

RECIPIENT NAME:De Kalb, County of (Inc.)

AWARD NUMBER: NT10BIX5570030

DATE: 11/16/2012

OMB CONTROL NUMBER: 0660-0037

EXPIRATION DATE: 12/31/2013

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
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) 09-30-2012	6. Is this the last Report of the Award Period? <input type="radio"/> Yes <input checked="" type="radio"/> No	
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): 11-16-2012	

Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 13.45 additional miles of duct were installed in Q11 of award. Total duct is now 112.66 miles and is 97.26% complete. The remaining duct is in the Sandwich, Somonauk and Malta areas for which we recently received right of way agreements. 10.41 miles of new fiber was installed in Q11. Total new fiber installed is now 120.71 miles and is 94.8% complete. 12.02 miles of fiber was purchased for the project in previous quarters. Total network approved network miles is 139.66 and is 95.00% complete. A route change is pending which, if approved will add approximately 2.5 miles to the total network. Started duct and fiber installation in City of Sandwich which will allow for the connections of the community anchors and final backbone equipment node site at the Sandwich telephone central office. Continued on-site engineering with community anchor institutions. Continued the right of way access and municipality utility agreement approval process. Acquired the one remaining right of way agreement; all right of way has now been acquired for the project. Received the final municipal utility agreement needed for the project. Completed 10 additional connections to the network this quarter. Continued deployment of E-911 fiber back haul equipment; connections have been finalized between Kirkland, Genoa and Sycamore. Completed last mile provider agreement with provider. City of DeKalb decided to not participate in downtown wireless project so that element is not being pursued. Completed participation agreement and contribution agreement with Northern Illinois University. Provided response to Corrective Action Plan. Completed letters of clarification for Indefeasible Right to Use Agreement with DeKalb Fiber Optics that were recommended in the fiber verification audit. Submitted first draft of route change request. Released request for proposals and awarded project for valuation of duct donated to the project by DeKalb Fiber Optics, LLC as an in-kind to the project. As a result of the County's annual audit, an adjustment was made to match expenditures in the "Architectural and Engineering Fees". Auditors opinion was that the documents for in-kind engineering provided by DeKalb Fiber Optics, LLC did not support the entire in-kind that had been taken. Therefor a reduction correction was taken during Q3-12. Employed 9.83 full time equivalent individuals in the construction and administration of the project in quarter 11 of award.

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	83	Baseline predicted 100% complete 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. Since January, 2011, the project has been moving well showing completion percentages of 20, 29, 47, 62, 70, 75 and 83 percent respectively for the past seven quarters. The project met its substantial completion deadline and is on track to meet final completion deadline. Overall, the budget is within parameters. Some line items have been and/or will be exceeded but savings in other areas are expected to offset those overages.
2b.	Environmental Assessment	100	Previously completed for original project scope. Additional environmental assessment work is on-going for proposed route changes. There was no budget provided for the environmental assessment, therefore the \$89,500 cost of the environmental assessment must be offset from savings in other budget areas. The costs for rail and pipeline crossings are anticipated to cost less that budgeted so the cost of the assessment can be covered from savings in that area.
2c.	Network Design	100	Previously completed within budget.
2d.	Rights of Way	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. One right-of-way issue and one municipality agreement was resolved in Q11. All rights-of-way and municipal utility agreement issues needed for the project are now resolved. Costs for rights-of-way are expected to exceed budget due to payment for previously completed duct that was budgeted in "Construction" but was properly paid from "Rights-of-Way" line item.

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
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. All 18 rail crossing permits are in hand, 16 have been made and 2 remain in municipalities with which row agreements were recently received. Some flagmen and inspection costs remain to be paid when those crossings are made. No other permit costs are expected. All crossings are expected to be completed in Q12 of award. Received permit from Illinois Department of Transportation for State Route 30 from Kane County line to Big Rock, IL. in Q3-12
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	64	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 has been received and paid. Fiber back haul equipment has been received and paid. Wireless access points for libraries have been received and paid. Remaining equipment to be procured is for 10Gig "ring" modules (being bid early in Q4-12), and fire walls for libraries (to be ordered early in Q4-12). Expect to be completed in Q12 (15 additional months from baseline). Equipment procurement is 64% complete when compared to budget. Project total is expected to be under budget. Equipment procurement is 91% complete when compared to expected end of project.
2h.	Network Build (all components - owned, leased, IRU, etc)	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. Duct is 97% complete and newly constructed fiber is 95% complete. All leased fiber is 100 complete. All duct provided by DeKalb Fiber Optics has been received and overridden with fiber. We estimate the network will be completed in November, 2012 (17 additional months from baseline).
2i.	Equipment Deployment	75	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 in Genoa, Kingston, Kirkland, Sycamore, Hinckley, Big Rock, Waterman and Shabbona. Backbone equipment deployment started in January, 2012 and four of five node locations are deployed. Fiber back haul equipment deployment continued in Q11. Remaining community anchor equipment deployment, backbone equipment and fiber back haul equipment will be complete in Q12 (15 additional months from baseline).
2j.	Network Testing	69	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. 44.23 additional miles of fiber fiber were tested this quarter. Total now tested is 87.6 miles of 127.6 miles of newly constructed fiber for project.
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).

The project activity increased in Q3-12 as additional right of way became available. Access to municipal rights-of way were received for Cortland, Sandwich, Somonauk and Malta during the quarter. In addition, the permit for installation on State Route 30 and the final private right of way access issue was resolved. Access to these areas allowed installation of duct and fiber in all the above areas with

the exception of Somonauk and Malta, which will be constructed in October and November of 2012. Fiber is expected to reach the Sandwich telephone central office in October, allowing for the connection of the one remaining node sites and for the lighting of the connections in the south part of the project served by the Sandwich co-location site.

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	133	Baseline predicted 130. The project was behind schedule early due to problems getting the infeasible right to use and the locating, maintenance and repair agreements in place with DeKalb Fiber Optics, LLC. Approved new completed network total is 136 miles which we expect to reach in Q12 of award (twelve additional months).
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	Miles reported as "existing" in last report was corrected to be categorized as "New Network Miles leased upon clarification of NTIA's definitions.
Number of miles of new fiber (aerial or underground)	121	Installed as of 9/30/12. Project total of 127.64 miles of new installed fiber.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	269	Baseline predicted 366 interconnection at the end of Q9 of award. Elimination of Knolls build reduced interconnection points by 8 to 358 (new baseline). Expect to reach baseline in Q12 of award. Additional interconnection points are added as duct and fiber is constructed.

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	2
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 so it has not been included in the indicators provided above. In Q3-12, DeKalb County signed an agreement with Syndeo Networks, Inc. to provide last mile services on the network. DeKalb County expects two additional last mile provider agreements by the end of the award period.

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
 - 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 and ISP: 100 Mb (shared): \$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 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 at this time. We are in discussions with two providers and anticipate agreements in Quarter 12 of award. All are current providers so access is expected to be "improved" for all.
	Providers with signed agreements receiving improved access	2	DeKalb Fiber Optics, LLC and Syndeo Networks, Inc. We are in discussions with two additional providers and anticipate agreements in Quarter 12 of award. All are current providers so access is expected to be "improved" for all.
	Providers with signed agreements receiving access to dark fiber	1	DeKalb Fiber Optics, LLC. We are in discussions with two additional providers and anticipate agreements in Quarter 12 of award. None of the providers 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 lit connections provided by DeKalb Fiber Optics are expected to be over a 1Gb interface. Syndeo Networks, Inc. is offering up to 100Mbps to the internet.
Community Anchor Institutions (including Government institutions)	Total subscribers served	50	Baseline predicted 111 at this point. 80 are currently projected. Ten new subscribers served in Q11 of award. Project was behind schedule early due to delay in getting agreements with DeKalb Fiber Optics. Total subscriber count reported in Q2 2012 was reported as 39 and should have been 40. That corrected total plus 10 additional CAI's listed in Section 9 is the current project total.
	Subscribers receiving new access	6	Baseline predicted 70 at this point. Project total is expected to be substantially fewer than baseline predicted.
	Subscribers receiving improved access	44	Baseline predicted 41 at this point. Project total is expected to be substantially more than baseline predicted.
	Please identify the speed tiers that are available and the number or subscribers for each	50	42 @ 1 GB; 3 @ 50 MB to internet; 1 @ 100Mb to internet; 1 dark fiber only and 3 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

Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
	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 will provide 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
Hinckley-Big Rock High School	Hinckley	Schools K-12	No	Connection to DATA Network and Education Cloud
Hinckley-Big Rock Elementary School	Hinckley	Schools K-12	No	Connection to DATA Network and Education Cloud
Hinckley-Big Rock Middle School	BigRock	Schools K-12	No	Connection to DATA Network and Education Cloud
Indian Creek High School	Shabbona	Schools K-12	No	Connection to DATA Network and Education Cloud
Shabbona Elementary School	Shabbona	Schools K-12	No	Connection to DATA Network and Education Cloud
DeKalb County Public Safety Building	Sycamore	Public Safety	No	Connection to DATA Network and Future Diverse Path to remote County Campuses
DeKalb County Courthouse	Sycamore	Other Government Facilities	No	Connection to DATA Network and Future Diverse Path to remote County Campuses
DeKalb County DeKalb County Emergency Telephone Service Board (E-911)	Sycamore	Public Safety	No	Connection to DATA Network and Fiber Backhaul System
Sycamore Public Library	Sycamore	Libraries	No	Connection to Internet Service Provider and Future Connection to Library Cloud
Clinton Township Library	Waterman	Libraries	No	Future Connection to Internet Service Provider and Library Cloud

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
All duct and fiber will be installed and testing completed by the end of Q4-12. As-built documentation will be underway. Fiber back haul project for E-911 system will be complete. Negotiations for remaining last mile providers on the network will continue. Route change approved is expected which will allow for connection of the final community anchors and add 2.5 miles to the network total. Acquire independent appraisal for additional infrastructure being provided to project by DeKalb Fiber Optics, LLC. Phase 2 of independent verification of installed duct and fiber will be complete. Remaining 30 connections are expected to be completed and in service. All Community Anchor engineering will be complete, and all premise equipment will be installed and in operation. Remaining backbone node site in Sandwich telephone office will be in operation, completing backbone sites. 10 Gb ring equipment will be awarded, received, installed and paid by end of quarter. Firewalls for libraries will be received, installed and paid.

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	95	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. Project has been moving well since 1/1/11 showing completion percentages of 20, 29, 47, 62, 70, 75 and 83 percent respectively. All physical work on the project is expected to be completed by the end of the quarter. We expect final payments to carry over into January, 2013.
2b.	Environmental Assessment	100	Previously completed.
2c.	Network Design	100	Previously completed
2d.	Rights of Way	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 rights-of-way were completed in Q3-12. Costs for rights-of-way are expected to exceed budget due to payment for previously completed duct that was budgeted in "Construction" but was properly paid from "Rights-of-Way" line item.
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. Some expenditures remain to be paid from this line item in Q4-12 as expenses for flag men and railroad supervision are paid after crossings are made in Somonauk and Malta.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	100	All remaining equipment for the project should be received and paid in Q4-12 as 10Gb "ring" equipment and firewalls are received and paid.
2h.	Network Build (all components - owned, leased, IRU, etc.)	99	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 is expected to be complete. However some invoices for completed work may still be unpaid at the end of the quarter.
2i.	Equipment Deployment	100	Node site in Sandwich will be complete. All Community Anchors locations will be complete for equipment deployment.
2j.	Network Testing	100	Entire network will be tested by the end of the quarter.
2k.	Other (please specify):	0	N/A

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).

We will be submitting a substantial number of route changes in Q4-12. Timely processing of these requested changes will be important to assure that the project objective are met.

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	\$39,000	\$7,800	\$31,200	\$69,675	\$13,868	\$55,807	\$78,097	\$15,212	\$62,885
b. Land, structures, right-of-ways, appraisals, etc.	\$1,435,485	\$996,922	\$438,563	\$1,648,699	\$1,063,197	\$585,502	\$1,849,170	\$1,228,984	\$620,186
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$646,480	\$491,145	\$155,335	\$339,102	\$129,874	\$209,228	\$490,102	\$237,450	\$252,652
e. Other architectural and engineering fees	\$45,000	\$9,000	\$36,000	\$32,839	\$6,568	\$26,271	\$53,839	\$10,768	\$43,071
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	\$10,969,239	\$766,223	\$10,203,016	\$9,158,352	\$818,449	\$8,339,903	\$10,475,352	\$818,449	\$9,656,903
j. Equipment	\$1,695,000	\$694,950	\$1,000,050	\$1,091,827	\$447,277	\$644,550	\$1,194,327	\$489,302	\$705,025
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	\$12,340,494	\$2,479,233	\$9,861,261	\$14,140,887	\$2,800,165	\$11,340,722
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	\$12,340,494	\$2,479,233	\$9,861,261	\$14,140,887	\$2,800,165	\$11,340,722

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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