

Comprehensive Community Infrastructure Budget Narrative Template

Applicant Name: University of Wisconsin - Extension

EasyGrants Number: 5710

Organization Type: Other

Proposed Period of Performance: October 1, 2010 – September 30, 2013

Total Project Costs: \$42,726,744

Total Federal Grant Request: \$29,884,914

Total Matching Funds (Cash): \$9,241,102

Total Matching Funds (In-Kind): \$3,600,728

Total Matching Funds (Cash + In-Kind): \$12,841,830

Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: 30.06%

1. Administrative and legal expenses - \$1,567,042

- \$1,157,621 of this category is estimated for Project Management staff. This consists of a project manager in each of the Community Area Networks (CANs) (FTE varies amongst communities), a Technical Project Manager (1 FTE) who will supervise progress in all of the CANs and oversee the Inter-Community Middle Mile Backbone Network (ICMMBN) build-out, and a Project Manager (.5 FTE) who will monitor the technical progress, ensure adherace to timeline, oversee the fiscal, compliance, and reporting staff, ensure overall success of the project, and coordinate this project with the UWEX BCCB Sustainable Broadband Adoption project.
- \$390,935 of this category is estimated for Fiscal Management of the project. 0.5 FTE is assigned to Fiscal Compliance for the grant, 0.5 FTE is assigned to Reporting Compliance for the grant, and the Chippewa Valley Area has included 1 FTE for Fiscal and Reporting Management for their CAN. This person will work closely with both 0.5 FTEs.
- \$18,486 of this category is for pre-application expenses. This includes time spent by WiscNet's Executive Director working with UWEX to develop the strategy for this project and WiscNet's Budget and Policy Analyst to develop the project budget and the pro-formas for the project.



Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 - Required Match Detail By Partner.

The following match is committed to the Administrative and Legal Expense category, and corresponds to the match attributed to lines identified as part of this category in the Detailed Project Budget:

Cash Match: \$236,278 in cash is committed to administrative expenses.

In-Kind Match: \$43,780 of in-kind match is committed to administrative pre-application expenses.

The following table is a detailed list of all costs in this category:

Staff	Hours Per Year	Years	Total Hours Spent on Project	Rate	Total Cost
BTOP Project Manager	1044	3	3132		
BTOP Technology Project Manager	2088	3	6264		
Superior Area Project Manager	1044	1	1044		
Wausau Area Project Manager	125.28	1	125.28		
Chippewa Valley Contract Project Manager	1250	2	2500		



Platteville Area Project Manager	208.8	1	208.8	
BTOP Fiscal Manager	1044	3	3132	
BTOP Reporting Compliance Manager	1044	3	3132	
WiscNet Executive Director – Pre- Application Expense	41	N/A	41	
Budget and Policy Analyst – Pre-application Expense	356.9	N/A	356.9	
WiscNet Project Manager – Pre- application Expense	342	N/A	342	
Chippewa Valley Area BTOP Financial Manager	2088	2	4176	
TOTAL:				\$1,567,042

2. Land, structure, rights-of-way, appraisals, etc. - \$3,493,600

- \$1,543,200 of this category is estimated for new tower and ground facilities needed to support the WiMAX antenna system in the Chippewa Valley area.
- **\$1,509,000** of this category is estimated for Wisconsin Department of Transportation Right-of-Way costs.



- \$20,000 of this cateogry is estimated for easement costs in the Platteville area.
- \$421,400 of this category is estimated for regeneration huts along the ICMMBN.

Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 – Required Match Detail By Partner.

The following match is committed to the Land, structure, rights-of-way, and appraisals category, and corresponds to lines identified as part of this category in the Detailed Project Budget:

Cash Match: There is \$0 in cash commitment to this project.

In-Kind Match: \$1,509,000 of in-kind is committed to Right-of-Way costs.

The following table is a detailed list of all costs in this category:

Description	Unit Cost	Number of Units	Total Cost
Chippewa Valley Area – Tower and ground facilities		12	
Platteville Area – Easement Costs		Ĩ	
Wisconsin Department of Transportation Right-of-Way: U.S. Highway 53 Chippewa Falls to Superior		136	
Wisconsin Department of Transportation Right-of-Way: U.S. Highway 151 Madison to Platteville		69	
Wisconsin Department of Transportation Right-of-Way: Interstate Highway 39 Stevens Point to Wausau		30	
ICMMBN Regeneration Huts		4	
TOTAL:			\$3,493,600

3. Relocation expenses and payment - \$0

There are no relocation expenses in this budget.

4. Architectural and engineering fees - \$1,439,132

- \$728,504 of this category is estimated for engineering labor of ICMMBN.
- \$695,181 of this category is estimated for engineering labor for Community Area Networks.
- \$15,447 of this category is for Pre-Application expenses.

Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 – Required Match Detail By Partner.

The following match is committed to the Architectural and Engineering fees category, and corresponds to lines identified as part of this category in the Detailed Project Budget:

- Cash Match: \$100,553 of cash is committed to ICMMBN Engineering labor.
- In-Kind Match: \$15,447 of in-kind is committed to pre-application expenses.

The following table is a detailed list of all costs in this category:

Staff	Hours Per Year	Years	Total Hours Spent on Project	Rate	Total Cost
Chippewa Valley Area Contract WiMAX Engineer Labor	2500	1	2500		
Platteville Area Contract Engineering Labor	(Rate based on number of feet) 55,305	1	(Rate based on number of feet) 55,305		



	1			
Middle Mile Backbone Fiber Manager	1044	3	3132	
Community Area Network Fiber Manager	1044	3	3132	
Middle Mile Backbone Network Engineer	2088	3	6264	
Superior Area Technical Engineer	417.6	1	417.6	
Chippewa Valley Network Engineer	2088	2	4176	
Wausau Area Contract Network Engineer	2800	1	2088	
Middle Mile Backbone Engineer – Pre- application expense	155.5	N/A	155.5	
CCI Systems Consultation Labor – Pre- application expense	251	N/A	251	
TOTAL:				\$1,439,132

5. Other architectural and engineering fees - \$7,500

We include \$7,500 in this category for pre-application expense. We hired an environmental engineering firm to assist in the preparation of the environmental essay pieces of this application.

Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 – Required Match Detail By Partner.

The following match is committed to the Other architectural and engineering fees category, and corresponds to lines identified as part of this category in the Detailed Project Budget:

- Cash Match: \$0 of cash is committed to this category.
- In-Kind Match: \$7,500 of in-kind is committed to pre-application expenses.

6. Project inspection fees - \$0

There are no project inspection fees in this budget.

7. Site work - \$0

There are no site work costs in this budget.

8. Demolition and removal - \$0

There are no demolition and removal costs for this project.

9. Construction - \$30,047,811

- **\$10,259,118** is estimated for the Chippeway Valley Demonstration CAN operated by the Chippewa Valley Internetworking Consortium (CINC).
 - Per fiber mile rates in the Chippewa Valley Area are based on their extensive fiberbuilding experience, as well as quotes from CCI Systems. These quotes take into account a mixture of urban and rural environments and a mixture of installation methods. The rates reflect the variance in cost between urban and rural fiber builds.
- \$1,761,671 is estimated for Wausau Demonstration Community CAN operated by NorthCentral Technical College.
 - Per fiber mile rates in the Wausau area are based on a response from Michels Communications to a Request for Information. Their response assumes that 8.4% of the underground path is installed in 1.25" conduit via the plowing installation method. It also assumes that 91.6% of the underground path is installed in 1.25" conduit via the direcitonal bore installation method. Their quote assumes that 2.7% of the path is river crossings, 2.6% of the path is an elevated bore along Interstate 39, and 11.4% of solid rock.



- There is a separate path in Marshfield to connect a University of Wisconsin Eau Claire Nursing Satellite Facility. The cost for this path is based on estimates from CCI Systems and assumes an urband fiber build.
- \$735,127 is estimated for the Platteville Demonstration Community CAN operated by the University of Wisconsin Platteville.
 - Per fiber mile rates in the Platteville area are based on a detailed quote from Koch Telecommunications. The rates include costs for handholes, splice cases, conduit costs, and surface and lawn restoration.
- \$409,600 is estimated for the Superior Demonstration Community CAN operated by the University of Wisconsin Superior.
 - Per fiber mile rates in the Superior area are based on a quote from our private, forprofit partner, CCI Systems. The rates assume the entire build will be a directional bore installation, with conduit, in the downtown area.
- \$14,606,932 is estimated for the ICMMBN operated by WiscNet and CCI Systems.
 - The rates for the ICMMBN were developed by CCI Systems. The rates are for each major leg of the ICMMBN and take into conditions on each path. Assumptions for each path are:
 - Summit Lake to Wausau: 15% of the path will be installed via directional bore with conduit. The rest of the path will be direct bury of armored cable via plowing. 96 strands of fiber optic cable will be installed on the entire path.
 - Wausau to Stevens Point: 9.5% of the path will be installed via directional bore with conduit. The rest of the path will be direct bury of armored cable via plowing. 96 strands of fiber optic cable will be installed on the entire path.
 - Stevens Point to Eau Claire: 10% of the path will be installed via directional bore with conduit. The rest of the path will be direct bury of armored cable via plowing. 96 strands of fiber optic cable will be installed on the entire path.
 - Chippewa Falls to Superior: 10% of the path will be installed via directional bore with conduit. The rest of the path will be direct bury of armored cable via plowing. 33.4% of the path will have 144 strands of fiber optic cable. The rest of the path will have 96 strands.
 - Madison to Platteville: 10% of the path will be installed via directional bore with conduit. The rest of the path will be direct bury of armored cable via plowing. 92.7% of the path will have 96 strands of fiber optic cable. 7.3% of the path will have 144 strands of fiber optic cable.
- \$34,000 is estimated for building entrance costs. CCI Systems provided a per entrance estimate of \$2,000. We assume 17 entrances.



- **\$479,930** is estimated for the Last Mile Network operated by our private, for-profit partners CCI Systems.
 - CCI Systems is proposing to install RF Distribution systems in 2 of the 8 Last Mile Service areas. Those are fully allocated to Last Mile costs. They are also installing optical equipment to provide both Last Mile and Middle Mile Services in the 8 Last Mile Service Areas. We have allocated portions of the ICMMBN fiber paths based on a percentage calculation. CCI Systems will own half of the installed fiber strands to be used for providing Middle Mile Services, and to provide Last Mile Services. It is estimated that 4 fiber optic strands will dedicated to Last Mile Services on 3 of the ICMMBN paths. By using the formula 4/96 (4 fiber optic strands divided by the 96 strands to be installed on the paths), 4.2% of the fiber cost on the paths between Summit Lake and Eau Claire is attributable to Last Mile Services.
- \$1,761,433 is estimated for Indirect Costs associated with the installation labor for the ICMMBN.
 - UWEX is assessing an 16% indirect cost rate on labor associated with the installation of the ICMMBN fiber. This fiber will serve 3 UW Colleges. The average percent of total cost attributable to installation is 75.5%. The actual labor cost for each ICMMBN path was used to calculate indirects.

Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 – Required Match Detail By Partner.

The following match is committed to the Construction Cost category, and corresponds to lines identified as part of this category in the Detailed Project Budget:

Cash Match: \$6,437,652 in cash is committed to construction costs.

- is committed by partners in the Chippewa Valley area for the CINC network.
- is committed by partners in the Wausau area for the Wausau CAN.
- is committed by partners in the Superior area for the Superior CAN.
- is committed by partners in the Platteville area for the Platteville CAN.
- **Backbone** is committed by Statewide partners for the Inter-Community Middle Mile Backbone Network.

In-Kind Match: \$1,997,662 of in-kind is committed to construction costs.

- Of existing fiber network and conduit is committed by the CINC partners in the Chippewa Valley area.
- of existing conduit is committed by the City of Wausau in the Wausau area.
- **Platteville** School District for the Platteville CAN.

• of existing fiber network is committed by CCI Systems in support of the ICMMBN.

10. Equipment - \$6,083,477

- is estimated for equipment needed for the Community Area Networks.
- is estimated for WiMAX equipment in the Chippewa Valley Area.
- is estimated for optical hardware on the ICMMBN.
- is estimated for router equipment on the ICMMBN.
- is estimated for switch equipment on the ICMMBN.
- is estimated for 1 unit of test/spare Optical Add/Drop equipment.

Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 – Required Match Detail by Partner.

The following match is committed to the Equipment Cost category, and corresponds to lines identified as part of this category in the Detailed Project Budget:

Cash Match: \$2,466,620 in cash is committed to equipment costs.

- of cash is committed to CAN equipment.
- of cash is committed for WiMAX equipment.
- of cash is committed to ICMMBN Optical Hardware.
- of cash is committed to ICMMBN Router Hardware.
- of cash is committed to ICMMBN Switch Hardware.
- of cash is committed to ICMMBN Test Hardware.

In-Kind Match: There is no in-kind match for equipment costs.

The following table is a detailed list of all costs in this category. All hardware is purchased:

Category of Equipment (CAN, WiMAX,	Description	Unit Cost	Number of Units	Total Cost
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Optical, Router, Switch, Test)			
Community Area Networks	Cisco 3560G Switch or equivalent	15	
(CAN)	Cisco 3750 Metro Routing Switch or equivalent	61	
	Cisco 3750 Routing Switch or equivalent	53	
	Cisco IE3000 Switch or equivalent	23	
	OptiSwitch OS304 or equivalent	22	
	Enterasys 12 10/100/1000baseT, 2 1000baseX SFP Switch or equivalent	10	
	Enterasys SSA Distribution/Core switch/router 48 1000baseX SFP, 4 10GbaseX SFP+, 625W power supply or equivalent	2	
	Enterasys Rack Mount Kit for D2 switch or equivalent	1	
	Enterasys Wall mount kit for D2 switch or equivalent	9	



	Cisco 888 Wireless Router or equivalent	39	
	Enterasys 1Gb 1000base-T RJ45 SFP or equivalent	14	
	Enterasys 1Gb 1000base-LX SMF LC SFP 10km or equivalent	49	
Total: CAN Equipment			\$1,085,672
WIMAX	BWG – ASN Gateway or equivalent	2	
	Cisco Access Registrar (AAA) or equivalent	2	
	Cisco Network Registrar (DHCP) or equivalent	2	
	Cisco WX-SW-EMSSVR- R7.0 or equivalent	2	
	Cisco AIR-CT5508-250- K9 Wifi Controller or equivalent	12	-
	Cisco AIR-LAP1252AG- A-K9 Access Point or equivalent	101	
	Cisco WCS-ENT-2500 Wireless Control System or equivalent	2	
	WiMAX Basestation 8415 & Antennas or	14	



	equivalent		
Total: WiMAX			\$2,418,846
ICMMBN Optical Hardware	Reconfigurable Optical Add-Drop Multiplexer (ROADM) for Cisco 15454 equipment or equivalent	2	
	DWDM XFPs or equivalent	15	
	Milwaukee – Infinera DWDM Add/Drop Equipment or equivalent	1	
	Sheboygan – Infinera DWDM Optical Amplifier equipment, or equivalent	1	
	UW Green Bay - Infinera DWDM Add/Drop Equipment, or equivalent	1	
	Marion - Infinera DWDM Optical Amplifier equipment, or equivalent	1	
	Wausau - Infinera DWDM Add/Drop Equipment, or equivalent	1	
	Marshfield - Infinera DWDM Optical Amplifier Equipment, or equivalent	1	
	Eau Claire East Bound - Infinera DWDM Add/Drop Equipment or equivalent	1	
	Eau Claire North Bound - Cisco 15454 Optical DWDM Add/Drop Equipment, or equivalent	1	



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	Rice Lake - Cisco 15454	1	
	Optical DWDM Add/Drop		
	Equipment, or equivalent		
	Spooner - Cisco 15454	Я	
	Optical DWDM Add/Drop	1	
	Equipment, or equivalent		
	12 O. 15		
	Solon Springs - Cisco 15454	1	
	Optical DWDM Amplifier		
	Equipment, or equivalent		
	Superior - Cisco 15454	1	
	Optical DWDM Add/Drop	T	
	Equipment, or equivalent		
	Platteville - Cisco 15454		
		1	
	Optical DWDM Add/Drop Equipment, or equivalent		
	Dodgeville - Cisco 15454	1	
	Optical DWDM Amplifier	-	
	Equipment, or equivalent		
	Madison - Cisco 15454		
	Optical DWDM Add/Drop	1	
	Equipment, or equivalent		
	Elcho - Cisco 15454 Optical	1	
	DWDM Add/Drop	-	
	Eqiupment, or equivalent		
	Wittenburg Area - Cisco		
	15454 Optical DWDM	1	
	Add/Drop Equipment or		
	equivalent		
		1	
	Auberndale - Cisco 15454	1	
	Optical DWDM Add/Drop		
	Equipment or equivalent		
	Greenwood - Cisco 15454	1	
	Optical DWDM Add/Drop	Ŧ	
	Equipment or equivalent		
	Fall Creek - Cisco 15454		
	Optical DWDM Add/Drop	1	
	Equipment or equivalent		
	Equipment of equivalent		
Total:			\$1,981,430
ICMMBN			a La constitución de la constitución
Optical			
Hardware			
		2 10	



ICMMBN Router Hardware	Cisco 7600 Series Router or equivalent	5	
ICMMBN Switches	Juniper EX4200 or equivalent	7	
	Force10 2 port 10GB line card or equivalent	2	
Total: ICMMBN Switches			
ICMMBN Test Hardware	Cisco 15454 Optical DWDM Add/Drop Hardware for Testing/Spare purposes	1	
GRAND TOTAL:			\$6,083,477

11. Miscellaneous - \$88,182

- \$3,841 of this category is estimated for fiber jumper cables.
- \$27,339 of this category is estimated for Pre-application expenses that do not fit in another category.
- \$57,002 is estimated for Consultation/Contractor services.

Match Detail – Please see Question 14.03 (Match Detail) and Additional Supplemental Materials #5 – Required Match Detail By Partner.

The following match is committed to the Miscellaneous Cost category, and corresponds to lines identified as part of this category in the Detailed Project Budget:

Cash Match: There is no cash match for miscellaneous costs.

In-Kind Match: There is \$27,339 of pre-application expenses to be used as in-kind match.

The following table shows the detail for the labor categorized as a Miscellaneous Cost:

Description Hours	Number	Total	Rate	Total
Per	of Years	Hours		Cost



	Year			
Wausau Area Contract Edge Device Configuration Labor	2088	1	2088	
Grant Writer – Pre- application expense	368	N/A	368	

13. Contingencies - \$0

- Contingencies are an unallowable expenditures under BTOP.

15. Project (program) income - \$0

- The value for this line-item on the SF-424C is \$0. Please do not provide an estimated Project (program income) on the SF-424C.

BTOP Comprehensive Community Infrastructure Detailed Budget

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

<u>Please refer to the Comprehensive Community Infrastructure Grant Guidance for</u> <u>detailed instructions on the completing this upload.</u>

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)	\$3,583,990	\$2,452,527		\$6,036,517	\$38,661.00	\$5,997,856.00	\$6,036,517
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)	\$23,141,698	\$6,437,651	\$1,997,662	\$31,577,011	\$479,930.00	\$31,097,081.00	\$31,577,011
Buildings and Land – (new construction, improvements, renovations, lease)	\$421,400	\$0	\$0	\$421,400	\$0.00	\$421,400.00	\$421,400
Customer Premise Equipment (modems, set- top boxes, inside wiring, etc.)	\$37,841	\$0	\$0	\$37,841		\$37,841.00	\$37,841
Billing and Operational Support Systems (IT systems, software, etc.)	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Operating Equipment (vehicles, office equipment, other)	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Engineering/Professional Services (engineering design, project management, consulting, etc.)	\$2,667,118	\$336,831	\$94,066	\$3,098,015		\$3,098,015.00	\$3,098,015
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)	\$32,872	\$14,088	\$0	\$46,960	\$0.00	\$46,960.00	\$46,960
Site Preparation	\$0	\$0	\$0	\$0	\$0.00	\$0.00	\$0
Other	\$0	\$0	\$1,509,000	\$1,509,000		\$1,509,000.00	\$1,509,000
TOTAL BROADBAND SYSTEM:	\$29,884,919	\$9,241,097	\$3,600,728	\$42,726,744	\$518,591	\$42,208,153	\$42,726,744
Cost Share Percentage:	69.94%	21.63%	8.43%				

DETAIL OF PROJECT COSTS

PLEASE COMPLETE THE TABLE BELOW FOR THE DIFFERENT CATEGORIES OF EQUIPMENT THAT WILL BE REQUIRED FOR COMPLETING THE PROJECT. EACH CATEGORY SHOULD BE BROKEN DOWN TO THE APPROPRIATE LEVEL FOR IDENTIFYING UNIT COST

		Match (Cash/In-kind)	Cash Match Percentage	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
NETWORK & ACO	CESS EQUIPMENT					\$6.036.517	\$2.452.527	\$38.661	\$5,997,856	\$6.036.517		
Switching	Cisco 3560G Switch or equivalent	Cash Match	50.00%								10. Equipment	Price is based on State of Wisconsin Cisco Procurement Contract
l	Cisco 3750 Metro Routing Switch or equivalent										10. Equipment	Price is based on quote from Cisco Sales Representative with additional discount.
	WiMAX - Cisco 3750 Metro Routing Switch or equivalent										10. Equipment	Price is based on quote from Cisco Sales Representative with additional discount. Price is based on State of Wisconsin Cisco
	Cisco 3750 Switch or equivalent										10. Equipment	Price is based on State of Wisconsin Cisco Procurement Contract
	Cisco IE3000 Switch or equivalent	Cash Match	50.00%								10. Equipment	Price is based on like equipment purchased in 2009.
	1.		50.00%									Price is based on like equipment
	OptiSwitch OS304 or equivalent Juniper EX4200 or equivalent	Cash Match	50.00%								10. Equipment 10. Equipment	purchased in 2009. Price is based on recent purchases.
	Enterasys 12 10/100/1000baseT, 2 1000base											Price is based on State of Wisconsin
	X SFP Switch or equivalent Enterasys SSA Distribution/Core	Cash Match	50.00%								10. Equipment	Enterasys Procurement Contract.
	switch/router 48 1000baseX SFP+, 625W power supply or equivalent	Cash Match	50.00%								10. Equipment	Price is based on State of Wisconsin Enterasys Procurement Contract.
	Enterasys Rack mount kit for D2		00.00 %									Price is based on State of Wisconsin
	switch or equivalent Enterasys Wall Mount Kit for D2		50.000/								10. Equipment	Enterasys Procurement Contract. Price is based on State of Wisconsin
	switch or equivalent Force10 2 port 10GB line card or equivalent	Cash Match Cash Match	50.00% 50.00%								10. Equipment 10. Equipment	Enterasys Procurement Contract. Price is based on estimate from Force10 Sales Representative.
1												-
Routing	WiMAX - BWG - ASN Gateway or equivalent	Cash Match	50.00%								10. Equipment	Price is based on like equipment purchased in 2009.
	WiMAX - Cisco Access Registrar (AAA) or equi∨alent	Cash Match	50.00%								10. Equipment	Price is based on State of Wisconsin Cisco Procurement Contract
	WiMAX - Cisco Network Registrar (DHCP) or equi∨alent	Cash Match	49.70%								10. Equipment	Price is based on State of Wisconsin Cisco Procurement Contract
	WIMAX - Cisco WX-SW- EMSSVR-R7.0 or equivalent	Cash Match	50.00%								10. Equipment	Price is based on State of Wisconsin Cisco Procurement Contract
	WiFi - Cisco 888 Wireless Router or equivalent	Cash Match	50.00%								10. Equipment	Price is based on State of Wisconsin Cisco Procurement Contract
	Cisco 7600 Series Router or	Cash Watch	30.00%								ro. Equipment	This equipment will be purchased by CCI Systems. They are a Cisco Reseller and
	equivalent	Cash Match	30.00%								10. Equipment	this pricing is based on that relationship.

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Re	configurable Optical Add-				
Dr	op Multiplexer (ROADM) for				
	sco 15454 equipment or				Price is based on State of Wisconsin C
5/5003	Land a construction for the construction of the second second second second second second second second second	Cash Match	50.00%	10. Equipment	Procurement Contract
		Cash Match	50.00%	10. Equipment	Finisar.
	terasys 1Gb 1000base-T	Casil Matori	00.00 %	To: Equipment	Price is based on State of Wisconsin
	The second	Cash Match	42.00%	10. Equipment	Enterasys Procurement Contract.
	terasys 1Gb 1000base-LX	ousin Matori	12.00 %		Enteracyo Producencia Contract.
	/F LC SFP 10km or				Price is based on State of Wisconsin
20202	NEED THE REAL PRODUCTION OF THE PROPERTY OF TH	Cash Match	50.00%	10. Equipment	Enterasys Procurement Contract.
	Iwaukee - Infinera DWDM	ouon matori	00.0070		Price is based on a quote from an Infi
	Id/Drop Equipment or				Sales Representative, with standard
		Cash Match	50.00%	10. Equipment	educational discounts.
	eboygan - Infinera DWDM				Price is based on a quote from an Infi
	otical Amplifier equipment, or				Sales Representative, with standard
	51 18 W.	Cash Match	50.00%	10. Equipment	educational discounts.
	V Green Bay - Infinera				Price is based on a quote from an Infi
	NDM Add/Drop Equipment, or				Sales Representative, with standard
= 5	 Collaboration and the second statement of a contract of a provide statement of the second statement of the second	Cash Match	50.00%	10. Equipment	educational discounts.
	arion - Infinera DWDM Optical				Price is based on a quote from an Inf
	nplifier equipment, or				Sales Representative, with standard
		Cash Match	50.00%	10. Equipment	educational discounts.
	ausau - Infinera DWDM				Price is based on a guote from an Inf
	ld/Drop Equipment, or				Sales Representative, with standard
1.00000	ui∨alent	Cash Match	50.00%	10. Equipment	educational discounts.
	arshfield - Infinera DWDM				Price is based on a guote from an Inf
Op	otical Amplifier Equipment, or				Sales Representative, with standard
0.0253	sellingelin all secondary more preservation and	Cash Match	50.00%	10. Equipment	educational discounts.
Ea	u Claire East Bound - Infinera			••••	Price is based on a quote from an Inf
DV	VDM Add/Drop Equipment or				Sales Representative, with standard
eq	ui∨alent	Cash Match	50.00%	10. Equipment	educational discounts.
Ea	u Claire North Bound - Cisco				
15	454 Optical DWDM Add/Drop				Price is based on State of Wisconsin
Eq	uipment, or equi∨alent	Cash Match	50.00%	10. Equipment	Procurement Contract
	ce Lake - Cisco 15454 Optical				
DV	WDM Add/Drop Equipment, or				Price is based on State of Wisconsin
eq	ui∨alent	Cash Match	50.00%	10. Equipment	Procurement Contract
	ooner - Cisco 15454 Optical			0.5 57	
DV	VDM Add/Drop Equipment, or				Price is based on State of Wisconsin
		Cash Match	50.00%	10. Equipment	Procurement Contract
	olon Springs - Cisco 15454				
Op	otical DWDM Amplifier				Price is based on State of Wisconsin
		Cash Match	50.00%	10. Equipment	Procurement Contract
Su	perior - Cisco 15454 Optical				
25.29 V	VDM Add/Drop Equipment, or	1245 - 16 1674555 - R. R.			Price is based on State of Wisconsin
		Cash Match	50.00%	10. Equipment	Procurement Contract
	atte∨ille - Cisco 15454 Optical				
	VDM Add/Drop Equipment, or				Price is based on State of Wisconsin
		Cash Match	50.00%	10. Equipment	Procurement Contract
	odge∨ille - Cisco 15454				
3.44	otical DWDM Amplifier				Price is based on State of Wisconsin
Ea	uipment, or equi∨alent	Cash Match	30.00%	10. Equipment	Procurement Contract

	Madison - Cisco 15454 Optical	ĨĨĨ			ï	
	DWDM Add/Drop Equipment, or					Price is based on State of Wisconsin Cis
	equivalent	Cash Match	49.20%		1004 LCC0 20	Procurement Contract
	Elcho - Cisco 15454 Optical	Casir Matori	40.2070			This equipment will be purchased by CO
	DWDM Add/Drop Equpment, or					Systems. They are a Cisco Reseller an
	equivalent	Cash Match	31.65%	10 5		this pricing is based on that relationship
	Wittenburg Area - Cisco 15454	Casil Match	51.0576	10. L		This equipment will be purchased by CO
	Optical DWDM Add/Drop					Systems. They are a Cisco Reseller an
	Equipment or equivalent	Cash Match	30.00%	10 5		this pricing is based on that relationship
	Auberndale - Cisco 15454	Casil Match	30.00%			This equipment will be purchased by CO
	Optical DWDM Add/Drop					
	Equipment or equivalent	Cash Match	30.00%	10 5		Systems. They are a Cisco Reseller a this pricing is based on that relationshi
		Cash Match	30.00%		Charles and the second s	1 3
	Greenwood - Cisco 15454					This equipment will be purchased by C
	Optical DWDM Add/Drop					Systems. They are a Cisco Reseller at
	Equipment or equivalent	Cash Match	30.00%	<u>10. E</u>		this pricing is based on that relationshi
	Fall Creek - Cisco 15454 Optical					This equipment will be purchased by C
	DWDM Add/Drop Equipment or					Systems. They are a Cisco Reseller an
	equi∨alent	Cash Match	30.00%	10. E	Equipment [this pricing is based on that relationship
000	WiMAX - Cisco AIR-CT5508-					Datas is based on Obstantial
ess	250-K9 Wifi Controller or		50 0001			Price is based on State of Wisconsin C
	equi∨alent	Cash Match	50.00%	<u>10. E</u>	Equipment	Procurement Contract
	WiFi - Cisco AIR-LAP1252AG-A-					Price is based on State of Wisconsin (
	K9 Access Point or equivalent	Cash Match	50.000/	10 5		Procurement Contract
			50.00%	10. E	Equipment	Procurement Contract
	WIMAX - Cisco WCS-ENT-2500					
	Wireless Control System or					Price is based on State of Wisconsin C
	equi∨alent	Cash Match	50.00%	10. E		Procurement Contract
	WiMAX Basestation 8415 &					Price is based on State of Wisconsin C
	Antennas or equivalent	Cash Match	50.00%	<u>10. E</u>	Equipment	Procurement Contract
ner						
		-				
	-					
SIDE PLANT						
	New - Chippewa Valley Area - Up to 144 strands of fiber optic					
	cable and conduit installed in					
es						Deserved and annual state built sum days 2000. Cha
	urban setting, variety of installation methods.	0.1.11.1.1	11.000/		V6 V7	Based on projects built under 2009 Sta
		Cash Match	44.00%	9. 60	Construction	of Wisconsin Contract pricing.
	Augmented - Chippewa Valley					
	Area - Up to 144 strands of fiber					
	optic cable placed in existing					Based on projects built under 2009 Sta
	conduit.	Cash Match	27.00%	9. Co	Construction	of Wisconsin Contract pricing.
	New - Chippewa Valley Area -					
	Up to 144 strands of direct bury					
	fiber optic cable installed in a					
	rural setting, ∨ariety of					Based on projects built under 2009 Sta
	installation methods.			9. Co	Construction	of Wisconsin Contract pricing.
	Existing - Chippewa Valley Area					Price based on actual construction
	96 strands of existing fiber optic					expenditures and the remaining usefu
	cable, installed in 2003 in Eau	65 (84) 83175775 14 PC			20 72 10	The new network in the Chippewa Vall
	Claire city center loop	In-kind Match		9. Co	Construction I	area ties back into the existing network

4					
Existing - Chippewa Valley Area 96 strands of existing fiber optic cable, installed in 2004 - CINC ring to I-94	In-kind Match). Construction	Price based on actual construction expenditures and the remaining useful life. The new network in the Chippewa Valley area ties back into the existing network.
Thig to I-94	In-Kind Match			. Construction	area ties back into the existing network.
Existing - Chippewa Valley Area 192 strands of fiber optic cable, installed in 2008 - Chippewa Falls to Eau Claire Highway 53). Construction	Price based on actual construction expenditures and the remaining useful life. The new network in the Chippewa Valley area ties back into the existing network.
New - Platteville Area - 12					
strands of fiber optic cable,					Price based on quote from local contractor,
conduit installed, directional		50.000/		0	Koch Communications, and projects built
bore installation method	Cash Match	50.00%		9. Construction	recently.
New - Platteville Area - 12					
strands of fiber optic cable,					Price based on quote from local contractor
conduit installed, plowing					Koch Communications, and projects built
installation method	Cash Match	50.00%		9. Construction	recently.
Augmented - Platteville Area -					Price based on quote from local contractor
12 strands of fiber optic cable,					Koch Communications, and projects built
installed in existing conduit	Cash Match	50.00%		9. Construction	recently.
New - Platteville Area - 36					
strands of fiber optic cable,					Price based on quote from local contractor
conduit installed directional bore	and the second second second				Koch Communications, and projects built
nethod	Cash Match	50.00%		9. Construction	recently.
New - Platte∨ille Area - 36					
trands of fiber optic cable,					Price based on quote from local contractor
onduit installed, plowing		50.000/			Koch Communications, and projects built
nstallation method	Cash Match	50.00%		9. Construction	recently.
lew - Platteville Area - 36					Price based on quote from local contractor
trands of fiber optic cable,		50.000/		•	Koch Communications, and projects built
nstalled in existing conduit	Cash Match	50.00%		9. Construction	recently.
lew - Platte∨ille Area - 48					
trands of fiber optic cable,					Price based on quote from local contracto
onduit installed, directional	Oracle Marticle	50.000/		Ormateuritien	Koch Communications, and projects built
ore installation method	Cash Match	50.00%		9. Construction	recently.
lew - Platte∨ille Area - 48					Drive have done works from local combined
trands of fiber optic cable,					Price based on quote from local contracto
onduit installed, plowing Istallation method	Orah Matak	50.00%		Ormaturation	Koch Communications, and projects built
ugmented - Platteville Area -	Cash Match	50.00%		9. Construction	recently. Price based on guote from local contracto
8 strands of fiber optic cable,					Koch Communications, and projects built
stalled in existing conduit	Cash Match	50.00%		. Construction	recently.
lew - Platteville Area - 72	Casir Match	50.00%			lecentry.
trands of fiber optic cable.					Price based on quote from local contracto
onduit installed, directional					Koch Communications, and projects built
ore installation method	Cash Match	10.00%		. Construction	recently.
ugmented - Platteville Area -		10.00 %		. construction	Price based on quote from local contracto
2 strands of fiber optic cable,					Koch Communications, and projects built
nstalled in existing conduit	Cash Match	3.00%		. Construction	recently.
internet in existing bonduit		0.0070			
Existing - Platteville Area - 4.29					Price based on remaining useful life of
niles of existing fiber owned by					existing fiber network. This fiber network
he School District of Platteville	In-kind Match		9). Construction	will link up the new network.
lew - Summit Lake to Wausau -					
96 strands of fiber optic cable,					
assumes 15% of path is					Price based on quote from our private, for
					profit partner CCI Systems.

New - Chippewa Falls to				
Superior - 33.4% of path is 144				
trands of fiber optic cable,				
6.6% of path is 96 strands of				
ber optic cable, assumes 10%				Price based on quote from our private
f path is directional bore	Cash Match	50.00%	9. Construction	profit partner CCI Systems.
ew - Wausau to Stevens Point	J	00.0070		
strands of fiber optic cable.				
ssumes 9.5% of path is				Price based on guote from our private
rectional bore.			9. Construction	profit partner CCI Systems.
ew - Stevens Point to Eau			9. Construction	
laire - 96 strands of fiber optic				
able, assumes 10% of path is		05 000/		Price based on quote from our private,
	Cash Match	25.00%	9. Construction	profit partner CCI Systems.
ew - Madison to Platteville -				
3% of path is 144 strands of				
er optic cable, 92.7% of path				
96 strands of fiber optic cable,				
sumes 10% of path is				Price based on quote from our private
ectional bore			9. Construction	profit partner CCI Systems.
ew - Superior Area - 72				
ands of fiber optic cable,				
stalled in urban setting,				
ectional bore installation				Price based on a response to a Reque
ethod	Cash Match	30.00%	9. Construction	for Information in the Superior Area.
w - Superior Area - Fiber				
nnection from street to				
ilding - 72 strands plus				Price based on a quote from our privat
nduit, directional bore	Cash Match	47.80%	9. Construction	for-profit partner CCI Systems.
,				
ew - Wausau Area - 96				
rands of fiber optic cable				
stalled with conduit, plowing				Price based on a response to a Reque
d boring installation methods	Cash Match	28.00%	9. Construction	for Information in the Wausau Area.
ew - Wausau Area - 48	Casil Match	20.00 %		Ior mormation in the Wadsad Area.
rands of fiber optic cable				
				Drive based on a response to a Derive
stalled, aerial installation	Oash Matak	27.500/		Price based on a response to a Reque
ethod	Cash Match	27.50%	9. Construction	for Information in the Wausau Area.
ew - Marshfield - Up to 144				
ands of fiber optic cable,				
oan installation, variety of				Based on projects built under 2009 Sta
ethods			9. Construction	of Wisconsin Contract pricing.
eenwood - RF Distribution				Price based on a quote from our privat
/stem			9. Construction	for-profit partner CCI Systems.
nction City - RF Distribution				Price based on a quote from our priva
stem	6		9. Construction	for-profit partner CCI Systems.
sting - Existing fiber owned				
CCI Systems - between				
gusta and Altoona and				Cost based on actual construction cos
ween Hewitt and Auburndale	In-kind Match		9. Construction	and remaining useful life.
				Indirect costs based on labor portion of
direct Costs - 16% of labor				Summit Lake to Wausau build. Labor
penses, Summit Lake to				76.7% of total build cost. UWEX indire
ausau			9. Construction	cost rate is 16%.
			5. Constitution	1000010101010.

	2.1					
						Indirect costs based on labor portion of the
	Indirect Costs - 16% of labor					Chippewa Falls to Superior build. Labor is
	expenses, Chippewa Falls to					72% of total build cost. UWEX indirect
	Superior	Cash Match	50.00%	9. Cons	nstruction	cost rate is 16%.
						Indirect costs based on labor portion of the
	Indirect Costs - 16% of labor					Wausau to Stevens Point build. Labor is
	expenses, Wausau to Stevens					79% of total build cost. UWEX indirect
	Point				nstruction	cost rate is 16%.
				5. 001		Indirect cost based on labor portion of the
	Indirect Costs - 16% of labor					Stevens Point to Eau Claire build. Labor i
						73.5% of total build cost. UWEX indirect
	expenses, Stevens Point to Eau				77 12	
	Claire	Cash Match	25.00%	9. Cons	nstruction	cost rate is 16%.
						Indirect cost based on labor portion of the
						Madison to Platteville build. Labor is
	Indirect Costs - 16% of labor					76.5% of total build cost. UWEX indirect
	expenses, Madison to Platteville			9. Cons	nstruction	cost rate is 16%.
						Price based on actual construction
nduits	Existing - Chippewa Valley Area	-				expenditures and remaining useful life of
iduits	2.2 miles of existing fiber					infrastructure. This conduit would have
	conduit	In-kind Match		9. Cons		been installed if it didn't already exist.
						Price based on actual construction
	Existing - Wausau - Existing					expenditures and remaining useful life of
	fiber conduit: Sherman St (17th					infrastructure. This conduit would have
	to 22nd)	In-kind Match		9. Cons	nstruction	been installed if it didn't already exist.
1 1 1 1 1 1 1		-				
ots		-				
les						
						New tower and ground facilities to support
						WiMAX antenna system. Price based on
wers						recent estimate from PSC Technologies,
	Tower and ground facilities			2 Land	id, structures	St. Paul. MN.
oeaters						
	Platteville Area - Easement					Drive beend on guete from least contracts
her	Costs			beel C	id, structures	Price based on quote from local contracto Koch Communications.
	00015	-		2. Lanu	iu, siruciures	
		-				

		Match (Cash/In-kind)	Cash Match Percentage	Unit Cost	No. of Units	Total Cost	\$0	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
BUILDINGS	*											
New Construction												
Pre-Fab Huts	Regeneration Facility										2. Land, structures	Price is based on an estimate from our private partner, CCI Systems.
		· · · ·										
mprovements & Renovation												
	<u>.</u>											
Other												
CUSTOMER PREM												
Modems												
Set Top Boxes	7	× .										1
	-	· · · · ·										-
Inside Writing	Building entrances										9. Construction	Price based on a quote from our private, for-profit partner CCI Systems.
	1m duplex ST-DT duplex SMF										9. Construction	
	jumper										11. Misc.	Price based on recent purchases.
	2m duplex ST-DT duplex SMF jumper										11. Misc.	Price based on recent purchases.
	3m duplex ST-LC duplex SMF jumper										11. Misc.	Price based on recent purchases.
	3m duplex ST-ST duplex SMF jumper										11. Misc.	Price based on recent purchases.
	5m duplex ST-LC duplex SMF										1000 U.S.	<u> </u>
	jumper 7m duplex ST-LC duplex SMF										11. Misc.	Price based on recent purchases.
	jumper										11. Misc.	Price based on recent purchases.
Other												
	AND OPERATIONS SUPPORT	SYSTEMS										
Billing Support												
Customer Care												
Other Support												
		1										

		Match (Cash/In-kind)	Cash Match Percentage	Unit Cost	No. of Units	Total Cost	\$0	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
OPERATING EQUIP	PMENT											
Vehicles												
Office Equipment /												
Other												
PROFESSIONAL SI												
Engineering	Chippewa Valley Area Contract											Price based on an estimate from Finley
Design	WiMAX Engineer										4. Architectural and engr.	Engineering. Price based on estimate from local
1	Platteville Area Contract											contractor, Koch's Telecommunications.
	Engineer										4. Architectural and engr.	
		v									v	Price based on expected salary and fringe
												benefits over 3 years. Salary also
												assumes a 2% pay increase in Years 2
	Middle Mile Backbone Fiber		50.000									and 3. Unit cost is average of hourly
	Manager	Cash Match	50.00%								4. Architectural and engr.	salary for Years 1, 2, and 3.
												Price based on expected salary and fringe benefits over 3 years. Salary also
												assumes a 2% pay increase in Years 2
	Community Area Network Fiber											and 3. Unit cost is average of hourly
	Manager										4. Architectural and engr.	salary for Years 1, 2, and 3.
												Price based on expected salary and fringe
												benefits over 3 years. Salary also
												assumes a 2% pay increase in Years 2
	Middle Mile Backbone Network											and 3. Unit cost is average of hourly
	Engineer										 Architectural and engr. 	salary for Years 1, 2, and 3.
	Superior Area Technical											Price based on expected salary and fringe
	Engineer										4. Architectural and engr.	benefits of expected position description.
	Chippewa Valley Area Network											Price based on expected salary and fringe
	Engineer										4. Architectural and engr.	benefits of expected position description.
												Price based on actual salary and fringe
	Middle Mile Backbone Engineer	In-kind Match									4. Architectural and engr.	benefits.
												Price based on expected salary and fringe
												benefits over 3 years. Salary also
Project												assumes a 2% pay increase in Years 2
Management												and 3. Unit cost is average of hourly
	BTOP Project Manager										1. Admin and Legal	salary for Years 1, 2, and 3.
												Price based on expected salary and fringe
												benefits over 3 years. Salary also
												assumes a 2% pay increase in Years 2
	BTOP Technology Project										A Antiporties appoint the second	and 3. Unit cost is average of hourly
	Manager	Cash Match	50.00%		-					-	1. Admin and Legal	salary for Years 1, 2, and 3.

ſ	ľ			T
	WiscNet Project Manager	In-kind Match	1. Admin and Legal	Price based on actual salary and fringe benefits. Number of hours based on hours recorded in time management system.
	Superior Area Project Manager		1. Admin and Legal	Price based on expected salary and fringe benefits of expected position description.
	Wausau Area Project Manager		1. Admin and Legal	Price based on expected salary and fringe benefits of expected position description.
	Platteville Area Project Manager		1. Admin and Legal	Price based on expected salary and fringe benefits of expected position description.
	Chippewa Valley Area Contract Project Manager		1. Admin and Legal	Price based on an estimate from Finley Engineering.
onsulting	Wausau Area Contract Network Engineer		4. Architectural and e	gr. Price based on quote from local contractor.
	Wausau Area Contract Edge Device Configuration Environmental Engineering		11. Misc.	Price based on quote from local contractor Price based on quote from contractor,
	Consulting	In-kind Match	5. Other archit. and er	gr. Boonstra.
ther				Price based on expected salary and fringe benefits over 3 years. Salary also assumes a 2% pay increase in Years 2
	BTOP Fiscal Compliance Manager		1. Admin and Legal	and 3. Unit cost is a∨erage of hourly salary for Years 1, 2, and 3.
	BTOP Reporting Compliance			Price based on expected salary and fringe benefits over 3 years. Salary also assumes a 2% pay increase in Years 2 and 3. Unit cost is average of hourly
	Manager		1. Admin and Legal	salary for Years 1, 2, and 3. Price based on actual salary and fringe benefits. Number of hours based on hours recorded in time management system.
	WiscNet Executi∨e Director	In-kind Match	1. Admin and Legal	Time was spent providing direction and leadership for the project.
	Grant Writer	In-kind Match	11. Misc.	Price based on actual salary and fringe benefits. Number of hours based on hours recorded in time management system.
				Price based on actual salary and fringe
	Budget and Policy Analyst	In-kind Match	1. Admin and Legal	benefits. Number of hours based on hours recorded in time management system. Price based on expected salary and fringe
	Chippewa Valley Area BTOP Financial Manager		1. Admin and Legal	benefits of expected position description. Assumes a 2% salary increase in Year 2. Unit cost is an a∨erage of the hourly wage for 2 years.
	CCI Systems Consultation Labor	In-kind Match	4. Architectural and e	Price based on actual salary and fringe benefits. Labor spent assisting applicant i designing routes and gathering cost data gr. for long-haul and CAN networks.
			4. Architectural and e	gr. noniong-nauranu o/AN networks.

Network Elements	Cisco 15454 DWDM Optical Add/Drop hardware for testing	Cash Match	30.00%	%10. Ec	1	This equipment will be purchased by CCI Systems. They are a Cisco Reseller and his pricing is based on that relationship.
IT System						
User Devices						
Test Generators						
Lab						
Servers/Computer						

		Match (Cash/In-kind)	Cash Match Percentage	Unit Cost	No. of Units	Total Cost	\$0	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
OTHER UPFRC	ONT COSTS					\$1,509,000	\$0	\$0	\$1,509,000	\$1,509,000		
Site						\$0	\$0			\$0		
						\$0	\$0			\$0		
						\$0	\$0			\$0		
Other	Wisconsin Department of Transportation Right-of-Way: U.S. Highway 53 Chippewa Falls	In-kind Match		\$6,000.00	136	\$816,000	\$0		\$816,000	\$916.000	2. Land. structures	Price based on Letter of Commitment from WisDOT.
	Wisconsin Department of Transportation Right-of-Way: U.S. Highway 151 Madison to	In-kind Match		\$7,000.00	69				\$483,000		2. Land, structures	Price based on Letter of Commitment from WisDOT.
	Wisconsin Department of Transportation Right-of-Way: Interstate Highway 39 Stevens Point to Wausau	In-kind Match		\$7,000.00	30	\$210,000	\$0		\$210,000	\$210,000	2. Land, structures	Price based on Letter of Commitment from WisDOT.
T.					OJECT TOTAL:	\$42,726,744	\$9,241,097	\$518,591	\$42,208,153	\$42,726,744	and the second se	

1. Admin and Legal	\$1,567,042
2. Land, structures	\$3,493,600
3. Relocation expenses	\$0
4. Architectural and engr.	\$1,439,132
5. Other archit. and engr.	\$7,500
6. Inspection fees	\$0
7. Site work	\$0
8. Demolition/removal	\$0
9. Construction	\$30,047,811
10. Equipment	\$6,083,477
11. Misc.	\$88,182

Matching Contribution Cross	s-check Totals
Federal Funding Request	\$29,884,919
Cash Match Contribution	\$9,241,097
In-kind Match Contribution	\$3,600,728

Approach to allocating Last Mile and Middle Mile costs:

It is estimated that 4 strands of fiber will be used to deploy Last Mile Services. CCI Systems will have full use of half of the strands that are installed in the ICMMBN. For purposes of estimating the portion of optical hardware CCI Systems will install, we calculated a percent use with the formula 4 strands/42 strands. The resulting percentage is 9.5%. This percent is applied to Cisco 15454 Optical to be purchased by CCI Systems.

To estimate the cost of fiber in the Summit Lake -> Wausau -> Stevens Point -> Eau Claire path, we used the formula 4 strands/96 strands. The resulting percentage is 4.2%. This percent is applied to the relavent ICMMBN paths to determine the amount to allocate to Last Mile Services.