

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

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

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

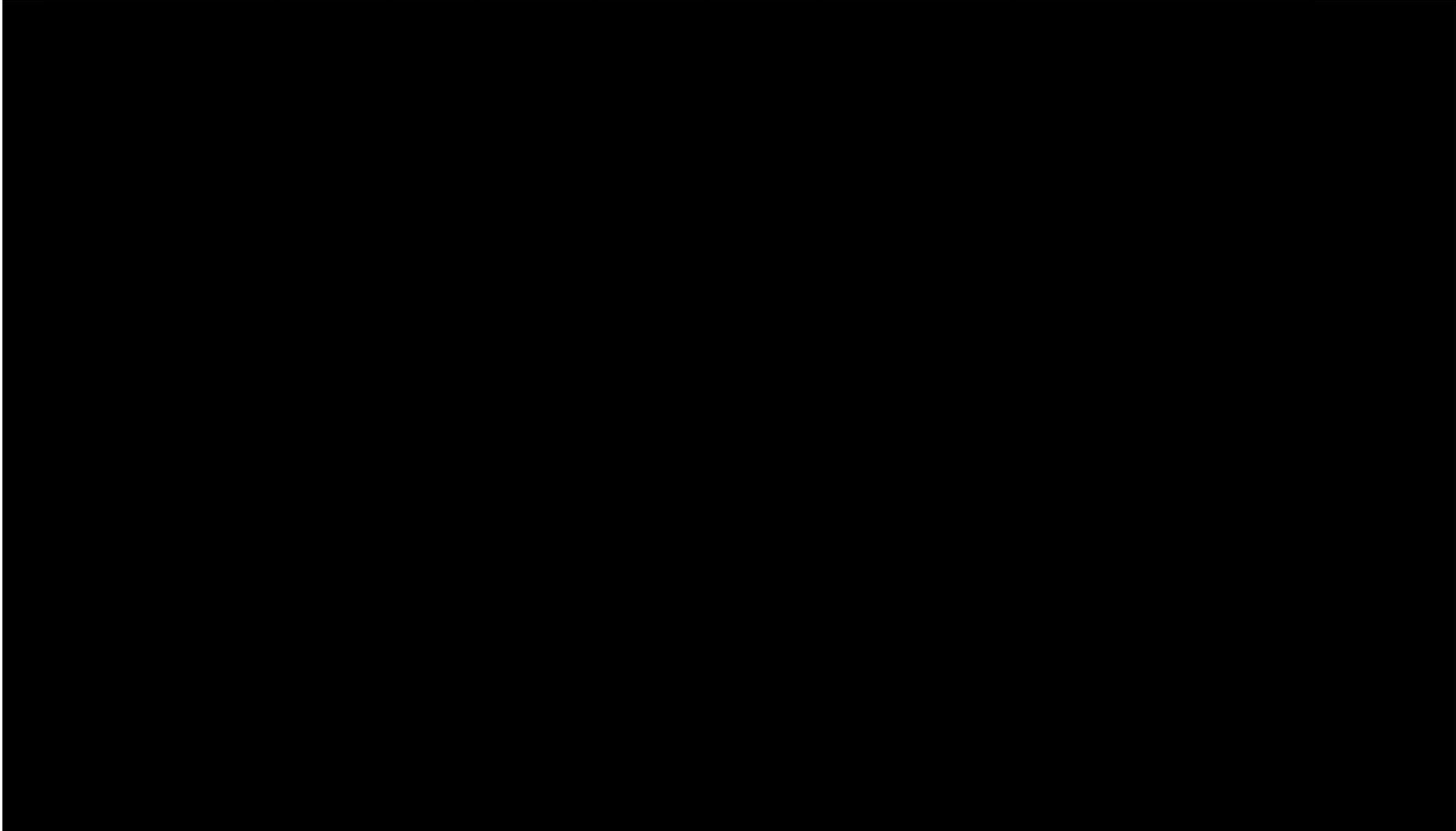
In the Last Mile Service Offerings worksheet, applicants are required to provide estimated average end user speeds. Average speeds should be the average sustained actual, non-burst speeds that an end user would receive during a peak hour. For purposes of calculating these speeds, applicants should utilize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

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

In contrast to several other upload templates in this application, the data provided via this template will NOT be subject to automated processing. These template worksheets are provided to demonstrate the level of data required and to provide a suggested format. Applicants are free to modify the template layouts in order to provide the most effective presentation of the data for their specific project. Applicants should, however, ensure that they provide at least as much detail as these templates require. To the extent that you modify these templates please ensure that the print layouts are adjusted so that rows do no break across pages in a manner that will be difficult to understand. A PDF of this file will be automatically generated upon upload to Easygrants, and the print settings will be used to format the PDF file.

### Upload 18.1: Proposed Last Mile Service Offerings

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



10 Pages

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

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

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

Date

3/22/2010

Authorized Organization Representative Signature

Donald J. Welch

Print Name

Title

President/CEO Merit Network

## **BTOP Comprehensive Community Infrastructure Detailed Budget**

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

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

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

**Important Update - 3/19/2010:** This template has been updated with the addition of a new column in the Detailed Project Costs worksheet. The new column, titled "Cash Match Percentage" allows Applicants to specify the percentage of the line item cost the will be provided by the cash match. This column is only relevant if "Cash Match" is selected in column C (the "Match" column). If "Cash Match" is selected in column C, Applicants should specify a percentage in the Cash Match Percentage field--100% means that the line item will be paid for entirely from the cash match, 0% means that it is paid for entirely from the federal request, any other amount will allocate the costs between the federal request and the cash match.

Note that *it is not required for Applicants to use this updated template*. Applicants that submit their detailed budget using the previously available template will not be penalized. In the previous version of this template, selecting "Cash Match" in column C indicates that 100% of the line item cost will be paid from the cash match.

## General Budget Overview

Budget	Federal Funding Request	Matching Funds (Cash)	Matching Funds (In-Kind)	Budget TOTAL	Last Mile Allocation	Middle Mile Allocation	Allocated TOTAL
Network & Access Equipment (switching, routing, transport, access)	\$12,043,199	\$3,010,800		\$15,053,999		\$15,053,999.00	\$15,053,999
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)	\$54,229,457	\$13,557,364		\$67,786,822		\$67,786,821.75	\$67,786,822
Buildings and Land – (new construction, improvements, renovations, lease)	\$892,800	\$223,200		\$1,116,000		\$1,116,000.00	\$1,116,000
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)				\$0			\$0
Billing and Operational Support Systems (IT systems, software, etc.)				\$0			\$0
Operating Equipment (vehicles, office equipment, other)	\$13,952	\$3,488		\$17,440		\$17,440.00	\$17,440
Engineering/Professional Services (engineering design, project management, consulting, etc.)	\$2,334,122	\$583,531		\$2,917,653		\$2,917,653.00	\$2,917,653
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)	\$120,000	\$30,000		\$150,000		\$150,000.00	\$150,000
Site Preparation	\$5,760	\$1,440		\$7,200		\$7,200.00	\$7,200
Other				\$0			\$0
<b>TOTAL BROADBAND SYSTEM:</b>	<b>\$69,639,291</b>	<b>\$17,409,823</b>	<b>\$0</b>	<b>\$87,049,114</b>	<b>\$0</b>	<b>\$87,049,114</b>	<b>\$87,049,114</b>
<b>Cost Share Percentage:</b>	<b>80.00%</b>	<b>20.00%</b>	<b>0.00%</b>				

## DETAIL OF PROJECT COSTS

COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

		Unit Cost	No. of Units	Total Cost	Cash Match Amount	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPMENT</b>				<b>\$15,053,999</b>		<b>\$0</b>	<b>\$15,053,999</b>	<b>\$15,053,999</b>		
<b>Switching</b>	4 Port 10/100/100 Switch	\$3,880.00	62	\$240,560.00	\$48,112		\$240,560.00	\$240,560	10. Equipment	Quote From Vendor
	Cisco 3560	\$6,000.00	4	\$24,000.00	\$4,800		\$24,000.00	\$24,000	10. Equipment	Quote From Vendor
	12 Port 10/100/1000 Switch	\$5,494.00	19	\$104,386.00	\$20,877		\$104,386.00	\$104,386	10. Equipment	Quote From Vendor
<b>Routing</b>	24 Port 10/100/1000 10Gbps Uplinks	\$13,520.00	12	\$162,240.00	\$32,448		\$162,240.00	\$162,240	10. Equipment	Quote From Vendor
	Metro 10 Gbps Ethernet Router	\$241,840.00	1	\$241,840.00	\$48,368		\$241,840.00	\$241,840	10. Equipment	Quote From Vendor
	Cisco 7206	\$81,000.00	5	\$405,000.00	\$81,000		\$405,000.00	\$405,000	10. Equipment	Quote From Vendor
	Cisco 10GE Enhanced	\$11,049.00	19	\$209,931.00	\$41,986		\$209,931.00	\$209,931	10. Equipment	Quote From Vendor
	Cisco XFP	\$4,424.00	19	\$84,056.00	\$16,811		\$84,056.00	\$84,056	10. Equipment	Quote From Vendor
<b>Transport</b>	40 Wave DWDM Optical Network	\$1,993,982.00	1	\$1,993,982	\$398,796		\$1,993,982.00	\$1,993,982	10. Equipment	Quote From Vendor
	Multiprotocol Optical/Switching	\$3,046,091.00	1	\$3,046,091	\$609,218		\$3,046,091.00	\$3,046,091	10. Equipment	Quote From Vendor
	Occam XFP	\$18,802.00	19	\$357,238	\$71,448		\$357,238.00	\$357,238	10. Equipment	Quote From Vendor
	Cyan Terminal	\$52,658.00	19	\$1,000,502	\$200,100		\$1,000,502.00	\$1,000,502	10. Equipment	Quote From Vendor
	Z33 ADM	\$35,000.00	14	\$490,000	\$98,000		\$490,000.00	\$490,000	10. Equipment	Quote From Vendor
	Z77 ADM	\$60,000.00	7	\$420,000	\$84,000		\$420,000.00	\$420,000	10. Equipment	Quote From Vendor
	Z33 AMP	\$20,000.00	9	\$180,000	\$36,000		\$180,000.00	\$180,000	10. Equipment	Quote From Vendor
	OPT 6100	\$25,000.00	8	\$200,000	\$40,000		\$200,000.00	\$200,000	10. Equipment	Quote From Vendor
	TA5000	\$45,500.00	16	\$728,000	\$145,600		\$728,000.00	\$728,000	10. Equipment	Quote From Vendor
	Fujitsu 4500	\$58,098.00	1	\$58,098	\$11,620		\$58,098.00	\$58,098	10. Equipment	Quote From Vendor
	Miscellaneous Colo	\$13,726.00	1	\$13,726	\$2,745		\$13,726.00	\$13,726	10. Equipment	Quote From Vendor
	Fujitsu 4500	\$89,474.00	1	\$89,474	\$17,895		\$89,474.00	\$89,474	10. Equipment	Quote From Vendor
	Miscellaneous Colo	\$13,726.00	1	\$13,726	\$2,745		\$13,726.00	\$13,726	10. Equipment	Quote From Vendor
	Fujitsu 4500	\$58,097.00	1	\$58,097	\$11,619		\$58,097.00	\$58,097	10. Equipment	Quote From Vendor
	Miscellaneous Colo	\$13,726.00	1	\$13,726	\$2,745		\$13,726.00	\$13,726	10. Equipment	Quote From Vendor
	Fujitsu 4500	\$52,690.00	1	\$52,690	\$10,538		\$52,690.00	\$52,690	10. Equipment	Quote From Vendor
	Miscellaneous Colo	\$13,726.00	1	\$13,726	\$2,745		\$13,726.00	\$13,726	10. Equipment	Quote From Vendor
	Fujitsu 4500	\$58,917.00	1	\$58,917	\$11,783		\$58,917.00	\$58,917	10. Equipment	Quote From Vendor
	Miscellaneous Colo	\$13,726.00	1	\$13,726	\$2,745		\$13,726.00	\$13,726	10. Equipment	Quote From Vendor
	Fujitsu 7420	\$40,577.00	1	\$40,577	\$8,115		\$40,577.00	\$40,577	10. Equipment	Quote From Vendor
	Fujitsu 7420	\$40,577.00	1	\$40,577	\$8,115		\$40,577.00	\$40,577	10. Equipment	Quote From Vendor
	Spares	\$37,693.00	1	\$37,693	\$7,539		\$37,693.00	\$37,693	10. Equipment	Quote From Vendor
	Zhone MXK 23" Platform Base System	\$24,380.00	30	\$731,400	\$146,280		\$731,400.00	\$731,400	10. Equipment	Quote From Vendor
	Cisco 6509 Base Platform	\$42,650.00	30	\$1,279,500	\$255,900		\$1,279,500.00	\$1,279,500	10. Equipment	Quote From Vendor
	Cisco ONS 15454 Base Platform	\$36,840.00	30	\$1,105,200	\$221,040		\$1,105,200.00	\$1,105,200	10. Equipment	Quote From Vendor
	Adtran MX2820 Mux	\$5,320.00	30	\$159,600	\$31,920		\$159,600.00	\$159,600	10. Equipment	Quote From Vendor
<b>Access</b>	Fujitsu 4500 Shelf	\$2,077.00	19	\$39,463	\$7,893		\$39,463.00	\$39,463	10. Equipment	Quote From Vendor
	C3	\$100,000.00	1	\$100,000	\$20,000		\$100,000.00	\$100,000	10. Equipment	Quote From Vendor
	G6	\$100,000.00	3	\$300,000	\$60,000		\$300,000.00	\$300,000	10. Equipment	Quote From Vendor
	G2	\$50,000.00	1	\$50,000	\$10,000		\$50,000.00	\$50,000	10. Equipment	Quote From Vendor
	Fujitsu Filler Panels	\$156.00	19	\$2,964	\$593		\$2,964.00	\$2,964	10. Equipment	Quote From Vendor
	Fujitsu Fan Units	\$387.00	19	\$7,353	\$1,471		\$7,353.00	\$7,353	10. Equipment	Quote From Vendor
	Fujitsu OC-48 Card	\$8,920.00	19	\$169,480	\$33,896		\$169,480.00	\$169,480	10. Equipment	Quote From Vendor
	Fujitsu OC-48 Card	\$8,920.00	19	\$169,480	\$33,896		\$169,480.00	\$169,480	10. Equipment	Quote From Vendor
	Fujitsu 10/100 Card	\$326.00	19	\$6,194	\$1,239		\$6,194.00	\$6,194	10. Equipment	Quote From Vendor
	Fujitsu CPU Card	\$1,825.00	19	\$34,675	\$6,935		\$34,675.00	\$34,675	10. Equipment	Quote From Vendor
	Fujitsu Shelf Com Card	\$1,090.00	19	\$20,710	\$4,142		\$20,710.00	\$20,710	10. Equipment	Quote From Vendor

	Fujitsu Alarm & Maint Card	\$830.00	19	\$15,770	\$3,154	\$15,770.00	\$15,770	10. Equipment	Quote From Vendor
	Fujitsu Optical Switch Cards	\$6,034.00	19	\$114,646	\$22,929	\$114,646.00	\$114,646	10. Equipment	Quote From Vendor
	Fujitsu Timing Cards	\$2,112.00	19	\$40,128	\$8,026	\$40,128.00	\$40,128	10. Equipment	Quote From Vendor
<b>Other</b>	Power & Tel Fiber Jumpers	\$221.00	19	\$4,199	\$840	\$4,199.00	\$4,199	10. Equipment	Quote From Vendor
	Occam 48 port 10GE blade	\$7,897.00	19	\$150,043	\$30,009	\$150,043.00	\$150,043	10. Equipment	Quote From Vendor
	Occam 6 slot chassis	\$2,323.00	19	\$44,137	\$8,827	\$44,137.00	\$44,137	10. Equipment	Quote From Vendor
	ADC Patch SP APC 96 Port	\$5,522.00	18	\$99,396	\$19,879	\$99,396.00	\$99,396	10. Equipment	Quote From Vendor
	ADC FIBER MANAGEMENT	\$728.00	18	\$13,104	\$2,621	\$13,104.00	\$13,104	10. Equipment	Quote From Vendor
	SPLIC NG ON ABOVE	\$221.00	18	\$3,978	\$796	\$3,978.00	\$3,978	10. Equipment	Quote From Vendor
<b>OUTSIDE PLANT</b>				<b>\$67,786,822</b>	<b>\$0</b>	<b>\$67,786,822</b>	<b>\$67,786,822</b>		
<b>Cables</b>	Fiber Build Strands	\$41,525.63	1172.2	\$48,676,341.86	\$9,735,268	\$48,676,341.86	\$48,676,342	9. Construction	Consultation from multiple fiber installation contractors for fiber build for 12 strand to 156 strand. Installation of fiber optic cable and repair of any current infrastructure (make ready) labor includes aerial and underground construction. Variances between build costs are due to location issues and number of fiber strands in bundle.
	Fiber Build Strands	\$2,000.00	1172.2	\$2,344,400.00	\$468,880	\$2,344,400.00	\$2,344,400	4. Architectural and engr.	Consultation from multiple fiber installation contractors. Engineering and surveying of fiber routes and prep for documentation of the permitting process
	Fiber Build Strands	\$625.00	1172.2	\$732,625.00	\$146,525	\$732,625.00	\$732,625	6. Inspection fees	Average pole inspection fee at \$5.00 per pole with an average of 25 poles per mile. MDOT charges \$500 per mile for inspection.
	Fiber Build Strands	\$6,000.00	1172.2	\$7,033,200.00	\$1,406,640	\$7,033,200.00	\$7,033,200	10. Equipment	Vendor Quote
	Fiber RU Strands	\$27,468.00	54	\$1,483,272.00	\$296,654	\$1,483,272.00	\$1,483,272	10. Equipment	Based on existing market rates for 20 Year IRU.
	Fiber RU Strands	\$330,000.00	5.5	\$1,815,000.00	\$363,000	\$1,815,000.00	\$1,815,000	10. Equipment	Negotiated With Michigan Bridge Authority included 1st year maintenance
	Central Office Access (Shared)	\$75,000.00	33	\$2,475,000.00	\$495,000	\$2,475,000.00	\$2,475,000	9. Construction	Consultation from Vendors who have built dual entrance access into central offices.
	Central Office Wiring Material Merit	\$118,750.00	1	\$118,750.00	\$23,750	\$118,750.00	\$118,750	7. Site work	Quote From Vendor
	48 Strand Single Mode Direct Bury	\$44,205.00	2	\$88,410.00	\$17,682	\$88,410.00	\$88,410	10. Equipment	Quote From Vendor
	Anchor Tenant Access Laterals	\$43,969.00	37.81	\$1,662,467.89	\$332,494	\$1,662,467.89	\$1,662,468	10. Equipment	Consultation from two fiber installation contractors and Merit's own experience installing fiber into anchor tenants.
	Anchor Tenant Access	\$5,000.00	61	\$305,000.00	\$61,000	\$305,000.00	\$305,000	7. Site work	Consultation from two fiber installation contractors and Merit's own experience installing fiber into anchor tenants.
<b>Conduits</b>				\$0	\$0		\$0		
				\$0	\$0		\$0		
				\$0	\$0		\$0		
<b>Ducts</b>				\$0	\$0		\$0		
				\$0	\$0		\$0		
				\$0	\$0		\$0		
<b>Poles</b>	Telephone Poles	\$2,000.00	376	\$752,000.00	\$150,400	\$752,000.00	\$752,000	10. Equipment	Merit's experience and consultation with fiber installation contractors is that 1.5% of poles will need to be replaced. Cost for replacements in the areas of which fiber installation is being projected the estimated cost is \$2000 per pole.
				\$0	\$0		\$0		
				\$0	\$0		\$0		
<b>Towers</b>				\$0	\$0		\$0		
				\$0	\$0		\$0		
				\$0	\$0		\$0		
<b>Repeaters</b>				\$0	\$0		\$0		
				\$0	\$0		\$0		
				\$0	\$0		\$0		

Other	Fiber Hang Tags	\$2.50	30000	\$75,000.00	\$15,000		\$75,000.00	\$75,000	10. Equipment	Current Pricing of tags that Merit is currently using per Michigan State Law. The estimate of 100 poles per mile and Michigan State Law requires a tag at every pole attachment.
	Domed Marker Post	\$6,000.00	20	\$120,000.00	\$24,000		\$120,000.00	\$120,000	10. Equipment	Vendor Quote
	Underground tags	\$4.50	2500	\$11,250.00	\$2,250		\$11,250.00	\$11,250	10. Equipment	Tags for underground fiber per Michigan State Law.
	Installation Materials for site work	\$94,105.00	1	\$94,105.00	\$18,821		\$94,105.00	\$94,105	7. Site work	Quote From Vendor
		<b>Unit Cost</b>	<b>No. of Units</b>	<b>Total Cost</b>	<b>\$0</b>	<b>Last Mile Allocation</b>	<b>Middle Mile Allocation</b>	<b>Allocated Total</b>	<b>SF-424C Budget Category</b>	<b>Support of Reasonableness</b>
<b>BUILDINGS</b>				<b>\$1,116,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$1,116,000</b>	<b>\$1,116,000</b>		
<b>New Construction</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Pre-Fab Huts</b>	10' X 20'	\$93,000.00			\$223,200		\$1,116,000.00	\$1,116,000	2. Land, structures	Quote From Vendor
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Improvements &amp;</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Other</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>CUSTOMER PREMISE EQUIPMENT</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>Modems</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Set Top Boxes</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Inside Writing</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Other</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b>				<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>Billing Support</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Customer Care</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Other Support</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		

		Unit Cost	No. of Units	Total Cost	\$0	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>OPERATING EQUIPMENT</b>				<b>\$17,440</b>	<b>\$0</b>	<b>\$0</b>	<b>\$17,440</b>	<b>\$17,440</b>		
<b>Vehicles</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Office Equipment /</b>	Computers	\$ 2,000.00	6	\$12,000	\$2,400		\$12,000.00	\$12,000	11. Misc.	Vendor Average
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Other</b>	Phones	\$ 1,360.00	4	\$5,440	\$1,088		\$5,440.00	\$5,440	11. Misc.	4 cell phones, \$100 initial cost with and average of \$480 usage/yr, averaging between 2.5 and 3 years
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>PROFESSIONAL SERVICES</b>				<b>\$2,917,653</b>	<b>\$0</b>	<b>\$0</b>	<b>\$2,917,653</b>	<b>\$2,917,653</b>		
<b>Engineering Design</b>	Project Engineering Management	\$ 242,314.00	2	\$484,628	\$96,926		\$484,628.00	\$484,628	4. Architectural and engr.	Two project engineers. 2.5 years at current average staff cost
	Project Engineering Assistants	\$ 200,535.50	2	\$401,071	\$80,214		\$401,071.00	\$401,071	4. Architectural and engr.	Two project engineers. 2.5 years at current average staff cost
	Pre Award Engineering	\$ 16,603.00	1	\$16,603	\$3,321		\$16,603.00	\$16,603	4. Architectural and engr.	Multiple staff engineers at actual cost and hours
	Project Engineering Travel	\$ 27,945.00	2	\$55,890	\$11,178		\$55,890.00	\$55,890	4. Architectural and engr.	9 months of travel, estimating 1.5 trips per month at average lodging, meals, and cost/mile
	Project Manager	\$ 465,919.00	1	\$465,919	\$93,184		\$465,919.00	\$465,919	4. Architectural and engr.	Project managers average going rate
	Project Network and Access Equipment Engineering (PFN)	\$ 28,000.00	5	\$140,000	\$28,000		\$140,000.00	\$140,000	4. Architectural and engr.	Multiple design and field engineers estimated at current hourly rate
	Project Network and Access Equipment Engineering Travel (PFN)	\$ 2,243.60	5	\$11,218	\$2,244		\$11,218.00	\$11,218	4. Architectural and engr.	Travel for multiple design and field engineers estimated e number of trips per month at average lodging, meals, and cost/mile
	Pre Award Engineering & Clerical Assistan	\$ 10,000.00	1	\$10,000	\$2,000		\$10,000.00	\$10,000	4. Architectural and engr.	Estimated hours for clerical assistance at current
	Project Manager Assistant	\$ 221,460.00	1	\$221,460	\$44,292		\$221,460.00	\$221,460	4. Architectural and engr.	Project manager assistant average going rate
	Project Manager Travel	\$ 29,000.00	1.5	\$43,500	\$8,700		\$43,500.00	\$43,500	4. Architectural and engr.	9 months of travel, estimating 1.5 trips per month at average lodging, meals, and cost/mile
<b>Project</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Consulting</b>	BBCGI Mapping Unserved/Underserved	\$ 20,000.00	1	\$20,000	\$4,000		\$20,000.00	\$20,000	1. Admin and Legal	Quote From Vendor
	Grant Specialist	\$ 300,518.00	1	\$300,518	\$60,104		\$300,518.00	\$300,518	1. Admin and Legal	Quote From Vendor
	Pre Award Accounting PFN	\$ 3,660.00	1	\$3,660	\$732		\$3,660.00	\$3,660	1. Admin and Legal	Quote From Vendor
	Grant Specialist Assistant	\$ 180,310.00	1	\$180,310	\$36,062		\$180,310.00	\$180,310	1. Admin and Legal	Fiber splicing/OTDR testing/Optronic testing training going rates
	Grant Consulting	\$ 15,000.00	1	\$15,000	\$3,000		\$15,000.00	\$15,000	1. Admin and Legal	Fiber splicing/OTDR testing/Optronic testing training going rates
	Environmental Assessment	\$ 65,000.00	1	\$65,000	\$13,000		\$65,000.00	\$65,000	11. Misc.	Current estimate for environment assessment
	Lawyers Contract	\$ 30,000.00	1	\$30,000	\$6,000		\$30,000.00	\$30,000	1. Admin and Legal	Actual hours worked and hourly rate
	Lawyers Pre Award	\$ 6,250.00	1	\$6,250	\$1,250		\$6,250.00	\$6,250	1. Admin and Legal	Actual hours worked and hourly rate
<b>Other</b>	General Installation & Wiring per site (Lynx)	\$ 197,954.00	1	\$197,954	\$39,591		\$197,954.00	\$197,954	7. Site work	Quote From Vendor
	System Lineup & Test (Lynx)	\$ 84,204.00	1	\$84,204	\$16,841		\$84,204.00	\$84,204	4. Architectural and engr.	Quote From Vendor
	Deployment Charge (Lynx)	\$ 22,405.00	1	\$22,405	\$4,481		\$22,405.00	\$22,405	4. Architectural and engr.	Quote From Vendor
	Partner Training (Lynx)	\$ 15,800.00	1	\$15,800	\$3,160		\$15,800.00	\$15,800	11. Misc.	Fiber splicing/OTDR testing/Optronic testing training going rates
	Training	\$ 16,656.00	1	\$16,656	\$3,331		\$16,656.00	\$16,656	11. Misc.	Fiber splicing/OTDR testing/Optronic testing training going rates
	Insurance	\$ 43,500.00	1	\$43,500	\$8,700		\$43,500.00	\$43,500	11. Misc.	Current estimate for site work insurance
	Pre Award Accounting and ResearchCost (PFN)	\$ 19,500.00	1	\$19,500	\$3,900		\$19,500.00	\$19,500	1. Admin and Legal	Actual hours worked and hourly rate
	Pre Award Accounting and Research	\$ 46,607.00	1	\$46,607	\$9,321		\$46,607.00	\$46,607	1. Admin and Legal	Actual hours worked and hourly rate

TESTING				\$150,000	\$0	\$0	\$150,000	\$150,000		
<b>Network</b>	Chromatic Dispersion Meter	\$ 150,000.00	1	\$150,000	\$30,000		\$150,000.00	\$150,000	10. Equipment	Current rate estimates
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>IT System</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>User Devices</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Test Generators</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Lab</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Servers/Computer</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		

		Unit Cost	No. of Units	Total Cost	\$0	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>OTHER UPFRONT COSTS</b>				<b>\$7,200</b>	<b>\$0</b>	<b>\$0</b>	<b>\$7,200</b>	<b>\$7,200</b>		
<b>Site</b>	Power Improvements at AMP Sites	800	9	\$7,200	\$1,440		\$7,200	\$7,200	7. Site work	Current rate estimates
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>Other</b>				\$0	\$0			\$0		
				\$0	\$0			\$0		
				\$0	\$0			\$0		
<b>PROJECT TOTAL</b>				<b>\$87,049,114</b>		<b>\$0</b>	<b>\$87,049,114</b>	<b>\$87,049,114</b>		

SF-424C Cross-check Totals	
1. Admin and Legal	\$621,845
2. Land, structures	\$1,116,000
3. Relocation expenses	\$0
4. Architectural and engr.	\$4,301,298
5. Other archit. and engr.	\$0
6. Inspection fees	\$732,625
7. Site work	\$723,009
8. Demolition/removal	\$0
9. Construction	\$51,151,342
10. Equipment	\$28,244,599
11. Misc.	\$158,396

Matching Contribution Cross-check Totals	
Federal Funding Request	\$69,639,291
Cash Match Contribution	\$17,409,823
In-kind Match Contribution	\$0

Approach to allocating Last Mile and Middle Mile costs: This project is only involved directly in a middle mile build and no costs are allocated to last mile.

**BUDGET INFORMATION - Construction Programs**

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

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

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	\$ 621,845.00	\$	\$ 621,845.00
2. Land, structures, rights-of-way, appraisals, etc.	\$ 1,116,000.00	\$ 0.00	\$ 1,116,000.00
3. Relocation expenses and payments	\$ 0.00	\$ 0.00	\$ 0.00
4. Architectural and engineering fees	\$ 4,301,298.00	\$ 0.00	\$ 4,301,298.00
5. Other architectural and engineering fees	\$ 0.00	\$ 0.00	\$ 0.00
6. Project inspection fees	\$ 732,625.00	\$ 0.00	\$ 732,625.00
7. Site work	\$ 723,009.00	\$ 0.00	\$ 723,009.00
8. Demolition and removal	\$ 0.00	\$ 0.00	\$ 0.00
9. Construction	\$ 51,151,342.00	\$ 0.00	\$ 51,151,342.00
10. Equipment	\$ 28,244,599.00	\$ 0.00	\$ 28,244,599.00
11. Miscellaneous	\$ 158,396.00	\$ 0.00	\$ 158,396.00
12. SUBTOTAL (sum of lines 1- 11)	\$ 87,049,114.00	\$ 0.00	\$ 87,049,114.00
13. Contingencies	\$ 0.00	\$ 0.00	\$ 0.00
14. SUBTOTAL	\$ 87,049,114.00	\$ 0.00	\$ 87,049,114.00
15. Project (program) income	\$ 0.00	\$ 0.00	\$ 0.00
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$ 87,049,114.00	\$ 0.00	\$ 87,049,114.00
<b>FEDERAL FUNDING</b>			
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter eligible costs from line 16c Multiply X <input type="text" value=".80"/> % Enter the resulting Federal share.			\$ 69,663,291.00

## ASSURANCES - CONSTRUCTION PROGRAMS

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

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

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

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

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

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

11. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal and federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
12. Will comply with the provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
13. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333) regarding labor standards for federally-assisted construction subagreements.
14. Will comply with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
15. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
16. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
17. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq).
18. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
19. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

*SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL 	*TITLE PRESIDENT & CEO
*APPLICANT ORGANIZATION MERIT NETWORK	*DATE SUBMITTED 23 MAR 10.00