AWARD NUMBER: NT10BIX5570070 DATE: 05/11/2012

QUARTERLY PERFORMANCE PROGRESS REPORT FOR BROADBAND INFRASTRUCTURE PROJECTS							
General Information							
1. Federal Agency and Organizational Element to Which Report is Submitted	2. Award Identific	ation Number	3. DUNS Number				
Department of Commerce, National Telecommunications and Information Administration	NT10BIX5570070		147368641				
4. Recipient Organization	1						
Massachusetts Technology Park 75 North Drive , Westborough, MA 01581-3335							
5. Current Reporting Period End Date (MM/DD/YYY	YY)	6. Is this the last Repo	ort of the Award Period?				
03-31-2012			○ Yes ● No				
7. Certification: I certify to the best of my knowledg purposes set forth in the award documents.	ge and belief that th	is report is correct and	complete for performance of activities for the				
7a. Typed or Printed Name and Title of Certifying O	official	7c. Telepho	one (area code, number and extension)				
Lisa Erlandson							
		7d. Email A	7d. Email Address				
	erlandson	@masstech.org					
7b. Signature of Certifying Official		7e. Date Report Submitted (MM/DD/YYYY):					
Submitted Electronically	05-11-201	05-11-2012					
·							

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2c. Network Design

Project Indicators (This Quarter)

Proj	ject Indicators (This Quarter)							
I. PI	ease describe significant project accomplis	shments comple	eted during this quarter <mark>(600 words or less)</mark> .					
Mass	lassBroadband 123 accomplishments for the quarter ending March 31st, 2012 include:							
\ ara	omonto							
	ements iewed draft Point of Interconnection Agre	ement with all	required project locations					
	cuted 5 of 22 Points of Interconnection lic							
	cuted agreement for 3.5 miles of overlash							
	cuted attachment agreement for Massach							
Make	e Ready and Licensing							
		e readv for ove	er 6,200 poles, totaling over 35,600 for the project					
	mitted conduit applications for over 7 mile							
			r a total of 25,800 poles, and electric company make ready costs for					
13,80	00 poles for a total of 20,500							
			655 from electric utilities. Through 3/31 we have received 2,469 licenses					
	erizon and 2,085 licenses from electric ut							
Rele	eased 48 licensed fiber miles to construct	ion						
	neering, Design, and Pre-Construction Ad							
	eived district-wide permits from the Mass							
		nchor Institution	ns totaling 837 to date, and surveyed all 22 Points of Interconnect					
	ions	unity Aunahan Ind	ativities a installations totaling 115 through 2/21 and 5 Dainta of					
	connect totaling 8 through 3/31	inity Anchor ins	stitutions installations totaling 415 through 3/31 and 5 Points of					
	npleted final strand count cable design for	all project pha						
			work, totaling 7 for the project through 3/31					
			plant parts, fiber optic cable, core optical network equipment, terminatio					
	els, and power plant	5						
Арр	roved prototype test lab for proof-of-desig	n and testing						
Cons	struction							
	alled 25 miles of messenger strand							
	alled 8 miles of fiber optic cable							
	nplete 82 CAI site installations							
lobs	Created or Retained							
	Total Number of Jobs Created or Retained	ed for the quar	ter was 33.09					
<b></b>	- in - hills							
	ainability cuted 11 Letters of Intent with Internet Se		s for providing network services. Through 3/31, we have executed 20					
	ers of Intent for Service		s of providing hetwork services. Through 5/51, we have executed 20					
	cuted 2 connecting agreements with Inter	net Service Pr	oviders					
			ilestones in your project. Write "0" in the Percent Complete column and "N activity. If you provided additional milestones in your baseline plan, please					
			ted in the instructions, figures should be reported cumulatively from award					
ncep		g quarter. Pleas	se provide a narrative description if the percent complete is different from t					
		-						
	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)					
			Tracking closely to budget projections; 4% under baseline to to					
2a.	Overall Project	48	cumulative reasons set forth below					
			Complete and at baseline projection. Compliance requirements with					
2b.	Environmental Assessment	100	environmental mitigation included in Design-Build RFP and the Owner					
			Project Manager will oversee work					

Project Manager will oversee work

the original NTIA budget

100

Ahead on budgeted expenditures by 43%, due to front-loaded focus of Owner's Project Manager, Design Builder and other consultants as

network design progressed. Costs are now projected to be higher than

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	Milestone	Percent Complete	Narrative (describe reasons for any variance from baseline plan or subsequent written updates provided to your program officer)
2d.	Rights of Way	100	Ahead on budgeted expenditures by 9%. Pole survey work has completed and make ready applications are nearly complete.
2e.	Construction Permits and Other Approvals	68	Ahead on budgeted expenditures by 15% due to high make ready costs during quarter. Cost are projected to be higher than original NTIA budget.
2f.	Site Preparation	0	Behind on budgeted expenditures by 75% due to activities now being projected to occur in Year 2 Quarter 4. Costs will be less than baseline projection.
2g.	Equipment Procurement	42	Ahead on budgeted expenditures by 4%. Equipment and materials were procured and paid for earlier than schedule due to industry-wide lengthened lead times on delivery.
2h.	Network Build (all components - owned, leased, IRU, etc)	22	Behind on budgeted expenditures by 30%. Design Build ramp-up and slower-than-expected. Make ready construction work by utilities has led to less expenditures to date than planned. Additionally, some costs included in the baseline report under this category are being captured under Network Design.
2i.	Equipment Deployment	21	Behind on budgeted expenditures by 17% due to equipment deployment starting later than planned
2j.	Network Testing	0	On par with baseline
2k.	Other (please specify):	100	Ahead on budgeted expenditures by 17% due to costs including: -Federal Compliance Staff -BTOP Non-Construction Staffing -Application and Post Application Submission Costs included in approved budget -Staff, Consulting and legal costs with agreements

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 completion of make ready work leading to pole licensing has been slower than expected due to the gradual ramp-up of the utility work forces involved with the reconciliation and construction work. In addition, we initially experienced a denial of significant amounts of conduit license applications which was reversed by the utility companies based on additional analysis of conduit availability, but the time from that analysis resulted in delays in obtaining conduit licenses. Make ready work is currently slightly behind our projected completion schedule, but our team continues to meet with utility officials at the executive level, as well as coordinate with crew managers on a daily and weekly basis to manage the priorities of the work and the rate in which it is completed.

In terms of the budget overruns, MTC has secured additional non-federal funds from the Commonwealth to offset budget overruns.

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	48	Behind on baseline projection by 152 miles due to slow make ready completion; current schedule forecasting indicates that progress will be made up in upcoming quarters
New network miles leased	0	Behind on baseline projection by 231 miles out of a total of 307 miles projected in the baseline; the actual mileage is 192.5 and is expected to take delivery June 1st, 2012, versus the original plan to accept delivery in the current quarter. Leased network miles are reduced to 192.5 from 307 due to leasing all as dark fiber instead of prior plan to lease a combination of dark fiber and a wavelength service.

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Indicator	Total	Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)
Existing network miles upgraded	0	Variance of 55 miles from the baseline equates to those miles provided as match for this quarter but won't be considered "existing upgraded" until they are lit with BTOP funds in a future quarter.
Existing network miles leased	0	N/A
Number of miles of new fiber (aerial or underground)	48	Behind on baseline projection by 438 miles as described in the preceding 4 lines.
Number of new wireless links	0	NA
Number of new towers	0	NA
Number of new and/or upgraded interconnection points	0	Behind on baseline projection by 1; MTC ended the quarter with the room fit out and equipment for 1 point of interconnection in process versus the expectation that it would be completed. This and other points of interconnection will be completed next quarter

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	4
Number of agreements currently being negotiated with broadband wholesalers or last mile providers	7
Average term of signed agreements (in quarters)	70

**5b.** Please list the names of the wholesale and last mile providers with whom you have signed agreements (100 words or less). Providers: Axia Networks, USA; Massachusetts Information Technology Division (ITD), Crocker Communications, FTG Technologies

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:

No services are being offered at this time.

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).

MTC has hired Axia NGNetworks USA as a contractor to run the entirety of the MassBroadband 123 network. They will also assist with equipment specifications and network and fiber design during the construction period. Tim Scott, Vice President, may be contacted at Tim.Scott@axia.com

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	Type Access Type		Narrative (describe your reasons for any variance from the baseline plan or any other relevant information)			
	Wholesalers or Last		head on baseline by 3; interest of service providers has xceeded expectations held at the time of grant submission			
Providers with signed agreements receiving improved access		0	Behind on baseline by 4; while connecting agreements are not yet executed; many letters of intent have been signed and will lead to connecting agreements.			

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Subscriber Type	Access Type	Total	Narrative (describe your reasons for any variance from th baseline plan or any other relevant information)
	Providers with signed agreements receiving access to dark fiber	0	Per NTIA guidance, MTC now lists service providers who receiv access to both lit and dark services on the primary method they will use to obtain services. MTC now anticipates that all service providers will primarily receive lit services, causing the value to remain at zero.
	Please identify the speed tiers that are available and the number of subscribers for each	0	N/A
Community Anchor Institutions (including Government institutions)	Total subscribers served	0	In preparing the baseline, MTC considered CAI connections as occurring upon installation of systems, but is now reporting base on when Community Anchor Institutions are capable of receivin lit service, resulting in a delay in the metrics. 82 installations hav been performed vs. the baseline of 145; ramp-up of subcontract effort is expected next quarter
	Subscribers receiving new access	0	In preparing the baseline, MTC considered CAI connections as occurring upon installation of systems, but is now reporting base on when Community Anchor Institutions are capable of receivin lit service, resulting in a delay in the metrics.
	Subscribers receiving improved access	0	In preparing the baseline, MTC considered CAI connections as occurring upon installation of systems, but is now reporting bas on when Community Anchor Institutions are capable of receivin lit service, resulting in a delay in the metrics.
	Please identify the speed tiers that are available and the number or subscribers for each	0	100Mbps: 3, 1Gbps: 4, 5Gbps: 0, 10Gbps+: 6
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

MTC offers a 15% discount off of wholesale rates to our state partners, Information Technology Division and Executive Office of Public Safety and Security. Our state partners contributed matching funds to the MassBroadband 123 grant application and they have committed to being an anchor tenant on the new network.

8a. Have your network management practices changed over the last quarter? O Yes O 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 Type of Anchor Are you also the Narrative description of how anchor institutions are using BTOP-Area (town Institution (as broadband funded infrastructure or county) defined in your service provider baseline) for this institution? (Yes / No) None to date None None None None Project Indicators (Next Quarter) 1. Please describe significant project accomplishments planned for completion during the next quarter (600 words or less). In the upcoming guarter, MTC plans to: Agreements Execute Pole Attachment and Conduit Agreement with Massachusetts Department of Conservation and Recreation Execute dark fiber Indefeasible Rights of Use (IRU) agreement with Westfield, Chicopee, Holyoke, and South Hadley Execute overlash agreement with Russell Municipal Light Department -Execute agreements with CSX Corporation, Pioneer Valley Railroad and Pan Am Railways -Continue filing of environmental and railroad permits Execute agreements with all remaining Points of Interconnect Design and Engineering -Complete segment construction drawings for 12 additional segments, for a total of 55% of the network -Complete site survey on all of the Community Anchor Institutions in the network (10% remain) -Complete inside plant design for 25% of the Community Anchor Institutions for a total of 60% of the network -Complete inside plant design for 5 Points of Interconnect for a total of 59% of the network Construction -Install network equipment at Community Anchor Institutions as designs are finalized and available. Expected to reach 35% of Institutions installed. MTC is performing equipment installations at Community Anchor Institutions in advance of actual connection, which requires connectivity to the nearest Point of Interconnection and from that Point of Interconnection to the internet Point of Presence. Due to adjusted make ready completion timelines, we now project the first connections as occurring in Year 2, Quarter 4 -Install messenger strand and fiber optic cable as utility pole licenses become available (an estimated 107 miles of fiber installed for the quarter) -Continue make ready work on poles -Operationalize the I91 fiber network, making it available for commercial use Sustainability -Negotiate additional Letters of Intent with Internet Service Providers and work towards contracts to provide service -Conduct Community Outreach meetings in the service area 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). Planned Percent Narrative (describe reasons for any variance from baseline plan or any Complete Milestone other relevant information) Ahead on projected expenditures by 5% due to higher than anticipated 2a. Overall Project 72 expenditures for make ready work and network design costs, both of which are higher than initial baseline plan Environmental Assessment completed. No further expenditures planned. 2b. Environmental Assessment 100 Compliance requirements with environmental mitigation included in the Design Build Request For Proposal and the Owner's Project Manager will oversee work Ahead on projected expenditures by 33%, due to front-loaded costs in areas of 100 2c. Network Design Owner, Owner's Project Manager, Design Builder and other consultants. Costs are projected to be higher than original baseline Ahead on projected expenditures by 2% due to being ahead of schedule and 2d. Rights of Way 100 complete with aerial and conduit applications and pole surveying work Ahead on projected expenditures by 32% due to higher than anticipated for 2e. Construction Permits and Other Approvals 100 make ready work costs, which has been forecast higher than in initial baseline plan

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	Milestone	Planned Percent Complete	Narrative (describe reasons for any variance from baseline plan or any other relevant information)			
2f.	Site Preparation	14	Behind on projected expenditures by 86% due to anticipated costs now forecast to be less than baseline projection, with portions captured in Network Design			
2g.	Equipment Procurement	99	Ahead on projected expenditures by 26%. Equipment and materials will be procured and paid for earlier than schedule due to industry-wide lengthened lead times on delivery. Costs are also now projected to be higher than baselin plan.			
2h.	Network Build (all components - owned, leased, IRU, etc.)	31	Behind on projected expenditures by 34%, due to some projected costs accounted for under Network Design. Design Build costs will continue to rise over remainder of project as construction fully ramps up			
2i.	Equipment Deployment	100	Ahead on projected expenditures by 25% due to higher equipment installation costs than in initial baseline plan.			
2j.	Network Testing	0	On par with baseline and projected expenditures			
2k.	Other (please specify):	100	<ul> <li>Ahead on projected expenditures by 12%; however; no significant expenditures planned next quarter which aligns with PPR projections and baseline. Costs include:</li> <li>Federal Compliance Staff</li> <li>BTOP Non-Construction Staffing</li> <li>Application and Post Application Submission Costs included in approved budget</li> <li>Staff, Consulting and Legal Costs with procurements</li> </ul>			

 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).
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## 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	\$1,871,196	\$598,342	\$1,272,854	\$1,931,425	\$621,752	\$1,309,673	\$2,021,674	\$656,949	\$1,364,725
b. Land, structures, right-of-ways, appraisals, etc.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
c. Relocation expenses and payments	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
d. Architectural and engineering fees	\$9,317,022	\$2,979,253	\$6,337,769	\$9,073,047	\$3,042,602	\$6,030,445	\$11,229,743	\$3,883,713	\$7,346,030
e. Other architectural and engineering fees	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
f. Project inspection fees	\$2,218,560	\$709,417	\$1,509,143	\$0	\$0	\$0	\$75,000	\$29,250	\$45,750
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	\$51,193,858	\$19,660,308	\$31,533,549	\$20,859,979	\$10,172,730	\$10,687,249	\$31,166,673	\$14,192,341	\$16,974,332
j. Equipment	\$7,044,808	\$2,252,680	\$4,792,129	\$2,874,533	\$984,809	\$1,889,724	\$7,051,038	\$2,613,646	\$4,437,392
k. Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
I. SUBTOTAL (add a through k)	\$71,645,444	\$26,200,000	\$45,445,444	\$34,738,984	\$14,821,893	\$19,917,091	\$51,544,128	\$21,375,899	\$30,168,229
m. Contingencies									
n. TOTALS (sum of I and m)	\$71,645,444	\$26,200,000	\$45,445,444	\$34,738,984	\$14,821,893	\$19,917,091	\$51,544,128	\$21,375,899	\$30,168,229
2. Program Incom reporting period.	e: Please prov	vide the progr	am income yo	ou listed in yo	ur application	budget and a	ctuals to date	through the e	nd of the
a. Application Bud	get Program I	ncome: \$0		b. Pro	gram Income	o Date: \$186	6,444		