



OPENCAPe

Creating Regional Broadband Opportunities for Cape Cod and Southeast MA

PO Box 762 | West Barnstable, MA | 02668-1599

(888) 253-2561 | info@opencape.com | www.opencape.com

February 17, 2011

Re: OpenCape NT10BIX5570039 AAR Request for Budget Change

OpenCape Corporation submits this AAR requesting a modification of its budget. A new SF-424C, Budget Detail, and Budget Narrative are provided to support this request.

OpenCape is currently operating under the budget it provided the NTIA in its grant application of 2009. This budget, though based on detailed research and analysis, was largely an estimate. Time, experience, and far greater certainty of costs have required a change to the budget to more accurately reflect our needs and plans. Many of these changes result from the negotiation of contracts. The line items from those contracts have been transferred directly to this new budget.

We are requesting no changes in Categories 2, 3, 4, 7, or 8 of the SF-424C. A description of the significant changes in the remaining categories is as follows:

Category 1 Admin & Legal. Increase from \$919,300 to \$1,280,532

This increase is largely the result of an increase in Consulting fees from \$575,360 to \$823,732. A far greater amount of legal work was required in the many contract negotiations related to the project. Auditing fees of \$60,000 were not anticipated. A sub-category has been added for General Administration to meet basic communications requirements related to the grant such as maintaining a PO Box, web page, phone service, and postage that were not specifically defined in the original budget. There is a slight increase in the Travel sub-category to address costs of attending two BTOP grant conferences and other regional travel to support the execution of the grant.

Category 5 Other Arch & Eng. Increase from \$286,600 to \$1,515,885.

This substantial increase reflects a lack of knowledge on our part and some misplacement of these costs in other categories in the original budget. Two major line items in this category are the payment of \$215,640 to Sidera Networks for early design work and \$380,160 for a contract for engineering services. Nearly \$600,000 in engineering of the Microwave, Transport, and Municipal RAN components were unanticipated or reflected in other categories in the original application budget.

Category 6 Project Inspection Fees. Increase from \$755,200 to \$814,114.

This minor increase is more reflective of actual costs as reflected in negotiated contracts.



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Category 9 Construction. Decrease from \$30,625,132 to \$24,364,298.

There are significant changes in the sub-categories here. For example, we did not break out Environmental and Historical, Field Survey and Licensing, or Make Ready in the original budget. We have taken a different approach on line items related to the build of the fiber network in that we create milestones for segments rather than trying to estimate the cost of the equipment and labor to build those segments. There is also a \$500,000 bonding line item for outside plant (OSP) construction. The 700Mhz, Collocation Center Renovation, and Overall Project Management Categories remain as submitted in the original grant application. We have added a sub-category for Community Outreach, particularly as it focuses on Anchor Institution deployment and configuration.

Category 10 Equipment. Increase from \$6,725,161 to \$11,336,564.

This category has increased largely by realigning properly the materials for the build. The OSP, Switching, Access, and Microwave System sub-category costs result from contract negotiations for the construction of the network. Note that the OSP sub-category alone totals \$3,650,000 for the fiber optic cable and materials associated with its installation, such as hangers and splice boxes. This was in the Construction Category in the original grant budget. The Collocation Center Renovation, and Office Equipment sub-categories remain as submitted in the original grant application budget.

Sincerely,

Daniel J. Gallagher
CEO

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-1 33, "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 CEO
*APPLICANT ORGANIZATION OpenCape Corporation	*DATE SUBMITTED 02/17/2011

APPLICANT'S NAME: OpenCape (1174)

BUDGET INFORMATION - Construction Programs

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. Matching Funds (Cash)	c. Matching Funds (In-Kind)	d. Federal Funding Request (Columns a-b-c)
1. Administrative and legal expenses	\$919,300	\$580,000	\$339,300	\$0
2. Land, structures, rights-of-way, appraisals, etc.	\$1,000,000	\$0	\$1,000,000	\$0
3. Relocation expenses and payments	\$0	\$0	\$0	\$0
4. Architectural and engineering fees	\$0	\$0	\$0	\$0
5. Other architectural and engineering fees	\$286,600	\$0	\$0	\$286,600
6. Project inspection fees	\$755,200	\$0	\$0	\$755,200
7. Site work	\$0	\$0	\$0	\$0
8. Demolition and removal	\$100,000	\$0	\$0	\$100,000
9. Construction	\$30,625,132	\$6,420,000	\$0	\$24,205,132
10. Equipment	\$6,725,161	\$0	\$0	\$6,725,161
11. Miscellaneous	\$0	\$0	\$0	\$0
12. SUBTOTAL (add #1 through #11)	\$40,411,393	\$7,000,000	\$1,339,300	\$32,072,093
13. Contingencies	\$0	\$0	\$0	\$0
14. SUBTOTAL (add #12 and #13)	\$40,411,393	\$7,000,000	\$1,339,300	\$32,072,093
15. Project (program) income	\$0	\$0	\$0	\$0
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$40,411,393	\$7,000,000	\$1,339,300	\$32,072,093
FEDERAL FUNDING				
17. Federal assistance requested, calculated as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.			Enter eligible costs from line 16a Multiply X 20%	\$8,082,279



Budget Narrative

Applicant Name: OpenCape Corporation

EasyGrants Number: 1174

Organization Type (from Question 1D on BTOP application): Non-Profit Corporation

Proposed Period of Performance: February 28, 2010-January 31, 2013

Total Project Costs: \$40,161,393

Total Federal Grant Request: \$32,072,093

Total Matching Funds (Cash): \$7,000,000

Total Matching Funds (In-Kind): \$1,089,300

Total Matching Funds (Cash + In-Kind): \$8,089,300

Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: 20%

The cost estimates provided in the OpenCape Form SF-424C are based on the best possible information available from executed contracts, RFP and RFQ responses, or estimates based on research and analysis.

1. Administrative and legal expenses

It is anticipated that cash match will pay \$80,000 and in-kind match will pay \$339,300 of this category.

1. Administrative and legal expenses	Consulting	Legal: Contracts	Yes	550000	1	\$ 550,000.00	Legal, accounting, auditing, HR, payroll and other consulting services required to execute the grant based on actual expenditures and anticipated expenditures.
		Accounting	Yes	150000	1	\$ 150,000.00	
		Auditing	Yes	60000	1	\$ 60,000.00	
		HR	Yes	8000	1	\$ 8,000.00	
		Payroll	Yes	10000	1	\$ 10,000.00	
		Other Consulting	Yes	45732	1	\$ 45,732.00	
					Sub-total	\$ 823,732.00	
	Grant Prep	OpenCape Volunteers 7/9-8/14	Yes	90	980	\$ 88,200.00	OpenCape Board members' actual volunteer hours in support of the project and grant.
		OpenCape Volunteers 8/14-12/31	Yes	90	890	\$ 80,100.00	
		OpenCape Volunteers Post Award	Yes	90	1,900	\$ 171,000.00	
					Sub-total	\$ 339,300.00	
	General Admin	Postage, Phone, Web, Printing, etc.	Yes	35000	1	\$ 35,000.00	Basic administrative requirements for executing the grant.
		Insurance	Yes	25000	1	\$ 25,000.00	
		Materials, Outreach, Software, Other	Yes	50000	1	\$ 50,000.00	
					Sub-total	\$ 110,000.00	
	Travel	Conference and Meeting Expenses	Yes	5000	1	\$ 5,000.00	Attendance at NTIA required conferences and other meetings related to the grant within the region.
		Other Travel	Yes	2500	1	\$ 2,500.00	
					Sub-total	\$ 7,500.00	
		SUB-TOTAL				\$ 1,280,532.00	

2. Land, structure, rights-of-way, appraisals, etc.

Barnstable County is making an in-kind match donation of 5 years of a 25 year capital lease for 7,500sqft of the Barnstable County Public Safety Building. A lease for the building has been executed as part of the partnership between OpenCape and Barnstable County.



2. Land, structures, rights-of-way, appraisals, etc.	Collocation Center	Barn. Cty. Bldg. IRU	Yes	750000	1	\$ 750,000.00	25 year lease from Barnstable County of 7500sqft of public safety building. First five years of payments included in match.
	SUB-TOTAL						

3. Relocation expenses and payment
N/A

4. Architectural and engineering fees
N/A

5. Other architectural and engineering fees

5. Other architectural and engineering fees	Outside Plant	Engineering OSP Fiber Component	Yes	380,160	1	\$ 380,160.00	Design and Engineering and associated management costs as reflected in actual expenditures, contracts, or bids to RFPs for designing and engineering the network and collocation center.
	Microwave	Microwave Overlay	Yes	300,000	1	\$ 300,000.00	
		Transport	Yes	204,616	1	\$ 204,616.00	
	Network	Municipal RAN	Yes	100,000	1	\$ 100,000.00	
		Sub-total					
	Integration	Central Office, Collocation Center, Other	Yes	50,000	1	\$ 50,000.00	
	Project Mgmt	Contractor Management	Yes	235,469	1	\$ 235,469.00	
	Conceptual Design	Sidera Networks Engineering	Yes	215,640	1	\$ 215,640.00	
	Collocation Center	Engineering of building renovation	Yes	150	200	\$ 30,000.00	
SUB-TOTAL						\$ 1,515,885.00	

6. Project inspection fees

6. Project inspection fees	Outside Plant	Cable Testing	Yes	100,000	1	\$ 100,000.00	Inspection and testing of the network systems once installed.
		Third Party Testing and Certification	Yes	50,000	1	\$ 50,000.00	
	Sub-total					\$ 150,000.00	
	Microwave	Microwave Overlay	Yes	89,114	1	\$ 89,114.00	
		Transport	Yes	200,000	1	\$ 200,000.00	
	Network	Municipal RAN	Yes	50,000	1	\$ 50,000.00	
		Sub-total					
	Integration	Central Office, Collocation Center, Other	Yes	50,000	1	\$ 50,000.00	
Project Mgmt	Contractor Management	Yes	275,000	1	\$ 275,000.00		
SUB-TOTAL						\$ 814,114.00	

7. Site work
N/A

8. Demolition and removal

8. Demolition and removal	Collocation Center Demolition	Barn. Cty. Bldg. Renovation	Yes	100000	1	\$ 100,000.00	Estimate of demolition cost of the future regional collocation center in anticipation of renovation.
	SUB-TOTAL						



9. Construction

A cash match contribution shall be made to the Construction costs in the amount of \$6,920,000. This cash match shall be provided by the Commonwealth of Massachusetts and the private operator of the OpenCape Network.

9. Construction	Environment and Historical	Environmental Assessment	Yes	35000	1	\$ 35,000.00	Actual and anticipated costs associated with Environmental Assessment and special permitting of the project.	
		Cape Cod Canal Environ Assess	Yes	16000	1	\$ 16,000.00		
		State Wetland and Water Quality	Yes	22000	1	\$ 22,000.00		
		Army Corps of Engineers	Yes	75000	1	\$ 75,000.00		
							Sub-total	\$ 148,000.00
	Field Survey and Licensing	Field Survey Contractor	Yes	583624	1	\$ 583,624.00	Actual and anticipated costs associated with field survey of poles and conduit, license applications, and associated fees, insurance, and surety requirements of the pole owners.	
		Pole Licensing Contractor	Yes	422400	1	\$ 422,400.00		
		Ngrid Licensing	Yes	190000	1	\$ 190,000.00		
		NSTAR Licensing	Yes	165000	1	\$ 165,000.00		
		Verizon Licensing	Yes	100000	1	\$ 100,000.00		
		Verizon Conduit Access	Yes	200000	1	\$ 200,000.00		
		Verizon Central Office Licenses	Yes	50000	1	\$ 50,000.00		
		Pole Revisits	Yes	25000	1	\$ 25,000.00		
		App and Attach Fees, Surety & Insurance	Yes	300000	1	\$ 300,000.00		
	Other (Police Details, Bonds, Fees)	Yes	120000	1	\$ 120,000.00			
							Sub-total	\$ 2,156,024.00
	Make Ready	Ngrid Make Ready	Yes	600000	1	\$ 600,000.00	Anticipated costs associated with Make Ready of poles and conduit based on near final pole and distance numbers and estimates of per pole and per foot cost.	
		NSTAR Make Ready	Yes	2750000	1	\$ 2,750,000.00		
		Verizon Make Ready	Yes	1800000	1	\$ 1,800,000.00		
		Underground Make Ready	Yes	250000	1	\$ 250,000.00		
		Other (Police Details, etc.)	Yes	100000	1	\$ 100,000.00		
							Sub-total	\$ 5,500,000.00
	Outside Plant Total Backbone Fiber	Providence POP to Fall River CO (26 mi)	Yes	672,196	1	\$ 672,196.00	Anticipated costs associated with construction of the outside fiber plant backbone based on RFP responses and contract development with successful RFP respondent.	
		Fall River CO to New Bedford CO (15 Mi)	Yes	303,147	1	\$ 303,147.00		
		New Bedford CO to Canal (25 Mi)	Yes	188,071	1	\$ 188,071.00		
		Cape Cod Canal to Cataumet CO (8 Mi)	Yes	279,324	1	\$ 279,324.00		
		Cataumet CO to Falmouth CO (12 Mi)	Yes	233,216	1	\$ 233,216.00		
		Falmouth CO to Hyannis CO (24 Mi)	Yes	187,111	1	\$ 187,111.00		
		Hyannis CO to Orleans CO (25 Mi)	Yes	256,271	1	\$ 256,271.00		
		Orleans CO to Provincetown CO (28 Mi)	Yes	533,874	1	\$ 533,874.00		
		Orleans CO to Barnstable Collo (23 Mi)	Yes	277,361	1	\$ 277,361.00		
		Barnstable Collo to Canal (17 Mi)	Yes	440,700	1	\$ 440,700.00		
		Cape Cod Canal to Plymouth CO (18 Mi)	Yes	311,019	1	\$ 311,019.00		
		Plymouth CO to Brockton CO (31 Mi)	Yes	532,914	1	\$ 532,914.00		
		Canal Connector (12 Mi)	Yes	187,111	1	\$ 187,111.00		
	Rte 132 Connector (5 Mi)	Yes	117,950	1	\$ 117,950.00			
						Sub-total	\$ 4,520,265.00	
Outside Plant Total Fiber Backbone Extensions	Edwards/Otis Air Force Base Ext (4 Mi)	Yes	102,851	1	\$ 102,851.00	Anticipated costs associated with construction of the outside fiber plant extensions based on RFP responses and contract development with successful RFP respondent.		
	Woods Hole Extension (3 Mi)	Yes	35,815	1	\$ 35,815.00			
	Chatham Extension (8 Mi)	Yes	59,822	1	\$ 59,822.00			
	National Seashore Extension (2 Mi)	Yes	154,939	1	\$ 154,939.00			
						Sub-total	\$ 363,427.00	
Underground	New Underground (42240 feet)	Yes	1,800,000	1	\$ 1,800,000.00	Anticipated cost based on quotation.		
Tower Laterals	Installation and Configuration	Yes	864,508	1	\$ 864,508.00	Anticipated cost based on quotation.		
Anchor Laterals	Installation and Configuration	Yes	432,254	1	\$ 432,254.00	Anticipated cost based on quotation.		
Canal Crossing	North Directional Bore Crossing	Yes	250,000	1	\$ 250,000.00	Anticipated cost based on quotation.		
Microwave System	Installation and Configuration	Yes	2,451,713	1	\$ 2,451,713.00	Anticipated cost based on quotation.		
Central Office Renovation	POPs	Yes	0	1	\$ -	Cost absorbed within OSP build.		
	Verizon COs	Yes	0	1	\$ -			
	Collocation Center	Yes	0	1	\$ -			
						Sub-total	\$ -	
Project Mgmt Bond	Contractor Management	Yes	2,219,062	1	\$ 2,219,062.00	Anticipated cost based on quotation.		
	Construction Bonding	Yes	500,000	1	\$ 500,000.00	Anticipated cost based on quotation.		
700Mhz	Public Safety 700Mhz System	Yes	46500	13	\$ 604,500.00	Estimated cost based on RFPs.		
Colocation Center Renovation	Barn. Cty. Bldg. Renovation	Yes	1280045	1	\$ 1,280,045.00	Estimated cost based on previous RFP responses.		
	Data Center Construction	Yes	150000	1	\$ 150,000.00			
						Sub-total	\$ 1,430,045.00	
Overall Project Management	Director	Yes	90	6,150	\$ 553,500.00	Anticipated cost based on known per hour cost and estimated number of hours.		
	Construction Coordinator	Yes	60	6,150	\$ 369,000.00			
	Administrative Support	Yes	30	6,150	\$ 184,500.00			
							Sub-total	\$ 1,107,000.00
Anchor Configuration Coordination	Regional Area Network Muni	Yes	20000	1	\$ 20,000.00	Anticipated cost of community outreach to coordinate the deployment of CAI laterals.		
	Travel	Yes	7500	1	\$ 7,500.00			
						Sub-total	\$ 27,500.00	
SUB-TOTAL						\$ 24,364,298.00		



10. Equipment

10. Equipment	OSP	ADSS Fiber (All Counts)	Yes	2750000	1	\$ 2,750,000.00	Anticipated cost based on quotation.
		Fiber Build Hardware	Yes	750000	1	\$ 750,000.00	
		UG Materials	Yes	150000	1	\$ 150,000.00	
						Sub-total	
	Switching	Aggregation EdgeSwitches for RAN Hub	Yes	75000	1	\$ 75,000.00	Anticipated cost based on quotation.
		Core, Edge, and CPE Mgmt System	Yes	263000	1	\$ 263,000.00	
		Aggregation Edge Switching	Yes	500000	1	\$ 500,000.00	
		All ROADM Nodes	Yes	2500000	1	\$ 2,500,000.00	
					Sub-total	\$ 3,338,000.00	
	Access	Ethernet Switches - Anchor Institutions	Yes	150000	1	\$ 150,000.00	Anticipated cost based on quotation.
		Ethernet Switches - RAN	Yes	200000	1	\$ 200,000.00	
		All Backup Power and Materials	Yes	100000	1	\$ 100,000.00	
					Sub-total	\$ 450,000.00	
	Microwave System	Microwave Equipment (Materials & Spare	Yes	1031103	1	\$ 1,031,103.00	Anticipated cost based on quotation.
	Project Mgmt	Project Management	Yes	435469	1	\$ 435,469.00	Anticipated cost based on quotation.
	Colocation Center Renovation	HVAC	Yes	402000	1	\$ 402,000.00	Estimated cost based on analysis and consultation with experts in this field.
		UPS	Yes	115000	1	\$ 115,000.00	
		Materials	Yes	400000	1	\$ 400,000.00	
		VM SAN	Yes	425000	1	\$ 425,000.00	
		Generator & Infrastructure	Yes	333000	1	\$ 333,000.00	
		In row cabs	Yes	3472	36	\$ 124,992.00	
		Equipment	Yes	410000	1	\$ 410,000.00	
		Electrical Infrastructure	Yes	178000	1	\$ 178,000.00	
		Other			\$ -		
					Sub-total	\$ 2,387,992.00	
	Office Equip/ Furniture	Furniture for three offices and meeting rm	Yes	23000	1	\$ 23,000.00	Actual and estimated cost of equipment required to execute the grant and complete construction.
		Computer, Phone, Printing equipment	Yes	21000	1	\$ 21,000.00	
Other					\$ -		
				Sub-total	\$ 44,000.00		
SUB-TOTAL						\$ 11,336,564.00	

11. Miscellaneous

N/A

Addendum

Indirect Costs. The non-profit 501(c)3 OpenCape Corporation was created specifically for the purpose of developing the OpenCape concept, securing funding, and overseeing construction and later operation. It currently has three employees. Employees and associated costs shall be incurred directly for the purpose of constructing the OpenCape network. All costs are associated with the capital project. Therefore, OpenCape has no indirect costs.

OpenCape SF424C Budget Detail
Amendment Action Request

Category	Sub-Category	Item	Allowable	Unit Cost	Units	Total Cost	Comments		
1. Administrative and legal expenses	Consulting	Legal Contracts	Yes	550000	1	\$ 550,000.00	Legal, accounting, auditing, HR, payroll and other consulting services required to execute the grant based on actual expenditures and anticipated expenditures		
		Accounting	Yes	150000	1	\$ 150,000.00			
		Auditing	Yes	60000	1	\$ 60,000.00			
		HR	Yes	8000	1	\$ 8,000.00			
		Payroll	Yes	10000	1	\$ 10,000.00			
		Other Consulting	Yes	45732	1	\$ 45,732.00			
						Sub-total	\$ 823,732.00		
	Grant Prep	OpenCape Volunteers 7/9-8/14	Yes	90	980	\$ 88,200.00	OpenCape Board members' actual volunteer hours in support of the project and grant		
		OpenCape Volunteers 8/14-12/31	Yes	90	890	\$ 80,100.00			
		OpenCape Volunteers Post Award	Yes	90	1,900	\$ 171,000.00			
						Sub-total	\$ 339,300.00		
	General Admin	Postage, Phone, Web, Printing, etc	Yes	35000	1	\$ 35,000.00	Basic administrative requirements for executing the grant		
		Insurance	Yes	25000	1	\$ 25,000.00			
		Materials, Outreach, Software, Other	Yes	50000	1	\$ 50,000.00			
						Sub-total	\$ 110,000.00		
Travel	Conference and Meeting Expenses	Yes	5000	1	\$ 5,000.00	Attendance at NTIA required conferences and other meetings related to the grant within the region			
	Other Travel	Yes	2500	1	\$ 2,500.00				
					Sub-total	\$ 7,500.00			
	SUB-TOTAL					\$ 1,280,532.00			
2. Land, structures, rights-of-way, appraisals, etc.	Collocation Center	Barn, Cty Bldg IRU	Yes	750000	1	\$ 750,000.00	25 year lease from Barnstable County of 7500sqft of public safety building. First five years of payments included in match		
	SUB-TOTAL					\$ 750,000.00			
3. Relocation expenses and payments						\$ -			
	SUB-TOTAL					\$ -			
4. Architectural and engineering fees						\$ -			
	SUB-TOTAL					\$ -			
5. Other architectural and engineering fees	Outside Plant	Engineering OSP Fiber Component	Yes	380,160	1	\$ 380,160.00	Design and Engineering and associated management costs as reflected in actual expenditures, contracts, or bids to RFPs for designing and engineering the network and collocation center		
		Microwave	Microwave Overlay	Yes	300,000	1		\$ 300,000.00	
	Network	Transport	Yes	204,616	1	\$ 204,616.00			
		Municipal RAN	Yes	100,000	1	\$ 100,000.00			
						Sub-total		\$ 984,776.00	
	Integration	Central Office, Collocation Center, Other	Yes	50,000	1	\$ 50,000.00			
	Project Mgmt	Contractor Management	Yes	235,469	1	\$ 235,469.00			
	Conceptual Design	Sidera Networks Engineering	Yes	215,640	1	\$ 215,640.00			
Collocation Center	Engineering of building renovation	Yes	150	200	\$ 30,000.00				
	SUB-TOTAL					\$ 1,515,885.00			
6. Project inspection fees	Outside Plant	Cable Testing	Yes	100,000	1	\$ 100,000.00	Inspection and testing of the network systems once installed.		
		Third Party Testing and Certification	Yes	50,000	1	\$ 50,000.00			
						Sub-total		\$ 150,000.00	
	Microwave	Microwave Overlay	Yes	89,114	1	\$ 89,114.00			
		Transport	Yes	200,000	1	\$ 200,000.00			
	Network	Municipal RAN	Yes	50,000	1	\$ 50,000.00			
								Sub-total	\$ 250,000.00
Integration	Central Office, Collocation Center, Other	Yes	50,000	1	\$ 50,000.00				
Project Mgmt	Contractor Management	Yes	275,000	1	\$ 275,000.00				
	SUB-TOTAL					\$ 814,114.00			
7. Site work						\$ -			
	SUB-TOTAL					\$ -			
8. Demolition and removal	Collocation Center						Estimate of demolition cost of the future regional collocation center in anticipation of renovation.		
	Demolition	Barn, Cty Bldg Renovation	Yes	100000	1	\$ 100,000.00			
	SUB-TOTAL					\$ 100,000.00			
Environment and Historical	Environment and Historical	Environmental Assessment	Yes	35000	1	\$ 35,000.00	Actual and anticipated costs associated with Environmental Assessment and special permitting of the project		
		Cape Cod Canal Environ Assess	Yes	16000	1	\$ 16,000.00			
		State Wetland and Water Quality	Yes	22000	1	\$ 22,000.00			
		Army Corps of Engineers	Yes	75000	1	\$ 75,000.00			
								Sub-total	\$ 148,000.00
	Field Survey and Licensing	Field Survey Contractor	Yes	583624	1	\$ 583,624.00	Actual and anticipated costs associated with field survey of poles and conduit, license applications, and associated fees, insurance, and surety requirements of the pole owners		
		Pole Licensing Contractor	Yes	422400	1	\$ 422,400.00			
		Ngrid Licensing	Yes	190000	1	\$ 190,000.00			
		NSTAR Licensing	Yes	165000	1	\$ 165,000.00			
		Venzon Licensing	Yes	100000	1	\$ 100,000.00			
Venzon Conduit Access	Yes	200000	1	\$ 200,000.00					
Venzon Central Office Licenses	Yes	50000	1	\$ 50,000.00					
Pole Revisits	Yes	25000	1	\$ 25,000.00					
App and Attach Fees, Surety & Insurance	Yes	300000	1	\$ 300,000.00					
Other (Police Details, Bonds, Fees)	Yes	120000	1	\$ 120,000.00					
					Sub-total	\$ 2,156,024.00			
Make Ready	Ngrid Make Ready	Yes	600000	1	\$ 600,000.00	Anticipated costs associated with Make Ready of poles and conduit based on near final pole and distance numbers and estimates of per pole and per foot cost			
	NSTAR Make Ready	Yes	2750000	1	\$ 2,750,000.00				
	Venzon Make Ready	Yes	1800000	1	\$ 1,800,000.00				
	Underground Make Ready	Yes	250000	1	\$ 250,000.00				
	Other (Police Details, etc.)	Yes	100000	1	\$ 100,000.00				
					Sub-total	\$ 5,500,000.00			

OpenCape SF424C Budget Detail
Amendment Action Request

9. Construction	Outside Plant Total Backbone Fiber	Providence POP to Fall River CO (26 Mi)	Yes	672,196	1	\$ 672,196.00	Anticipated costs associated with construction of the outside fiber plant backbone based on RFP responses and contract development with successful RFP respondent
		Fall River CO to New Bedford CO (15 Mi)	Yes	303,147	1	\$ 303,147.00	
		New Bedford CO to Canal (25 Mi)	Yes	188,071	1	\$ 188,071.00	
		Cape Cod Canal to Cataumet CO (8 Mi)	Yes	279,324	1	\$ 279,324.00	
		Cataumet CO to Falmouth CO (12 Mi)	Yes	233,216	1	\$ 233,216.00	
		Falmouth CO to Hyannis CO (24 Mi)	Yes	187,111	1	\$ 187,111.00	
		Hyannis CO to Orleans CO (25 Mi)	Yes	256,271	1	\$ 256,271.00	
		Orleans CO to Provincetown CO (28 Mi)	Yes	533,874	1	\$ 533,874.00	
		Orleans CO to Barnstable Collo (23 Mi)	Yes	277,361	1	\$ 277,361.00	
		Barnstable Collo to Canal (17 Mi)	Yes	440,700	1	\$ 440,700.00	
		Cape Cod Canal to Plymouth CO (18 Mi)	Yes	311,019	1	\$ 311,019.00	
		Plymouth CO to Brockton CO (31 Mi)	Yes	532,914	1	\$ 532,914.00	
		Canal Connector (12 Mi)	Yes	187,111	1	\$ 187,111.00	
	Rte 132 Connector (5 Mi)	Yes	117,950	1	\$ 117,950.00		
					Sub-total	\$ 4,520,265.00	
	Outside Plant Total Fiber Backbone Extensions	Edwards/Otis Air Force Base Ext (4 Mi)	Yes	102,851	1	\$ 102,851.00	Anticipated costs associated with construction of the outside fiber plant extensions based on RFP responses and contract development with successful RFP respondent
		Woods Hole Extension (3 Mi)	Yes	35,815	1	\$ 35,815.00	
		Chatham Extension (8 Mi)	Yes	59,822	1	\$ 59,822.00	
		National Seashore Extension (2 Mi)	Yes	154,939	1	\$ 154,939.00	
					Sub-total	\$ 353,427.00	
	Underground	New Underground (42240 feet)	Yes	1,800,000	1	\$ 1,800,000.00	Anticipated cost based on quotation.
	Tower Laterals	Installation and Configuration	Yes	864,508	1	\$ 864,508.00	Anticipated cost based on quotation.
	Anchor Laterals	Installation and Configuration	Yes	432,254	1	\$ 432,254.00	Anticipated cost based on quotation.
	Canal Crossing	North Directional Bore Crossing	Yes	250,000	1	\$ 250,000.00	Anticipated cost based on quotation.
	Microwave System	Installation and Configuration	Yes	2,451,713	1	\$ 2,451,713.00	Anticipated cost based on quotation.
		POPs	Yes	0	1	\$ -	
	Central Office Renovation	Verizon COs	Yes	0	1	\$ -	Cost absorbed within OSP build
Collocation Center		Yes	0	1	\$ -		
				Sub-total	\$ -		
Project Mgmt	Contractor Management	Yes	2,219,062	1	\$ 2,219,062.00	Anticipated cost based on quotation.	
Bond	Construction Bonding	Yes	500,000	1	\$ 500,000.00	Anticipated cost based on quotation.	
700Mhz	Public Safety 700Mhz System	Yes	465,000	13	\$ 604,500.00	Estimated cost based on RFPs	
Colocation Center Renovation	Barn. Cty Bldg. Renovation	Yes	1280045	1	\$ 1,280,045.00	Estimated cost based on previous RFP responses	
	Data Center Construction	Yes	150000	1	\$ 150,000.00		
				Sub-total	\$ 1,430,045.00		
Overall Project Management	Director	Yes	90	6,150	\$ 553,500.00	Anticipated cost based on known per hour cost and estimated number of hours	
	Construction Coordinator	Yes	60	6,150	\$ 369,000.00		
	Administrative Support	Yes	30	6,150	\$ 184,500.00		
				Sub-total	\$ 1,107,000.00		
Anchor Configuration Coordination	Regional Area Network Muni Travel	Yes	20000	1	\$ 20,000.00	Anticipated cost of community outreach to coordinate the deployment of CAI laterals	
		Yes	7500	1	\$ 7,500.00		
				Sub-total	\$ 27,500.00		
SUB-TOTAL						\$ 24,364,298.00	
10. Equipment	OSP	ADSS Fiber (All Counts)	Yes	2750000	1	\$ 2,750,000.00	Anticipated cost based on quotation
		Fiber Build Hardware	Yes	750000	1	\$ 750,000.00	
		UG Materials	Yes	150000	1	\$ 150,000.00	
					Sub-total	\$ 3,650,000.00	
	Switching	Aggregation EdgeSwitches for RAN Hubs	Yes	75000	1	\$ 75,000.00	Anticipated cost based on quotation.
		Core, Edge and CPE Mgmt System	Yes	263000	1	\$ 263,000.00	
		Aggregation Edge Switching	Yes	500000	1	\$ 500,000.00	
		All ROADM Nodes	Yes	2500000	1	\$ 2,500,000.00	
					Sub-total	\$ 3,338,000.00	
	Access	Ethernet Switches - Anchor Institutions	Yes	150000	1	\$ 150,000.00	Anticipated cost based on quotation.
		Ethernet Switches - RAN	Yes	200000	1	\$ 200,000.00	
		All Backup Power and Materials	Yes	100000	1	\$ 100,000.00	
					Sub-total	\$ 450,000.00	
	Microwave System	Microwave Equipment (Materials & Spares)	Yes	1031103	1	\$ 1,031,103.00	Anticipated cost based on quotation.
	Project Mgmt	Project Management	Yes	435469	1	\$ 435,469.00	Anticipated cost based on quotation
		HVAC	Yes	402000	1	\$ 402,000.00	
	Colocation Center Renovation	UPS	Yes	115000	1	\$ 115,000.00	Estimated cost based on analysis and consultation with experts in this field
Materials		Yes	400000	1	\$ 400,000.00		
VM SAN		Yes	425000	1	\$ 425,000.00		
Generator & Infrastructure		Yes	333000	1	\$ 333,000.00		
In row cabs		Yes	3472	36	\$ 124,992.00		
Equipment		Yes	410000	1	\$ 410,000.00		
Electrical Infrastructure		Yes	178000	1	\$ 178,000.00		
				Sub-total	\$ 2,387,992.00		
Office Equip/ Furniture	Furniture for three offices and meeting rm	Yes	23000	1	\$ 23,000.00	Actual and estimated cost of equipment required to execute the grant and complete construction	
	Computer, Phone, Printing equipment	Yes	21000	1	\$ 21,000.00		
	Other				\$ -		
				Sub-total	\$ 44,000.00		
SUB-TOTAL						\$ 11,336,564.00	
11. Miscellaneous							\$ -
SUB-TOTAL						\$ -	
SUB-TOTAL						\$ 40,161,393.00	
Contingencies						\$ -	
TOTAL						\$ 40,161,393.00	

Dan Walker CEO OpenCape Corporation
2/17/11