |                                                                                           |                       |                      |            |
| Status  | Project Underway                                                                          |                       |                      |            |
| Project | The project will provide broadband via fixed wireless to 50 households and via FTTH to an |                       |                      |            |
| Summary | additional 221 househol                                                                   | ds in the Chalk Creek | Canyon.              |            |

| 19-0018           | Futurum Communications Corporation |             |               |           |
|-------------------|------------------------------------|-------------|---------------|-----------|
|                   | Cripple Creek                      |             |               |           |
| Budget<br>Project | Total Project Cost                 | \$1,102,301 | Funds Awarded | \$825,904 |
| Status            | Project Underway                   |             |               |           |



Project Summary This project proposes to build out new fiber (GPON) and middle mile services through Gigabit broadband to approximately 773 households in Cripple Creek in Teller County.

| 19-0019            | Brainstorm Internet                                                                                                                                                                                                           |             |               |           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|-----------|
|                    | Ouray                                                                                                                                                                                                                         |             |               |           |
| Budget<br>Project  | Total Project Cost                                                                                                                                                                                                            | \$1,025,302 | Funds Awarded | \$757,250 |
| Status             | Project Underway                                                                                                                                                                                                              |             |               |           |
| Project<br>Summary | The Project consists of the creation of a fiber-to-the-home network within Ouray County to provide access to all homes and businesses in Ouray, CO access to a modern, symmetric gigabit fiber on the home broadband network. |             |               |           |

| 19-0020                      | Brainstorm Internet                                                                                                                                                                                                                                                                                                                                                |           |               |           |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|-----------|
|                              | Norwood                                                                                                                                                                                                                                                                                                                                                            |           |               |           |
| Budget<br>Project            | Total Project Cost                                                                                                                                                                                                                                                                                                                                                 | \$671,219 | Funds Awarded | \$503,414 |
| Status<br>Project<br>Summary | Project Underway Brainstorm Internet worked with the Town of Norwood to utilize the open trench at the expense of Brainstorm Internet. If it were not for the water project, Brainstorm Internet could not fund a fiber to the home project. The fiber network will provide 1 Gigabit speeds to each end user in addition to VoIP services over the fiber network. |           |               |           |