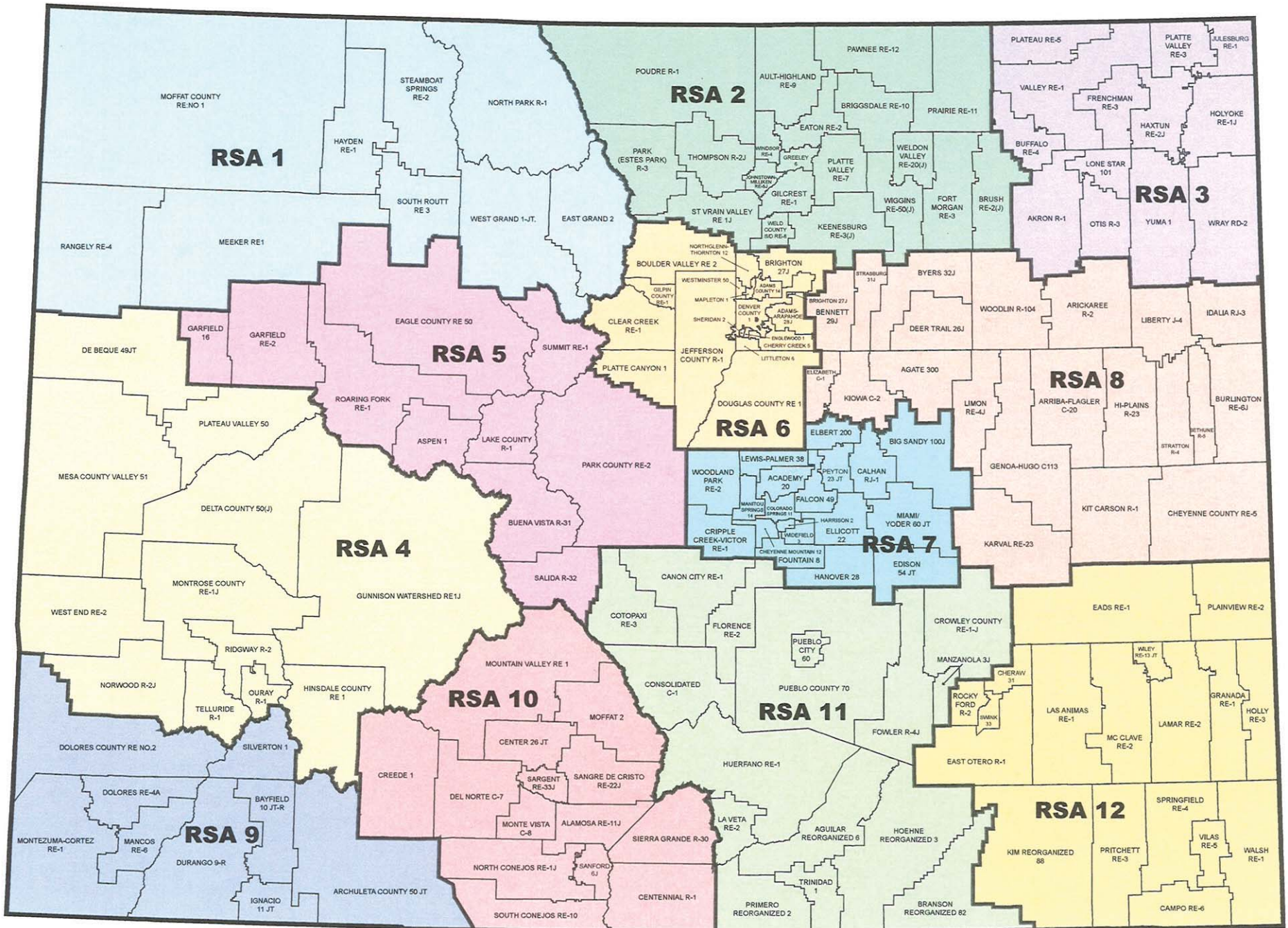


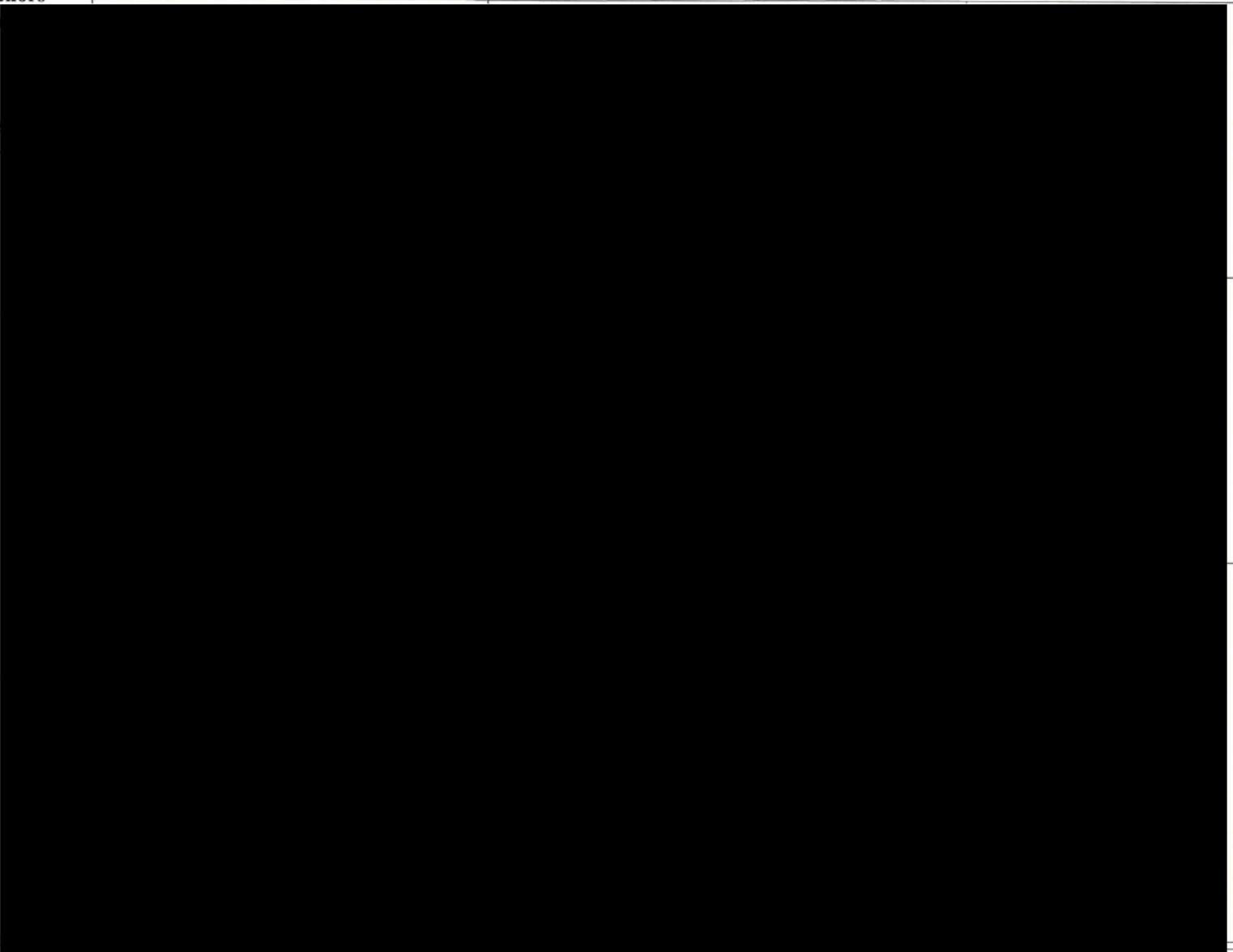
**Colorado Community Anchors Broadband Consortium -  
Connecting Colorado's Middle Mile  
Network Maps**

The following network maps show the following details as they relate to the Proposed Funded Service Area for the Grant Application. The drawings include:

- Colorado Department of Education Regional Service Area Map - This map identifies the twelve regional service areas that are used in this Grant Application
- Core Network Sites and Design - This series of maps show the Core Network Design, the Proposed Fiber and Wireless Routes, and the Community Anchor Institutions and Points of Interconnection by service area
- Households Unserved by Block Group - This map is from the Connect Colorado state broadband mapping project. On top of this map we have placed an overlay of the proposed network design, showing fiber routes, wireless links, Community Anchor Sites, Points of Interconnection Sites, and the service areas. In order to keep the size of this document to a manageable level, the map included with this file is a low resolution scan of the actual map. A higher resolution 56 MB pdf file of the map is available for upload or distribution via CD-ROM.



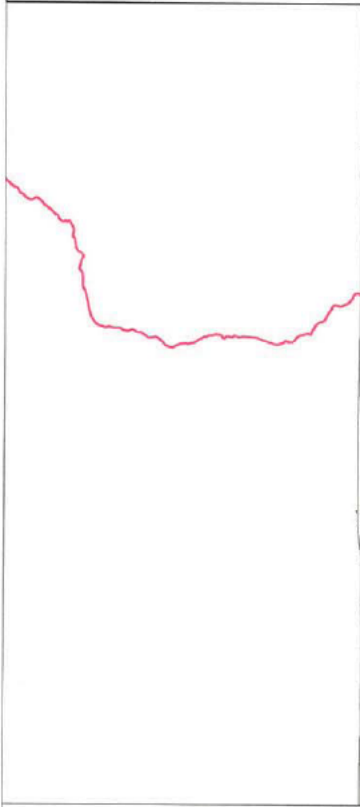
**Colorado Community Anchors  
Broadband Consortium  
Connecting Colorado's Mid  
Network Design  
Core Sites and Ring Des**



- Core Ring Sites
- Core Ring
- RSA - Proposed Funded Service Area

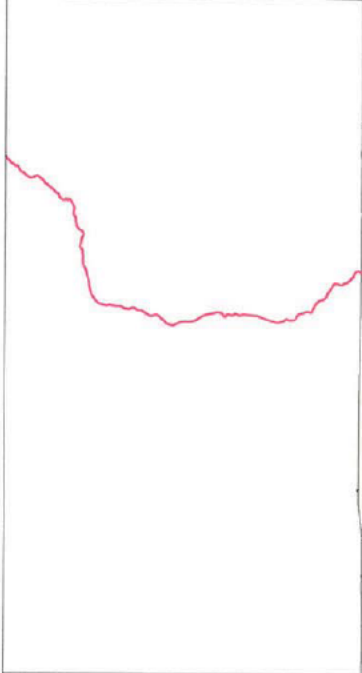
**Colorado Community Anchor  
Broadband Consortium  
Connecting Colorado's Middle  
Network Design**

**Core Ring with Existing and Proposed  
Fiber and Wireless Routes**



- Core Ring Sites
- Core Ring
- Existing and Proposed Fiber/Wireless Routes
- RSA - Proposed Funded Service Area

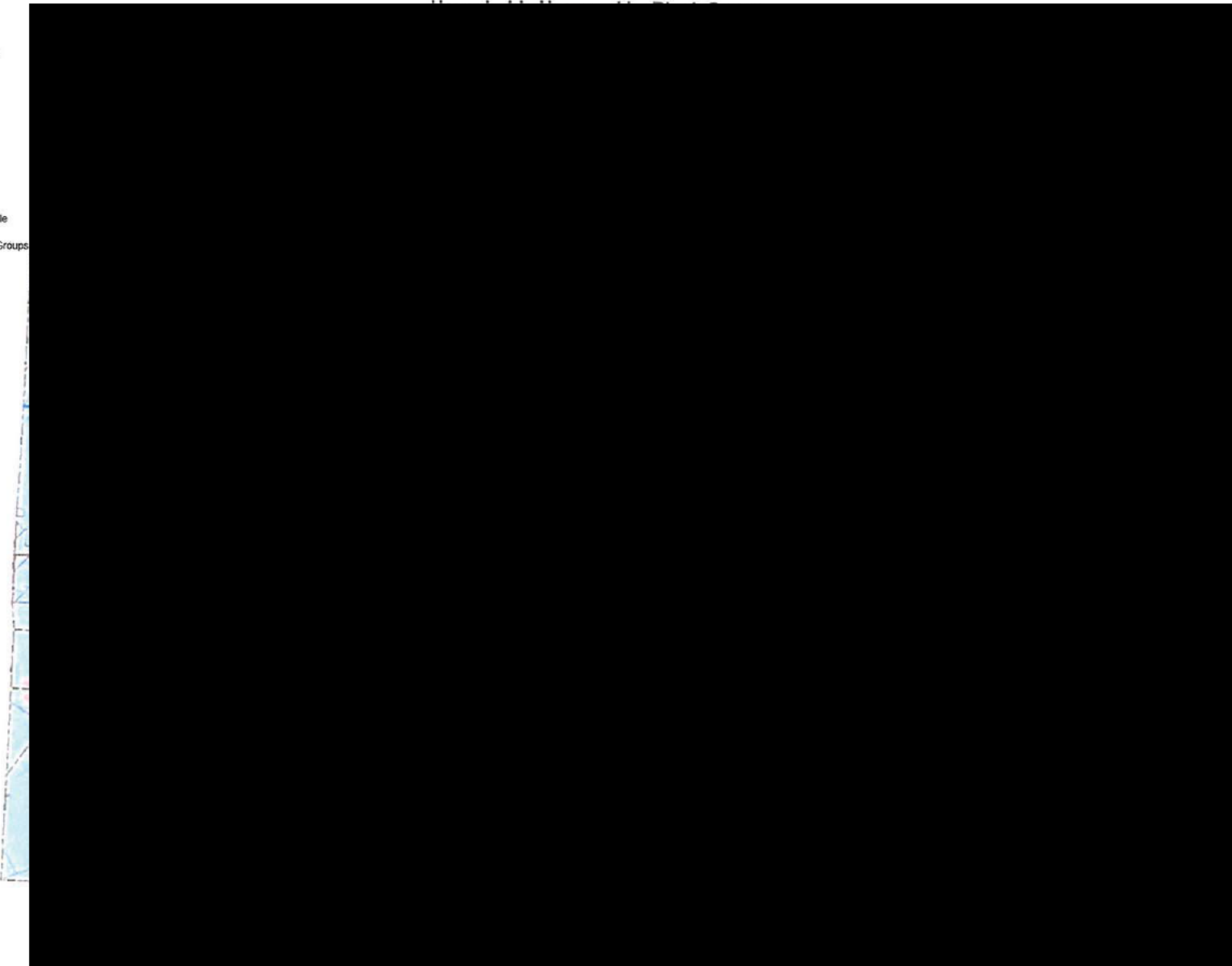
Colorado Community Anchor  
Broadband Consortium  
Connecting Colorado's Middle  
Network Design -  
Core Ring with  
Fiber and Wireless Routes  
Community Anchor Institutions  
and Point of Interconnection



- ★ Fiber Sites - CAI/Pol
- Wireless Site - CAI/Pol
- ▲ Intermediate Site
- Wireless Agg Site - CAI/Pol
- Wireless Site - CAI/Pol
- Wireless Site - CAI
- Core Ring Sites
- Core Ring
- Existing and Proposed Fiber/Wireless Routes
- RSA - Proposed Funded Service Area

Colorado Community Anchors Broadband Consortium -  
Connecting Colorado's Middle Mile

- ★ Fiber Site - CAI/Pol
- ▲ Wireless Site - CAI/Pol
- ▲ Intermediate Site
- ▲ Wireless Agg Site - CAI/Pol
- ▲ Wireless Site - CAI/Pol
- ▲ Wireless Site - CAI
- Wireless Links
- ▭ Regional Service Area
- New Fiber Routes
- Existing Fiber Routes
- Last Mile Broadband Available
- Unserved Household Block Groups



## **BTOP Comprehensive Community Infrastructure Service Offerings and Competitor Data Template**

Please complete the complete the following worksheets--either of the Last Mile or Middle Mile Service Offerings worksheets may be omitted if the applicant is not proposing to provide services of that type.

For both the Last Mile and Middle Mile Service Offerings worksheets, the service offerings should include all relevant tiers and markets (*e.g.* residential, business, wholesale). Applicants should be sure to include details on any services that would be offered at discounted rates to particular classes of customers (*e.g.* community anchor institutions or third party service providers).

In the Last Mile Service Offerings worksheet, applicants are required to provide estimated average end user speeds. Average speeds should be the average sustained actual, non-burst speeds that an end user would receive during a peak hour. For purposes of calculating these speeds, applicants should utilize their subscriber projections for year eight of the project, and develop subscriber utilization projections that are consistent with any additional services the applicant plans to offer. For wireless broadband services, this speed should be an average of the speeds available across an entire cell. Beyond these general guidelines, due to the multiplicity of technical solutions that may be proposed, the applicants may use discretion to determine the most reasonable manner in which to estimate actual speeds on their network. Applicants should explain the underlying assumptions used to calculate the average speeds in the space provided.

In the Competitor Data worksheet, applicants are required to provide data on both last mile and middle mile service providers, regardless of whether the applicant proposes to offer both last mile and middle mile services. In the column titled Service Areas Where Service Offered, applicants should list all of the Last Mile and Middle Mile Service Areas within their Proposed Funded Service area in which the listed services area available. Please ensure that the Service Area names are consistent with those provided within the application and the Service Areas attachment. If the actual availability of the listed services is limited (*e.g.* the service is only available within part of the Last Mile or Middle Mile Service Area), note this in the Other Comments column.

In contrast to several other attachment templates in this application, the data provided via this template will NOT be subject to automated processing. These templates worksheets are provided to demonstrate the level of data required and to provide a suggested format. Applicants are free to modify the template layouts in order to provide the most effective presentation of the data for their specific project. Applicants should, however, ensure that they provide at least as much detail as these templates require. To the extent that you modify these templates please ensure that the print layouts are adjusted so that rows do not break across pages in a manner that will be difficult to understand. It is recommended that you provide these documents in PDF format when submitting a copy of your application on an appropriate electronic medium, such as a DVD, CD-ROM, or flash drive.

## Proposed Last Mile Service Offerings

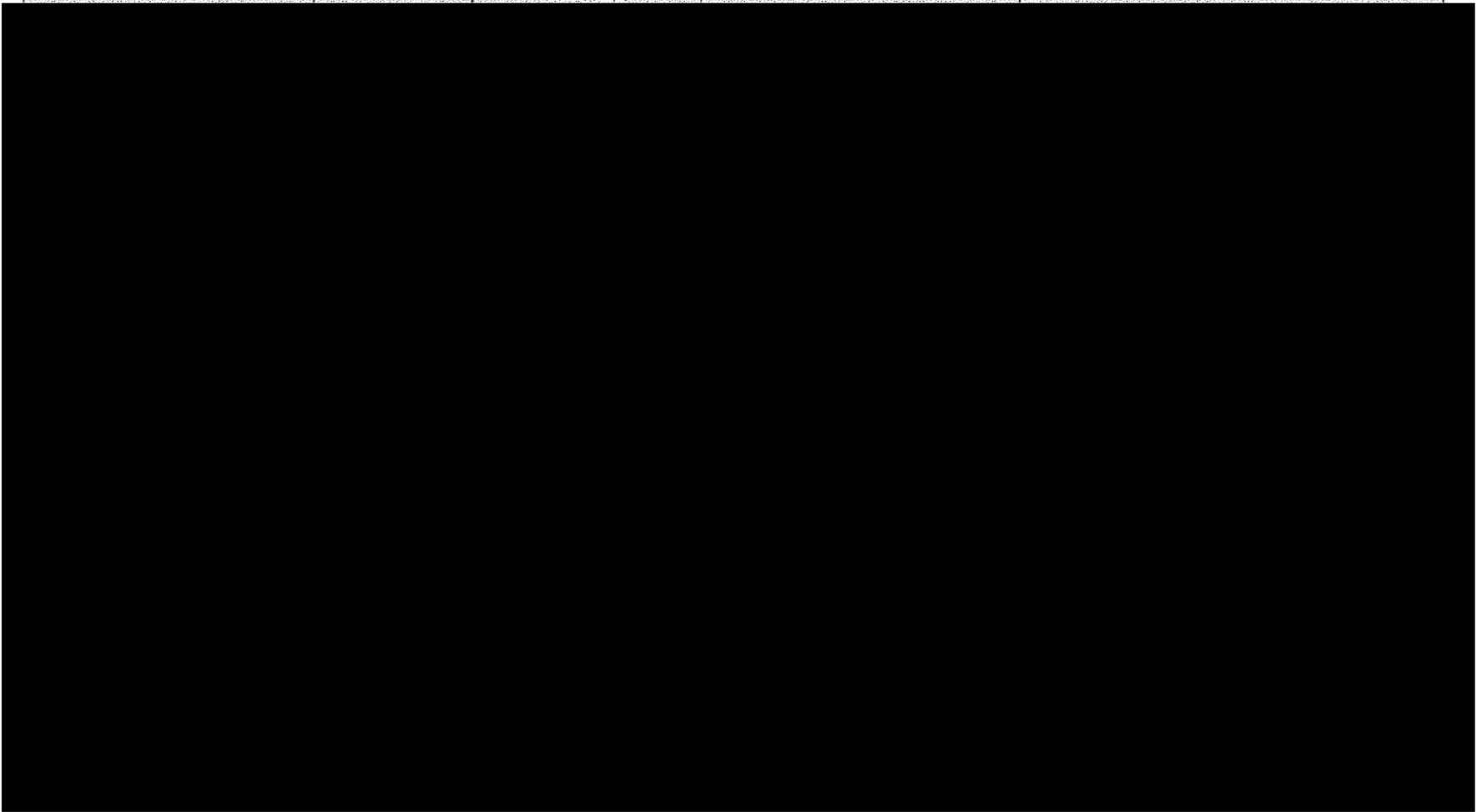
| Name of Service Tier | Advertised Speeds |               | Estimated Average Speeds |               | Average Latency             | Pricing Plan (\$ per month) | Other Comments/Description/Features or Limitations |
|----------------------|-------------------|---------------|--------------------------|---------------|-----------------------------|-----------------------------|----------------------------------------------------|
|                      | Downstream Mbps   | Upstream Mbps | Downstream Mbps          | Upstream Mbps | @ End User CPE milliseconds |                             |                                                    |
| N/A                  |                   |               |                          |               |                             |                             |                                                    |
|                      |                   |               |                          |               |                             |                             |                                                    |
|                      |                   |               |                          |               |                             |                             |                                                    |
|                      |                   |               |                          |               |                             |                             |                                                    |
|                      |                   |               |                          |               |                             |                             |                                                    |
|                      |                   |               |                          |               |                             |                             |                                                    |

**Explanation of Average Speed Calculations:**



### Proposed Middle Mile Service Offerings

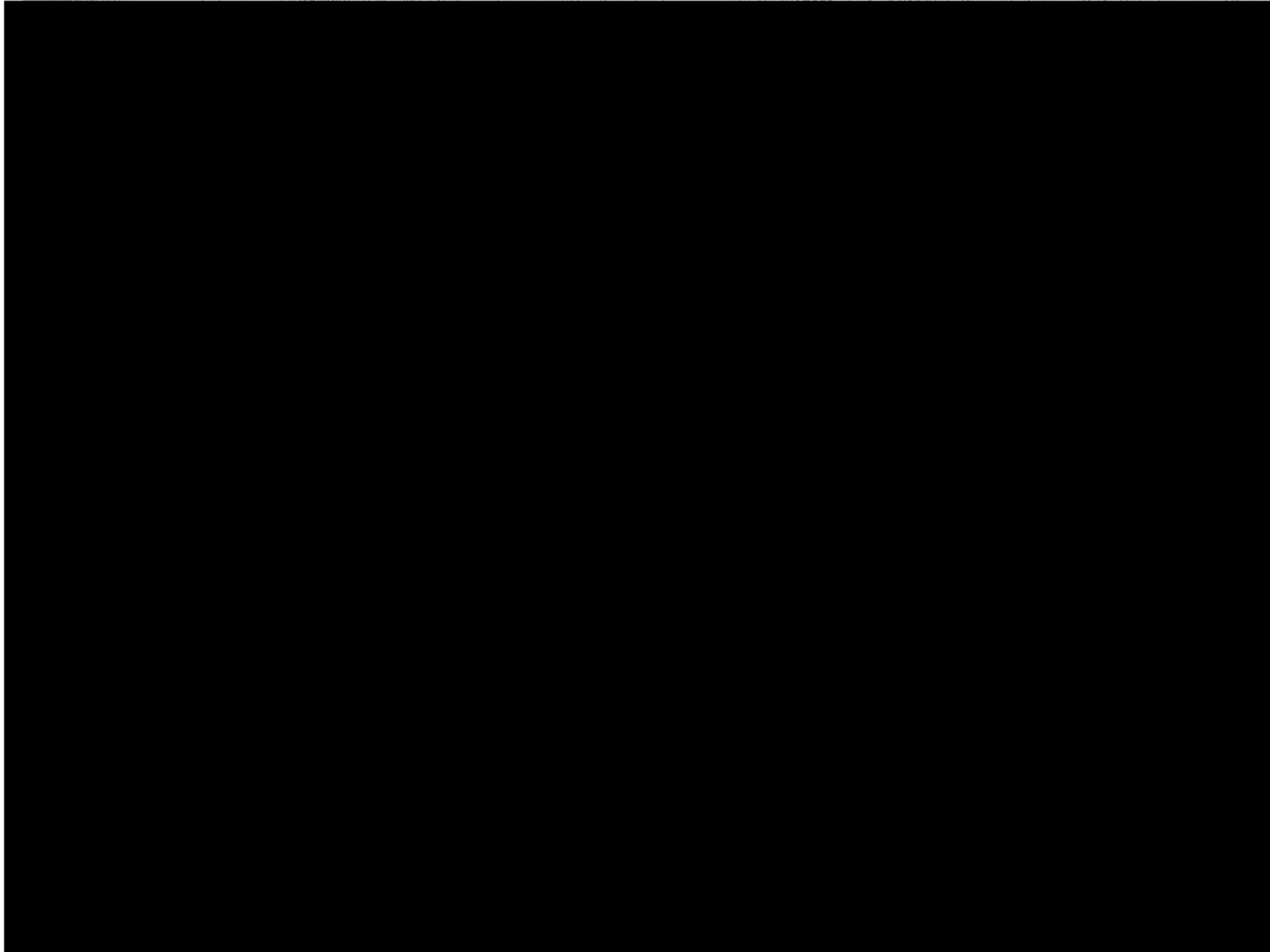
| Name of Service Offering | Distance Band or Point to Point | Minimum Peak Load Network Bandwidth Capacity (Mbps) | Monthly/Yearly Pricing (\$) | Other Comments/Description/Features or Limitations |
|--------------------------|---------------------------------|-----------------------------------------------------|-----------------------------|----------------------------------------------------|
|--------------------------|---------------------------------|-----------------------------------------------------|-----------------------------|----------------------------------------------------|



## Competitor Data

### Competitor Data - Last Mile Service Providers

| Service Provider | Service Areas Where Service Available | Technology Platform | Service Tiers | Downstream Speed | Monthly Price | Other Comments/Description/Features or Services |
|------------------|---------------------------------------|---------------------|---------------|------------------|---------------|-------------------------------------------------|
|------------------|---------------------------------------|---------------------|---------------|------------------|---------------|-------------------------------------------------|

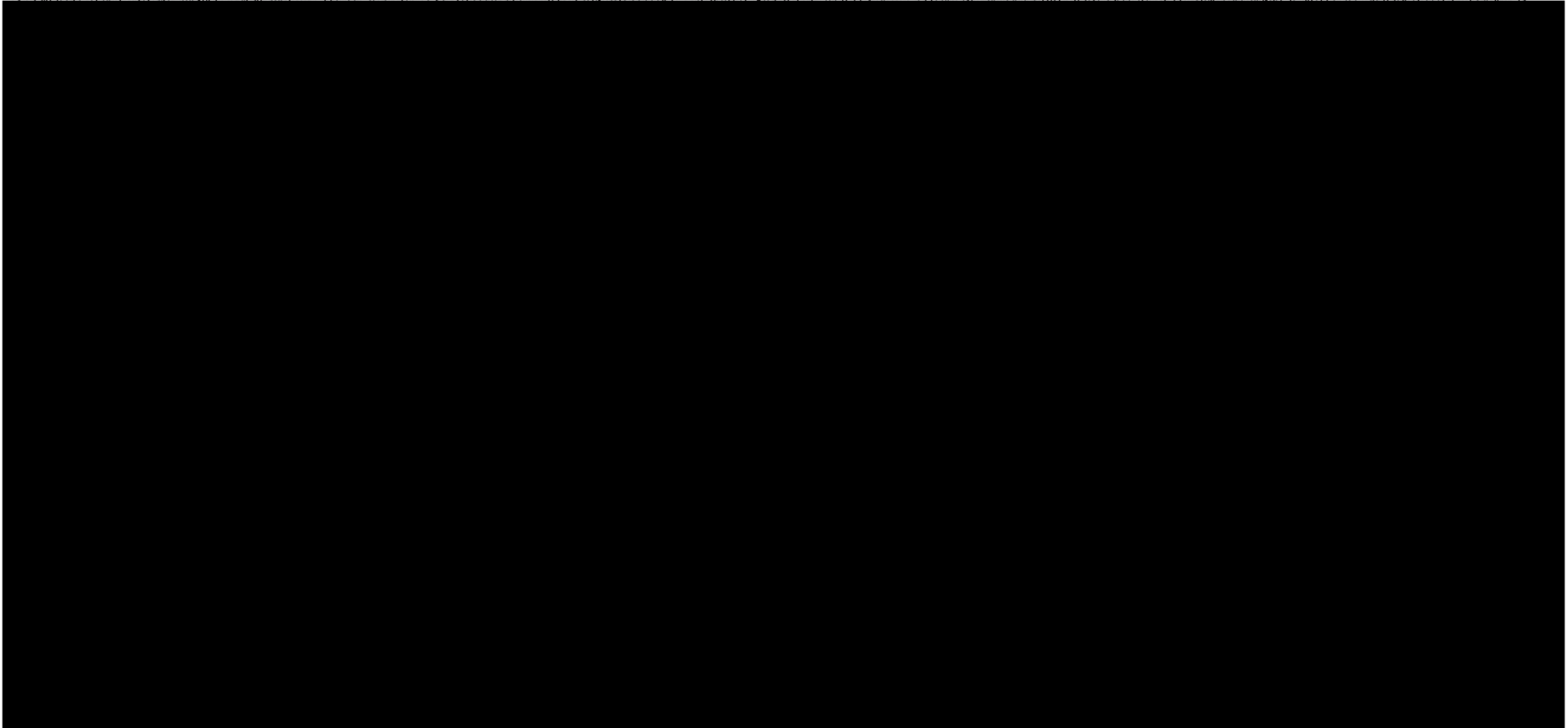


12 Pages

Withheld in their entirety  
pursuant to FOIA Exemption 4  
(5 U.S.C. § 552 (b)(4))

Competitor Data - Middle Mile Service Providers

| Service Provider | Service Areas Where Service Available | Technology Platform | Service Tiers | Distance Band or Point-to-Point | Minimum Peak Load Network Bandwidth | Pricing | Other Comments/Description/Features or Limitations |
|------------------|---------------------------------------|---------------------|---------------|---------------------------------|-------------------------------------|---------|----------------------------------------------------|
|------------------|---------------------------------------|---------------------|---------------|---------------------------------|-------------------------------------|---------|----------------------------------------------------|



## BTOP Comprehensive Community Infrastructure Subscriber Estimates Template

Please complete the complete the Subscriber Estimates worksheet.

All applicants should indicate their 8-year subscriber forecasts with a breakdown by type of subscriber (residential/individual, businesses, community anchor institutions, third party service providers) and service offerings. The names of the service offerings should match those provided in the Service Offering and Competitor Data attachment, enabling reviewers to easily cross-reference between the two documents. The Year 0 column should be used to denote any existing customers within the Proposed Funded Service Area. In addition, applicants that project that they will have third party service provider customers should include a line for parties "Served by Third Party Service Providers," showing an estimate of how many residential/individual, community anchor institution, and business customers will be served by those service providers, as demonstrated in the example below. At the bottom of the table, applicants should provide customer totals across all service offerings, with and without customers indirectly served through a third party service provider (if applicable). Applicants should also include a brief discussion of their methodology for deriving these estimates.

In contrast to several other attachment templates in this application, the data provided via this template will NOT be subject to automated processing. Applicants are permitted to modify the template layout in order to provide the most effective presentation of the data for their specific project, but such modifications are generally discouraged. Applicants should, in any case, ensure that they provide at least as much detail as the provided templates requires. To the extent that you modify these templates, please ensure that the print layouts are adjusted so that rows do not break across pages in a manner that will be difficult to understand. It is recommended that you provide these documents in PDF format when submitting a copy of your application on an appropriate electronic medium, such as a DVD, CD-ROM, or flash drive.

### EXAMPLE

| Name of Service Offering                | Customer Type                | Year 0 | Cumulative/<br>Net Add | Year 1 |       |       |       | Year 2 |       |       |       |
|-----------------------------------------|------------------------------|--------|------------------------|--------|-------|-------|-------|--------|-------|-------|-------|
|                                         |                              |        |                        | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 |
| Mega-Metro E - 100 Mbps                 | Community Anchor Inst.       | 0      | Cumulative             | 0      | 0     | 0     | 0     | 5      | 10    | 17    | 26    |
|                                         |                              |        | Net Add                | 0      | 0     | 0     | 0     | 5      | 5     | 7     | 9     |
|                                         | Business                     | 0      | Cumulative             | 0      | 0     | 0     | 0     | 12     | 27    | 52    | 82    |
|                                         |                              |        | Net Add                | 0      | 0     | 0     | 0     | 12     | 15    | 25    | 30    |
|                                         | Third Party Service Provider | 0      | Cumulative             | 0      | 0     | 0     | 0     | 1      | 2     | 4     | 6     |
|                                         |                              |        | Net Add                | 0      | 0     | 0     | 0     | 1      | 1     | 2     | 2     |
| Served by Third Party Service Providers | Indirect - Res./Ind.         | 0      | Cumulative             | 0      | 0     | 0     | 0     | 1000   | 3000  | 5000  | 10000 |
|                                         |                              |        | Net Add                | 0      | 0     | 0     | 0     | 1000   | 2000  | 2000  | 5000  |
|                                         | Indirect - Business          | 0      | Cumulative             | 0      | 0     | 0     | 0     | 2      | 8     | 18    | 30    |
|                                         |                              |        | Net Add                | 0      | 0     | 0     | 0     | 2      | 6     | 10    | 12    |
|                                         | Indirect - Com. Anchor Inst. | 0      | Cumulative             | 0      | 0     | 0     | 0     | 0      | 2     | 3     | 5     |
|                                         |                              |        | Net Add                | 0      | 0     | 0     | 0     | 0      | 2     | 1     | 2     |

### Broadband Subscriber Estimates

| Name of Service Offering               | Customer Type                | Year 0     | Cumulative/<br>Net Add | Year 1 |       |       |       | Year 2 |       |       |       | Year 3 |       |       |       | Year 4 |       |
|----------------------------------------|------------------------------|------------|------------------------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|
|                                        |                              |            |                        | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 |
| [REDACTED]                             | Community Anchor Inst.       | 10         | Cumulative             | 10     | 21    | 42    | 60    | 69     | 81    | 97    | 121   | 139    | 174   | 220   | 266   | 296    | 311   |
|                                        |                              |            | Net Add                | 11     | 21    | 18    | 9     | 12     | 16    | 24    | 18    | 35     | 46    | 46    | 30    | 15     | 18    |
| [REDACTED]                             | Community Anchor Inst.       | 15         | Cumulative             | 15     | 20    | 28    | 37    | 41     | 46    | 53    | 63    | 68     | 80    | 95    | 110   | 120    | 126   |
|                                        |                              |            | Net Add                | 5      | 9     | 8     | 4     | 5      | 7     | 10    | 5     | 12     | 15    | 15    | 10    | 6      | 8     |
| [REDACTED]                             | [REDACTED]                   | [REDACTED] | Cumulative             |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
|                                        |                              |            | Net Add                |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| [REDACTED]                             | [REDACTED]                   | [REDACTED] | Cumulative             |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
|                                        |                              |            | Net Add                |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| [REDACTED]                             | [REDACTED]                   | [REDACTED] | Cumulative             |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
|                                        |                              |            | Net Add                |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| [REDACTED]                             | [REDACTED]                   | [REDACTED] | Cumulative             |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
|                                        |                              |            | Net Add                |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| Cumulative Totals (excluding Indirect) | Residential/Individual       |            | Total                  |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
|                                        | Business                     |            | Total                  |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| Cumulative Totals (including Indirect) | Community Anchor Inst.       |            | Total                  | 25     | 41    | 71    | 97    | 110    | 127   | 150   | 184   | 207    | 254   | 315   | 376   | 416    | 437   |
|                                        | Third Party Service Provider |            | Total                  |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| Cumulative Totals (including Indirect) | Residential/Individual       |            | Total                  |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
|                                        | Business                     |            | Total                  |        |       |       |       |        |       |       |       |        |       |       |       |        |       |
| Cumulative Totals (including Indirect) | Community Anchor Inst.       |            | Total                  | 25     | 41    | 71    | 97    | 110    | 127   | 150   | 184   | 207    | 254   | 315   | 376   | 416    | 437   |

**Table of Customer Types**

|                              |
|------------------------------|
| Residential/Individual       |
| Business                     |
| Community Anchor Inst.       |
| Third Party Service Provider |
| Indirect - Res./Ind.         |
| Indirect - Business          |
| Indirect - Com. Anchor Inst. |

Explanation of Methodology: \*While rates have been established for these service offerings, the actual subscriber and numbers will be determined in coordination with the third party service provider.

| Name of Service Offering               | Customer Type                | Year 4 |       | Year 5 |       |       |       | Year 6 |       |       |       | Year 7 |       |       |       | Year 8 |       |       |
|----------------------------------------|------------------------------|--------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|
|                                        |                              | Qtr 3  | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1  | Qtr 2 | Qtr 3 |
| [REDACTED]                             | Community Anchor Inst.       | 329    | 345   | 357    | 372   | 391   | 405   | 419    | 435   | 453   | 471   | 486    | 505   | 527   | 549   | 567    | 585   | 607   |
|                                        |                              | 16     | 12    | 15     | 19    | 14    | 14    | 16     | 18    | 18    | 15    | 19     | 22    | 22    | 18    | 18     | 22    | 22    |
| [REDACTED]                             | Community Anchor Inst.       | 134    | 142   | 146    | 152   | 159   | 167   | 171    | 178   | 184   | 190   | 196    | 204   | 213   | 222   | 228    | 235   | 240   |
|                                        |                              | 8      | 4     | 6      | 7     | 8     | 4     | 7      | 6     | 6     | 6     | 8      | 9     | 9     | 6     | 7      | 5     | 6     |
| [REDACTED]                             |                              |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| [REDACTED]                             |                              |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| [REDACTED]                             |                              |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| [REDACTED]                             |                              |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| [REDACTED]                             |                              |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| [REDACTED]                             |                              |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| Cumulative Totals (excluding Indirect) | Residential/Individual       |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
|                                        | Business                     |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| Cumulative Totals (including Indirect) | Community Anchor Inst.       | 463    | 487   | 503    | 524   | 550   | 572   | 590    | 613   | 637   | 661   | 682    | 709   | 740   | 771   | 795    | 820   | 847   |
|                                        | Third Party Service Provider |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| Cumulative Totals (including Indirect) | Residential/Individual       |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
|                                        | Business                     |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |
| Cumulative Totals (including Indirect) | Community Anchor Inst.       | 463    | 487   | 503    | 524   | 550   | 572   | 590    | 613   | 637   | 661   | 682    | 709   | 740   | 771   | 795    | 820   | 847   |
|                                        | Third Party Service Provider |        |       |        |       |       |       |        |       |       |       |        |       |       |       |        |       |       |

**Table of Customer Types**

|                              |
|------------------------------|
| Residential/Individual       |
| Business                     |
| Community Anchor Inst.       |
| Third Party Service Provider |
| Indirect - Res./Ind.         |
| Indirect - Business          |
| Indirect - Com. Anchor Inst. |

| Name of Service Offering               | Customer Type                | Qtr 4 |
|----------------------------------------|------------------------------|-------|
|                                        |                              |       |
| [REDACTED]                             | Community Anchor Inst.       | 629   |
|                                        |                              | 15    |
| [REDACTED]                             | Community Anchor Inst.       | 246   |
|                                        |                              | 4     |
| [REDACTED]                             |                              |       |
|                                        |                              |       |
| [REDACTED]                             |                              |       |
|                                        |                              |       |
| [REDACTED]                             |                              |       |
|                                        |                              |       |
| Cumulative Totals (excluding Indirect) | Residential/Individual       |       |
|                                        | Business                     |       |
|                                        | Community Anchor Inst.       | 875   |
|                                        | Third Party Service Provider |       |
| Cumulative Totals (including Indirect) | Residential/Individual       |       |
|                                        | Business                     |       |
|                                        | Community Anchor Inst.       | 875   |
|                                        |                              |       |

**Table of Customer Types**

|                              |
|------------------------------|
| Residential/Individual       |
| Business                     |
| Community Anchor Inst.       |
| Third Party Service Provider |
| Indirect - Res./Ind.         |
| Indirect - Business          |
| Indirect - Com. Anchor Inst. |

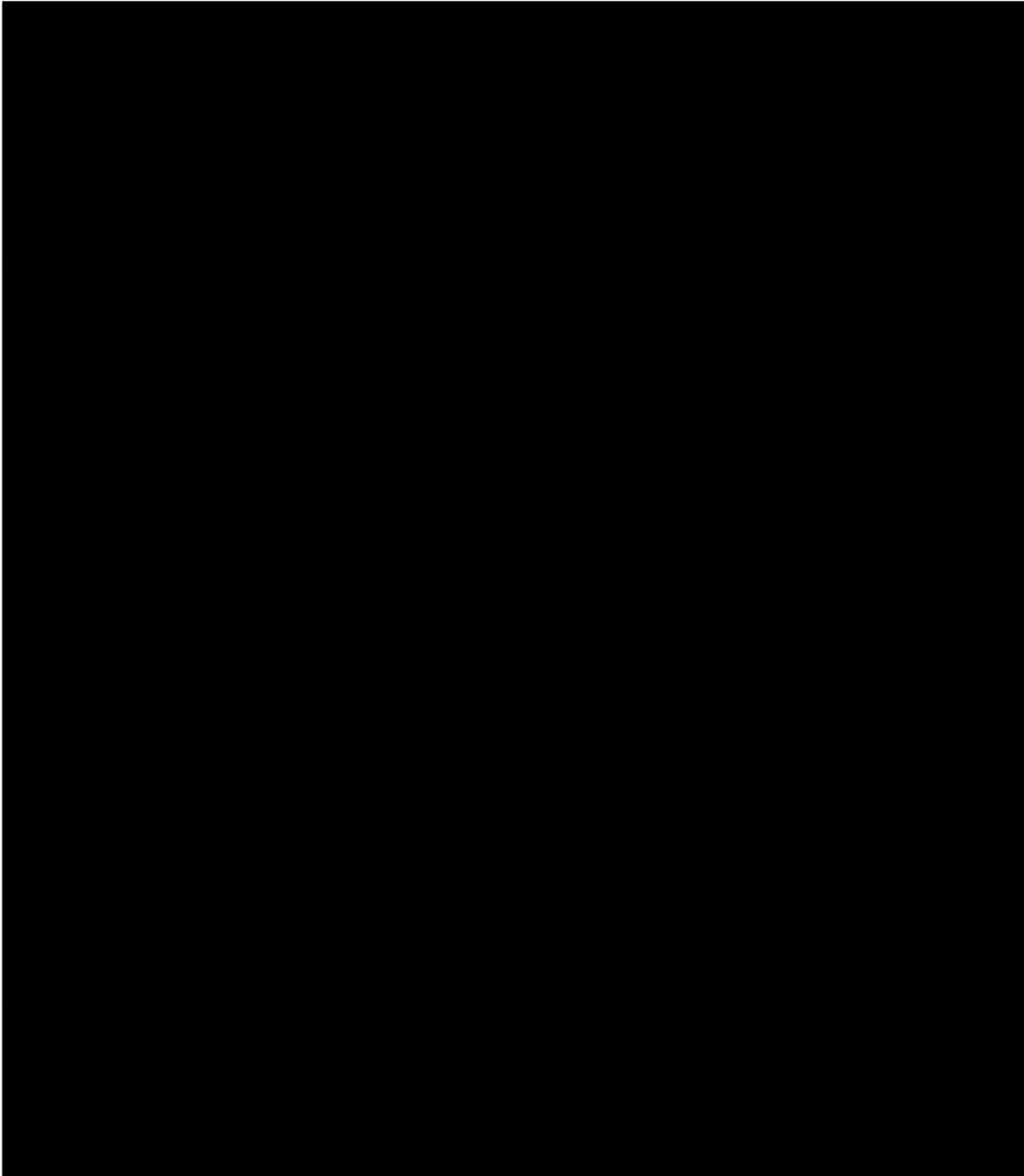


**Colorado Community Anchors Broadband Consortium -  
Connecting Colorado's Middle Mile  
Network Diagrams**

The following diagrams show a view of both the existing and proposed network elements related to the Grant Application. The drawings include:

- EAGLE-Net Existing Network Infrastructure - Includes a diagram detailing the existing infrastructure and a table that identifies the existing network elements
- Points of Interconnection and Co-location facilities - This diagram, which is also included as part of the Network Maps Upload section shows the Points of Interconnection facilities and their connection to the network.
- Fiber Backbone Diagram- This logical diagram details connections between the Core Network Major Node Sites and the Aggregation Sites
- Cluster 1-12 Backbone Diagrams - These logical diagrams detail connections from the Aggregation Sites to the Endpoint sites on the network.

# EAGLE-Net Existing Network Infrastructure



- CBOCES Existing Connections
- CBOCES East Microwave
  - CBOCES NE Microwave
  - CBOCES Fiber Lease 2
  - CBOCES Fiber Leases
  - CBOCES QMOE Service
  - PRPA Fiber Lease

\* Check Attached Table for Existing Connection details

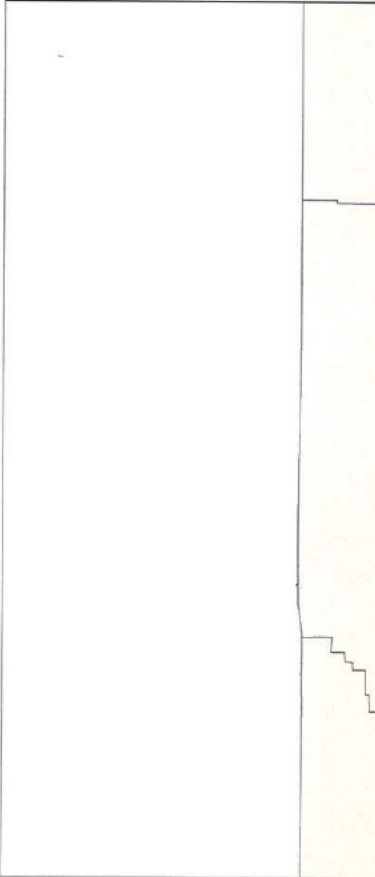
## EAGLE-Net Existing Network Infrastructure




### Existing Network Elements

| ID | Network Link          | Description                                | Endpoint 1 | Endpoint 2 |
|----|-----------------------|--------------------------------------------|------------|------------|
| 1  | CBOCES East Microwave | Motorola PTP54500 5.4GHz 105Mbps           |            |            |
| 2  | CBOCES NE Microwave   | Motorola PTP54500 5.4GHz 52Mbps            |            |            |
| 3  | CBOCES NE Microwave   | Motorola PTP54500 5.4GHz 52Mbps            |            |            |
| 4  | CBOCES NE Microwave   | Motorola PTP54500 5.4GHz 52Mbps            |            |            |
| 5  | CBOCES NE Microwave   | Motorola PTP54500 5.4GHz 52Mbps            |            |            |
| 6  | CBOCES QMOE Service   | 40Mbps 2Y Lease                            |            |            |
| 7  | CBOCES QMOE Service   | 100Mbps 2Y Lease                           |            |            |
| 8  | CBOCES QMOE Service   | 200Mbps 2Y Lease                           |            |            |
| 9  | CBOCES QMOE Service   | 20Mbps 2Y Lease                            |            |            |
| 10 | CBOCES QMOE Service   | 200Mbps 2Y Lease                           |            |            |
| 11 | CBOCES Fiber Leases   | 6 Strands Fiber 5mi 1Gbps BOCES Owned      |            |            |
| 12 | CBOCES Fiber Leases   | 2 Strands (Ring Config) 20.6mi 1Gbps       |            |            |
| 13 | CBOCES Fiber Leases   | 1Gbps Lambda 3Y Lease 3Y Opt               |            |            |
| 14 | CBOCES Fiber Leases   | 48 Strands Fiber 14.5mi 1Gbps CBOCES Owned |            |            |
| 15 | CBOCES Fiber Lease 2  | 100Mbps GigPort 2Y Lease 2Y Opt            |            |            |
| 16 | CBOCES Fiber Leases   | 100Mbps SNI LAN (GigPorts) 3Y Lease w/Opt  |            |            |
| 17 |                       |                                            |            |            |
| 18 |                       |                                            |            |            |
| 19 |                       |                                            |            |            |
| 20 |                       |                                            |            |            |

**Colorado Community Ancho  
Broadband Consortium -  
Connecting Colorado's Middle  
Network Design**

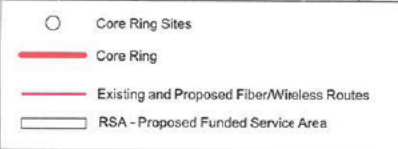
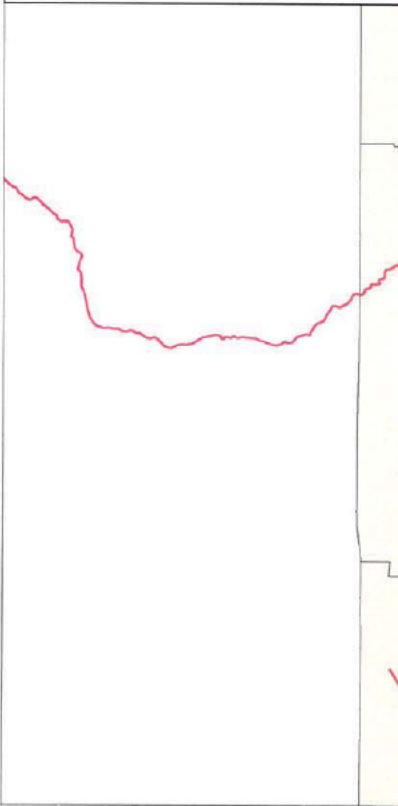
**Core Sites and Ring Design**



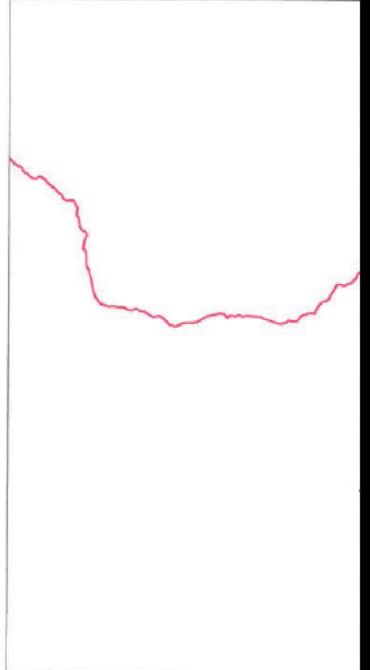
-  Core Ring Sites
-  Core Ring
-  RSA - Proposed Funded Service Area

**Colorado Community Anchors  
Broadband Consortium -  
Connecting Colorado's Middle Mountain  
Network Design**

**Core Ring with Existing and Proposed  
Fiber and Wireless Routes**

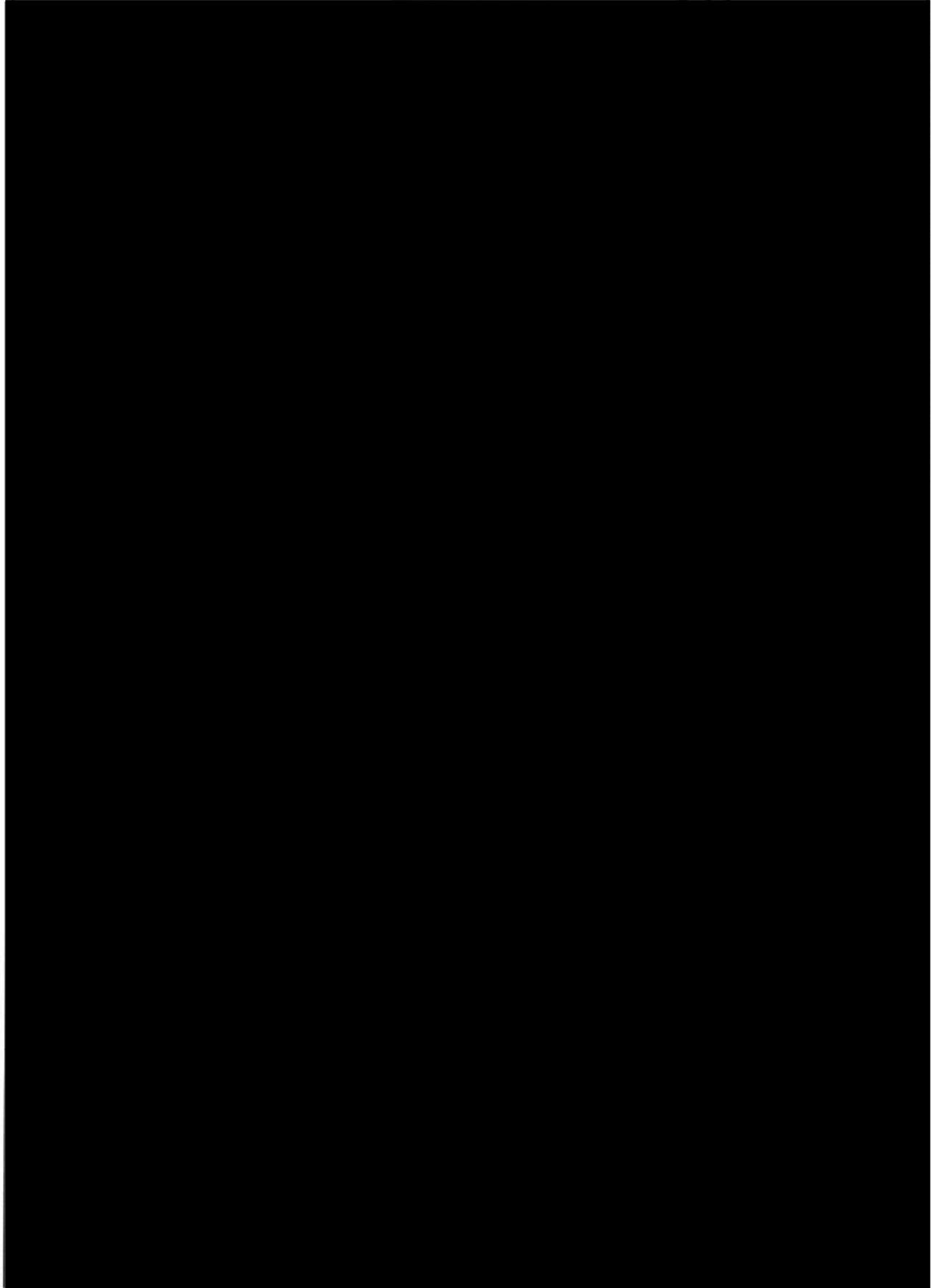


**Colorado Community Anchor  
Broadband Consortium  
Connecting Colorado's Middle  
Network Design -  
Core Ring with  
Fiber and Wireless Routes  
Community Anchor Institutions  
and Point of Interconnection**



- ★ Fiber Sites - CAI/PoI
- Wireless Site - CAI/PoI
- ▲ Intermediate Site
- Wireless Agg Site - CAI/PoI
- Wireless Site - CAI/PoI
- Wireless Site - CAI
- Core Ring Sites
- Core Ring
- Existing and Proposed Fiber/Wireless Routes
- RSA - Proposed Funded Service Area

# Fiber Backbone



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Wide Area Network

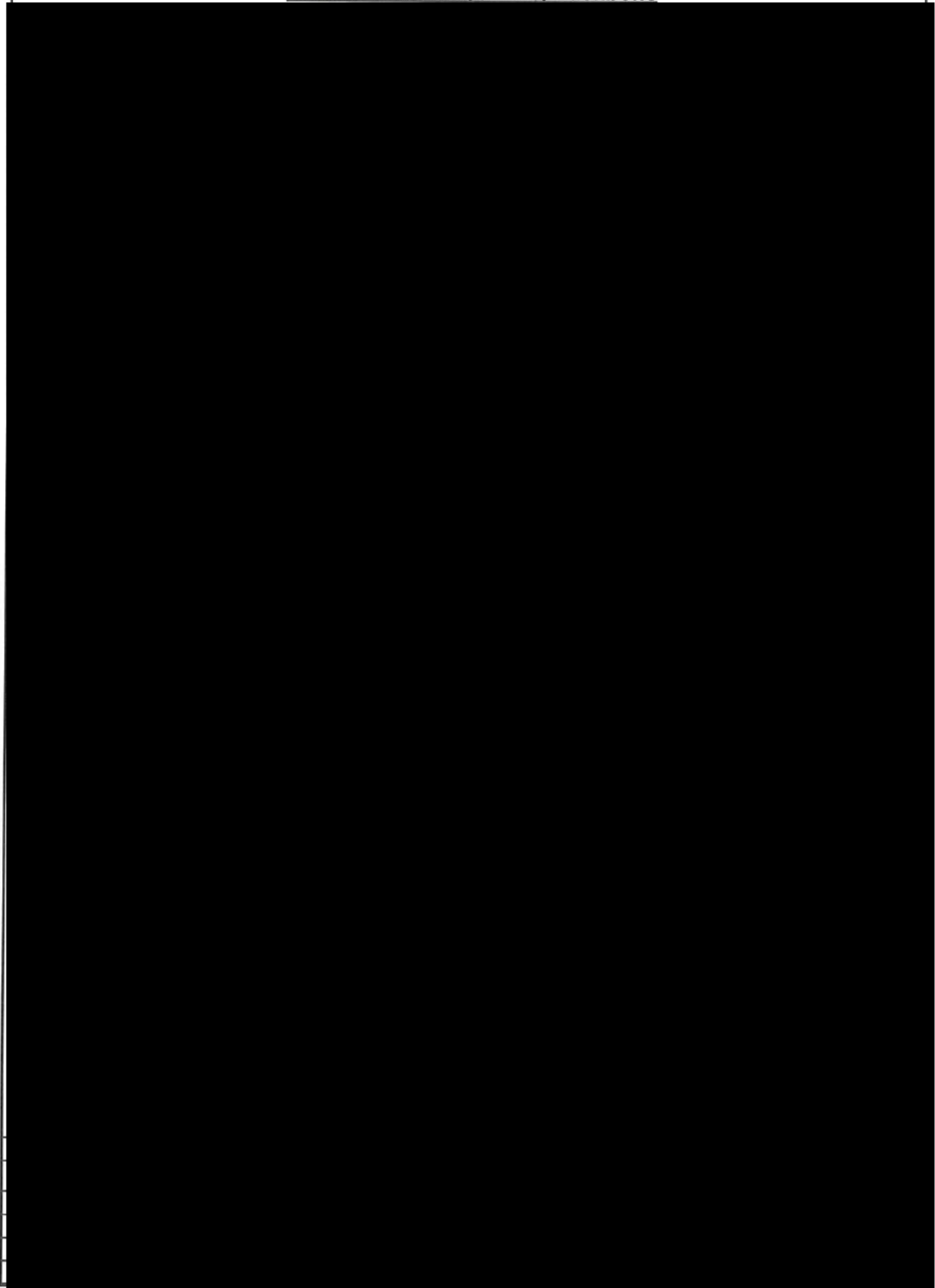
Drawing by: D.S.

Date: 03/25/2010 Preliminary Draft

Filename: EagleNet Fiber Backbone 2010032501

Proposed Logical Topology

## Cluster 1 - 300Mbps Ring Backbone



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Wide Area Network

Drawing by: D.S.

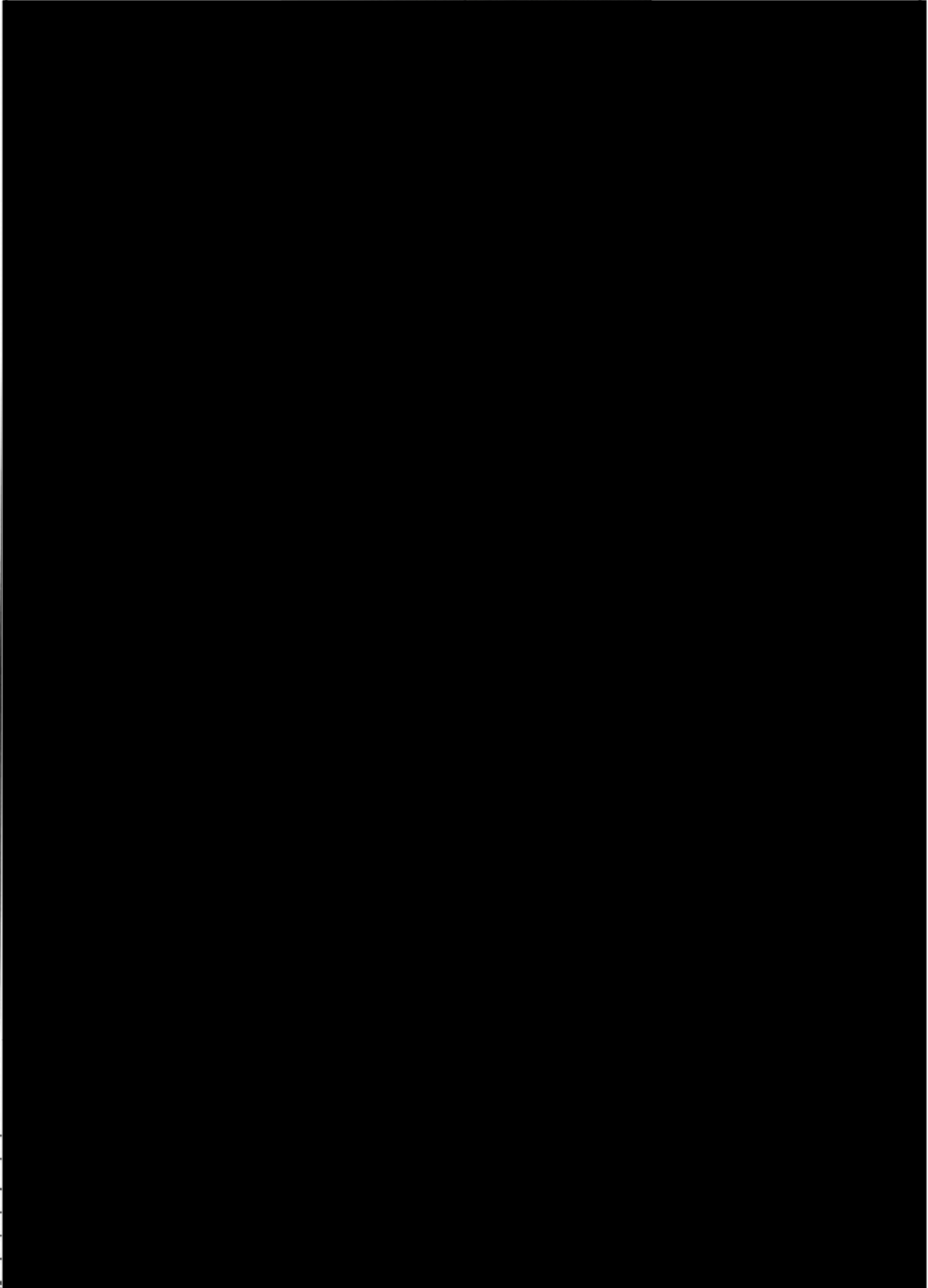
Date: 03/19/2010 Preliminary Draft

Filename: EagleNet Cluster 1 201031901

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)



**Cluster 2 - 300Mbps Ring Backbone**



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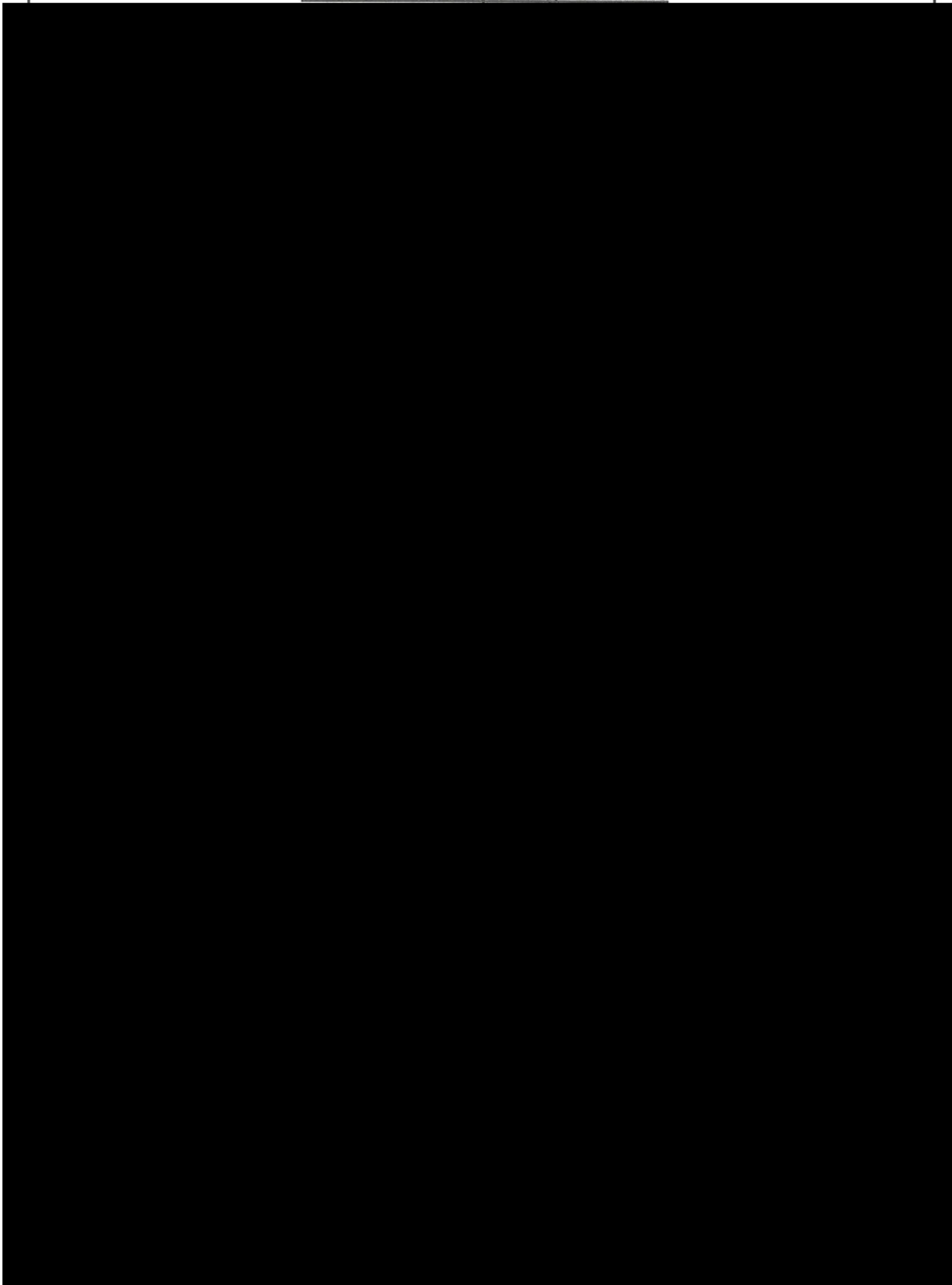
Drawing by: D.S.

Date: 03/19/2010 Preliminary Draft

Filename: EagleNet Cluster 2 2010031901

**Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)**

**Cluster 3 - 300Mbps Ring Backbone**



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Wide Area Network**

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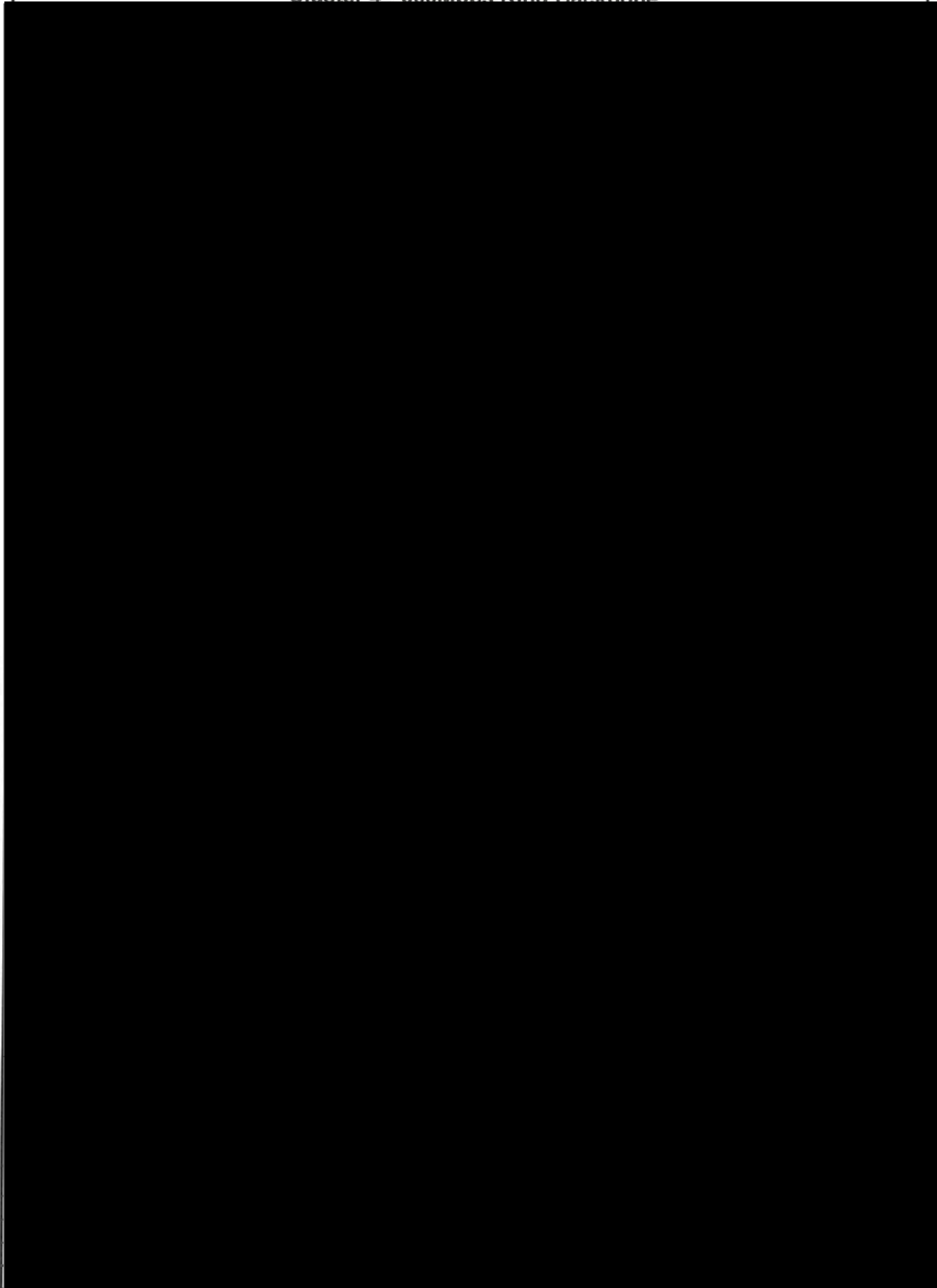
Drawing By: D.S.

Date: 03/19/2010 Preliminary Draft

Filename: EagleNet Cluster 3 201031901

**Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)**

Cluster 4 - 300Mbps Ring Backbone



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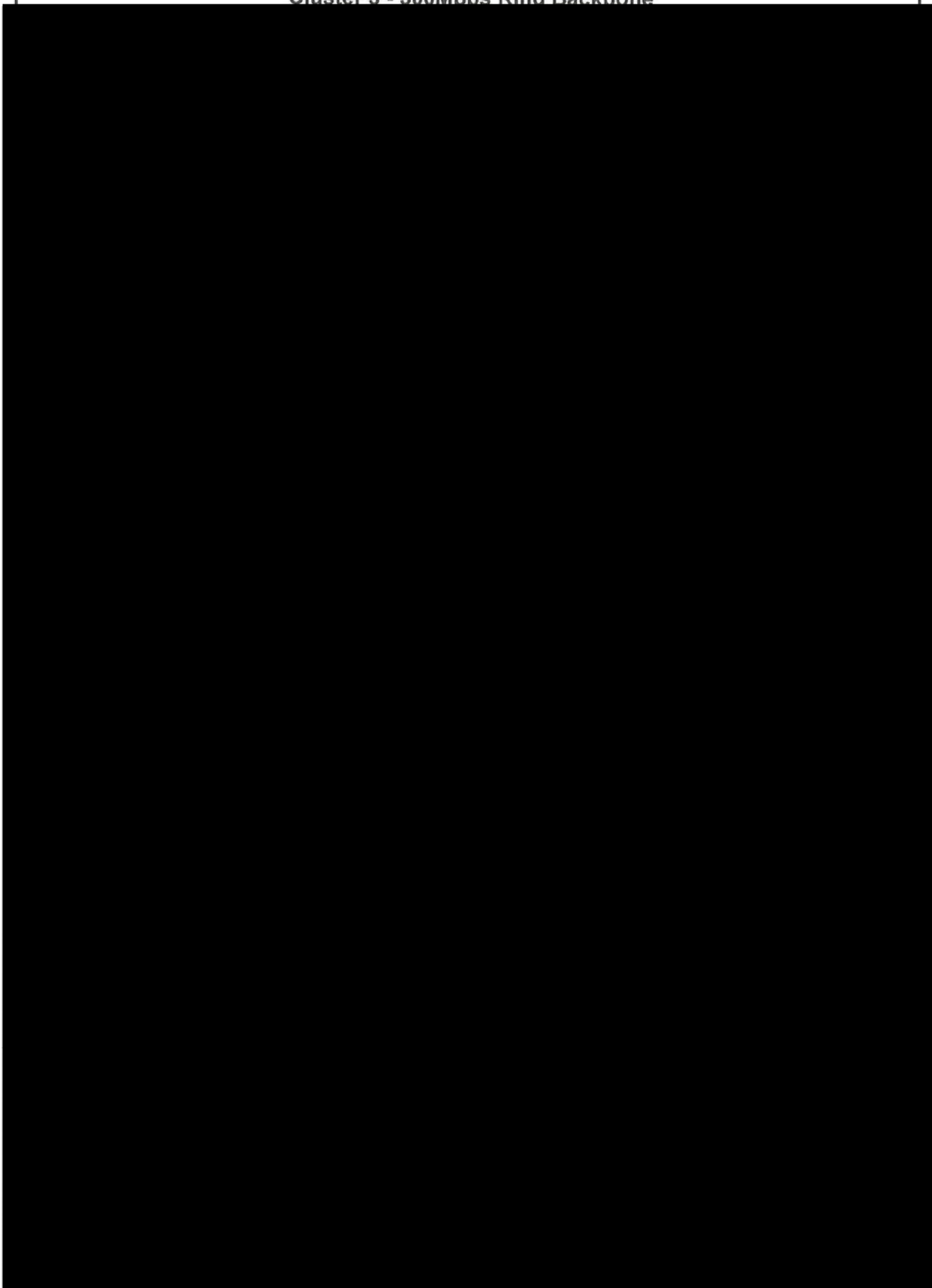
Drawing by: D.S.

Date: 03/20/2010 Preliminary Draft

Filename: EagleNet Cluster 4 201032001

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

# Cluster 5 - 300Mbps Ring Backbone



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Drawing by: D.S.

Date: 03/20/2010 Preliminary Draft

Filename: EagleNet Cluster 5 201032001

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

Cluster 6 - 300Mbps Ring Backbone



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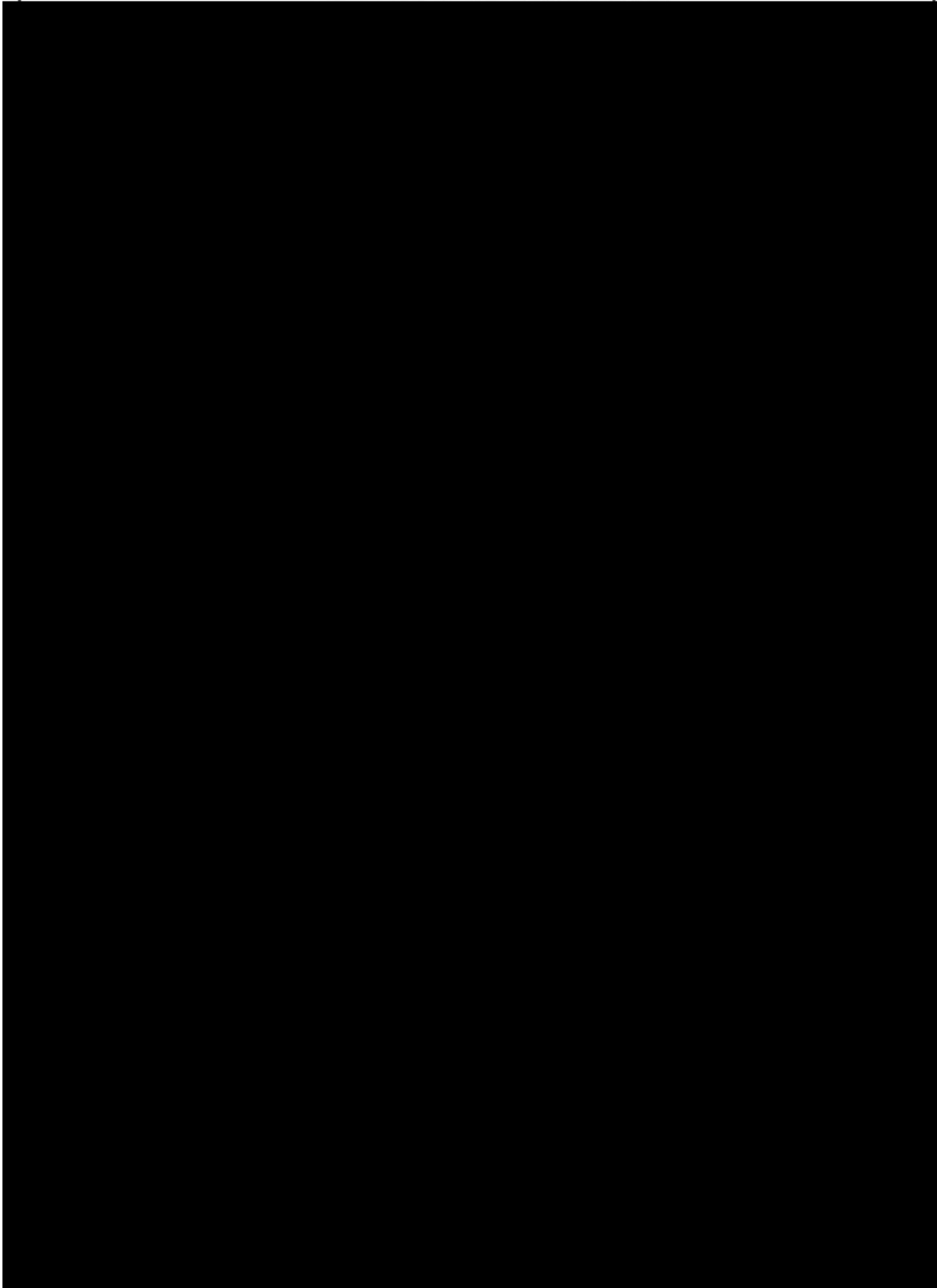
Drawing by: D.S.

Date: 03/21/2010 Preliminary Draft

Filename: EagleNet Cluster 6 2010032101

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

**Cluster 7 - 300Mbps Ring Backbone**



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Wide Area Network

Drawing by: D.S.

Date: 03/21/2010 Preliminary Draft

Filename: EagleNet Cluster 7 2010032101

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

Cluster 8 - 300Mbps Ring Backbone



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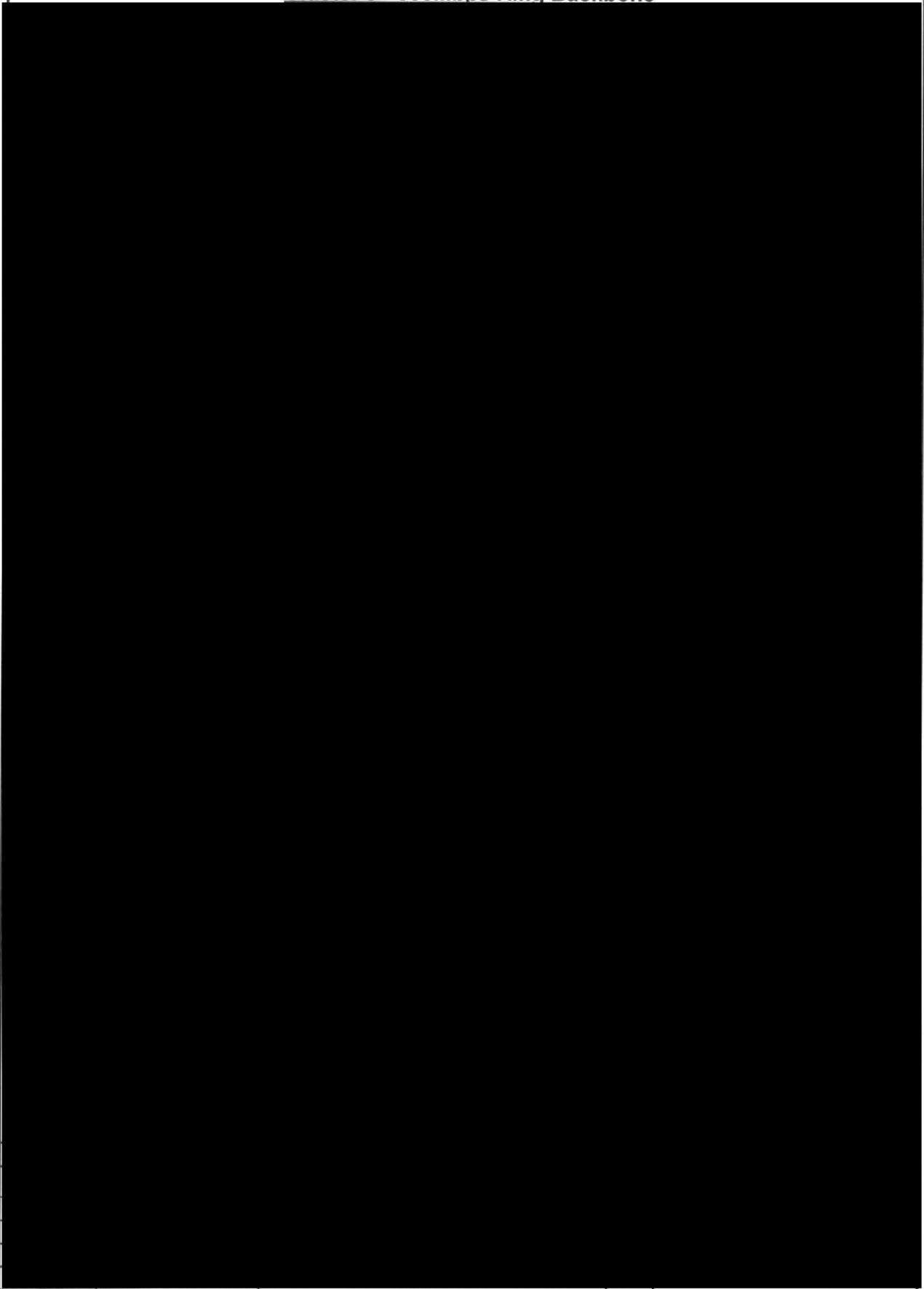
Drawing by: D.S.

Date: 03/21/2010 Preliminary Draft

Filename: EagleNet Cluster 8 2010032101

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

## Cluster 9 - 300Mbps Ring Backbone



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Drawing by: D.S.

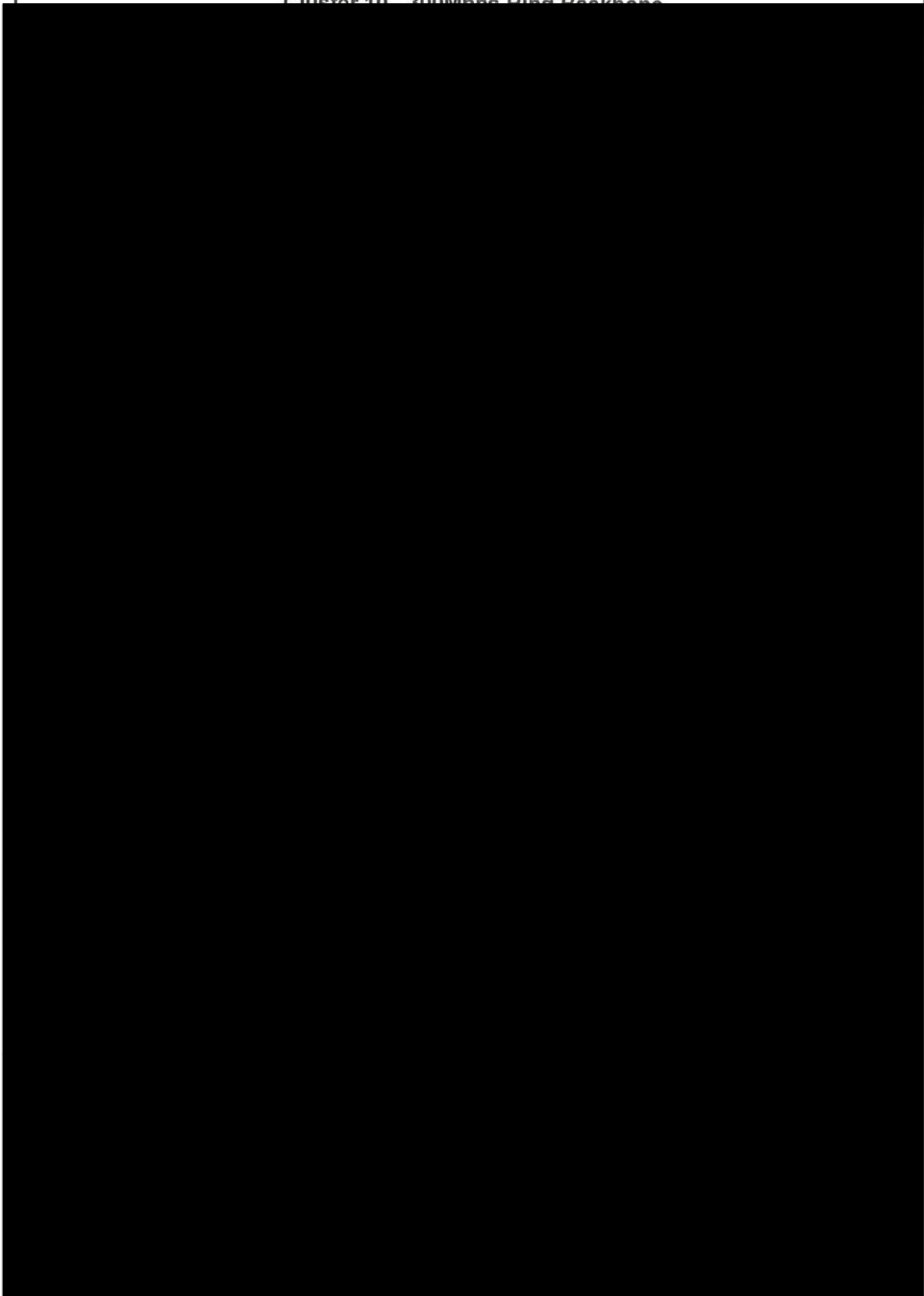
Date: 03/22/2010 Preliminary Draft

Filename: EagleNet Cluster 9 2010032201

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)



Cluster 10 - 300Mbps Ring Backbone



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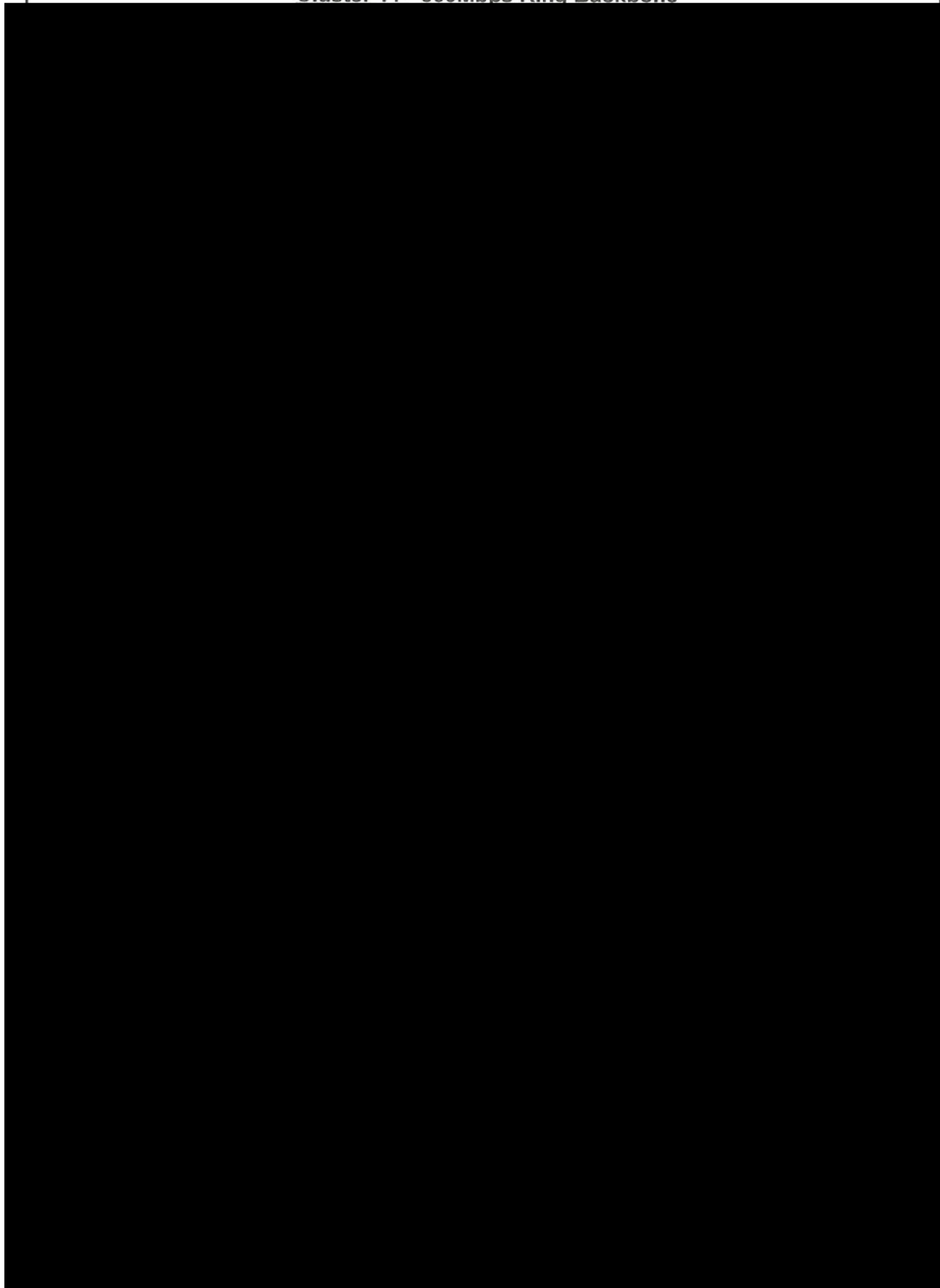
Drawing by: D.S.

Date: 03/22/2010 Preliminary Draft

Filename: EagleNet Cluster 10 2010032201

Proposed Logical Topology - All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

## Cluster 11 - 300Mbps Ring Backbone



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Wide Area Network

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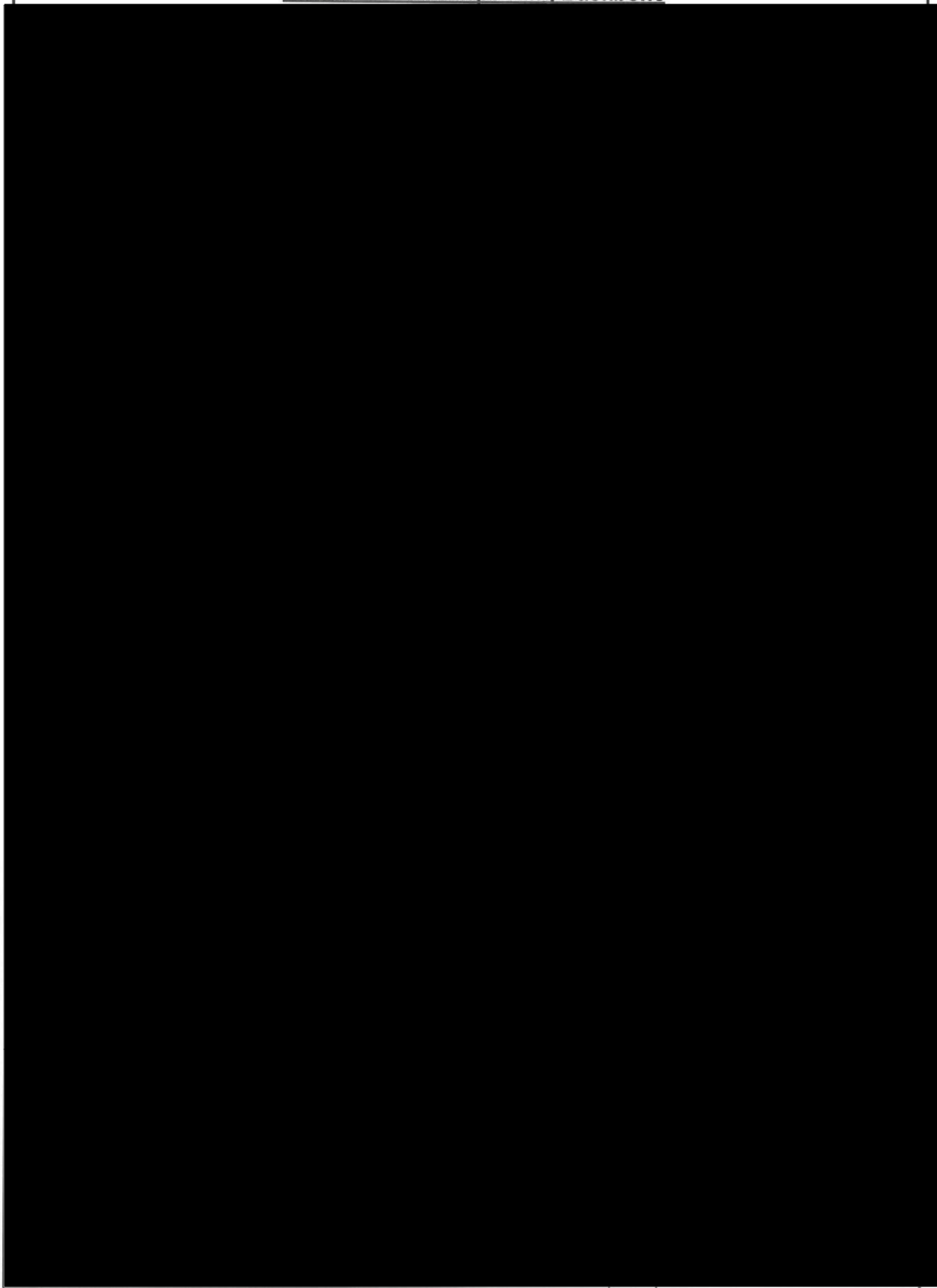
Drawing by: D.S.

Date: 03/22/2010 Preliminary Draft

Filename: EagleNet Cluster 11 2010032201

Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

**Cluster 12 - 300Mbps Ring Backbone**



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Wide Area Network

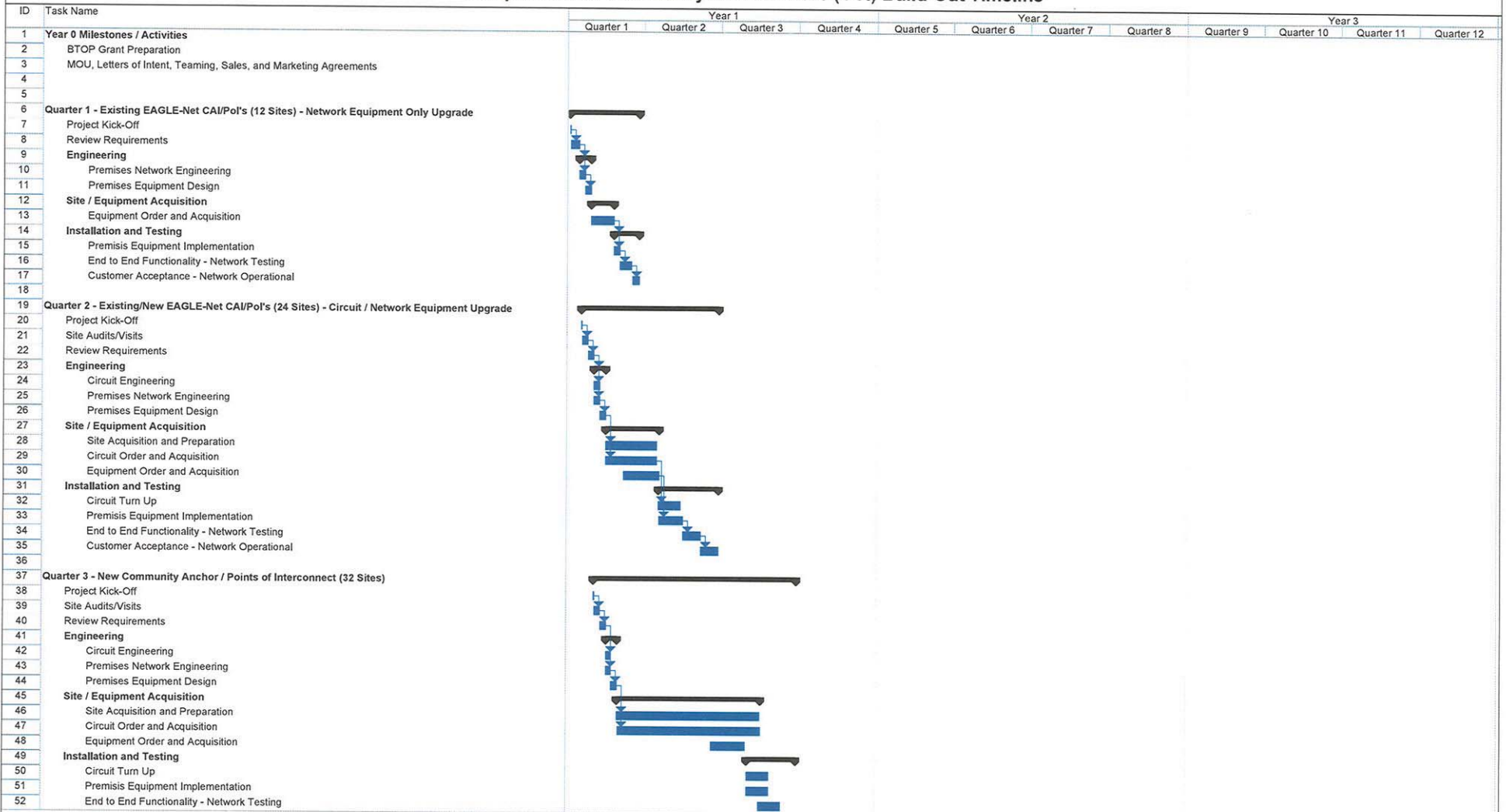
Drawing by: D.S.

Date: 03/22/2010 Preliminary Draft

Filename: EagleNet Cluster 12 2010032201

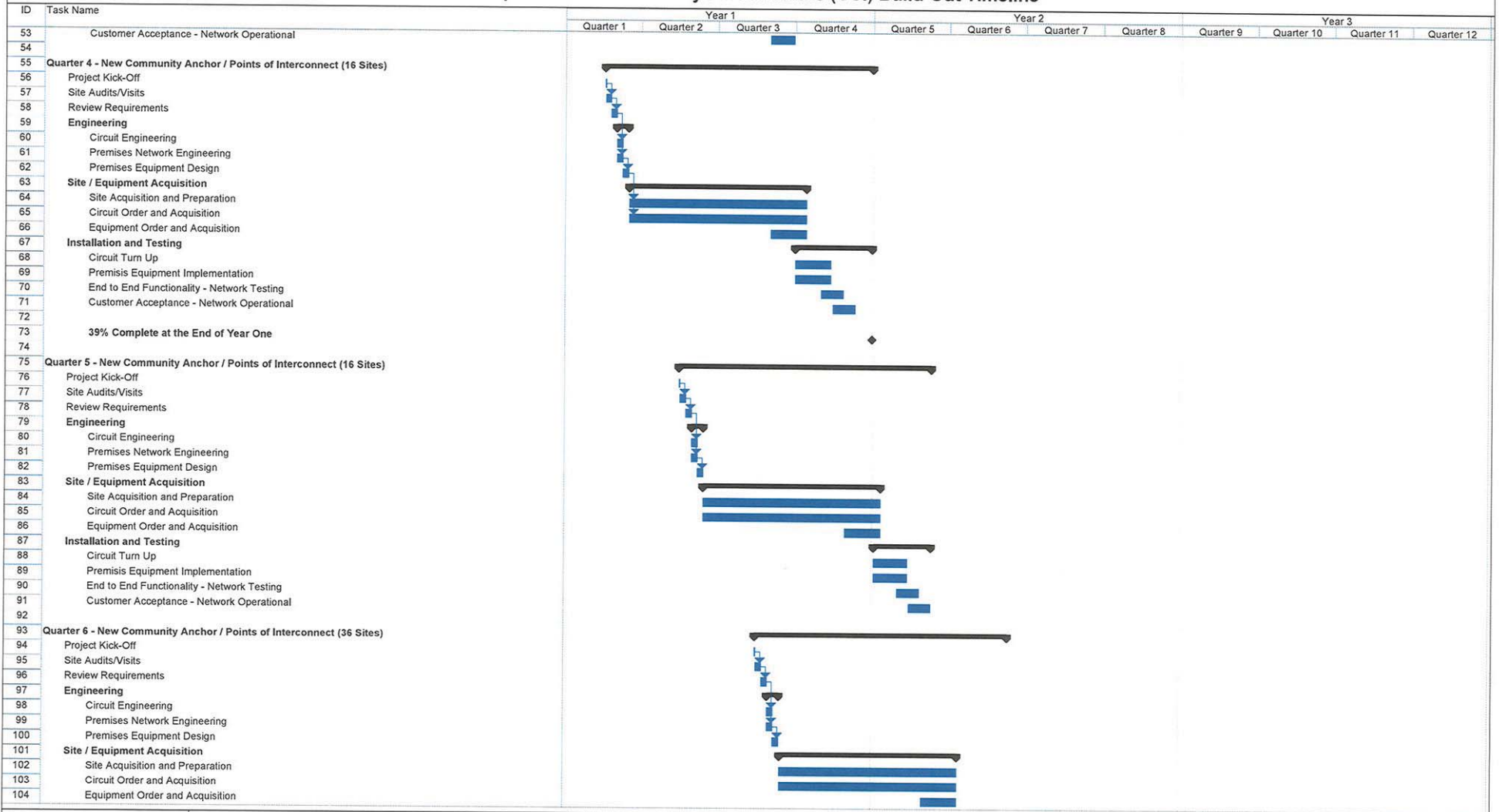
Proposed Logical Topology – All Microwave Design  
with 300 MB Backbone BW (all Edge Radios 50 MB BW)

## Colorado Community Anchors Broadband Consortium - Connecting Colorado's Middle Mile Comprehensive Community Infrastructure (CCI) Build-Out Timeline



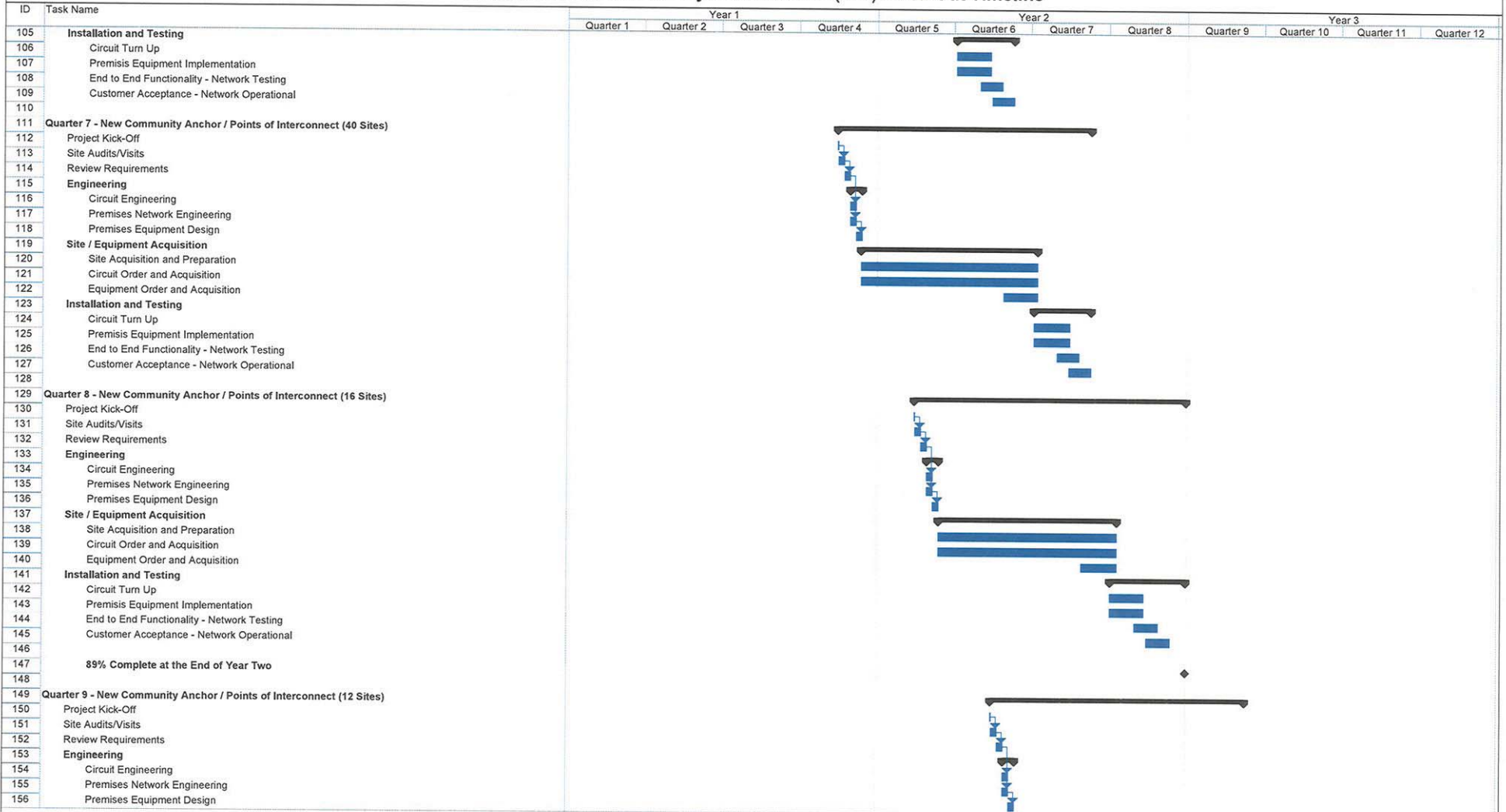
|                                            |       |  |           |  |                 |  |                    |  |          |  |
|--------------------------------------------|-------|--|-----------|--|-----------------|--|--------------------|--|----------|--|
| Project: Connecting Colorado's Middle Mile | Task  |  | Progress  |  | Summary         |  | External Tasks     |  | Deadline |  |
|                                            | Split |  | Milestone |  | Project Summary |  | External Milestone |  |          |  |

## Colorado Community Anchors Broadband Consortium - Connecting Colorado's Middle Mile Comprehensive Community Infrastructure (CCI) Build-Out Timeline



|                                                   |       |           |                 |                    |          |
|---------------------------------------------------|-------|-----------|-----------------|--------------------|----------|
| <b>Project: Connecting Colorado's Middle Mile</b> | Task  | Progress  | Summary         | External Tasks     | Deadline |
|                                                   | Split | Milestone | Project Summary | External Milestone |          |

## Colorado Community Anchors Broadband Consortium - Connecting Colorado's Middle Mile Comprehensive Community Infrastructure (CCI) Build-Out Timeline

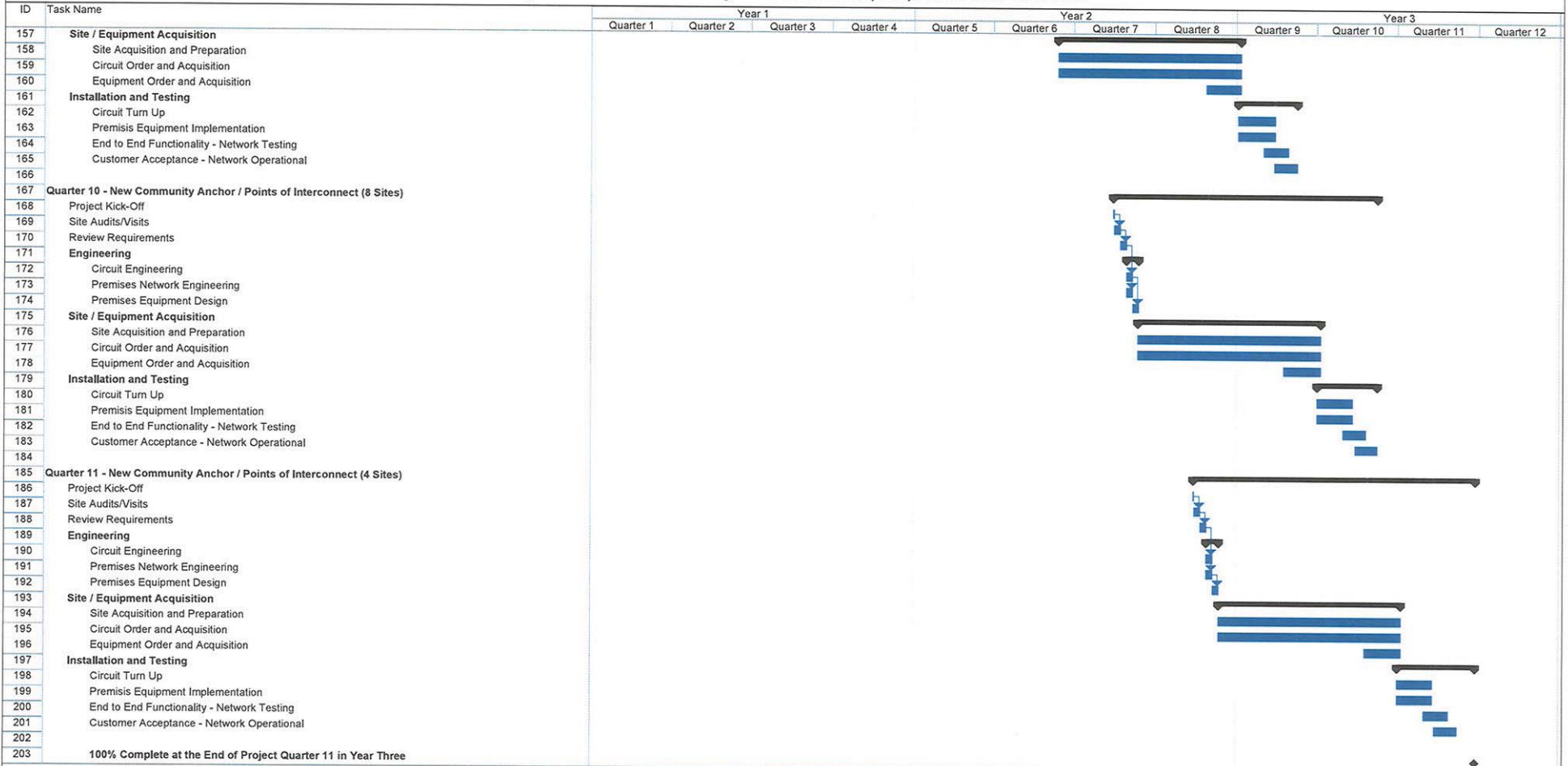


Project: Connecting Colorado's Middle Mile

Task: Progress: Summary: External Tasks: Deadline:

Split: Milestone: Project Summary: External Milestone:

## Colorado Community Anchors Broadband Consortium - Connecting Colorado's Middle Mile Comprehensive Community Infrastructure (CCI) Build-Out Timeline



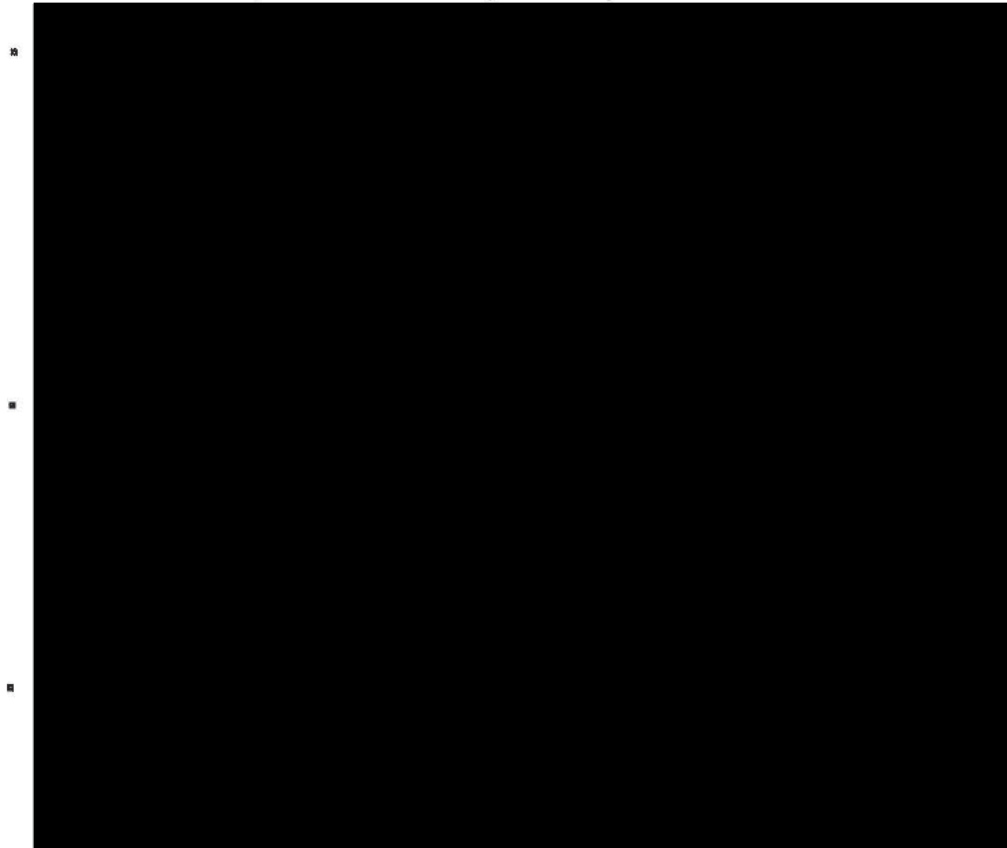
Project: Connecting Colorado's Middle Mile

|       |  |           |  |                 |  |                    |  |          |  |
|-------|--|-----------|--|-----------------|--|--------------------|--|----------|--|
| Task  |  | Progress  |  | Summary         |  | External Tasks     |  | Deadline |  |
| Split |  | Milestone |  | Project Summary |  | External Milestone |  |          |  |

Build-Out Timeline - Reasonableness of Milestones/Data Points

This project is a shovel ready solution. All elements are in place to execute this strategy upon funding award. Items already in place to ensure implementation will be immediate upon receipt of funding include the following:

- CBOCES has been providing technology to K-12 and Higher Education institutions for 40 years and has been providing ISP services to K-12 School Districts since 1999. CBOCES/EAGLE-Net provides network services; transport and technical help desk/on-site support for member school districts and non-member school districts/BOCES in Colorado. EAGLE-Net has secured access to the Internet2 for Colorado K-12 School Districts and other governmental and non-profit entities. EAGLE-Net is familiar with systems and processes required for implementation and build-out of infrastructure to Community Anchor locations.
- CBOCES/EAGLE-Net has an existing a Customer Agreement with IBM to provide volume purchasing discounts, overall project management guidance, and interface with the private partners to insure on time network construction, implementation, and grant compliance.



- Based upon GIS analysis, there are no proposed sites that fall within a National Wetland Inventory (NWI), nor do any of the proposed fiber



routes impact such wetlands. In addition, we will work with an environmental consultant to review the final fiber alignment. If there is an area where a wetland is identified, a formal survey will be completed of the site, and environmental permitting documents will be filed with the USACE and/or the applicable local authorities with jurisdiction over the wetlands. Construction will not commence until all environmental permits are received.

- EAGLE-Net has also developed a key strategic collaboration with the State of Colorado. While the State has not had and does not have the necessary funding to support new or to upgrade infrastructure within the state, the State's role in supporting the project will be a key component that will allow the project to be substantially complete within 24 months and fully complete within 36 months.
- EAGLE-Net has been working to develop strategic collaborations with other public/private entities, Incumbent Local Exchange Carriers, Franchised Cable Operators, Independent Telephone Operators, independent Information services providers, cellular providers, and other fixed wireless companies across the state. The Grant Application includes support letters and endorsements from these entities.

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |        |        |           |           |           |        |        |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|--------|-----------|-----------|-----------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2 |        |           |           | YEAR 3    |        |        |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3    | Qtr. 4    | Qtr. 1    | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |        |        |           |           |           |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 3,823,084 | 3,058,467 | 3,058,467 | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 3%        | 2%        | 2%        | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |        |        |           |           |           |        |        |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 648       | 519       | 519       | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 0%        | 0%        | 0%        | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 734       | 587       | 587       | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 1%        | 1%        | 1%        | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 92        | 74        | 74        | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 2%        | 2%        | 2%        | 0%     | 0%     | 0%     |



| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |        |           |           |           |        |        |        |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|-----------|-----------|-----------|--------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2 |           |           |           | YEAR 3 |        |        |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1 | Qtr. 2    | Qtr. 3    | Qtr. 4    | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |        |           |           |           |        |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 0      | 7,978,610 | 1,994,652 | 2,659,537 | 0      | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 6%        | 1%        | 2%        | 0%     | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |        |           |           |           |        |        |        |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 11,638    | 2,910     | 3,879     | 0      | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 1%        | 0%        | 0%        | 0%     | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 769       | 192       | 256       | 0      | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 2%        | 0%        | 1%        | 0%     | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 0      | 129       | 32        | 43        | 0      | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 3%        | 1%        | 1%        | 0%     | 0%     | 0%     | 0%     |

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |        |        |           |           |           |           |           |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|--------|-----------|-----------|-----------|-----------|-----------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2 |        |           |           | YEAR 3    |           |           |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3    | Qtr. 4    | Qtr. 1    | Qtr. 2    | Qtr. 3    | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |        |        |           |           |           |           |           |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 1,196,791 | 2,393,583 | 1,196,791 | 2,393,583 | 1,196,791 | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 1%        | 2%        | 1%        | 2%        | 1%        | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |        |        |           |           |           |           |           |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 7,915     | 15,831    | 7,915     | 15,831    | 7,915     | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 0%        | 1%        | 0%        | 1%        | 0%        | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 614       | 1,229     | 614       | 1,229     | 614       | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 1%        | 2%        | 1%        | 2%        | 1%        | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 57        | 115       | 57        | 115       | 57        | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 2%        | 3%        | 2%        | 3%        | 2%        | 0%     |

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |        |        |           |        |           |           |           |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|--------|-----------|--------|-----------|-----------|-----------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2 |        |           |        | YEAR 3    |           |           |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3    | Qtr. 4 | Qtr. 1    | Qtr. 2    | Qtr. 3    | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |        |        |           |        |           |           |           |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 3,326,083 | 0      | 1,995,650 | 2,660,866 | 1,330,433 | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 2%        | 0%     | 1%        | 2%        | 1%        | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |        |        |           |        |           |           |           |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 783       | 0      | 470       | 627       | 313       | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 0%        | 0%     | 0%        | 0%        | 0%        | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 1,328     | 0      | 797       | 1,062     | 531       | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 3%        | 0%     | 2%        | 2%        | 1%        | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 131       | 0      | 79        | 105       | 52        | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 3%        | 0%     | 2%        | 3%        | 1%        | 0%     |

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |           |           |         |           |           |        |        |        |         |        |        |        |
|------------------------------------------|---------------------------------------------------|-----------|-----------|---------|-----------|-----------|--------|--------|--------|---------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1    |           |         |           | YEAR 2    |        |        |        | YEAR 3  |        |        |        |
|                                          |                                                   | Qtr. 1    | Qtr. 2    | Qtr. 3  | Qtr. 4    | Qtr. 1    | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1  | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |           |           |         |           |           |        |        |        |         |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 1,130,303 | 3,390,909 | 565,152 | 1,130,303 | 3,390,909 | 0      | 0      | 0      | 565,152 | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 1%        | 2%        | 0%      | 1%        | 2%        | 0%     | 0%     | 0%     | 0%      | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |           |           |         |           |           |        |        |        |         |        |        |        |
| Households                               | 0                                                 | 109,437   | 328,311   | 54,719  | 109,437   | 328,311   | 0      | 0      | 0      | 54,719  | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 7%        | 20%       | 3%      | 7%        | 20%       | 0%     | 0%     | 0%     | 3%      | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 1,785     | 5,355     | 893     | 1,785     | 5,355     | 0      | 0      | 0      | 893     | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 4%        | 11%       | 2%      | 4%        | 11%       | 0%     | 0%     | 0%     | 2%      | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 71        | 213       | 36      | 71        | 213       | 0      | 0      | 0      | 36      | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 2%        | 6%        | 1%      | 2%        | 6%        | 0%     | 0%     | 0%     | 1%      | 0%     | 0%     | 0%     |

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |           |           |         |         |           |           |        |        |        |        |        |
|------------------------------------------|---------------------------------------------------|--------|-----------|-----------|---------|---------|-----------|-----------|--------|--------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1 |           |           |         | YEAR 2  |           |           |        | YEAR 3 |        |        |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2    | Qtr. 3    | Qtr. 4  | Qtr. 1  | Qtr. 2    | Qtr. 3    | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |           |           |         |         |           |           |        |        |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 2,991,979 | 2,991,979 | 598,396 | 598,396 | 3,590,374 | 1,196,791 | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 2%        | 2%        | 0%      | 0%      | 2%        | 1%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |        |           |           |         |         |           |           |        |        |        |        |        |
| Households                               | 0                                                 | 0      | 53,198    | 53,198    | 10,640  | 10,640  | 63,837    | 21,279    | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 3%        | 3%        | 1%      | 1%      | 4%        | 1%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 0      | 1,133     | 1,133     | 227     | 227     | 1,359     | 453       | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 2%        | 2%        | 0%      | 0%      | 3%        | 1%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 67        | 67        | 13      | 13      | 80        | 27        | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 2%        | 2%        | 0%      | 0%      | 2%        | 1%        | 0%     | 0%     | 0%     | 0%     | 0%     |





| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |        |           |           |        |        |        |        |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|-----------|-----------|--------|--------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2 |           |           |        | YEAR 3 |        |        |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1 | Qtr. 2    | Qtr. 3    | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |        |           |           |        |        |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 0      | 4,882,829 | 4,882,829 | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 4%        | 4%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |        |           |           |        |        |        |        |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 6,335     | 6,335     | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%        | 0%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 1,817     | 1,817     | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 4%        | 4%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 0      | 93        | 93        | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 2%        | 2%        | 0%     | 0%     | 0%     | 0%     | 0%     |



| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |        |        |           |           |           |        |        |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|--------|-----------|-----------|-----------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2 |        |           |           | YEAR 3    |        |        |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3    | Qtr. 4    | Qtr. 1    | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |        |        |           |           |           |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 7,180,749 | 2,393,583 | 1,196,791 | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 5%        | 2%        | 1%        | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |        |        |           |           |           |        |        |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 61,886    | 20,629    | 10,314    | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 4%        | 1%        | 1%        | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 2,419     | 806       | 403       | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 5%        | 2%        | 1%        | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 0      | 0      | 197       | 66        | 33        | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     | 5%        | 2%        | 1%        | 0%     | 0%     | 0%     |

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |        |        |        |        |           |           |           |        |        |        |        |        |
|------------------------------------------|---------------------------------------------------|--------|--------|--------|--------|-----------|-----------|-----------|--------|--------|--------|--------|--------|
|                                          | YEAR 0                                            | YEAR 1 |        |        |        | YEAR 2    |           |           |        | YEAR 3 |        |        |        |
|                                          |                                                   | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 | Qtr. 1    | Qtr. 2    | Qtr. 3    | Qtr. 4 | Qtr. 1 | Qtr. 2 | Qtr. 3 | Qtr. 4 |
| Infrastructure Funds                     |                                                   |        |        |        |        |           |           |           |        |        |        |        |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 0      | 0      | 0      | 0      | 4,388,235 | 8,045,098 | 2,925,490 | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Funds                | 0%                                                | 0%     | 0%     | 0%     | 0%     | 3%        | 6%        | 2%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Entities Passed & %                      |                                                   |        |        |        |        |           |           |           |        |        |        |        |        |
| Households                               | 0                                                 | 0      | 0      | 0      | 0      | 5,811     | 10,653    | 3,874     | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Households           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 0%        | 1%        | 0%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Businesses                               | 0                                                 | 0      | 0      | 0      | 0      | 495       | 908       | 330       | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Businesses           | 0%                                                | 0%     | 0%     | 0%     | 0%     | 1%        | 2%        | 1%        | 0%     | 0%     | 0%     | 0%     | 0%     |
| Community Anchor Institutions            | 0                                                 | 0      | 0      | 0      | 0      | 76        | 139       | 50        | 0      | 0      | 0      | 0      | 0      |
| Percentage of Total Institutions         | 0%                                                | 0%     | 0%     | 0%     | 0%     | 2%        | 4%        | 1%        | 0%     | 0%     | 0%     | 0%     | 0%     |

| Service Area                             | CCABC Project - Connecting Colorado's Middle Mile |           |            |            |            |            |            |            |            |           |           |           |        |
|------------------------------------------|---------------------------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|--------|
|                                          | YEAR 0                                            | YEAR 1    |            |            |            | YEAR 2     |            |            |            | YEAR 3    |           |           |        |
|                                          |                                                   | Qtr. 1    | Qtr. 2     | Qtr. 3     | Qtr. 4     | Qtr. 1     | Qtr. 2     | Qtr. 3     | Qtr. 4     | Qtr. 1    | Qtr. 2    | Qtr. 3    | Qtr. 4 |
| Infrastructure Funds                     |                                                   |           |            |            |            |            |            |            |            |           |           |           |        |
| Infrastructure Funds Advanced (estimate) | 0                                                 | 7,779,144 | 15,026,381 | 21,641,978 | 11,269,786 | 10,471,925 | 24,733,690 | 26,763,248 | 10,505,169 | 8,012,851 | 5,054,449 | 2,527,225 | 0      |
| Percentage of Total Funds                | 0%                                                | 5%        | 10%        | 15%        | 8%         | 7%         | 17%        | 19%        | 7%         | 6%        | 4%        | 2%        | 0%     |
| Entities Passed & %                      |                                                   |           |            |            |            |            |            |            |            |           |           |           |        |
| Households                               | 0                                                 | 188,556   | 455,753    | 160,143    | 134,304    | 347,524    | 92,463     | 105,630    | 40,857     | 73,937    | 16,457    | 8,229     | 0      |
| Percentage of Total Households           | 0%                                                | 12%       | 28%        | 10%        | 8%         | 21%        | 6%         | 7%         | 3%         | 5%        | 1%        | 1%        | 0%     |
| Businesses                               | 0                                                 | 4,879     | 9,457      | 4,406      | 2,755      | 6,231      | 4,852      | 7,887      | 2,879      | 3,294     | 2,291     | 1,145     | 0      |
| Percentage of Total Businesses           | 0%                                                | 10%       | 19%        | 9%         | 6%         | 12%        | 10%        | 16%        | 6%         | 7%        | 5%        | 2%        | 0%     |
| Community Anchor Institutions            | 0                                                 | 279       | 499        | 399        | 231        | 331        | 441        | 680        | 297        | 278       | 219       | 110       | 0      |
| Percentage of Total Institutions         | 0%                                                | 7%        | 13%        | 11%        | 6%         | 9%         | 12%        | 18%        | 8%         | 7%        | 6%        | 3%        | 0%     |

**BUDGET INFORMATION - Construction Programs**

OMB Approval No. 4040-0008  
Expiration Date 07/30/2010

*NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.*

| COST CLASSIFICATION                                                                                                                                     | a. Total Cost                                                                      | b. Costs Not Allowable for Participation | c. Total Allowable Costs (Columns a-b) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|
| 1. Administrative and legal expenses                                                                                                                    | \$ 252,000.00                                                                      | \$                                       | \$ 252,000.00                          |
| 2. Land, structures, rights-of-way, appraisals, etc.                                                                                                    | \$ 25,920,628.00                                                                   | \$                                       | \$ 25,920,628.00                       |
| 3. Relocation expenses and payments                                                                                                                     | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 4. Architectural and engineering fees                                                                                                                   | \$ 16,755,059.00                                                                   | \$                                       | \$ 16,755,059.00                       |
| 5. Other architectural and engineering fees                                                                                                             | \$ 232,848.00                                                                      | \$                                       | \$ 232,848.00                          |
| 6. Project inspection fees                                                                                                                              | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 7. Site work                                                                                                                                            | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 8. Demolition and removal                                                                                                                               | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 9. Construction                                                                                                                                         | \$ 100,625,312.00                                                                  | \$                                       | \$ 100,625,312.00                      |
| 10. Equipment                                                                                                                                           | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 11. Miscellaneous                                                                                                                                       | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 12. SUBTOTAL (sum of lines 1- 11)                                                                                                                       | \$ 143,785,847.00                                                                  | \$ 0.00                                  | \$ 143,785,847.00                      |
| 13. Contingencies                                                                                                                                       | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 14. SUBTOTAL                                                                                                                                            | \$ 143,785,847.00                                                                  | \$ 0.00                                  | \$ 143,785,847.00                      |
| 15. Project (program) income                                                                                                                            | \$ 0.00                                                                            | \$                                       | \$ 0.00                                |
| 16. TOTAL PROJECT COSTS (subtract #15 from #14)                                                                                                         | \$ 143,785,847.00                                                                  | \$ 0.00                                  | \$ 143,785,847.00                      |
| <b>FEDERAL FUNDING</b>                                                                                                                                  |                                                                                    |                                          |                                        |
| 17. Federal assistance requested, calculate as follows:<br>(Consult Federal agency for Federal percentage share.)<br>Enter the resulting Federal share. | Enter eligible costs from line 16c Multiply X <input type="text" value="69.99"/> % |                                          | \$ 100,635,190.00                      |

## INSTRUCTIONS FOR THE SF-424C

Public reporting burden for this collection of information is estimated to average 180 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0041), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

This sheet is to be used for the following types of applications: (1) "New" (means a new [previously unfunded] assistance award); (2) "Continuation" (means funding in a succeeding budget period which stemmed from a prior agreement to fund); and (3) "Revised" (means any changes in the Federal Government's financial obligations or contingent liability from an existing obligation). If there is no change in the award amount, there is no need to complete this form. Certain Federal agencies may require only an explanatory letter to effect minor (no cost) changes. If you have questions, please contact the Federal agency.

*Column a.* - If this is an application for a "New" project, enter the total estimated cost of each of the items listed on lines 1 through 16 (as applicable) under "COST CLASSIFICATION."

If this application entails a change to an existing award, enter the eligible amounts *approved under the previous award* for the items under "COST CLASSIFICATION."

*Column b.* - If this is an application for a "New" project, enter that portion of the cost of each item in Column a. which is *not* allowable for Federal assistance. Contact the Federal agency for assistance in determining the allowability of specific costs.

If this application entails a change to an existing award, enter the adjustment [+ or (-)] to the previously approved costs (from column a.) reflected in this application.

*Column.* - This is the net of lines 1 through 16 in columns "a." and "b."

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Line 1 - Enter estimated amounts needed to cover administrative expenses. Do not include costs which are related to the normal functions of government. Allowable legal costs are generally only those associated with the purchases of land which is allowable for Federal participation and certain services in support of construction of the project.

Line 2 - Enter estimated site and right(s)-of-way acquisition costs (this includes purchase, lease, and/or easements).

Line 3 - Enter estimated costs related to relocation advisory assistance, replacement housing, relocation payments to displaced persons and businesses, etc.

Line 4 - Enter estimated basic engineering fees related to construction (this includes start-up services and preparation of project performance work plan).

Line 5 - Enter estimated engineering costs, such as surveys, tests, soil borings, etc.

Line 6 - Enter estimated engineering inspection costs.

Line 7 - Enter estimated costs of site preparation and restoration which are not included in the basic construction contract.

Line 9 - Enter estimated cost of the construction contract.

Line 10 - Enter estimated cost of office, shop, laboratory, safety equipment, etc. to be used at the facility, if such costs are not included in the construction contract.

Line 11 - Enter estimated miscellaneous costs.

Line 12 - Total of items 1 through 11.

Line 13 - Enter estimated contingency costs. (Consult the Federal agency for the percentage of the estimated construction cost to use.)

Line 14 - Enter the total of lines 12 and 13.

Line 15 - Enter estimated program income to be earned during the grant period, e.g., salvaged materials, etc.

Line 16 - Subtract line 15 from line 14.

Line 17 - This block is for the computation of the Federal share. Multiply the total allowable project costs from line 16, column "c." by the Federal percentage share (this may be up to 100 percent; consult Federal agency for Federal percentage share) and enter the product on line 17.



## ASSURANCES - CONSTRUCTION PROGRAMS

OMB Approval No. 4040-0009  
Expiration Date 07/30/2010

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0042), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the Awarding Agency. Further, certain Federal assistance awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance, and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project costs) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, the right to examine all records, books, papers, or documents related to the assistance; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will not dispose of, modify the use of, or change the terms of the real property title, or other interest in the site and facilities without permission and instructions from the awarding agency. Will record the Federal awarding agency directives and will include a covenant in the title of real property acquired in whole or in part with Federal assistance funds to assure non-discrimination during the useful life of the project.
4. Will comply with the requirements of the assistance awarding agency with regard to the drafting, review and approval of construction plans and specifications.
5. Will provide and maintain competent and adequate engineering supervision at the construction site to ensure that the complete work conforms with the approved plans and specifications and will furnish progress reports and such other information as may be required by the assistance awarding agency or State.
6. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
7. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
8. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
9. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
10. Will comply with all Federal statutes relating to non-discrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681 1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-1 33, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

|                                                                                        |                                     |
|----------------------------------------------------------------------------------------|-------------------------------------|
| *SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL<br><i>Jack McCabe</i>                     | *TITLE<br><i>Executive Director</i> |
| *APPLICANT ORGANIZATION<br><i>Centennial Board of Cooperative Educational Services</i> | *DATE SUBMITTED<br><i>3/26/10</i>   |

**BTOP Comprehensive Community Infrastructure  
Detailed Budget**

Please complete the General Budget Overview and Detailed Project Costs worksheets.

**Please refer to the Comprehensive Community Infrastructure Grant Guidance for detailed instructions on the completing this upload.**

Applicants are required to provide this upload as an Excel file, and not to convert it to a PDF prior to upload. Applicants should not alter the layout of the provided templates, except to insert additional line-items as needed in the Detailed Project Costs worksheet.

## General Budget Overview

| Budget                                                                                                                  | Federal Funding Request | Matching Funds (Cash) | Matching Funds (In-Kind) | Budget TOTAL         | Last Mile Allocation | Middle Mile Allocation | Allocated TOTAL      |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|--------------------------|----------------------|----------------------|------------------------|----------------------|
| Network & Access Equipment (switching, routing, transport, access)                                                      | \$37,297,143            | \$13,157,000          | \$5,525,657              | \$55,979,800         | \$0.00               | \$55,979,800.00        | \$55,979,800         |
| Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)                                                 | \$25,798,498            | \$4,457,000           | \$10,000,000             | \$40,255,498         | \$0.00               | \$40,255,498.00        | \$40,255,498         |
| Buildings and Land – (new construction, improvements, renovations, lease)                                               | \$13,724,184            | \$0                   | \$3,000,000              | \$16,724,184         | \$0.00               | \$16,724,184.00        | \$16,724,184         |
| Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)                                                 | \$0                     | \$0                   | \$0                      | \$0                  | \$0.00               | \$0.00                 | \$0                  |
| Billing and Operational Support Systems (IT systems, software, etc.)                                                    | \$0                     | \$0                   | \$0                      | \$0                  | \$0.00               | \$0.00                 | \$0                  |
| Operating Equipment (vehicles, office equipment, other)                                                                 | \$0                     | \$0                   | \$0                      | \$0                  | \$0.00               | \$0.00                 | \$0                  |
| Engineering/Professional Services (engineering design, project management, consulting, etc.)                            | \$19,810,967            | \$6,353,000           | \$0                      | \$26,163,967         | \$0.00               | \$26,163,967.00        | \$26,163,967         |
| Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.) | \$537,140               | \$0                   | \$0                      | \$537,140            | \$0.00               | \$537,140.00           | \$537,140            |
| Site Preparation                                                                                                        | \$2,576,858             | \$658,000             | \$0                      | \$3,234,858          | \$0.00               | \$3,234,858.00         | \$3,234,858          |
| Other                                                                                                                   | \$890,400               | \$0                   | \$0                      | \$890,400            | \$0.00               | \$890,400.00           | \$890,400            |
| <b>TOTAL BROADBAND SYSTEM:</b>                                                                                          | <b>\$100,635,190</b>    | <b>\$24,625,000</b>   | <b>\$18,525,657</b>      | <b>\$143,785,847</b> | <b>\$0</b>           | <b>\$143,785,847</b>   | <b>\$143,785,847</b> |
| Cost Share Percentage:                                                                                                  | 69.99%                  | 17.13%                | 12.88%                   |                      |                      |                        |                      |

### DETAIL OF PROJECT COSTS

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

| SERVICE AREA or COMMON NETWORK FACILITIES    | Match (Cash/In-Kind)          | Unit Cost      | No. of Units | Total Cost          | Last Mile Allocation | Middle Mile Allocation | Allocated Total     | SF-424C Budget Category | Support of Reasonableness |
|----------------------------------------------|-------------------------------|----------------|--------------|---------------------|----------------------|------------------------|---------------------|-------------------------|---------------------------|
|                                              |                               |                |              | <b>\$55,979,800</b> | <b>\$0</b>           | <b>\$55,979,800.00</b> | <b>\$55,979,800</b> |                         |                           |
| Switching                                    | Layer 3 (Edge) Switches       | \$2,517.00     | 373          | \$938,841           |                      | \$938,841.00           | \$938,841           | 9. Construction         |                           |
|                                              |                               |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                              |                               |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Routing                                      | Core Network Routers          | \$5,160,680.00 | 1            | \$5,160,680         |                      | \$5,160,680.00         | \$5,160,680         | 9. Construction         |                           |
|                                              | Aggregation Site Routers      | \$129,635.00   | 25           | \$3,240,875         |                      | \$3,240,875.00         | \$3,240,875         | 9. Construction         |                           |
|                                              | Cash Match                    | \$25,000.00    | 1            | \$25,000            |                      | \$25,000.00            | \$25,000            | 9. Construction         |                           |
| Transport                                    | Cash Match                    | \$1,200,000.00 | 1            | \$1,200,000         |                      | \$1,200,000.00         | \$1,200,000         | 9. Construction         |                           |
|                                              |                               | \$9,408,102.00 | 1            | \$9,408,102         |                      | \$9,408,102.00         | \$9,408,102         | 9. Construction         |                           |
|                                              |                               | \$7,515,720.00 | 1            | \$7,515,720         |                      | \$7,515,720.00         | \$7,515,720         | 9. Construction         |                           |
|                                              | Cash Match                    | \$5,000,000.00 | 1            | \$5,000,000         |                      | \$5,000,000.00         | \$5,000,000         | 9. Construction         |                           |
| Access                                       | In-kind Match                 | \$4,397,308.00 | 1            | \$4,397,308         |                      | \$4,397,308.00         | \$4,397,308         | 9. Construction         |                           |
|                                              | In-kind Match                 | \$1,020,349.00 | 1            | \$1,020,349         |                      | \$1,020,349.00         | \$1,020,349         | 9. Construction         |                           |
| Other                                        |                               |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                              | Integration                   | \$1,328,857.00 | 1            | \$1,328,857         |                      | \$1,328,857.00         | \$1,328,857         | 9. Construction         |                           |
|                                              | Enclosures                    | \$1,627.00     | 216          | \$351,432           |                      | \$351,432.00           | \$351,432           | 9. Construction         |                           |
|                                              | UPS                           | \$1,400.00     | 216          | \$302,400           |                      | \$302,400.00           | \$302,400           | 9. Construction         |                           |
|                                              | Cabling                       | \$65.00        | 700          | \$45,500            |                      | \$45,500.00            | \$45,500            | 9. Construction         |                           |
| Carrier Grade Licensed MW Radios             | 150 Mbps 6 Ghz                | \$8,422.00     | 28           | \$218,972           |                      | \$218,972.00           | \$218,972           | 9. Construction         |                           |
|                                              | 150 Mbps 6 Ghz High Power     | \$9,939.00     | 54           | \$536,706           |                      | \$536,706.00           | \$536,706           | 9. Construction         |                           |
|                                              | 150 Mbps 11 Ghz               | \$8,422.00     | 80           | \$673,760           |                      | \$673,760.00           | \$673,760           | 9. Construction         |                           |
|                                              | 150 Mbps 11 Ghz High Power    | \$9,939.00     | 64           | \$636,096           |                      | \$636,096.00           | \$636,096           | 9. Construction         |                           |
|                                              | 150 Mbps 18/23 Ghz            | \$7,643.00     | 144          | \$1,100,592         |                      | \$1,100,592.00         | \$1,100,592         | 9. Construction         |                           |
|                                              | 300 Mbps 6 Ghz                | \$15,960.00    | 2            | \$31,920            |                      | \$31,920.00            | \$31,920            | 9. Construction         |                           |
|                                              | 300 Mbps 6 Ghz High Power     | \$19,212.00    | 32           | \$614,784           |                      | \$614,784.00           | \$614,784           | 9. Construction         |                           |
|                                              | 300 Mbps 11 Ghz               | \$15,960.00    | 44           | \$702,240           |                      | \$702,240.00           | \$702,240           | 9. Construction         |                           |
|                                              | 300 Mbps 11 Ghz High Power    | \$19,213.00    | 88           | \$1,690,744         |                      | \$1,690,744.00         | \$1,690,744         | 9. Construction         |                           |
|                                              | 300 Mbps 18/23 Ghz            | \$11,041.00    | 36           | \$397,476           |                      | \$397,476.00           | \$397,476           | 9. Construction         |                           |
| Licensed MW Cross Pole Antenna               | 1' Antenna (23 Ghz)           | \$319.00       | 106          | \$33,814            |                      | \$33,814.00            | \$33,814            | 9. Construction         |                           |
|                                              | 2' 18 Ghz Antenna             | \$433.00       | 67           | \$29,011            |                      | \$29,011.00            | \$29,011            | 9. Construction         |                           |
|                                              | 2' 11 Ghz Antenna             | \$1,217.00     | 9            | \$10,953            |                      | \$10,953.00            | \$10,953            | 9. Construction         |                           |
|                                              | 2.5' Antenna (non-integrated) | \$1,243.00     | 7            | \$8,701             |                      | \$8,701.00             | \$8,701             | 9. Construction         |                           |
|                                              | 3' 11 Ghz Antenna HPF         | \$1,235.00     | 101          | \$124,735           |                      | \$124,735.00           | \$124,735           | 9. Construction         |                           |
|                                              | 4' 11 Ghz Antenna             | \$1,475.00     | 138          | \$203,550           |                      | \$203,550.00           | \$203,550           | 9. Construction         |                           |
|                                              | 6' Antenna 11/18 Ghz          | \$3,212.00     | 26           | \$83,512            |                      | \$83,512.00            | \$83,512            | 9. Construction         |                           |
|                                              | 6' Antenna 6 Ghz              | \$3,212.00     | 90           | \$289,080           |                      | \$289,080.00           | \$289,080           | 9. Construction         |                           |
| Antenna Mounts, Chain Mounts, and Stiff Arms | 8' Antenna                    | \$5,008.00     | 26           | \$130,208           |                      | \$130,208.00           | \$130,208           | 9. Construction         |                           |
|                                              | 1 ft Antenna Mount Kit        | \$420.00       | 108          | \$44,520            |                      | \$44,520.00            | \$44,520            | 9. Construction         |                           |
|                                              | 2 ft Antenna Mount Kit        | \$420.00       | 83           | \$34,860            |                      | \$34,860.00            | \$34,860            | 9. Construction         |                           |
|                                              | 3 ft Antenna Mount Kit        | \$420.00       | 101          | \$42,420            |                      | \$42,420.00            | \$42,420            | 9. Construction         |                           |
|                                              | 4 ft Antenna Mount Kit        | \$664.00       | 138          | \$91,632            |                      | \$91,632.00            | \$91,632            | 9. Construction         |                           |
|                                              | 6 ft Antenna Mount Kit        | \$664.00       | 116          | \$77,024            |                      | \$77,024.00            | \$77,024            | 9. Construction         |                           |
| Neg 48V DC                                   | 8 ft Antenna Mount Kit        | \$747.00       | 26           | \$19,422            |                      | \$19,422.00            | \$19,422            | 9. Construction         |                           |
|                                              | Edge Site Rectifier           | \$1,638.00     | 142          | \$232,596           |                      | \$232,596.00           | \$232,596           | 9. Construction         |                           |

|                              |                                                 |                |                 |         |                     |            |                        |                     |                     |
|------------------------------|-------------------------------------------------|----------------|-----------------|---------|---------------------|------------|------------------------|---------------------|---------------------|
| Power Systems and DC Battery | Intermediate Site Rectifier                     |                | \$2,067.00      | 159     | \$328,653           |            | \$328,653.00           | \$328,653           | 9. Construction     |
| Backup Systems               | Edge Site DC Battery Backup                     |                | \$873.00        | 142     | \$95,566            |            | \$95,566.00            | \$95,566            | 9. Construction     |
| Other Microwave              | Intermed Site DC Battery Backup                 |                | \$924.00        | 157     | \$145,068           |            | \$145,068.00           | \$145,068           | 9. Construction     |
|                              | Microwave Radio Installation                    |                | \$525.00        | 570     | \$299,250           |            | \$299,250.00           | \$299,250           | 9. Construction     |
|                              | DC Power Supply Installation                    |                | \$140.00        | 299     | \$41,860            |            | \$41,860.00            | \$41,860            | 9. Construction     |
|                              | Side-Band Switches                              |                | \$223.00        | 157     | \$35,011            |            | \$35,011.00            | \$35,011            | 9. Construction     |
|                              | Cash Match                                      | \$5,000,000.00 |                 | 1       | \$5,000,000         |            | \$5,000,000.00         | \$5,000,000         | 9. Construction     |
|                              | Cash Match                                      | \$1,932,000.00 |                 | 1       | \$1,932,000         |            | \$1,932,000.00         | \$1,932,000         | 9. Construction     |
|                              | In-kind Match                                   | \$108,000.00   |                 | 1       | \$108,000           |            | \$108,000.00           | \$108,000           | 9. Construction     |
| <b>OUTSIDE PLANT</b>         |                                                 |                |                 |         | <b>\$40,255,498</b> | <b>\$0</b> | <b>\$40,255,498.00</b> | <b>\$40,255,498</b> |                     |
| Cables                       | Provide & Install 24SM FOC                      |                | \$0.99          | 1673000 | \$1,651,251         |            | \$1,651,251.00         | \$1,651,251         | 9. Construction     |
|                              | Cash Match                                      | \$1,000,000.00 |                 | 1       | \$1,000,000         |            | \$1,000,000.00         | \$1,000,000         | 9. Construction     |
|                              | Cash Match                                      | \$2,000,000.00 |                 | 1       | \$2,000,000         |            | \$2,000,000.00         | \$2,000,000         | 9. Construction     |
|                              | Cash Match                                      | \$200,000.00   |                 | 1       | \$200,000           |            | \$200,000.00           | \$200,000           | 9. Construction     |
|                              | Cash Match                                      | \$200,000.00   |                 | 1       | \$200,000           |            | \$200,000.00           | \$200,000           | 9. Construction     |
|                              | Antenna Lines Installation                      |                | \$788.00        | 1140    | \$898,320           |            | \$898,320.00           | \$898,320           | 9. Construction     |
|                              | Antenna Lines Connectors/Weatherproofing        |                | \$312.00        | 1140    | \$355,680           |            | \$355,680.00           | \$355,680           | 9. Construction     |
| Conduits                     |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
| Ducts                        | Provide & Install (2) 1.25" HDPE Duct           |                | \$5.60          | 3170730 | \$17,756,088        |            | \$17,756,088.00        | \$17,756,088        | 9. Construction     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              | Ducts - CDOT Right of Way                       | In-kind Match  | \$10,000,000.00 | 1       | \$10,000,000        |            | \$10,000,000.00        | \$10,000,000        | 2. Land, structures |
| Poles                        |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
| Towers                       | 120 ft Tower                                    |                | \$12,800.00     | 54      | \$680,400           |            | \$680,400.00           | \$680,400           | 9. Construction     |
|                              | 120 ft Tower - Freight                          |                | \$2,940.00      | 54      | \$158,760           |            | \$158,760.00           | \$158,760           | 9. Construction     |
|                              | 120 ft Tower - Anti-climb/Fencing               |                | \$2,940.00      | 54      | \$158,760           |            | \$158,760.00           | \$158,760           | 9. Construction     |
|                              | Site Kit - Grips/Bus Bars/Ground Rods/Wire      |                | \$475.00        | 54      | \$25,650            |            | \$25,650.00            | \$25,650            | 9. Construction     |
|                              | 150 ft Tower                                    |                | \$20,160.00     | 67      | \$1,350,720         |            | \$1,350,720.00         | \$1,350,720         | 9. Construction     |
|                              | 150 ft Tower - Freight                          |                | \$3,780.00      | 67      | \$253,260           |            | \$253,260.00           | \$253,260           | 9. Construction     |
|                              | 150 ft Tower - Anti-climb/Fencing               |                | \$5,460.00      | 67      | \$365,820           |            | \$365,820.00           | \$365,820           | 9. Construction     |
|                              | Site Kit - Grips/Bus Bars/Ground Rods/Wire      |                | \$475.00        | 67      | \$31,825            |            | \$31,825.00            | \$31,825            | 9. Construction     |
|                              | 195 ft Tower                                    |                | \$25,200.00     | 33      | \$831,600           |            | \$831,600.00           | \$831,600           | 9. Construction     |
|                              | 195 ft Tower - Freight                          |                | \$3,780.00      | 33      | \$124,740           |            | \$124,740.00           | \$124,740           | 9. Construction     |
|                              | 195 ft Tower - Anti-climb/Fencing/Compound Surf |                | \$22,280.00     | 33      | \$734,580           |            | \$734,580.00           | \$734,580           | 9. Construction     |
|                              | 195 ft Tower - Anti-climb/Fencing               |                | \$5,460.00      | 33      | \$180,180           |            | \$180,180.00           | \$180,180           | 9. Construction     |
|                              | Site Kit - Grips/Bus Bars/Ground Rods/Wire      |                | \$475.00        | 33      | \$15,675            |            | \$15,675.00            | \$15,675            | 9. Construction     |
|                              | Cash Match                                      | \$1,057,000.00 |                 | 1       | \$1,057,000         |            | \$1,057,000.00         | \$1,057,000         | 9. Construction     |
| Repeaters                    |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
|                              |                                                 |                |                 |         | \$0                 |            | \$0                    | \$0                 |                     |
| Other                        | Open Wall Rack                                  |                | \$1,566.00      | 112     | \$175,392           |            | \$175,392.00           | \$175,392           | 9. Construction     |
|                              | RoofTop Mounts                                  |                | \$826.00        | 33      | \$27,258            |            | \$27,258.00            | \$27,258            | 9. Construction     |
|                              | Site Kit                                        |                | \$683.00        | 33      | \$22,539            |            | \$22,539.00            | \$22,539            | 9. Construction     |

| SERVICE AREA or COMMON NETWORK FACILITIES             | Match (Cash/In-kind)            | Unit Cost      | No. of Units | Total Cost          | Last Mile Allocation | Middle Mile Allocation | Allocated Total     | SF-424C Budget Category | Support of Reasonableness |
|-------------------------------------------------------|---------------------------------|----------------|--------------|---------------------|----------------------|------------------------|---------------------|-------------------------|---------------------------|
| <b>BUILDINGS</b>                                      |                                 |                |              | <b>\$16,724,184</b> | <b>\$0</b>           | <b>\$16,724,184.00</b> | <b>\$16,724,184</b> |                         |                           |
| New Construction                                      |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Pre-Fab Huts                                          |                                 |                |              | \$163,660           |                      | \$163,660.00           | \$163,660           | 2. Land, structures     |                           |
|                                                       | 8'x10' Prefab Equipment Shelter | \$11,690.00    | 14           | \$163,660           |                      | \$163,660.00           | \$163,660           | 2. Land, structures     |                           |
|                                                       | 1 Meter Cabinet with A/C        | \$3,486.00     | 98           | \$341,628           |                      | \$341,628.00           | \$341,628           | 2. Land, structures     |                           |
|                                                       | 2 Meter Cabinet with A/C        | \$7,686.00     | 42           | \$322,812           |                      | \$322,812.00           | \$322,812           | 2. Land, structures     |                           |
| Improvements & Renovation                             |                                 |                |              | \$734,580           |                      | \$734,580.00           | \$734,580           | 9. Construction         |                           |
|                                                       | Cabinet & Shelter Construction  | \$4,770.00     | 154          | \$734,580           |                      | \$734,580.00           | \$734,580           | 9. Construction         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Other                                                 |                                 |                |              | \$68,976            |                      | \$68,976.00            | \$68,976            | 9. Construction         |                           |
|                                                       | Fiber / Building Entrances      | \$1,437.00     | 48           | \$68,976            |                      | \$68,976.00            | \$68,976            | 9. Construction         |                           |
|                                                       | 96 Month Tower Space IR/Is      | \$59,864.00    | 202          | \$12,092,528        |                      | \$12,092,528.00        | \$12,092,528        | 2. Land, structures     |                           |
|                                                       | In-kind Match                   | \$3,000,000.00 | 1            | \$3,000,000         |                      | \$3,000,000.00         | \$3,000,000         | 2. Land, structures     |                           |
| <b>CUSTOMER PREMISE EQUIPMENT</b>                     |                                 |                |              | <b>\$0</b>          | <b>\$0</b>           | <b>\$0.00</b>          | <b>\$0</b>          |                         |                           |
| Modems                                                |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Set Top Boxes                                         |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Inside Wiring                                         |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Other                                                 |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| <b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b> |                                 |                |              | <b>\$0</b>          | <b>\$0</b>           | <b>\$0.00</b>          | <b>\$0</b>          |                         |                           |
| Billing Support Systems                               |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Customer Care Systems                                 |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
| Other Support                                         |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |
|                                                       |                                 |                |              | \$0                 |                      |                        | \$0                 |                         |                           |

| SERVICE AREA or COMMON NETWORK FACILITIES: |                                               | Match (Cash/In-kind) | Unit Cost      | No. of Units | Total Cost          | Last Mile Allocation | Middle Mile Allocation | Allocated Total     | SF-424C Budget Category    | Support of Reasonableness |
|--------------------------------------------|-----------------------------------------------|----------------------|----------------|--------------|---------------------|----------------------|------------------------|---------------------|----------------------------|---------------------------|
| <b>OPERATING EQUIPMENT</b>                 |                                               |                      |                |              |                     |                      |                        |                     |                            |                           |
| Vehicles                                   |                                               |                      |                |              | \$0                 | \$0                  | \$0.00                 | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
| Office Equipment / Furniture               |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
| Other                                      |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
| <b>PROFESSIONAL SERVICES</b>               |                                               |                      |                |              |                     |                      |                        |                     |                            |                           |
|                                            |                                               |                      |                |              | <b>\$26,163,967</b> | <b>\$0</b>           | <b>\$26,163,967.00</b> | <b>\$26,163,967</b> |                            |                           |
| Engineering Design                         | System Engineering                            |                      | \$662,012.00   | 1            | \$662,012           |                      | \$662,012.00           | \$662,012           | 4. Architectural and engr. |                           |
|                                            | Route Engineering & Design                    |                      | \$567,227.00   | 1            | \$567,227           |                      | \$567,227.00           | \$567,227           | 4. Architectural and engr. |                           |
|                                            | PCN, Frequency Coordination, License Acq      |                      | \$721.00       | 570          | \$410,970           |                      | \$410,970.00           | \$410,970           | 4. Architectural and engr. |                           |
|                                            | RF Engineering                                |                      | \$1,050.00     | 299          | \$313,950           |                      | \$313,950.00           | \$313,950           | 4. Architectural and engr. |                           |
|                                            | Security Configuration                        |                      | \$330,400.00   | 1            | \$330,400           |                      | \$330,400.00           | \$330,400           | 4. Architectural and engr. |                           |
|                                            | Enterprise Architecture                       |                      | \$1,406,006.00 | 1            | \$1,406,006         |                      | \$1,406,006.00         | \$1,406,006         | 4. Architectural and engr. |                           |
|                                            | Network Architecture                          |                      | \$1,520,038.00 | 1            | \$1,520,038         |                      | \$1,520,038.00         | \$1,520,038         | 4. Architectural and engr. |                           |
| Project                                    | Project Management - Security                 |                      | \$70,000.00    | 1            | \$70,000            |                      | \$70,000.00            | \$70,000            | 4. Architectural and engr. |                           |
|                                            | Project Management - Tower Construction Sites |                      | \$10,500.00    | 113          | \$1,186,500         |                      | \$1,186,500.00         | \$1,186,500         | 4. Architectural and engr. |                           |
|                                            | Project Management - Commercial Tower Sites   |                      | \$5,250.00     | 112          | \$588,000           |                      | \$588,000.00           | \$588,000           | 4. Architectural and engr. |                           |
|                                            | Project Management - New Sites                |                      | \$13,650.00    | 23           | \$313,950           |                      | \$313,950.00           | \$313,950           | 4. Architectural and engr. |                           |
|                                            | Project Management - Rooftop Sites            |                      | \$24,500.00    | 33           | \$808,500           |                      | \$808,500.00           | \$808,500           | 4. Architectural and engr. |                           |
|                                            | Project Management Office                     |                      | \$3,890,506.00 | 1            | \$3,890,506         |                      | \$3,890,506.00         | \$3,890,506         | 4. Architectural and engr. |                           |
|                                            | Cash Match                                    |                      | \$1,687,000.00 | 1            | \$1,687,000         |                      | \$1,687,000.00         | \$1,687,000         | 4. Architectural and engr. |                           |
|                                            | Cash Match                                    |                      | \$3,000,000.00 | 1            | \$3,000,000         |                      | \$3,000,000.00         | \$3,000,000         | 4. Architectural and engr. |                           |
| Consulting                                 |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
| Other                                      | 1 ft Antenna Installation - Tower Climber     |                      | \$630.00       | 106          | \$66,780            |                      | \$66,780.00            | \$66,780            | 9. Construction            |                           |
|                                            | 2 ft Antenna Installation - Tower Climber     |                      | \$1,932.00     | 83           | \$160,356           |                      | \$160,356.00           | \$160,356           | 9. Construction            |                           |
|                                            | 3 ft Antenna Installation - Tower Climber     |                      | \$1,932.00     | 101          | \$195,132           |                      | \$195,132.00           | \$195,132           | 9. Construction            |                           |
|                                            | 4 ft Antenna Installation - Tower Climber     |                      | \$2,520.00     | 138          | \$347,760           |                      | \$347,760.00           | \$347,760           | 9. Construction            |                           |
|                                            | 6 ft Antenna Installation - Tower Climber     |                      | \$2,520.00     | 106          | \$267,120           |                      | \$267,120.00           | \$267,120           | 9. Construction            |                           |
|                                            | 8 ft Antenna Installation - Tower Climber     |                      | \$2,520.00     | 36           | \$90,720            |                      | \$90,720.00            | \$90,720            | 9. Construction            |                           |
|                                            | Microwave Pathing - Tower Climber             |                      | \$788.00       | 570          | \$449,160           |                      | \$449,160.00           | \$449,160           | 9. Construction            |                           |
|                                            | Construction Services 120 ft Tower Install.   |                      | \$29,316.00    | 54           | \$1,583,064         |                      | \$1,583,064.00         | \$1,583,064         | 9. Construction            |                           |
|                                            | Construction Services 150 ft Tower Install.   |                      | \$33,978.00    | 87           | \$2,276,526         |                      | \$2,276,526.00         | \$2,276,526         | 9. Construction            |                           |
|                                            | Construction Services 195 ft Tower Install.   |                      | \$48,300.00    | 33           | \$1,593,900         |                      | \$1,593,900.00         | \$1,593,900         | 9. Construction            |                           |
|                                            | Construction Services Rooftop Installation    |                      | \$3,780.00     | 33           | \$124,740           |                      | \$124,740.00           | \$124,740           | 9. Construction            |                           |
|                                            | Construction Services New Site Installation   |                      | \$25,550.00    | 23           | \$587,650           |                      | \$587,650.00           | \$587,650           | 9. Construction            |                           |
|                                            | Cash Match                                    |                      | \$1,666,000.00 | 1            | \$1,666,000         |                      | \$1,666,000.00         | \$1,666,000         | 9. Construction            |                           |
|                                            |                                               |                      |                |              | <b>\$537,140</b>    | <b>\$0</b>           | <b>\$537,140.00</b>    | <b>\$537,140</b>    |                            |                           |
| <b>TESTING:</b>                            |                                               |                      |                |              |                     |                      |                        |                     |                            |                           |
| Network Elements                           | Site Integration, Service Activation, Testing |                      | \$1,260.00     | 299          | \$376,740           |                      | \$376,740.00           | \$376,740           | 9. Construction            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
| IT System Elements                         |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
| User Devices                               |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |
|                                            |                                               |                      |                |              | \$0                 |                      |                        | \$0                 |                            |                           |



|                     |                         |             |   |          |             |          |                 |  |
|---------------------|-------------------------|-------------|---|----------|-------------|----------|-----------------|--|
|                     |                         |             |   | \$0      |             |          | \$0             |  |
| Test Generators     | Network Test Equipment  | \$50,000.00 | 1 | \$50,000 | \$50,000.00 | \$50,000 | 9. Construction |  |
|                     |                         |             |   | \$0      |             | \$0      |                 |  |
|                     |                         |             |   | \$0      |             | \$0      |                 |  |
| Lab Furnishings     |                         |             |   | \$0      |             | \$0      |                 |  |
|                     |                         |             |   | \$0      |             | \$0      |                 |  |
|                     |                         |             |   | \$0      |             | \$0      |                 |  |
| Servers / Computers | Computer Test Equipment | \$30,400.00 | 1 | \$30,400 | \$30,400.00 | \$30,400 | 9. Construction |  |
|                     | Network Test Software   | \$80,000.00 | 1 | \$80,000 | \$80,000.00 | \$80,000 | 9. Construction |  |
|                     |                         |             |   | \$0      |             | \$0      |                 |  |

| SERVICE AREA or COMMON NETWORK FACILITIES: |                                              | Match (Cash/In-kind) | Unit Cost    | No. of Units | Total Cost           | Last Mile Allocation | Middle Mile Allocation  | Allocated Total      | SF-424C Budget Category    | Support of Reasonableness |
|--------------------------------------------|----------------------------------------------|----------------------|--------------|--------------|----------------------|----------------------|-------------------------|----------------------|----------------------------|---------------------------|
| <b>OTHER UPFRONT COSTS</b>                 |                                              |                      |              |              | <b>\$4,125,258</b>   | <b>\$0</b>           | <b>\$4,125,258.00</b>   | <b>\$4,125,258</b>   |                            |                           |
| Site Preparation                           | Soils Engineering for Tower Builds           |                      | \$1,512.00   | 154          | \$232,848            |                      | \$232,848.00            | \$232,848            | 5. Other archit. and engr. |                           |
|                                            | Environmental Studies (Tower Sites)          |                      | \$1,960.00   | 154          | \$301,840            |                      | \$301,840.00            | \$301,840            | 9. Construction            |                           |
|                                            | Site Acc Services, Drawings, Site Plans, Etc |                      | \$6,830.00   | 299          | \$2,042,170          |                      | \$2,042,170.00          | \$2,042,170          | 9. Construction            |                           |
|                                            | Cash Match                                   |                      | \$658,000.00 | 1            | \$658,000            |                      | \$658,000.00            | \$658,000            | 9. Construction            |                           |
| Other                                      | Federal Project Cost Accountant (36 Mo)      |                      | \$252,000.00 | 1            | \$252,000            |                      | \$252,000.00            | \$252,000            | 1. Admin and Legal         |                           |
|                                            | Staging Warehouse (36 Mo)                    |                      | \$151,200.00 | 2            | \$302,400            |                      | \$302,400.00            | \$302,400            | 9. Construction            |                           |
|                                            | Statewide Constr Program Mgr (36 Mo)         |                      | \$336,000.00 | 1            | \$336,000            |                      | \$336,000.00            | \$336,000            | 9. Construction            |                           |
| <b>PROJECT TOTAL:</b>                      |                                              |                      |              |              | <b>\$143,785,847</b> | <b>\$0</b>           | <b>\$143,785,847.00</b> | <b>\$143,785,847</b> |                            |                           |

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**U.S. Department of Commerce  
Broadband Technology Opportunities Program  
Authentication and Certifications**

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1. I certify that I am the duly Authorized Organization Representative (AOR) of the applicant organization, and that I have been authorized to submit the attached application on its behalf.
2. I certify that I have examined this application, that all of the information and responses in this application, including certifications, and forms submitted, all of which are part of this grant application, are material representations of fact and true and correct to the best of my knowledge, that the entity(ies) that is requesting grant funding pursuant to this application and any subgrantees and subcontractors will comply with the terms, conditions, purposes, and federal requirements of the grant program; that no kickbacks were paid to anyone; and that a false, fictitious, or fraudulent statements or claims on this application are grounds for denial or termination of a grant award, and/or possible punishment by a fine or imprisonment as provided in 18 U.S.C. §1001 and civil violations of the False Claims Act.
3. I certify that the entity(ies) I represent has and will comply with all applicable federal, state, and local laws, rules, regulations, ordinances, codes, orders and programmatic rules and requirements relating to the project. I acknowledge that failure to do so may result in rejection or deobligation of the grant or loan award. I acknowledge that failure to comply with all federal and program rules could result in civil or criminal prosecution by the appropriate law enforcement authorities.
4. I certify that the entity(ies) I represent has and will comply with all applicable administrative and federal statutory, regulatory, and policy requirements set forth in the Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements ("DOC Pre-Award Notification"), published in the Federal Register on February 11, 2008 (73 FR 7696), as amended; DOC Financial Assistance Standard Terms and Conditions (Mar. 8, 2009); the Department of Commerce American Recovery and Reinvestment Act Award Terms (Apr. 9, 2009); and any Special Award Terms and Conditions that are included by the Grants Officer in the award.
5. I certify that any funds awarded to the entity(ies) I represent as a result of this application will not result in any unjust enrichment of such entity(ies) or duplicate any funds such entity(ies) receives under federal universal service support programs administered by the Universal Service Administrative Corporation (USAC).
6. I certify that the entity(ies) I represent has secured access to pay the 20% of total project cost or has petitioned the Assistant Secretary of NTIA for a waiver of the matching requirement.

3/26/10  
Date

  
Authorized Organization Representative Signature

Jack McCabe  
Print Name

Executive Director  
Title

**U.S. Department of Commerce**  
**Broadband Technology Opportunities Program**  
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6. I certify that the entity(ies) I represent has secured access to pay the 20% of total project cost or has petitioned the Assistant Secretary of NTIA for a waiver of the matching requirement.

3/26/10  
Date

Terry A. Buswell  
Authorized Organization Representative Signature

Terry A. Buswell  
Print Name

Chief Financial Officer  
Title