

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) 03-31-2012	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): 05-11-2012
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Project Indicators (This Quarter)

1. Please describe significant project accomplishments completed during this quarter (600 words or less).
 Installed 14162 feet (2.68 miles) of duct and 95,298 feet (18.07 miles) of fiber in Q9 of award, taking percentage complete for duct to 86% and percentage complete for fiber to 80%. Continued on-site engineering for community anchor institutions. The process of approval of connection agreements with community anchors continues. Continued the rights-of-way acquisition process in southern DeKalb County and northern LaSalle County. Continued the municipal utility agreement negotiation process. Acquired one additional utility agreement (Shabbona) and installed duct in Shabbona shortly thereafter. Received route change approval from NTIA in early January and installed duct (and some fiber) on approved route in same month. Completed eight additional connections in Q9, making total now 32 of 85 expected. Deployed backbone equipment in four node locations (Genoa Frontier central office, Northern Illinois University Network Operations Center, Northern Illinois University central office and DeKalb Frontier central office). Completed an independent verification of all duct and fiber installed as of 12/31/11. Tested 177,000 additional feet (33.53 miles) of fiber making total tested 229,000 feet (43.37 miles). Continued deployment of E-911 fiber back haul equipment. Met required substantial completion deadline of 67% complete by 24 months after award. Employed 6.91 full time equivalent individuals in the construction and administration of the project in Q9 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	70	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 in place with DeKalb Fiber Optics, LLC. Since January, 2011, the project has been moving well showing quarterly completion percentages of 20, 29, 47, 62, and 70 per cent respectively for the past five quarters. The project met its substantial completion deadline and is on target to meet the final completion deadline. Overall, the budget is within parameters. Some line items have been exceeded but savings in other areas are expected to offset those overages.
2b.	Environmental Assessment	100	Previously completed. There was no budget provided for the environmental assessment, therefore the \$89,500 cost of the environmental assessment must be offset with savings in other areas. The costs for rail and pipeline crossings are less than anticipated and the cost of the environmental assessment will be covered by savings in those areas.
2c.	Network Design	100	Previously completed within budget.
2d.	Rights of Way	100	Baseline predicted 100% completed 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 in place with DeKalb Fiber Optics, LLC. In the south part of the route, the number of landowner and township row agreements needed is greater than anticipated, requiring additional time. Additional personnel and legal resources have been allocated to row acquisition. Many row acquisition issues were resolved when the route change was approved in January, 2012. That route was immediately constructed. Ten of fourteen municipal row agreements are in hand and those parts of the route have been constructed. Two private row acquisitions remain. La Salle County permits were received and those segments constructed. All outstanding row acquisition (municipal and private) are in active negotiation process. We now expect row acquisition to be complete by June, 2012 (fifteen additional months from baseline and three additional months from date of report). Row expenditures are expected to exceed budget due to payment for previously completed duct that was budgeted in "Construction" line but paid from "Rights of Way".
2e.	Construction Permits and Other Approvals	95	Baseline predicted 100% at this point. All 18 rail crossing permits are in hand, 14 have been made and four remain in municipalities with which row agreements are being negotiated. Some flagmen and inspection

	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
			costs remain to be paid when those crossings are made. No other permit costs are expected.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	24	Baseline predicted 100%. 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. Community anchor premise equipment has been received and paid. Backbone equipment has been received and partially paid. Fiber back haul equipment has been received and paid. Remaining equipment to be procured is for GPON (under engineering design and feasibility study), wireless access points for libraries (to be bid in Q10) and downtown wireless (under engineering design). Expect to be completed in Q11 (12 additional months from baseline).
2h.	Network Build (all components - owned, leased, IRU, etc)	75	Baseline predicted 100%. 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. Duct is 86% complete and fiber is 80% complete. All leased fiber is complete. All duct provided by DeKalb Fiber Optics has been received and overridden with fiber. We estimate the network will be completed in September, 2012 (15 additional months from baseline).
2i.	Equipment Deployment	25	Baseline predicted 100%. 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. Community anchor equipment deployment started in January, 2012 and is complete in Genoa, Kingston and Kirkland. Backbone equipment deployment started in January, 2012 and four node locations were installed in Q9 (Genoa Frontier Central Office, Northern Illinois University [NIU] network operations center, NIU central office, and DeKalb Frontier central office.) Fiber back haul equipment deployment started in Q9. Remaining community anchor equipment deployment, backbone equipment, fiber back haul equipment, GPON and downtown wireless will continue into Q10 and expected to be complete in Q11 (12 additional months from baseline).
2j.	Network Testing	33	Baseline predicted 100%.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. 85,000 feet (16.1 miles) of fiber was tested from the south side of Genoa to Northern Illinois University Wellness and Life Building and 92,000 feet (17.42) miles was tested from Wellness and Life to Hinckley in Q9 of award. Total now tested is 229,000 feet (43.37 miles) of 127 miles 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 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. Approval of the route change in January, 2012 allowed the project to install substantial amounts of duct in the rural Somonauk, Leland and Earlville areas. Duct installation has stopped until we can acquire the remaining municipal row agreements and private property agreements. All municipality and private row agreements are being actively negotiated.

The project has been delayed in accessing telephone company central offices in Genoa, DeKalb and Hinckley due to scheduling and coordination issues with the central office owner. Genoa and DeKalb were completed in Q9 of award, Hinckley is expected to be completed in Q10 of award and the final central office location (Sandwich) schedule depends on approval of utility agreement with Sandwich so network can be expanded into City of Sandwich to reach the telephone central office co location facility.

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	102	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 DeKalb Fiber Optics, LLC. Expect to reach 130 miles in Q11 of award (nine additional months).
New network miles leased	0	N/A
Existing network miles upgraded	0	N/A
Existing network miles leased	12	Acquired 12 strands over 12 miles from Northern Illinois University. Completes leased fiber in project.
Number of miles of new fiber (aerial or underground)	102	Installed as of 3/31/12. Project total is 129.59 miles of new fiber.
Number of new wireless links	0	N/A
Number of new towers	0	N/A
Number of new and/or upgraded interconnection points	228	Baseline predicted 366 interconnection at the end of Q9 of award. Expect to reach baseline in Q11 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	1
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	4
Average term of signed agreements (in quarters)	12

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.

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 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	N/A
	Providers with signed agreements receiving improved access	0	N/A
	Providers with signed agreements receiving access to dark fiber	0	N/A
Community Anchor Institutions (including Government institutions)	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
	Total subscribers served	32	Baseline predicted 111 at this point. 85 are currently projected. The projected CAI count was reduced to eliminate the 911 towers and the agricultural businesses at the direction of NTIA. Project was behind schedule early due to delay in getting agreements with DeKalb Fiber Optics.
	Subscribers receiving new access	6	Baseline predicted 70 at this point. Project was behind schedule early due to delay in getting agreements with DeKalb Fiber Optics.
	Subscribers receiving improved access	26	Baseline predicted 41 at this point. Project was behind schedule early due to delay in getting agreements with DeKalb Fiber Optics.
Residential / Households	Please identify the speed tiers that are available and the number of subscribers for each	32	26 1 GB; 3 @ 50 MB to internet; 1 dark fiber only and 2 are not subscribers at this time.
	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
Businesses	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
	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

7. Please describe any special offerings you may provide (600 words or less).
 Project will provide public wifi and video surveillance for City of DeKalb downtown area, fiber back haul for DeKalb County E-911 system and collocation 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
Indian Creek Middle School	Waterman, IL	Schools (K-12)	No	Connection to DATA Network, Education Cloud, ISP, and dark fiber to District Schools
Waterman Elementary School	Waterman, IL	Schools (K-12)	No	Connection to DATA Network, Education Cloud, ISP, and dark fiber to District Schools
Leland School	Leland, IL	Schools (K-12)	No	Connection to DATA Network, Education Cloud and ISP
Earlville School	Earlville, IL	Schools (K-12)	No	Connection to DATA Network, Education Cloud and ISP
Kishwaukee Education Consortium	Malta, IL	Schools (K-12)	No	Connection to DATA Network, Education Cloud and ISP
Hinckley Police Department	Hinckley, IL	Public Safety	No	Connection to ISP. Future connection to public safety cloud and data resources
Hinckley Village Hall	Hinckley, IL	Other Government Facilities	No	Connection to ISP
DeKalb County Highway Department and Sheriff's substation	Waterman, IL	Other Government Facilities	No	Dark fiber to DeKalb County Sycamore Campus

Project Indicators (Next Quarter)

1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less).
Plan to install an additional 87,600 feet (16.6 miles) of duct and fiber in Q10 of award assuming additional municipal right of way becomes available by May 1. This would put the project at 120 miles of fiber at the end of June, 2012 or 95% of network build complete. Plan to make 31 additional CAI connections by June 30, making total connections by June 30 at 63 of 85 anticipated or 74% of connections completed for project by June 30. All leased fiber was completed for the project in the previous quarter so no additional leased network is anticipated for Q10 of award. We expect to sign two of the four anticipated last mile provider agreements in Q10 of award. We expect to deploy equipment in one additional collocation site in Q10 of award. We plan to complete the procurement of wireless access points for libraries by ordering, receiving and starting deployment in Q10 of award. Plan to complete analysis of vendor neutral cabinets and start procurement process in Q10 of award. Plan to complete engineering design and competitively bid the downtown DeKalb wifi/ surveillance project in Q10. We plan to either acquire outstanding row in Q10 or submit route change request to reroute around parts of the route that we have been unable to acquire. We plan to have all municipal row agreements in hand by the end of Q10 of award or submit route change requests to reroute around municipalities from which we have not been able to acquire access for the approved route. Testing of installed fiber will continue in Q10. We expect to test and additional 184,000 feet (30 miles) which would make the system 58% tested by the end of Q10.

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	83	Baseline predicted 100%. Project was behind schedule early due to obtaining infeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. Project has been moving well since 1/1/12 showing completion percentages for the past five quarters of 20, 29, 47, 62 and 70% respectively.
2b.	Environmental Assessment	100	Previously completed.
2c.	Network Design	100	Previously completed.

	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)
2d.	Rights of Way	100	Baseline predicted 100%. Project was behind schedule early due to obtaining indefeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. Remaining municipal utility agreements will either be finalized in Q10 of award or rerouting will be initiated. Expenditures in this line item will exceed budget due to payments for previously completed duct and fiber not budgeted here but properly paid from this line item.
2e.	Construction Permits and Other Approvals	100	Baseline predicted 100%. Project was behind schedule early due to obtaining indefeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. Some expenditures remain to be paid from this line item for rail crossing expenses for crossings within municipalities from which we currently are negotiating row access.
2f.	Site Preparation	0	N/A
2g.	Equipment Procurement	44	Baseline predicted 100%. Project was behind schedule early due to obtaining indefeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. Expect to pay for backbone equipment in Q10 of award. Plan to bid, order and receive wireless access points for libraries. Plan to bid City of DeKalb downtown wireless/ surveillance project in Q10. Plan to complete evaluation of vendor neutral cabinets and start procurement process.
2h.	Network Build (all components - owned, leased, IRU, etc.)	95	Baseline predicted 100%. Project was behind schedule early due to obtaining indefeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. If sufficient row issues are resolved by May 1, we plan to be 93% complete with duct and fiber by June 30. All leases and IRU's are completed.
2i.	Equipment Deployment	40	Baseline predicted 100%. Project was behind schedule early due to obtaining indefeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. Plan to deploy one additional collocation site, CAI equipment for 31 additional connections, E-911 fiber back haul equipment should be complete and wireless access point deployment in libraries should start in Q10 of award.
2j.	Network Testing	58	Baseline predicted 100%. Project was behind schedule early due to obtaining indefeasible right to use and locating, repair and maintenance agreements with DeKalb Fiber Optics, LLC. We plan to test an additional 30 miles of fiber in Q10 of award which would make the total tested 73.37 miles by the end of Q10.
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).

Municipal row agreements and access to some privately-owned row has proven to be the biggest challenge to the project. In order to complete the project in the areas for which we have not able to acquire access, we may need to request route changes.

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	\$53,881	\$10,777	\$43,104	\$60,321	\$12,065	\$48,256
b. Land, structures, right-of-ways, appraisals, etc.	\$1,435,485	\$996,922	\$438,563	\$1,565,294	\$980,364	\$584,930	\$1,585,294	\$981,964	\$603,330
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	\$502,463	\$343,336	\$159,127	\$569,367	\$410,240	\$159,127
e. Other architectural and engineering fees	\$45,000	\$9,000	\$36,000	\$11,219	\$2,244	\$8,975	\$11,594	\$2,319	\$9,275
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	\$7,836,571	\$629,307	\$7,207,264	\$9,284,921	\$730,691	\$8,554,230
j. Equipment	\$1,695,000	\$694,950	\$1,000,050	\$407,655	\$167,138	\$240,517	\$813,655	\$333,598	\$480,057
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	\$10,377,083	\$2,133,166	\$8,243,917	\$12,325,152	\$2,470,877	\$9,854,275
m. Contingencies	\$0	\$0	\$0	\$0	\$0	\$0			
n. TOTALS (sum of l and m)	\$14,830,204	\$2,966,040	\$11,864,164	\$10,377,083	\$2,133,166	\$8,243,917	\$12,325,152	\$2,470,877	\$9,854,275

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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