

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS

General Information

1. Federal Agency and Organizational Element to Which Report is Submitted Department of Commerce, National Telecommunications and Information Administration	2. Award Identification Number NT10BIX5570030	3. DUNS Number 029980307
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4. Recipient Organization

De Kalb, County of (Inc.) 200 N. Main Street, Ste. 120, Sycamore, IL 60178-1431

5. Current Reporting Period End Date (MM/DD/YYYY) 03-31-2013	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> No
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7. Certification: I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.

7a. Typed or Printed Name and Title of Certifying Official Ed Harvey	7c. Telephone (area code, number and extension) 8158957125
	7d. Email Address eharvey@dekalbcounty.org

7b. Signature of Certifying Official Submitted Electronically	7e. Date Report Submitted (MM/DD/YYYY): 05-20-2013
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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 All approved build was complete in previous quarter. No additional build was completed in Q1-13. Credits received from DeKalb Fiber Optics LLC for laterals constructed to unapproved locations resulted in a reduction of 0.46 to total network miles. Approval of retroactive route changes late in this quarter resulted in adding 1.88 miles of duct and fiber contributed from DeKalb Fiber Optics (from Dresser and Wildflower to the DeKalb Frontier Central office) to network miles. Total network as of the end of Q1-13 is 139.95 miles. Pending prospective route changes will add an additional 3.16 miles of contributed and constructed network. Total project network is expected to be 143.11 miles. All required rights of way and municipal utility agreements have been acquired for the project. Northern Illinois University Broadband Development Group continues to provide engineering support for those Community Anchor Institutions not yet connected to the network. Approval of retroactive route changes late in the quarter allowed nine additional Community Anchors to be connected in the quarter. Total Community Anchors connected are 70 of an expected 78 total. All backbone equipment was lit in the previous quarter. Continued deployment of 911 fiber back haul equipment. Submitted to NTIA and received approval of budget modification. Submitted to NTIA and received approval of project completion extension to September 30, 2013. Employed 1.6 full time equivalent individuals, primarily in the administration of the project.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2a.	Overall Project	92	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use agreement and locating, maintenance and repair agreements with DeKalb Fiber Optic, LLC in place. Since January, 2011, project has been moving well showing completion percentages of 20, 29, 47, 62, 70, 75, 83 and 92% for the previous eight quarters. Since December, 2012, when the approved route was completed, there has been little progress as we await approval of pending route changes.
2b.	Environmental Assessment	100	Previously completed for original project scope. Additional environmental assessment work is on-going for proposed route changes.
2c.	Network Design	100	Previously completed within budget.
2d.	Rights of Way	92	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. All rights-of-way and municipal utility agreement issues needed for the project are now resolved. Previous quarter reported 100% complete. Budget modification approved in January increased budgeted amount which lowered actual percentage complete. Additional in-kind to be received when prospective route changes are approved.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100% at this point. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements with DeKalb Fiber Optics, LLC in place. Baseline predicted 100% at this point.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	87	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor premise equipment has been received and paid. Backbone equipment, fiber back haul equipment, wireless access points and fire walls for libraries have been received and paid. 10Gig "ring" modules have been received and paid. Expect to be completed in 2013-Q2, (19 additional months from baseline).

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2h.	Network Build (all components - owned, leased, IRU, etc)	98	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Previous quarter reported 100% complete. Approved route changes added additional network remaining to be completed which lowered actual percentage complete. Approved duct and fiber is 100% complete. All leased fiber is 100 complete. All duct provided by DeKalb Fiber Optics has been received and overridden with fiber. Completed in December, 2012 (18 additional months from baseline). Retroactive route change approval authorized 1.88 miles of contributed duct and fiber to be added to the network. When prospective route changes are approved, an additional 1.26 miles of duct and fiber will be constructed and an additional 1.9 miles of network will be acquired by IRU or bill of sale.
2i.	Equipment Deployment	95	Baseline predicted 100%. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Community anchor equipment deployment started in January, 2012 and is complete for the project with the exception of one approved location. Additional locations will need to be deployed when the prospective route changes are approved. Backbone equipment deployment started in January, 2012 and all five node locations are now deployed. Fiber back haul equipment deployment continued in 2013-Q1. Remaining community anchor equipment deployment for approved locations, and fiber back haul equipment will be complete in 2013-Q2 (19 additional months from baseline).
2j.	Network Testing	98	Baseline predicted 100%.The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Previous quarter reported 100% complete. Approved route changes added additional network remaining to be tested which lowered actual percentage of completed testing. Testing was completed for all fiber on the approved network in December, 2012. No new fiber was constructed in 2013-Q1. Testing for 1.26 miles of additional fiber will need to be completed when the prospective route changes are approved and that additional fiber is installed.
2k.	Other (please specify):	0	N/A

3. To the extent not covered above, please describe any challenges or issues faced during this past quarter in achieving planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).

Received approval of retroactive route changes late in 2013-Q3. Prospective route change request is pending, Approval is needed in order to complete the project as originally intended.

4. Please report the following information regarding network build progress. Write "0" in the Total column and "N/A" in the Narrative column if your project does not include this activity. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (600 words or less).

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
New network miles deployed	127	Baseline predicted 130. The project was behind schedule early due to problems getting the indefeasible right to use and the locating, maintenance and repair agreements in place with

Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
		DeKalb Fiber Optics, LLC. Approved network was completed in December, 2012 (thirteen additional months from baseline).
New network miles leased	12	Acquired 12 strands over 12 miles from Northern Illinois University. Completes leased fiber in project.
Existing network miles upgraded	0	N/A
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	130	Total approved for the project, including prospective route changes upon EA clearance.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	300	Baseline predicted 366 interconnection at the end of Q9 of award. Elimination of Knolls build reduced interconnection points by 8 to 358 (revised target). Includes those added with approval of retroactive route changes. Total reported here is current total approved for the project. Additional interconnection points will be added if prospective route changes are approved

For questions 5 and 6 please include information relating to agreements that you are negotiating or have entered into, or that your sub recipient, contractor or subcontractor is negotiating or entered into.

5a. If applicable, please provide the following information with regard to agreements with broadband wholesalers and/or last mile providers as a result of your project.

Indicators	
Number of signed agreements with broadband wholesalers or last mile providers	2
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	3
Average term of signed agreements (in quarters)	14

5b. Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: DeKalb County has an agreement in place with DeKalb Fiber Optics for the construction, operation and economic expansion of the system. DeKalb Fiber Optics has one signed agreement with TBC Net. Recipient is not a party to this agreement. DeKalb County has an agreement with Syndeo Networks, Inc. to provide last mile services on the network. DeKalb County expects three additional last mile provider agreements by the end of the award period. Efforts to secure additional signed agreements include providing draft agreements to all three providers, responding to providers' concerns and questions and obtaining reviews of draft agreements from County staff and third party review.

5c. What wholesale services are being provided by this project? Please describe below. As an attachment to this report, please provide pricing plans (in \$ per month) associated with each wholesale service provided by your product (100 words or less). Wholesale services description:

Provided by DeKalb Fiber Optics to Commercial Customers:

- 100 Mb VLAN: \$300/ month
- 1 Gb VLAN: \$600/ month
- Wholesale Bandwidth: \$20/ Mb/ Month
- Consumer Access: \$90/ Month for best effort up to 1Gbps (averaging 300 Mbps).
- Dark Fiber: \$750/ strand/ mile/ year

Provided by DeKalb County to Community Anchors:

Full participant: Dark Fiber, 1Gb transport to Illinois Century Network: \$7,000/ location/ year
 Subscriber Services: Transport to ISP: 100 Mb: \$2,800/ year; 50 Mb (shared): \$1,050/ year

5d. If you have designated a third party to operate all or a portion of your network, please provide the name and contact information for this third party, indicate if this entity is a sub recipient, contractor, and/or subcontractor, and describe with specificity the portion of your network this this third party operates (600 words or less).

Fiber Physical Layer: DeKalb Fiber Optics, LLC, vendor, Dan Halverson, (dan@admin.tbc.net). DeKalb Fiber Optics is operating 68 fibers for economic development as well as providing locating, maintenance and repair functions for all 144 fibers being constructed. Electronics, network operations and community anchor engineering: Northern Illinois University, vendor, Herb Kuryliw, hkuryliw@niu.edu.

6. Please provide the data according to the type of subscriber. Write "0" in the Total column and "N/A" in the Narrative column if your project does not pass or serve a particular subscriber type. Unless otherwise indicated in the instructions, figures should be reported

cumulatively from award inception to the end of the most recent reporting quarter. Please provide a narrative description if the total is different from the target provided in your baseline plan (300 words or less).

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Broadband Wholesalers or Last Mile Providers	Providers with signed agreements receiving new access	0	None; No providers receiving new access are anticipated.
	Providers with signed agreements receiving improved access	2	DeKalb Fiber Optics and Syndeo Networks, Inc. We are in discussion with three additional providers and anticipate signed agreements in 2013-Q3. All would be receiving improved access.
	Providers with signed agreements receiving access to dark fiber	1	DeKalb Fiber Optics, Inc. None of the last mile providers with which we are negotiating agreements are expected to receive access to dark fiber.
	Please identify the speed tiers that are available and the number of subscribers for each	2	All connections provide by DeKalb Fiber Optics are expected to be over a 1Gb interface. Syndeo is offering speeds of up to 100Gbps to the internet
Community Anchor Institutions (including Government institutions)	Total subscribers served	70	Baseline predicted 111; 78 are currently projected. Nine new subscribers connected in Q1-13.
	Subscribers receiving new access	3	Russell Woods is receiving new service. No additional new connections are expected for the project.
	Subscribers receiving improved access	67	Baseline predicted 41. Total projected for project is 75.
	Please identify the speed tiers that are available and the number of subscribers for each	70	49 @ 1Gb, 3@50Mb, 2@100MB, 5 dark fiber and 11 are not subscribers at this time.
Residential / Households	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Businesses	Entities passed	0	N/A
	Total subscribers served	0	N/A
	Subscribers receiving new access	0	N/A
	Subscribers receiving improved access	0	N/A
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A

7. Please describe any special offerings you may provide (600 words or less).
 Project is providing fiber backhaul for DeKalb County E-911 system and co-location in four telephone central offices.

8a. Have your network management practices changed over the last quarter? Yes No

8b. If so, please describe the changes (300 words or less).
 N/A

9. Community Anchor Institutions:

Using the table below, please provide a list by service area of the community anchor institutions (including Government institutions) connected to your network as a result of BTOP funds. Figures should be reported for the most recent reporting quarter only (NOT cumulatively). Also indicate whether your organization is currently providing broadband service to the anchor institution. Finally, provide a short narrative description with examples of how institutions are using BTOP-funded infrastructure (300 words or less).

Institution Name	Service Area (town or county)	Type of Anchor Institution (as defined in your baseline)	Are you also the broadband service provider for this institution? (Yes / No)	Narrative description of how anchor institutions are using BTOP-funded infrastructure
Sandwich City Hall	Sandwich	Other Governmental Agencies	No	Future Connection to ISP and Municipal Cloud
Sandwich Police Department	Sandwich	Public Safety	No	Future Connection to ISP, public safety cloud and enhanced 911 services
Cortland Town Hall	Cortland	Other Governmental Agencies	No	Connection to ISP, dark fiber to other municipal departments
Ben Gorden Clinic	DeKalb	Health Provider	No	Dark Fiber to Ben Gordon main facility
Ben Gordon Clinic	Sandwich	Health Provider	No	Dark Fiber to Ben Gordon Main Facility
Cortland Community Library	Cortland	Public Library	No	Transport to ISP, connection to library cloud
Kishwaukee Community College	Malta	Other Institutions of Higher Education	No	Connection to Education Cloud
Russell Woods Outdoor Education Center	Genoa	Other Governmental Agencies	No	Dark Fiber to DeKalb County Government
Founders School	DeKalb	Schools K-12	No	Connection to Education Cloud

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).

The route to one additional community anchor is approved and can be connected. The seven remaining CAI's are dependent on pending prospective route change approval. Build of remainder of network is also dependent on route change approval. If route change approval is received prior to the end of the quarter, some work can proceed in 2013-Q2 to build the additional 1.26 miles remaining and to acquire an additional 1.9 miles of duct and fiber from DeKalb Fiber Optics as an in-kind contribution to the project. However, it is doubtful we would also pay for that construction in Q2-2013 so we did not project those expenses in the financial projection for that quarter. Plan to complete all outstanding last mile agreements in Q2-13.

2. Please provide the percent complete for the following key milestones in your project. Write "0" in the Planned Percent Complete column and "N/A" in the Narrative column if your project does not include this activity. If you provided additional milestones in your baseline plan, please insert them at the bottom of the table. Unless otherwise indicated in the instructions, figures should be reported cumulatively from award inception to the end of the next reporting quarter. Please provide a narrative description if the percent complete is different from the target provided in your baseline plan (300 words or less).

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2a.	Overall Project	92	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All approved infrastructure work on the project is completed. One approved additional connection can be completed in 2013-Q2. Remaining connections are dependent on approval of prospective route change approval.
2b.	Environmental Assessment	100	Previously completed.
2c.	Network Design	100	Previously completed
2d.	Rights of Way	92	Baseline predicted 100%. All right of way costs are paid; additional in-kind to be received dependent on prospective route change approval but not expected in 2013-Q2.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100%. Project was behind schedule early due to negotiations with DeKalb Fiber Optics, LLC on Indefeasible Right to Use agreement and locating, maintenance and repair agreement. All construction permits are received and expenses for construction permits are paid,
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	87	Baseline predicted 100%. All equipment that has been ordered has been received and paid. Remaining funds are for 100Gig "ring" being constructed with iFiber project.
2h.	Network Build (all components - owned, leased, IRU, etc.)	98	When prospective route changes are approved, an additional 1.26 miles of duct and fiber will be constructed and an additional 1.9 miles of network will be acquired by IRU or bill of sale. Neither of those are expected to be completed in 2013-Q2.
2i.	Equipment Deployment	95	Seven additional locations will need to be deployed when the prospective route changes are approved.
2j.	Network Testing	98	Testing for 1.26 miles of additional fiber will need to be completed when the prospective route changes are approved and that additional fiber is installed. Not expected to be completed in 2013-Q2.
2k.	Other (please specify):	0	N/A
<p>3. Please describe any challenges or issues anticipated during the next quarter that may impact planned progress against the project milestones listed above. In particular, please identify any areas or issues where technical assistance from the BTOP program may be useful (600 words or less).</p> <p>The project has submitted a list of prospective route changes. Approval of these route changes is essential to the completion of the project as intended.</p>			

Infrastructure Budget Execution Details

Activity Based Expenditures (Infrastructure)

1. Please provide details below on your total budget, cumulative actual expenditures (for the period ending the current quarter), and cumulative anticipated expenditures (for the period ending next quarter) for each line item, including detailed disbursements of both matching funds and federal funds from project inception through end of this quarter (actual) or next quarter (anticipated). Actual and anticipated figures should be reported cumulatively from award inception to the end of the applicable reporting quarter.

Budget for Entire Project				Actuals from Project Inception through End of Current Reporting Period			Anticipated Actuals from Project Inception through End of Next Reporting Period		
Cost Classification	Total Cost (plan)	Matching Funds (plan)	Federal Funds (plan)	Total Cost	Matching Funds	Federal Funds	Total Costs	Matching Funds	Federal Funds
a. Administrative and legal expenses	\$215,713	\$38,019	\$177,694	\$91,844	\$13,868	\$77,976	\$109,844	\$13,868	\$95,976
b. Land, structures, right-of-ways, appraisals, etc.	\$1,894,495	\$1,184,904	\$709,591	\$1,740,542	\$1,134,381	\$606,161	\$1,740,542	\$1,134,381	\$606,161
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$595,124	\$285,896	\$309,228	\$447,323	\$209,071	\$238,252	\$502,323	\$254,071	\$248,252
e. Other architectural and engineering fees	\$189,484	\$35,713	\$153,771	\$56,614	\$17,843	\$38,771	\$56,614	\$17,843	\$38,771
f. Project inspection fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
g. Site work	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
h. Demolition and removal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
i. Construction	\$10,573,648	\$961,231	\$9,612,417	\$10,156,133	\$951,231	\$9,204,902	\$10,156,133	\$951,231	\$9,204,902
j. Equipment	\$1,361,740	\$460,277	\$901,463	\$1,187,992	\$447,277	\$740,715	\$1,187,992	\$447,277	\$740,715
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
l. SUBTOTAL (add a through k)	\$14,830,204	\$2,966,040	\$11,864,164	\$13,680,448	\$2,773,671	\$10,906,777	\$13,753,448	\$2,818,671	\$10,934,777
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
n. TOTALS (sum of l and m)	\$14,830,204	\$2,966,040	\$11,864,164	\$13,680,448	\$2,773,671	\$10,906,777	\$13,753,448	\$2,818,671	\$10,934,777

2. Program Income: Please provide the program income you listed in your application budget and actuals to date through the end of the reporting period.

a. Application Budget Program Income: \$0	b. Program Income to Date: \$0
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