

## **BTOP Comprehensive Community Infrastructure Community Anchor Institution and Network Points of Interest Detail Template**

Please complete the Anchor Institution Details worksheet by providing information on Community Anchor Institutions that will be directly connected by the proposed network as necessary. All Community Anchor Institutions should be given a type from the specification. A Community Anchor Institution is considered a minority-serving institution if it is a post-secondary educational institution with enrollment of minority students exceeding 50% of its total enrollment. The "Project Role" column only requires a word or two, or a short phrase, not a detailed explanation of the role of project partners and community anchor institutions provided in the essay portions of the application.

Please complete the Points of Interest worksheet by providing information on all points of interest (passive, non-environmentally controlled points of interconnection, cell tower points, may be excluded), collocation facilities, central offices, head ends, and other central office facilities, network access points to last mile service providers, Internet peering points, etc. For each point of interest you may provide either a street address or geocoordinates (lat/long). You must provide detail on what the point of interest is, whether it is already existing or will be created by the proposed project. Where more than one facility type applies, select the most appropriate facility type. For example, if a central office houses a point of interconnection, select central office as the facility type, or if a cell site is located on a tower, select tower as the facility type. Interconnection Available at the Facility field should be Yes if interconnection to the proposed network is available at that location, otherwise No. The brief description field is optional and can be used to convey a better understanding of what the facility is. You may use the space at the bottom of the table to provide additional notes, if desired.

**The data provided via this template will be subject to automated processing. Applicants are therefore required to provide this upload as an Excel file, and not to convert it to a PDF file upload. Additionally, applicants should not modify the format of this file.**

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**BTOP CCI Community Anchor Institutions Detail Template**

Title: 

<b>Nevada Broadband Telemedicine Initiative</b>
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 Easy Grants ID: 

<b>7648</b>
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Facility Name	Organization	Address Line 1	City	State	Zip	Facility Type	Minority Serving Institution Type	Project Role
Banner Churchill Community Hospital ( Current Facility)	Banner Health	801 E. Williams Ave. (to be constructed)	Fallon	NV	89406	Medical or Healthcare Provider	N/A	Network Subscriber
Battle Mountain General Hospital - (Current Facility)	Battle Mountain General Hospital	535 South Humboldt Street (to be constructed)	Battle Mountain	NV	89820	Medical or Healthcare Provider	N/A	Network Subscriber
Boulder City Hospital - (Current Facility)	Boulder City Hospital	901 Adams Boulevard (to be constructed)	Boulder City	NV	89005	Medical or Healthcare Provider	N/A	Network Subscriber
Carson Tahoe Regional Medical Center - (Current Facility)	Carson Tahoe Regional Healthcare	1600 Medical Parkway (to be leased)	Carson City	NV	89706	Medical or Healthcare Provider	N/A	Network Subscriber
Carson Valley Medical Center - (Current Facility)	A joint partnership of Barton HealthCare System of South Lake Tahoe and Renown Health of Reno	1107 Highway 395 (to be constructed)	Gardnerville	NV	89410	Medical or Healthcare Provider	N/A	Network Subscriber
Centennial Hills Hospital Medical Center - (Current Facility)	Universal Health Services, Inc.	6900 North Durango Dr. (to be constructed)	Las Vegas	NV	89149-4409	Medical or Healthcare Provider	N/A	Network Subscriber
Continuicare Hospital (Current Facility)	Carson Tahoe Regional Healthcare	775 Fleishmann Way (to be leased)	Carson City	NV	89703	Medical or Healthcare Provider	N/A	Network Subscriber
Desert Springs Hospital Medical Center - (Current Facility)	Universal Health Services, Inc.	2075 E. Flamingo Rd. (to be leased)	Las Vegas	NV	89119-	Medical or Healthcare Provider	N/A	Network Subscriber
Desert View Hospital - (Current Facility)	Rural Health Management	360 S. Lola Lane (to be constructed)	Pahrump	NV	89048	Medical or Healthcare Provider	N/A	Network Subscriber
Grover C. Dils Medical Center - (Current Facility) - to be constructed	Grover C. Dils Medical Center	700 North Spring Street	Caliente	NV	89008	Medical or Healthcare Provider	N/A	Network Subscriber
Humboldt General Hospital - (Current Facility)	Humboldt General Hospital	118 E. Haskell Street (to be constructed)	Winnemucca	NV	89445-	Medical or Healthcare Provider	N/A	Network Subscriber
MountainView Hospital - (Current Facility)	Sunrise Healthcare System	3100 North Tenaya Way (to be leased)	Las Vegas	NV	89128	Medical or Healthcare Provider	N/A	Network Subscriber
Mt. Grant General Hospital - (Current Facility)	Mt. Grant General Hospital	200 So. A Street (to be constructed)	Hawthorne	NV	89415	Medical or Healthcare Provider	N/A	Network Subscriber
Nathan Adelson Hospice	Nathan Adelson Hospice	4141 South Swenson Street (to be leased)	Las Vegas	NV	89119	Medical or Healthcare Provider	N/A	Network Subscriber
North Vista Hospital - (Current Facility)	IASIS Healthcare	1409 E. Lake Mead Blvd. (to be leased)	No. Las Vegas	NV	89030	Medical or Healthcare Provider	N/A	Network Subscriber
Northern Nevada Medical Center - (Current Facility)	Universal Health Services, Inc.	2375 E. Prater Way (to be leased)	Sparks	NV	89434	Medical or Healthcare Provider	N/A	Network Subscriber
Nye Regional Medical Center - (Current Facility) - to be constructed	Primecare Nevada Inc	825 Erie Main Street	Tonopah	NV	89049	Medical or Healthcare Provider	N/A	Network Subscriber
Pershing General Hospital - (Current Facility)	Pershing General Hospital	855 6th Street (to be constructed)	Lovelock	NV	89419	Medical or Healthcare Provider	N/A	Network Subscriber
Renown Rehabilitation Hospital - (Current Facility)	Renown Health	1495 Mill Street (to be leased)	Reno	NV	89502	Medical or Healthcare Provider	N/A	Network Subscriber
Renown Regional Medical Center - (Current Facility)	Renown Health	1155 Mill Street (to be leased)	Reno	NV	89502	Medical or Healthcare Provider	N/A	Network Subscriber
Renown South Meadows Medical Center - (Current Facility)	Renown Health	10101 Double R Boulevard (to be leased)	Reno	NV	89511	Medical or Healthcare Provider	N/A	Network Subscriber
South Lyon Medical Center - (Current Facility)	South Lyon Medical Center	213 Whitacre Street (to be constructed)	Yerington	NV	89447	Medical or Healthcare Provider	N/A	Network Subscriber
Southern Hills Hospital Medical Center - (Current Facility)	Sunrise Healthcare System	9300 W. Sunset Road (to be leased)	Las Vegas	NV	89148-	Medical or Healthcare Provider	N/A	Network Subscriber

Facility Name	Organization	Address Line 1	City	State	Zip	Facility Type	Minority Serving Institution Type	Project Role
Spring Valley Hospital Medical Center - (Current Facility)	Universal Health Services, Inc.	5400 S. Rainbow Blvd. (to be leased)	Las Vegas	NV	89118	Medical or Healthcare Provider	N/A	Network Subscriber
St. Rose Dominican Hospitals - Siena Campus - (Current Facility)	Catholic Healthcare West	3001 St. Rose Parkway (to be leased)	Henderson	NV	89052-	Medical or Healthcare Provider	N/A	Network Subscriber
St. Rose Dominican Hospitals - Rose de Lima Campus - (Current Facility)	Catholic Healthcare West	102 E. Lake Mead Dr. (to be leased)	Henderson	NV	89015	Medical or Healthcare Provider	N/A	Network Subscriber
Summerlin Hospital - (Current Facility)	Universal Health Services, Inc.	102 E. Lake Mead Dr. (to be leased)	Henderson	NV	89015	Medical or Healthcare Provider	N/A	Network Subscriber
Sunrise Hospital Medical Center - (Current Facility)	Sunrise Healthcare System	3186 S. Maryland Pkwy, S-400 (to be leased)	Las Vegas	NV	89109-	Medical or Healthcare Provider	N/A	Network Subscriber
University Medical Center - (Current Facility)	State of Nevada	1800 W. Charleston Blvd. (to be leased)	Las Vegas	NV	89102	Medical or Healthcare Provider	N/A	Network Subscriber
Valley Hospital Medical Center - (Current Facility)	Universal Health Services, Inc.	620 Shadow Lane (to be leased)	Las Vegas	NV	89106	Medical or Healthcare Provider	N/A	Network Subscriber
William Bee Ririe Hospital - (Current Facility)	William Bee Ririe Hospital	1500 Ave. H (to be constructed)	Ely	NV	89301	Medical or Healthcare Provider	N/A	Network Subscriber
Northeastern Nevada Regional Hospital (Current Facility)	Northeastern Nevada Regional Hospital	2001 Errecart Blvd. (to be constructed)	Elko	NV	89801	Medical or Healthcare Provider	N/A	Network Subscriber
Saint Mary's Regional Medical Center (Current Facility)	Catholic Healthcare West	235 West Sixth Street (to be leased)	Reno	NV	89502	Medical or Healthcare Provider	N/A	Network Subscriber
Sierra Surgery Hospital (Current Facility)	Sierra Surgery Hospital	1155 Mill Street (to be leased)	Carson City	NV	89703	Medical or Healthcare Provider	N/A	Network Subscriber
St. Rose Dominican Hospitals - San Martin Campus (Current Facility)	Catholic Healthcare West	8280 W. Warm Springs Rd. (to be leased)	Las Vegas	NV	89113	Medical or Healthcare Provider	N/A	Network Subscriber
Tahoe Pacific Hospitals (Current Facility)	Tahoe Pacific Hospitals	10405 Double R Blvd (to be leased)	Reno	Nv	89521	Medical or Healthcare Provider	N/A	Network Subscriber
UMC Rancho Rehabilitation Center (Current Facility)	State of Nevada	4333 North Rancho Drive (to be leased)	Las Vegas	NV	89130	Medical or Healthcare Provider	N/A	Network Subscriber

**BTOP CCI Network Points of Interest Detail Template**

Title: **Nevada Broadband Telemedicine Initiative**  
 Easy Grants ID: **7648**

Facility Type	Address Line 1	City	State	Zip	Longitude	Latitude	Interconnection Available at this Location	Status in Proposed Network
Collocation Facility	Switch SuperNAP Las Vegas	Las Vegas	Nevada	89118	W115° 12' 38.88	N36 03' 40.32	Yes	New for Proposed Network
Collocation Facility	200 S. Virginia Street	Reno	Nevada	89501	W119° 48' 41.76	N39 31' 27.84	Yes	New for Proposed Network
Tower (microwave link)	ANTC Tower - Tonopah	Tonopah	Nevada	89049	W116° 35' 21.76	N38 43' 73.36	Yes	Existing - Leased from Third Party
Tower (microwave link)	ANTC Tower - Ely	Ely	Nevada	89301	W114° 51' 41.76	N39 15' 28.80	Yes	Existing - Leased from Third Party
Tower (microwave link)	ANTC Tower - Caliente	Caliente	Nevada	89008	W114° 30' 57.60	N37 36' 59.04	Yes	New for Proposed Network

March 23, 2010

Mr. Bill Welch  
President & Chief Executive Officer  
Nevada Hospital Association  
5250 Neil Road, Suite 302  
Reno NV 89502

Re: Nevada Broadband Telemedicine Initiative (EZ grant ID 6815)

Dear Bill:

As a member hospital of the Nevada Hospital Association (NHA), please accept this letter of support and endorsement for NHA to participate in filing an application for federal stimulus funds to assist in implementing the Nevada Broadband Telemedicine Initiative.

Our hospital is an important contributor to our community's health care needs. As such, we believe a secure, NHA-owned, high-bandwidth fiber network will improve the quality of health care for Nevadans in many ways:

Health Information Exchange - The network will facilitate the Health Information Exchange, allowing the exchange of Electronic Health Records. Dedicated connections will ensure patient privacy and sufficient bandwidth will allow uninterrupted exchange of patient data between providers from different locations. We expect this will improve quality of care, efficiency and care coordination by allowing greater access to specialties and utilization of resources.

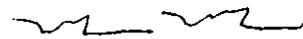
Meaningful Use of Electronic Health Records - Given the mandate from the Centers for Medicare and Medicaid Services regarding Medicare and Medicaid incentives for "meaningful use" of EHR, this network will support Nevada's health care providers to become qualified as "meaningful users" of certified EHR technology.

Telemedicine - We expect this will improve both quality and productivity by giving providers access to up-to-date patient information, and therefore, more accurate medical records. This will reduce redundant screenings and diagnostic testing and improve the delivery of health care services, including medication management.

For these reasons, we are very happy to hear that the NHA Board of Directors voted to approve the recommendations of the NHA Broadband Subcommittee and NHA Policy Development Committee to proceed with the grant application.

Our hospital is committed to support the Nevada Hospital Association's Broadband Telemedicine Initiative application. We look forward to working with NHA in deploying the proposed network.

Sincerely,



Nye Regional Medical Center  
Mark Koprek,  
Administrator

# HEALTHSOUTH

Rehabilitation Hospital of Henderson

March 23, 2010

Mr. Bill Welch  
President & Chief Executive Officer  
Nevada Hospital Association  
5250 Neil Road, Suite 302  
Reno NV 89502

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As a member hospital of the Nevada Hospital Association (NHA), please accept this letter of support and endorsement for NHA to participate in filing an application for federal stimulus funds to assist in implementing the Nevada Broadband Telemedicine Initiative.

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For these reasons, we are pleased the NHA Board of Directors voted to approve the recommendations of the NHA Broadband Subcommittee and NHA Policy Development Committee to proceed with the grant application.

Please accept our commitment to support the Nevada Hospital Association's Broadband Telemedicine Initiative application. We look forward to working with NHA in deploying the proposed network.

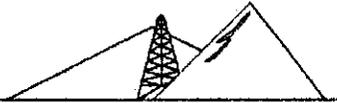
Sincerely,



Ken Bowman,  
Chief Executive Officer  
HealthSouth Rehabilitation Hospital of Henderson

# ***Arizona Nevada Tower Corp.***

1641 E. Sunset, Suite B-111  
Las Vegas, Nevada 89119  
702-454-2682 / 702-983-2665 Fax



## **Memorandum of Understanding Between Arizona Nevada Tower Corp. and Nevada Healthcare Network Concerning the USDA's Rural Utilities Service Broadband Initiatives Program March 2010**

This is an agreement between the Arizona Nevada Tower Corp., hereinafter called ANTC and Nevada Healthcare Network hereinafter called ANCHOR INSTITUTION.

### **I. Purpose & Scope**

The purpose of this MOU is to clearly identify the roles and responsibilities of each party as they relate to the USDA's Rural Utilities Service Broadband Initiatives Program (RUS BIP).

In particular, this MOU is intended to:

Secure support from the ANCHOR INSTITUTION so that ANTC can provide access to high-speed data connectivity through a robust, reliable, and redundant, heretofore, nonexistent infrastructure in select rural communities in collaboration with the RUS BIP.

This Memorandum of Understanding between ANTC and ANCHOR INSTITUTION contains the entire agreement between ANTC and ANCHOR INSTITUTION concerning the Partnership.

### **II. Background**

Arizona Nevada Tower Corp. (ANTC), incorporated in February 2003, is an existing wireless communication service and infrastructure business based in Las Vegas, Nevada with strong ties throughout the state. ANTC specializes in providing wireless communications facilities in strategic locations throughout Nevada designed to provide redundant and reliable broadband telecommunications services.

ANCHOR INSTITUTION is an integral part of an unserved or underserved community in which ANTC is committed to bringing broadband data access.

### **III. ANTC's Responsibilities Under this MOU**

ANTC shall undertake the following activities:

- Apply to RUS BIP to further develop infrastructure that will fuel long-term economic growth and opportunity throughout rural Nevada. By connecting essential ANCHOR INSTITUTIONS in rural Nevada to broadband services, economic development and overall quality of life will be enhanced.

- Specifically, upon securing RUS BIP funding, ANTC will provide ANCHOR INSTITUTION with 40 mbps ethernet access at Nye Regional Medical Center for \$12,000 per year, for no less than five years.

**IV. ANCHOR INSTITUTION's Responsibilities Under this MOU**

ANCHOR INSTITUTION shall undertake the following activities:

- In addition to signing this MOU, provide a letter of support stating the impact access to high-speed data connectivity will have on the ANCHOR INSTITUTIONS' ability to serve the community. The signed MOU and letter will be provided to ANTC no later than March 24, 2010.

**V. Funding**

This MOU does not necessitate the reimbursement of funds between the two parties.

**VI. Publicity**

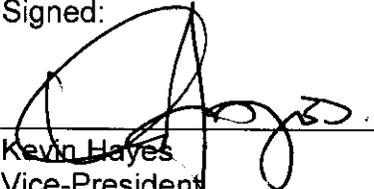
ANCHOR INSTITUTION and ANTC shall obtain the other party's prior written approval before ANCHOR INSTITUTION or ANTC issues any news release, public announcement, publication, or information concerning the Partnership, ANCHOR INSTITUTION or ANTC.

**VII. Signatures**

In witness whereof, the parties to this MOU through their duly authorized representatives have executed this MOU on the days and dates set out below, and certify that they have read, understood, and agreed to the terms and conditions of this MOU as set forth herein.

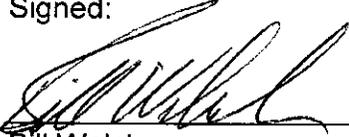
The effective date of this MOU is the date of the signature last affixed to this page.

Signed:

  
\_\_\_\_\_  
Kevin Hayes  
Vice-President  
ANTC

3-24-2010  
Date

Signed:

  
\_\_\_\_\_  
Bill Welch  
President & CEO  
Nevada Healthcare Network

3/24/10  
Date



5250 Neil Road • Suite 302 • Reno, NV 89502  
775-827-0184 • Fax 775-827-0190

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March 24, 2010

Merlinda Gallegos  
Community Development  
Arizona Nevada Tower Corp.  
1641 E. Sunset, Ste. B-111  
Las Vegas, NV 89119

Dear Ms. Gallegos:

The Nevada Hospital Association is pleased to offer our support to the Arizona Nevada Tower Corp. (ANTC) for its U.S. Department of Agriculture's Rural Utilities Service (RUS) Broadband Initiatives Program (BIP) grant application.

Our hospitals are important contributors to our community's health care needs. As such, we believe an award under the RUS BIP program will allow ANTC to further develop infrastructure that will fuel long-term economic growth and, we believe, improve quality and productivity to health care providers by allowing access to high-speed data connectivity to facilitate the exchange of Electronic Health Records through a robust, reliable and redundant infrastructure.

We look forward to working together with ANTC to leverage existing Nevada resources in order to deploy a truly integrated high-speed broadband network serving rural Nevada.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill M. Welch", is written over a white background.

Bill M. Welch  
President/CEO  
Nevada Hospital Association



5250 Neil Road • Suite 302 • Reno, NV 89502  
775-827-0184 • Fax 775-827-0190

March 26, 2010

Mr. Ron Newitt  
Alta Telecom

Mr. Thomas A. Reiman  
The Broadband Group

RE: Notice of Intent to Execute Management and Technical Operating Agreements  
Nevada Hospital Association ("NHA")  
Nevada Broadband Telemedicine Initiative - 2010  
Broadband Stimulus - BTOP Grant

Dear Ron & Tom:

Please be advised that the upon award as referenced above, and subject to fair contracting terms and conditions being met, the Nevada Hospital Association intends to enter into Management and Technical Operating Agreements with Alta Telecom ("Alta") and The Broadband Group ("TBG") (collectively "Vendors") related to the operation of the Nevada Broadband Telemedicine Initiative (Project) as defined in the BTOP grant.

Based on the substantial work under the leadership and direction of these organizations in preparing the grant documentation, NHA considers Alta and TBG as vendors of first choice as to implementation of the Project. In this regard, the technical, design, engineering, and network Managed Services' expertise of Alta and the operational, customer care, and network support services of The Broadband Group appropriately reflect the operational needs of the Project. We look forward to a long-term and productive relationship with Alta and TBG as we bring this important broadband link to our member hospitals.

Subject to final agreement, Vendors shall perform the services as defined as independent contractors and shall not be treated as employees of the other Parties for federal, state, or local tax purposes or for any other purposes. Nothing in the going forward Agreement shall be construed, interpreted, or deemed by the Parties hereto or by any third person as to create the relationship of principal and agent, employer and employee, or of partnership, or joint venture, or of any other association or any other relationship, other than the independent contractor relationship established pursuant to such Agreement.

Nevada healthcare is at a crossroads in terms of meeting the high expectation of consumers as well as the mandated requirements of Federal Telemedicine initiatives, Electronic Health Records, and a statewide Health Information Exchange. We look forward to the decisions as to our grant and the leadership, support and management we will receive from Alta Telecom and The Broadband Group.

Yours truly,

A handwritten signature in black ink, appearing to read "Bill M. Welch", is written over a light blue horizontal line.

Bill M. Welch  
President/CEO



# Western Nevada College

Carson City • Douglas • Fallon • Fernley • Hawthorne • Lovelock • Smith • Yerington

*The Right Choice*

## COMPUTING SERVICES

March 19, 2010

Mr. Bill Welch  
President/Chief Executive Officer  
Nevada Hospital Association  
5250 Neil Road, Suite 302  
Reno, NV 89502

Mr. Welch,

On behalf of Western Nevada College, we support the Nevada Hospital Association's efforts to obtain federal funding from the Department of Commerce, National Telecommunications and Information Administration (NTIA) for the deployment of a state-wide dedicated broadband network advancing the Telemedicine future of the state of Nevada.

We are particularly interested that "space" on this network will be reserved for and could be accessed by community anchor institutions; particularly those in rural underserved and unserved markets that desperately need high-bandwidth broadband connectivity to meet their information exchange needs.

Our organization is among the many vital community services that would benefit from the expanded broadband network service proposed by the Nevada Hospital Association.

We currently have internet service that doesn't fully meet the needs of our students and residents. This new fiber build would allow for better connectivity for the NSHE community colleges and K-12 constituencies in Carson City, Gardnerville, Yerington, Fallen, Pahrump and Hawthorne.

Western Nevada College looks forward to partnering with the Nevada Hospital Association to complete a truly state-wide telemedicine broadband network that will allow for the very latest in technology implementation and use.

Thank you for including our institution in your plans and please let us know if we can be of further assistance in the support of this application.

Sincerely,

*Susan Schreffler, Computing Services Administrator*  
*For Ken Sullivan*

Ken Sullivan  
Director of IT  
Western Nevada College

Visit us online at [www.wnc.edu/cs](http://www.wnc.edu/cs)

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2201 West College Parkway • Carson City, Nevada • 89703-7399 • 775-445-4258 • FAX 775-445-3146

*WNC - An Institution of the Nevada System of Higher Education*

## **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.

## 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)		\$5,057,549		\$5,057,549		\$5,057,549.16	\$5,057,549
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)	\$10,165,884			\$10,165,884		\$10,165,884.28	\$10,165,884
Buildings and Land – (new construction, improvements, renovations, lease)				\$0			\$0
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)	\$4,476,620			\$4,476,620		\$4,476,620.00	\$4,476,620
Billing and Operational Support Systems (IT systems, software, etc.)		\$270,000		\$270,000		\$270,000.00	\$270,000
Operating Equipment (vehicles, office equipment, other)		\$3,000,000		\$3,000,000		\$3,000,000.00	\$3,000,000
Engineering/Professional Services (engineering design, project management, consulting, etc.)	\$4,823,988			\$4,823,988		\$4,823,987.50	\$4,823,988
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)	\$1,138,500	\$600,000		\$1,738,500		\$1,738,500.00	\$1,738,500
Site Preparation	\$88,725			\$88,725		\$88,725.00	\$88,725
Other				\$0			\$0
<b>TOTAL BROADBAND SYSTEM:</b>	<b>\$20,693,717</b>	<b>\$8,927,549</b>	<b>\$0</b>	<b>\$29,621,266</b>	<b>\$0</b>	<b>\$29,621,266</b>	<b>\$29,621,266</b>
<b>Cost Share Percentage:</b>	<b>69.86%</b>	<b>30.14%</b>	<b>0.00%</b>				

## 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

SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In-kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPMENT</b>					<b>\$5,057,549</b>	<b>\$0</b>	<b>\$5,057,549</b>	<b>\$5,057,549</b>		
<b>Switching</b>	SRX3600BASE-AC	Cash Match	\$49,920	4	\$199,680		\$199,680	\$199,680	10. Equipment	
								\$0		
					\$0			\$0		
<b>Routing</b>	MX960-PREMIUM-AC	Cash Match	\$72,180	4	\$288,720		\$288,720	\$288,720	10. Equipment	
	DPCE-R-4XGE-XFP	Cash Match	\$97,600	12	\$1,171,200		\$1,171,200	\$1,171,200	10. Equipment	
	XFP-10GS	Cash Match	\$11,271	48	\$541,016		\$541,016	\$541,016	10. Equipment	
<b>Transport</b>	ADVA FSP3000R7 RN-LV	Cash Match	\$447,330	2	\$894,660		\$894,660	\$894,660	10. Equipment	
	ADVA FSP3000R7 RENO SPN	Cash Match	\$316,919	2	\$633,837		\$633,837	\$633,837	10. Equipment	
	ADVA FSP3000R7 LAS VEGAS	Cash Match	\$235,780	2	\$471,560		\$471,560	\$471,560	10. Equipment	
<b>Access</b>	STRM2500-A-BSE	Cash Match	\$49,652	2	\$99,304		\$99,304	\$99,304	10. Equipment	
								\$0		
					\$0			\$0		
<b>Other</b>	Contracts ADVA Electronics	Cash Match	\$547,572	1	\$547,572		\$547,572	\$547,572	11. Misc.	
	Contracts Juniper Electronics	Cash Match	\$210,000	1	\$210,000		\$210,000	\$210,000	11. Misc.	
					\$0			\$0		
<b>OUTSIDE PLANT</b>					<b>\$10,165,884</b>	<b>\$0</b>	<b>\$10,165,884</b>	<b>\$10,165,884</b>		
<b>Cables</b>	S1 Pahrump to Las Vegas		\$1,352,326	1	\$1,352,326		\$1,352,326	\$1,352,326	9. Construction	
	S2 Boulder City to Las Vegas		\$429,999	1	\$429,999		\$429,999	\$429,999	9. Construction	
	N4 Carson to Gardnerville		\$210,294	1	\$210,294		\$210,294	\$210,294	9. Construction	
	N5 Gardnerville to Yerington		\$582,742	1	\$582,742		\$582,742	\$582,742	9. Construction	
	Fallon		\$453,516	1	\$453,516		\$453,516	\$453,516	9. Construction	
	Hawthorne		\$250,200	1	\$250,200		\$250,200	\$250,200	9. Construction	
	ELKO - CLNT		\$661,500	1	\$661,500		\$661,500	\$661,500	9. Construction	
	SOUTH Leased Support		\$200,000	1	\$200,000		\$200,000	\$200,000	9. Construction	
	NORTH Leased Support		\$370,000	1	\$370,000		\$370,000	\$370,000	9. Construction	
<b>Conduits</b>	S1 Pahrump to Las Vegas		\$649,898	1	\$649,898		\$649,898	\$649,898	9. Construction	
	S2 Boulder City to Las Vegas		\$687,538	1	\$687,538		\$687,538	\$687,538	9. Construction	
	N4 Carson to Gardnerville		\$719,293	1	\$719,293		\$719,293	\$719,293	9. Construction	
	N5 Gardnerville to Yerington		\$847,390	1	\$847,390		\$847,390	\$847,390	9. Construction	
	Fallon		\$632,784	1	\$632,784		\$632,784	\$632,784	9. Construction	
	Hawthorne		\$125,000	1	\$125,000		\$125,000	\$125,000	9. Construction	
	ELKO - CLNT		\$388,500	1	\$388,500		\$388,500	\$388,500	9. Construction	
					\$0			\$0		
					\$0			\$0		
<b>Ducts</b>	Eligible Leases of Dark Fiber (from AFS)		\$607,636	1	\$607,636		\$607,636	\$607,636	11. Misc.	
					\$0			\$0		
					\$0			\$0		
<b>Poles/Materials</b>	S1 Pahrump to Las Vegas		\$375,696	1	\$375,696		\$375,696	\$375,696	9. Construction	
	S2 Boulder City to Las Vegas		\$98,912	1	\$98,912		\$98,912	\$98,912	9. Construction	
	N4 Carson to Gardnerville		\$47,913	1	\$47,913		\$47,913	\$47,913	9. Construction	
	N5 Gardnerville to Yerington		\$153,076	1	\$153,076		\$153,076	\$153,076	9. Construction	
	Fallon		\$232,711	1	\$232,711		\$232,711	\$232,711	9. Construction	
					\$0			\$0		
<b>Towers</b>					\$0			\$0		
					\$0			\$0		

					\$0			\$0	
<b>Repeaters</b>					\$0			\$0	
					\$0			\$0	
					\$0			\$0	
<b>Other</b>	Inspection Fees		\$63,961	1	\$63,961	\$63,961	\$63,961	6. Inspection fees	
	Right-of-Ways		\$25,000	1	\$25,000	\$25,000	\$25,000	2. Land, structures	
					\$0		\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
<b>BUILDINGS</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>New Construction</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Pre-Fab Huts</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Improvements &amp;</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>CUSTOMER PREMISE EQUIPMENT</b>					<b>\$4,476,620</b>	<b>\$0</b>	<b>\$4,476,620</b>	<b>\$4,476,620</b>		
<b>Modems</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Routers/Switch</b>	MX240-AC-CDPC-B		\$74,250	28	\$2,079,000		\$2,079,000	\$2,079,000	10. Equipment	
	CBL-M-PWR-RA-TWLK-US		\$6,437	64	\$411,984		\$411,984	\$411,984	10. Equipment	
	EX4200-48T		\$13,271	124	\$1,645,604		\$1,645,604	\$1,645,604	10. Equipment	
	CBL-M-PWR-RA-TWLK-US		\$7,084	48	\$340,032		\$340,032	\$340,032	10. Equipment	
<b>Inside Writing</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b>					<b>\$270,000</b>	<b>\$0</b>	<b>\$270,000</b>	<b>\$270,000</b>		
<b>Billing Support</b>	Billing System	Cash Match	\$270,000	1	\$270,000		\$270,000	\$270,000	11. Misc.	
					\$0			\$0		
					\$0			\$0		
<b>Customer Care</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other Support</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
<b>OPERATING EQUIPMENT</b>					<b>\$3,000,000</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$3,000,000</b>		
Vehicles					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Office Equipment /					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Other	EMR Healthcare System	Cash Match	\$500,000	6	\$3,000,000		\$3,000,000	\$3,000,000	10. Equipment	
					\$0			\$0		
					\$0			\$0		
<b>PROFESSIONAL SERVICES</b>					<b>\$4,823,988</b>	<b>\$0</b>	<b>\$4,823,988</b>	<b>\$4,823,988</b>		
Engineering	Design Engineering Services		\$175	4316	\$755,300		\$755,300	\$755,300	4. Architectural and engr.	
	Design Make Ready		\$175	4320	\$756,000		\$756,000	\$756,000	5. Other archit. and engr.	
	Network Design/Integration Services		\$225	3334.5	\$750,263		\$750,263	\$750,263	4. Architectural and engr.	
Project	Project Management		\$175	3182	\$556,850		\$556,850	\$556,850	5. Other archit. and engr.	
	System Development		\$225	1322	\$297,450		\$297,450	\$297,450	4. Architectural and engr.	
					\$0			\$0		
Consulting	Grant Preparation Fee		\$200	2000	\$400,000		\$400,000	\$400,000	4. Architectural and engr.	
	Admin Design Development		\$175	1475	\$258,125		\$258,125	\$258,125	1. Admin and Legal	
	EMR Healthcare System PS		\$175,000	6	\$1,050,000		\$1,050,000	\$1,050,000	5. Other archit. and engr.	
Other					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>TESTING</b>					<b>\$1,738,500</b>	<b>\$0</b>	<b>\$1,738,500</b>	<b>\$1,738,500</b>		
Network	Installation Test Transport		\$250	2454	\$613,500		\$613,500	\$613,500	4. Architectural and engr.	
					\$0			\$0		
					\$0			\$0		
IT System	Installation & Integration Juniper		\$175	1000	\$175,000		\$175,000	\$175,000	4. Architectural and engr.	
	Edge Installation		\$175	2000	\$350,000		\$350,000	\$350,000	7. Site work	
					\$0			\$0		
User Devices					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Test Generators					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Lab					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
Servers/Computer	Healthcare EMR System	Cash Match	\$15,000	40	\$600,000		\$600,000	\$600,000	10. Equipment	
					\$0			\$0		
					\$0			\$0		

COMMON	Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
<b>OTHER UPFRONT COSTS</b>				<b>\$88,725</b>	<b>\$0</b>	<b>\$88,725</b>	<b>\$88,725</b>		
Site		\$175	170	\$29,750		\$29,750	\$29,750	8. Demolition/removal	
		\$175	337	\$58,975		\$58,975	\$58,975	7. Site work	
				\$0			\$0		
Other				\$0			\$0		
				\$0			\$0		
				\$0			\$0		
<b>PROJECT TOTAL:</b>				<b>\$29,621,266</b>	<b>\$0</b>	<b>\$29,621,266</b>	<b>\$29,621,266</b>		



5250 Neil Road • Suite 302 • Reno, NV 89502  
775-827-0184 • Fax 775-827-0190

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March 24, 2010

Merlinda Gallegos  
Community Development  
Arizona Nevada Tower Corp.  
1641 E. Sunset, Ste. B-111  
Las Vegas, NV 89119

Dear Ms. Gallegos:

The Nevada Hospital Association is pleased to offer our support to the Arizona Nevada Tower Corp. (ANTC) for its U.S. Department of Agriculture's Rural Utilities Service (RUS) Broadband Initiatives Program (BIP) grant application.

Our hospitals are important contributors to our community's health care needs. As such, we believe an award under the RUS BIP program will allow ANTC to further develop infrastructure that will fuel long-term economic growth and, we believe, improve quality and productivity to health care providers by allowing access to high-speed data connectivity to facilitate the exchange of Electronic Health Records through a robust, reliable and redundant infrastructure.

We look forward to working together with ANTC to leverage existing Nevada resources in order to deploy a truly integrated high-speed broadband network serving rural Nevada.

Sincerely,

A handwritten signature in black ink, appearing to read "Bill M. Welch", is written over a light blue circular background.

Bill M. Welch  
President/CEO  
Nevada Hospital Association



# CARSON TAHOE

## Regional Healthcare

Carson Tahoe  
Regional Medical  
Center

1600 Medical Parkway  
Carson City, NV 89703  
(775) 445-8000

Cancer Center

1535 Medical Parkway  
Carson City, NV 89703  
(775) 445-7500

Specialty  
Medical Center

775 Fleischmann Way  
Carson City, NV 89703  
(775) 885-4430

Minden Medical  
Center

925 Ironwood Drive  
Minden, NV 89423  
(775) 783-7800

Dayton  
Professional  
Building

901 Medical Center Dr.  
Dayton, NV 89403  
(775) 246-2010

Behavioral  
Health Services

West William at  
Minnesota in Carson  
(775) 885-4460

Partnerships:

Sierra Surgery  
Hospital

MedDirect  
Urgent Care

Carson Tahoe  
Radiation  
Oncology  
Associates, LLP

March 23, 2010

Mr. Bill Welch  
President & Chief Executive Officer  
Nevada Hospital Association  
5250 Neil Road, Suite 302  
Reno NV 89502

Re: Nevada Broadband Telemedicine Initiative (EZ grant ID 6815)

Dear Bill:

As a member hospital of the Nevada Hospital Association (NHA), please accept this letter of support and endorsement for NHA to participate in filing an application for federal stimulus funds to assist in implementing the Nevada Broadband Telemedicine Initiative.

Our hospital is an important contributor to our community's health care needs. As such, we believe a secure, NHA-owned, high-bandwidth fiber network will improve the quality of health care for Nevadans in many ways:

Health Information Exchange - The network will facilitate the Health Information Exchange, allowing the exchange of Electronic Health Records. Dedicated connections will ensure patient privacy and sufficient bandwidth will allow uninterrupted exchange of patient data between providers from different locations. We expect this will improve quality of care, efficiency and care coordination by allowing greater access to specialties and utilization of resources.

Meaningful Use of Electronic Health Records - Given the mandate from the Centers for Medicare and Medicaid Services regarding Medicare and Medicaid incentives for "meaningful use" of EHR, this network will support Nevada's health care providers to become qualified as "meaningful users" of certified EHR technology.

Telemedicine - We expect this will improve both quality and productivity by giving providers access to up-to-date patient information, and therefore, more accurate medical records. This will reduce redundant screenings and diagnostic testing and improve the delivery of health care services, including medication management.

For these reasons, we are pleased the NHA Board of Directors voted to approve the recommendations of the NHA Broadband Subcommittee and NHA Policy Development Committee to proceed with the grant application.

Please accept our commitment to support the Nevada Hospital Association's Broadband Telemedicine Initiative application. We look forward to working with NHA in deploying the proposed network.

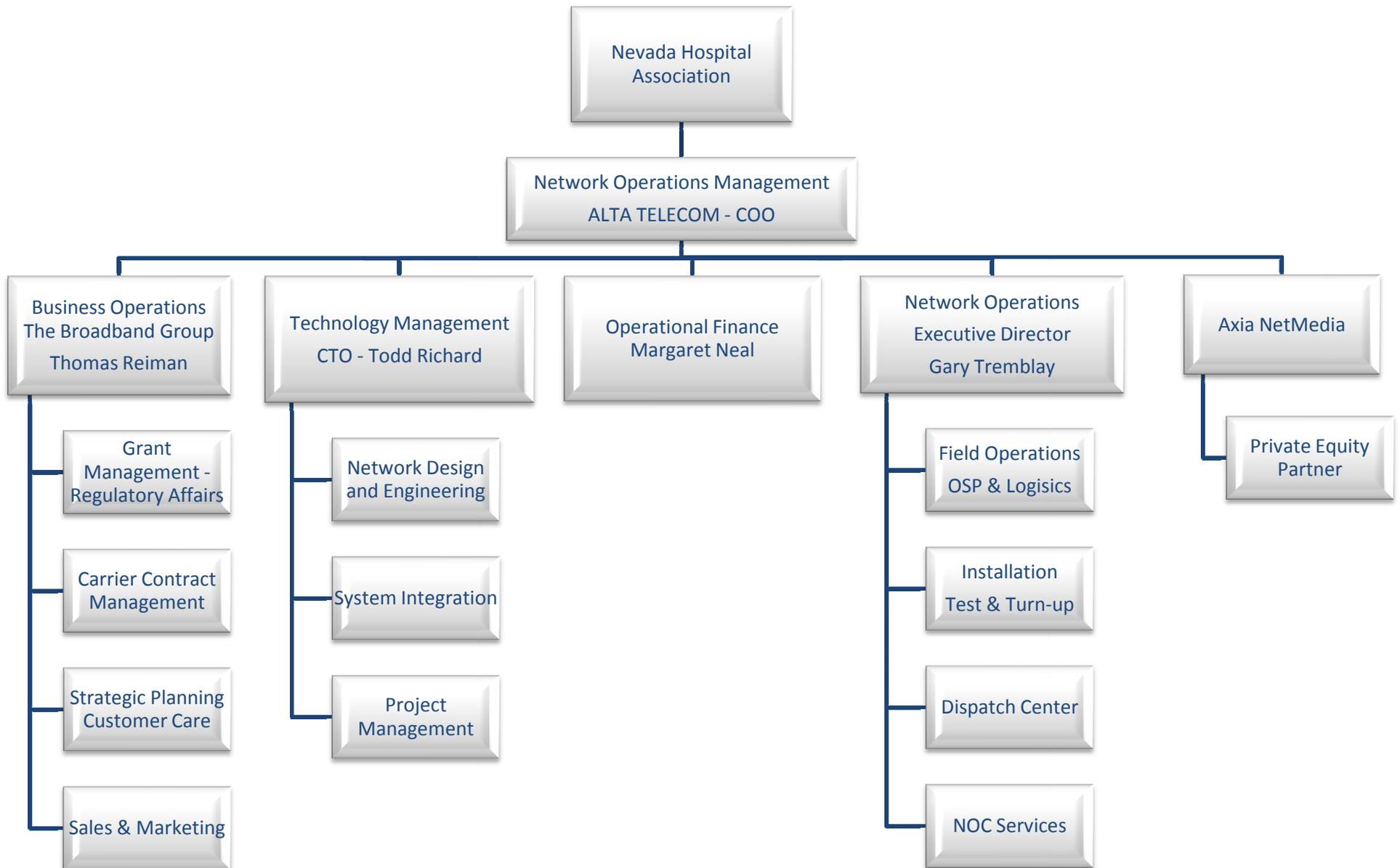
Sincerely,

Ed Epperson, President & CEO  
Carson Tahoe Regional Healthcare  
1600 Medical Parkway  
Carson City, NV 89703

# Nevada Hospital Association

## “Nevada Broadband Telemedicine Initiative”

### ORGANIZATION CHART





# Saint Mary's Regional Medical Center

A member of CHW

March 23, 2010

Mr. Bill Welch  
President & Chief Executive Officer  
Nevada Hospital Association  
5250 Neil Road, Suite 302  
Reno NV 89502

Re: Nevada Broadband Telemedicine Initiative (EZ grant ID 6815)

Dear Bill:

As a member hospital of the Nevada Hospital Association (NHA), please accept this letter of support and endorsement for NHA to participate in filing an application for federal stimulus funds to assist in implementing the Nevada Broadband Telemedicine Initiative.

As one of the longest established businesses, one of the largest employers, one of the major tertiary medical care and critical access health care providers; and one of the largest charity care contributors in to this community, Saint Mary's has made a commitment to the long-term livelihood and well-being of this community. As such, we believe a secure, NHA-owned, high-bandwidth fiber network will improve the quality of health care for Nevadans in many ways:

Health Information Exchange - The network will facilitate the Health Information Exchange, allowing the exchange of Electronic Health Records. Dedicated connections will ensure patient privacy and sufficient bandwidth will allow uninterrupted exchange of patient data between providers from different locations. We expect this will improve quality of care, efficiency and care coordination by allowing greater access to specialties and utilization of resources.

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For these reasons, we are pleased the NHA Board of Directors voted to approve the recommendations of the NHA Broadband Subcommittee and NHA Policy Development Committee to proceed with the grant application.

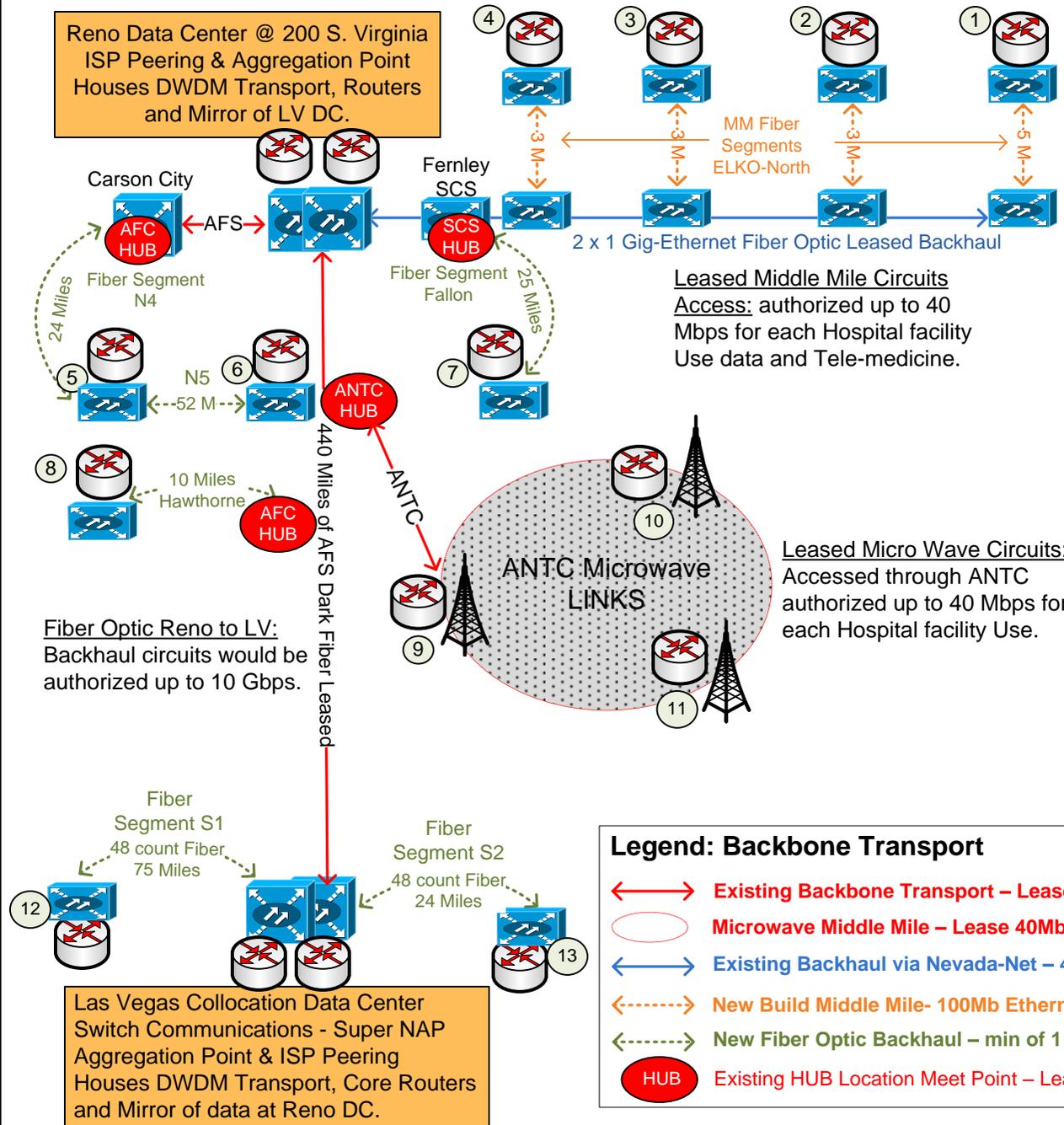
Please accept our commitment to support the Nevada Hospital Association's Broadband Telemedicine Initiative application. We look forward to working with NHA in deploying the proposed network.

Sincerely,

Michael J. Uboldi  
President and CEO  
Saint Mary's Regional Medical Center and Health System

COMPANY NAME	ADDRESS	CITY	STATE	ZIP
Banner Churchill Community Hospital	801 E. Williams Ave.	Fallon	NV	89406
Battle Mountain General Hospital	535 South Humboldt Street	Battle Mountain	NV	89820
Boulder City Hospital	901 Adams Boulevard	Boulder City	NV	89005
Carson Tahoe Regional Medical Center	1600 Medical Parkway	Carson City	NV	89706
Carson Valley Medical Center	1107 Highway 395	Gardnerville	NV	89410
Centennial Hills Hospital Medical Center	6900 North Durango Dr.	Las Vegas	NV	89149-4409
Continuecare Hospital	775 Fleischmann Way 2nd Floor	Carson City	NV	89703
Desert Springs Hospital Medical Center	2075 E. Flamingo Rd.	Las Vegas	NV	89119-
Desert View Hospital	360 S. Lola Lane	Pahrump	NV	89048
Grover C. Dils Medical Center	P.O. Box 1010	Caliente	NV	89008
Humboldt General Hospital	118 E. Haskell Street	Winnemucca	NV	89445-
MountainView Hospital	3100 North Tenaya Way	Las Vegas	NV	89128
Mt. Grant General Hospital	200 So. A Street	Hawthorne	NV	89415
Nathan Adelson Hospice	4141 South Swenson Street	Las Vegas	NV	89119
North Vista Hospital	1409 E. Lake Mead Blvd.	No. Las Vegas	NV	89030
Northeastern Nevada Regional Hospital	2001 Errecart Blvd.	Elko	NV	89801-
Northern Nevada Medical Center	2375 E. Prater Way	Sparks	NV	89434
Nye Regional Medical Center	P.O. Box 391	Tonopah	NV	89049
Pershing General Hospital	P.O. Box 661	Lovelock	NV	89419
Renown Rehabilitation Hospital	1495 Mill Street	Reno	NV	89502
Renown Regional Medical Center	1155 Mill Street	Reno	NV	89502
Renown South Meadows Medical Center	10101 Double R Boulevard	Reno	NV	89511
Saint Mary's Regional Medical Center	235 West Sixth Street	Reno	NV	89502-
Sierra Surgery Hospital	1155 Mill Street	Carson City	NV	89703
South Lyon Medical Center	P.O. Box 940	Yerington	NV	89447
Southern Hills Hospital Medical Center	9300 W. Sunset Road	Las Vegas	NV	89148-
Spring Valley Hospital Medical Center	5400 S. Rainbow Blvd.	Las Vegas	NV	89118
St. Rose Dominican Hospitals - Siena Campus	3001 St. Rose Parkway	Henderson	NV	89052-
Summerlin Hospital Medical Center	657 Town Center Drive	Las Vegas	NV	89144
St. Rose Dominican Hospitals - Rose de Lima Campus	102 E. Lake Mead Dr.	Henderson	NV	89015
St. Rose Dominican Hospitals - San Marfín Campus	8280 W. Warm Springs Rd.	Las Vegas	NV	89113
Sunrise Hospital Medical Center	3186 S. Maryland Pkwy, S-400	Las Vegas	NV	89109-
Tahoe Pacific Hospitals	10405 Double R Blvd.	Reno	NV	89521
UMC Rancho Rehabilitation Center	4333 North Rancho Dr.	Las Vegas	NV	89130
University Medical Center	1800 W. Charleston Blvd.	Las Vegas	NV	89102
Valley Hospital Medical Center	620 Shadow Lane	Las Vegas	NV	89106
William Bee Ririe Hospital	1500 Ave. H	Ely	NV	89301

# Nevada Hospital Association Backbone Network

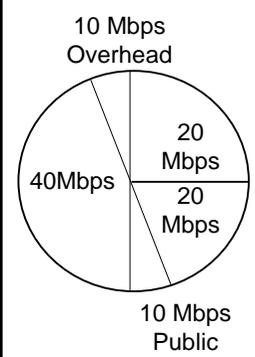


## Proposed Service Offering:

**HEALTHCARE NETWORK ACCESS**  
Dual BGP failover control at both Co-Lo Sites and dual ISP partners.

- High Speed Backhaul transport
- Hub and spoke arrangement
- Redundant transport with aggregation ports used to protect data.

**INTERNET ACCESS**  
- BGP failover access via DIA agreements with dual home ISP partners. Redundancy ISP access with links with aggregation ports used to protect data.



**Fiber Optic New Builds:**  
Each new fiber optic build would allow each hospital 40 Mbps of BW capacity, plus additional capacity would be available for wholesale use to private and public use as determined by the NVHA business model.

## Nevada Healthcare Wireline Transport

NHA has positioned the following network system diagrams that depicts the existing Data Center Facilities in Reno and Las Vegas. NVHA has designed and plans to light dark fiber and build the additional transport backbone High Speed Ethernet circuits to the designated communities located throughout the North and Southern Nevada locations.

The network will utilize existing backbone capacity from Nevada Net and also ANTC microwave network to provide an efficient and effective use of CAPEX funds. The network will be managed by NHA under Contract to a existing network operator organization. The network relationships with key personnel will allow NVHA to ensure stable and reliable operations based on SLA contracts. NHA will offer Broadband network access to their member Hospitals ensuring secure and reliable network operations including QoS.

## Project Viability:

NVHA has several major member hospitals that successfully deploy and operate complex enterprise and transport network elements. The new expansion project will be allow all the member hospitals to connect directly and have access to records and information maintained and backed-up at the Las Vegas and Reno Data Center Co-location facilities.

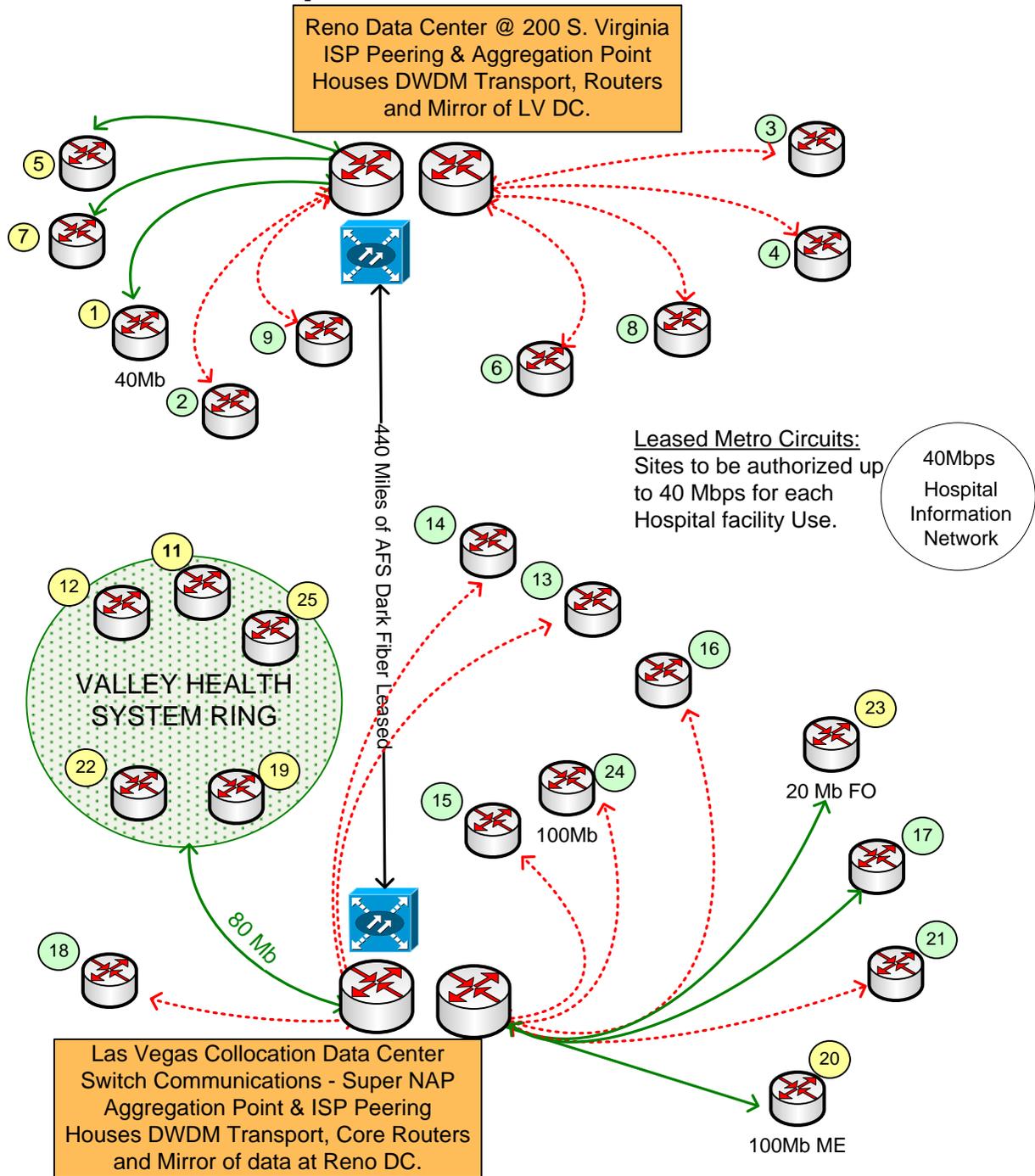
## NEVADA LOCATIONS

1	Northeastern Nevada Reg Hospital	2001 Errecart Blvd.	Elko
2	Battle Mountain General Hospital	535 South Humboldt St.	Battle Mountain
3	Humboldt General Hospital	118 E. Haskell Street	Winnemucca
4	Pershing General Hospital	P.O. Box 661	Lovelock
5	Carson Valley Medical Center	1107 Highway 395	Gardnerville
6	South Lyon Medical Center	P.O. Box 940	Yerington
7	Banner Churchill Comm Hospital	801 E. Williams Ave.	Fallon
8	Mt. Grant General Hospital	200 So. A Street	Hawthorne
9	Nye Regional Medical Center	825 US Highway 95	Tonopah
10	William Bee Ririe Hospital	1500 Ave. H	Ely
11	Grover C. Dils Medical Center	700 US Hwy 93	Caliente
12	Desert View Hospital	360 S. Lola Lane	Pahrump
13	Boulder City Hospital	901 Adams Boulevard	Boulder City

## Legend: Backbone Transport

- Existing Backbone Transport – Lease Dark 2 x 1 10Gig Ethernet
- Microwave Middle Mile – Lease 40Mb Minimum Access via MW
- Existing Backhaul via Nevada-Net – 400Mb Lease Backhaul
- New Build Middle Mile- 100Mb Ethernet Fiber Optics
- New Fiber Optic Backhaul – min of 1 Gig Ethernet Optical transport
- Existing HUB Location Meet Point – Leased 1 x 1Gig Ethernet

# Nevada Hospital Association Metro Networks



## NEVADA NORTH LOCAL SITES

1	Carson Tahoe Regional Medical Center	1600 Medical Parkway	Carson City
2	Continuecare Hospital	775 Fleishchman Way	Carson City
3	Northern Nevada Medical Center	2375 E. Prater Way	Sparks
4	Renown Regional Medical Center	1155 Mill Street	Reno
5	Renown Rehabilitation Hospital	1495 Mill Street	Reno
6	Renown South Meadows Medical Center	10101 Double R Boulevard	Reno
7	Saint Mary's Regional Medical Center	235 West Sixth Street	Reno
8	Sierra Surgery Hospital	1155 Mill Street	Carson City
9	Tahoe Pacific Hospital	10405 Double R Blvd.	Reno

## NEVADA SOUTH LOCAL SITES

11	Centennial Hills Hospital Medical Center	6900 North Durango Dr.	Las Vegas
12	Desert Springs Hospital Medical Center	2075 E. Flamingo Rd.	Las Vegas
13	St. Rose Dominican Hospitals - San Martin Campus	8280 W. Warm Springs Rd.	Las Vegas
14	MountainView Hospital	3100 North Tenaya Way	Las Vegas
15	Nathan Adelson Hospice	4141 South Swenson Street	Las Vegas
16	North Vista Hospital	1409 E. Lake Mead Blvd.	Las Vegas
17	UMC Rancho Rehabilitation Center	4333 North Rancho Drive	Las Vegas
18	Southern Hills Hospital Medical Center	9300 W. Sunset Road	Las Vegas
19	Spring Valley Hospital Medical Center	5400 S. Rainbow Blvd.	Las Vegas
20	St. Rose Dominican Hospitals - Siena Campus	3001 St. Rose Parkway	Henderson
21	St. Rose Dominican Hospitals - Rose de Lima Camp	102 E. Lake Mead Dr.	Henderson
22	Summerlin Hospital Medical Center	657 Town Center Drive	Las Vegas
23	Sunrise Hospital Medical Center	3186 S. Maryland Pkwy	Las Vegas
24	University Medical Center - Southern NV	1800 W. Charleston Blvd.	Las Vegas
25	Valley Hospital Medical Center	620 Shadow Lane	Las Vegas

### Legend: Metro Middle Mile Connections

- ←→ Existing Backhaul Fiber Optic
- ←→ Existing Fiber Optic Metro Connection
- ←- - - - -> Potential Leased Capacity – 40Mb Ethernet Optical transport





**Primecare**  
**Nevada, Inc.**

P.O. Box 391  
825 Erie Main St.  
Tonopah, Nevada 89049-0391  
(775) 482-6233  
Fax (775) 482-8272

3/2/2010

Kevin Hayes  
Vice-President, Finance & Administration  
Arizona Nevada Tower Corp.  
1641 East Sunset Road, Suite B-111  
Las Vegas, NV 89119

Dear Mr. Hayes:

This letter is to establish our support of Arizona Nevada Tower Corp. (ANTC) application for the proposed USDA RUS Broadband Initiative Program that will impact the rural communities of Tonopah, Hadley, Silver Peak, Goldfield, and Round Mountain.

Our understanding is that the proposed funding will provide the infrastructure for broadband data access in an area where there is limited or no existing infrastructure for such technology. The access to high speed internet will impact image transfers, redundancy, electronic health records, educational opportunities and increase communications.

- Increase the speed the radiologist can read studies.
- Allow fast transfer of patient data for EMR
- Allow Psychology telemedicine.
- Allow distance education for nursing and other department where continuing education is required.

We are excited about the possibility of ANTC bringing this state-of-the-art technology to our communities. ANTC has our unequivocal support. We, therefore, urge the approval of the RUS BIP application.

Sincerely,

Mark Koprek,  
Interim Administrator

## **BTOP Comprehensive Community Infrastructure Project Plan and Build-out Timeline**

Please complete the Project Plan and Build-out Timeline templates below. Note that these templates may be modified by applicants in order to provide the most effective presentation of the data for their specific project. Applicants should ensure, however, that they provide at least as much detail as the provided templates require.

For system stability reasons, it is recommended that you provide this upload in PDF format. This instruction page need not be included in the upload.

## PROJECT PLAN

- Use the following table to list the major network build-out phases and milestones that can demonstrate that your entire project will be substantially complete by the end of Year 2 and fully complete by the end of Year 3. This is to be done at the aggregate level (combining all proposed funded service areas.)
- Indicated how the milestones listed below will demonstrate these completion objectives. The applicant should consider such project areas as: a) network design; b) securing all relevant licenses and agreements; c) site preparation; d) inside plant deployment; e) outside plan deployment; f) deployment of business & operational support systems; g) network testing; f) network operational. The applicant may provide any other milestones that it believes showcase progress.
- Project inception (Year 0) starts at the date when the applicant receives notice that the project has been approved for funding.
- In the table, provide any information (e.g., facts, analysis) to: a) demonstrate the reasonableness of these milestones; b) substantiate the ability to reach the milestones by the quarters indicated.

Time Period	Quarter	Milestones	Support for Reasonableness/Data Points
Year 0	-	<ul style="list-style-type: none"> <li>• Program Definition – OSP, Technology, Deployment Plan</li> <li>• Execute RFP’s as required and perform market validation</li> <li>• Initiate Contracts with Vendors/Partners as required</li> <li>• Perform System Integration planning with design team</li> <li>• Develop transport contracts and build schedule/plan</li> <li>• Execute Deployment activities including PO’s</li> <li>• Issue orders with partners and vendors for materials, equipment and other items necessary to initiate project.</li> <li>• Launch ROW and Permit team to address defined areas.</li> </ul>	<ul style="list-style-type: none"> <li>• Provide a working program schedule to include all major elements. Ensure all partners and vendors provide complete cost of materials and final BOM’s for review prior to order placement. Designate final build plans with target hospital locations.</li> </ul>
Year 1	Qtr. 1	<ul style="list-style-type: none"> <li>• Launch deployment of fiber build for the following segments: S1 Pahrump, S2 Boulder, N4 Gardnerville</li> <li>• Deliver build-out of Las Vegas Data Center and Reno Data Center, ensure equipment and installation completion within 90 of start.</li> <li>• Deliver (3) interconnect agreements with UMC, Renown and one additional site as decided by NHA.</li> <li>• Network services available in Las Vegas on 4/30/ 2011.</li> </ul>	<ul style="list-style-type: none"> <li>• Launch of the fiber deployment activities to ensure first (3) target segments are on schedule.</li> <li>• Delivery of the Data Center elements is key to the interconnection with the two major hospital connections.</li> </ul>
	Qtr. 2	<ul style="list-style-type: none"> <li>• Continue deployment of fiber build for the following segments: S1 Pahrump, S2 Boulder, N4 Gardnerville</li> <li>• Deliver build-out of Las Vegas Data Center and Reno Data Center, ensure equipment and installation completion.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue fiber deployment activities to ensure first (3) target segments are on schedule.</li> <li>• Delivery of the Data Center elements is key to the interconnection with the two major hospital connections.</li> </ul>

	Qtr. 3	<ul style="list-style-type: none"> <li>Continue deployment of fiber build for the following segments: S1 Pahrump, S2 Boulder, N4 Gardnerville</li> <li>Launch deployment of fiber build for the following middle mile segments: North ELKO – Reno with Nevada Net backhaul to SCS.</li> <li>Complete local connections, total count (3) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>Continue fiber deployment activities to ensure first fiber build target segments are on schedule.</li> <li>Deliver at least (3) interconnection locations.</li> <li>Execute Network testing, recording performance per the functional specification in partnership with the OEM partners.</li> </ul>
	Qtr. 4	<ul style="list-style-type: none"> <li>Continue deployment of fiber build for the following segments: S1 Pahrump, S2 Boulder, N4 Gardnerville</li> <li>Continue deployment of fiber build for the following middle mile segments: North ELKO – Reno with Nevada Net backhaul to SCS.</li> <li>Complete local connections, total count (5) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>Continue fiber deployment activities to ensure first fiber build target segments are on schedule.</li> <li>Deliver at least (2) interconnection locations.</li> </ul>
Year 2	Qtr. 1	<ul style="list-style-type: none"> <li>Continue deployment of fiber build for the following segments: S1 Pahrump, S2 Boulder, N4 Gardnerville</li> <li>Continue deployment of fiber build for the following middle mile segments: North ELKO – Reno with Nevada Net backhaul to SCS.</li> <li>Complete local connections, total count (9) including installation of Edge routers/switches with QA sign-off.</li> <li>Initiate EMR system in Collocation facility and deliver services to at least first hospital customer.</li> <li>Initiate the Microwave connections projects with ANTC for the Tonopah, Caliente, and Ely segments.</li> </ul>	<ul style="list-style-type: none"> <li>Continue fiber deployment activities to ensure first fiber build target segments are on schedule.</li> <li>Deliver at least (4) interconnections.</li> <li>Ensure Microwave projects are launched and can be delivered with 180 days, in cooperation with ANTC.</li> </ul>
	Qtr. 2	<ul style="list-style-type: none"> <li>Complete deployment of fiber build for the following segments: S1 Pahrump, S2 Boulder, N4 Gardnerville</li> <li>Launch deployment on 2/28/12 of fiber build for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> <li>Complete deployment of fiber build for the following middle mile segments: North ELKO – Reno with Nevada Net backhaul to SCS.</li> <li>Complete local connections, total count (14) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>Completed fiber deployment activities to ensure first fiber build target segments are on schedule.</li> <li>Complete North ELKO – fiber build segments of middle mile to SCS in Reno.</li> <li>Deliver at least (5) interconnections.</li> <li>Continue Microwave segment deployment.</li> </ul>
	Qtr. 3	<ul style="list-style-type: none"> <li>Continue deployment of fiber build for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> </ul>	<ul style="list-style-type: none"> <li>Continue fiber deployment activities to ensure second fiber build target segments are on schedule.</li> </ul>

		<ul style="list-style-type: none"> <li>• Launch deployment of fiber build for the following leased segments: North per build schedule.</li> <li>• Complete local connections, total count (20) including installation of Edge routers/switches with QA sign-off.</li> <li>• Deliver Microwave connections projects with ANTC for the Tonopah, Caliente, and Ely segments.</li> </ul>	<ul style="list-style-type: none"> <li>• Deliver at least (6) interconnections.</li> <li>• Deliver services to Tonopah, Caliente and Ely locations.</li> </ul>
	Qtr. 4	<ul style="list-style-type: none"> <li>• Continue deployment of fiber build for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> <li>• Complete local connections, total count (25) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue fiber deployment activities to ensure second fiber build target segments are on schedule.</li> <li>• Deliver at least (5) interconnections.</li> </ul>
Year 3	Qtr. 1	<ul style="list-style-type: none"> <li>• Continue deployment of fiber build for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> <li>• Complete local connections, total count (28) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue fiber deployment activities to ensure second fiber build target segments are on schedule.</li> <li>• Deliver at least (3) interconnections.</li> </ul>
	Qtr. 2	<ul style="list-style-type: none"> <li>• Continue deployment of fiber build for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> <li>• Complete local connections, total count (30) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue fiber deployment activities to ensure second fiber build target segments are on schedule.</li> <li>• Deliver at least (2) interconnections.</li> </ul>
	Qtr. 3	<ul style="list-style-type: none"> <li>• Continue deployment of fiber build for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> <li>• Complete local connections, total count (34) including installation of Edge routers/switches with QA sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue fiber deployment activities to ensure second fiber build target segments are on schedule.</li> <li>• Deliver at least (4) interconnections.</li> </ul>
	Qtr. 4	<ul style="list-style-type: none"> <li>• Complete deployment of fiber build on 8/15/2013 for the following segments: N5 Yerington, SCS to Fallon, Hawthorne</li> <li>• Complete local connections, total count (38) including installation of Edge routers/switches with QA sign-off.</li> <li>• Deliver complete system to full control of Network Operations team under SLA contract, NOC alarm and Dispatch services.</li> <li>• Final NHA network acceptance sign-off.</li> </ul>	<ul style="list-style-type: none"> <li>• Completed fiber deployment activities to ensure fiber build target segments are completed per schedule.</li> <li>• Deliver at least (4) last interconnections.</li> <li>• Complete all design/build service documentation and red-line packages for sign-off and acceptance.</li> </ul>

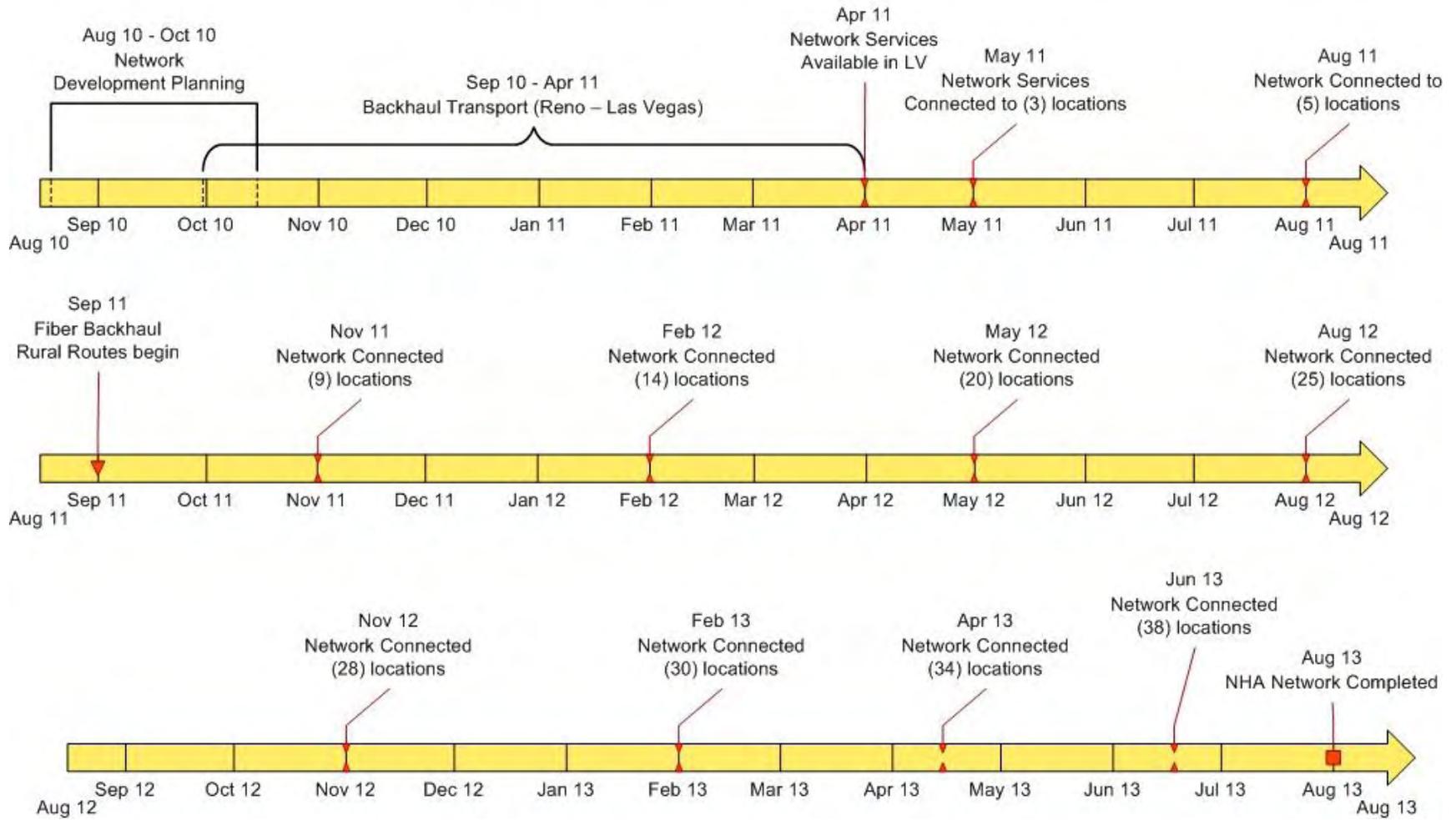
**BUILD-OUT TIMELINE**

Complete the following schedule for *each* Last Mile or Middle Mile Service Area to note the degree of build-out, based on: a) infrastructure funds awarded; b) entities passed (households, businesses, and community anchor institutions.). In addition, please complete a schedule that aggregates the build-out timeline across all of the Proposed Funded Service Area.

Service Area	[Nevada NHA]												
	YEAR 0	YEAR 1				YEAR 2				YEAR 3			
		Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4
Infrastructure Funds													
Infrastructure Funds Advanced (estimate)	10,358,770	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136	1,751,136
Percentage of Total Funds	35.0%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%	5.9%
Entities Passed & %													
Households	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Percentage of Total Households	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Businesses	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Percentage of Total Businesses	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Community Anchor Institutions	0	0	3	2	4	5	6	5	8	2	4	3	3
Percentage of Total Institutions	0%	0%	8%	13%	24%	37%	53%	66%	74%	79%	89%	100%	100%

# Project Time line Schedule

## NHA Network Development Schedule



## **BTOP Comprehensive Community Infrastructure Pro Forma Financial Projections**

Please complete the Income Statement, Balance Sheet, Cash Flows, and NPV-IRR Table worksheets. Key assumptions used to formulate these financial projections should be listed in the Key Assumptions worksheet. Please note that these are **project-specific** projections, in contrast to the historical financial information which is provided at the organizational level.

**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 may make adjustments to the format of the templates as necessary to provide the most effective presentation of the data for their specific project, but should not remove major headings (*e.g.* Revenues and Expenses on the Income Statement) or provide less detailed information than would be required to complete the provided templates.

# Income Statement

	Forecast Period							
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
<b>Revenues</b>								
Broadband Offerings								
Wholesale Data	\$ -	\$ -	\$ 1,417,329	\$ 2,948,044	\$ 3,065,965	\$ 3,188,604	\$ 3,316,148	\$ 3,448,794
Retail Data	\$ 24,960	\$ 311,501	\$ 782,905	\$ 1,038,834	\$ 1,080,388	\$ 1,123,603	\$ 1,168,547	\$ 1,215,289
Dark Fiber	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Collocation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (list specific services)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other Network Driven Revenues								
Video Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Voice Services (local/toll/long distance)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other (list specific services)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Universal Service Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Installation Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Amortized Grant Revenue	\$ 1,011,670	\$ 1,394,287	\$ 2,068,872	\$ 2,068,872	\$ 2,068,872	\$ 2,068,872	\$ 2,068,872	\$ 2,068,872
Other Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total Revenues</b>	<b>\$ 1,036,630</b>	<b>\$ 1,705,788</b>	<b>\$ 4,269,106</b>	<b>\$ 6,055,750</b>	<b>\$ 6,215,225</b>	<b>\$ 6,381,079</b>	<b>\$ 6,553,567</b>	<b>\$ 6,732,955</b>
<b>Expenses</b>								
Backhaul	\$ (74,880)	\$ (311,501)	\$ (519,687)	\$ (589,609)	\$ (613,193)	\$ (637,721)	\$ (663,230)	\$ (689,759)
Network Maintenance/Monitoring	\$ (228,524)	\$ (950,659)	\$ (1,132,869)	\$ (1,285,291)	\$ (1,336,702)	\$ (1,390,171)	\$ (1,445,777)	\$ (1,503,608)
Utilities	\$ (5,990)	\$ (24,920)	\$ (29,696)	\$ (33,692)	\$ (35,040)	\$ (36,441)	\$ (37,899)	\$ (39,415)
Leasing	\$ -	\$ -	\$ -	\$ (252,689)	\$ (262,797)	\$ (273,309)	\$ (284,241)	\$ (295,611)
Sales/Marketing	\$ (17,472)	\$ (72,684)	\$ (54,691)	\$ (62,049)	\$ (64,531)	\$ (67,113)	\$ (69,797)	\$ (72,589)
Customer Care	\$ (12,480)	\$ (51,917)	\$ (50,484)	\$ (57,276)	\$ (59,567)	\$ (61,950)	\$ (64,428)	\$ (67,005)
Billing	\$ (14,976)	\$ (62,300)	\$ (56,794)	\$ (64,436)	\$ (67,013)	\$ (69,694)	\$ (72,482)	\$ (75,381)
Corporate G&A	\$ (27,456)	\$ (114,217)	\$ (48,380)	\$ (54,890)	\$ (57,085)	\$ (59,369)	\$ (61,744)	\$ (64,213)
Other Operating Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ (381,778)</b>	<b>\$ (1,588,197)</b>	<b>\$ (1,892,602)</b>	<b>\$ (2,399,932)</b>	<b>\$ (2,495,929)</b>	<b>\$ (2,595,767)</b>	<b>\$ (2,699,597)</b>	<b>\$ (2,807,581)</b>
<b>EBITDA</b>	<b>\$ 654,852</b>	<b>\$ 117,591</b>	<b>\$ 2,376,504</b>	<b>\$ 3,655,818</b>	<b>\$ 3,719,295</b>	<b>\$ 3,785,312</b>	<b>\$ 3,853,970</b>	<b>\$ 3,925,374</b>
Depreciation	\$ (2,487,802)	\$ (3,375,603)	\$ (4,263,405)	\$ (4,263,405)	\$ (4,263,405)	\$ (1,946,528)	\$ (1,229,651)	\$ (512,774)
Amortization	\$ (131,040)	\$ (233,626)	\$ (242,971)	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Earnings Before Interest and Taxes</b>	<b>\$ (1,963,990)</b>	<b>\$ (3,491,638)</b>	<b>\$ (2,129,872)</b>	<b>\$ (607,587)</b>	<b>\$ (544,110)</b>	<b>\$ 1,838,784</b>	<b>\$ 2,624,319</b>	<b>\$ 3,412,600</b>
Interest Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Income Before Taxes</b>	<b>\$ (1,963,990)</b>	<b>\$ (3,491,638)</b>	<b>\$ (2,129,872)</b>	<b>\$ (607,587)</b>	<b>\$ (544,110)</b>	<b>\$ 1,838,784</b>	<b>\$ 2,624,319</b>	<b>\$ 3,412,600</b>
Property Tax	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Income Taxes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Net Income</b>	<b>\$ (1,963,990)</b>	<b>\$ (3,491,638)</b>	<b>\$ (2,129,872)</b>	<b>\$ (607,587)</b>	<b>\$ (544,110)</b>	<b>\$ 1,838,784</b>	<b>\$ 2,624,319</b>	<b>\$ 3,412,600</b>



Retained Earnings	\$ (1,963,990)	\$ (5,455,628)	\$ (7,585,500)	\$ (8,193,087)	\$ (8,737,197)	\$ (6,898,413)	\$ (4,274,093)	\$ (861,493)
<b>Total Equity</b>	\$ 3,587,841	\$ 4,968,136	\$ 3,030,632	\$ 2,423,044	\$ 1,878,935	\$ 3,717,719	\$ 6,342,038	\$ 9,754,639
<b>Total Liabilities and Owner's Equity</b>	\$ 13,251,548	\$ 16,893,052	\$ 19,423,375	\$ 16,772,055	\$ 14,167,234	\$ 13,945,632	\$ 14,509,906	\$ 15,858,134

## Statement of Cash Flows

	Forecast Period							
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
<b>Beginning Cash</b>	\$ -	\$ 257,797	\$ 486,705	\$ 384,572	\$ 1,766,946	\$ 3,303,897	\$ 5,008,491	\$ 6,781,268
<b>CASH FLOWS FROM OPERATING ACTIVITIES:</b>								
Net Income	(1,963,990)	(3,491,638)	(2,129,872)	(607,587)	(544,110)	1,838,784	2,624,319	3,412,600
<i>Adjustments to Reconcile Net Income to Net Cash Provided by Operating Activities</i>								
Add: Depreciation	2,487,802	3,375,603	4,263,405	4,263,405	4,263,405	1,946,528	1,229,651	512,774
Less: Amortized Grant Revenue	(1,011,670)	(1,394,287)	(2,068,872)	(2,068,872)	(2,068,872)	(2,068,872)	(2,068,872)	(2,068,872)
<i>Changes in Current Assets and Liabilities:</i>								
Marketable Securities	-	-	-	-	-	-	-	-
Accounts Receivable	(2,080)	(18,949)	(135,955)	(229,711)	(121,632)	(20,333)	(21,146)	(21,992)
Inventory	-	-	-	-	-	-	-	-
Prepayments	-	-	-	-	-	-	-	-
Other Current Assets	-	-	-	-	-	-	-	-
Accounts Payable	82,082	62,951	33,822	25,139	8,160	8,486	8,826	4,499
Other Current Liabilities	-	-	-	-	-	-	-	-
<b>Net Cash Provided (Used) by Operations</b>	<b>\$ (407,856)</b>	<b>\$ (1,466,320)</b>	<b>\$ (37,471)</b>	<b>\$ 1,382,373</b>	<b>\$ 1,536,951</b>	<b>\$ 1,704,594</b>	<b>\$ 1,772,778</b>	<b>\$ 1,839,009</b>
<b>CASH FLOWS FROM INVESTING ACTIVITIES:</b>								
Capital Expenditures	(15,002,877)	(7,002,877)	(7,002,877)	-	-	-	-	-
Amortizable Asset (Net of Amortization)	-	-	-	-	-	-	-	-
Long-Term Investments	-	-	-	-	-	-	-	-
<b>Net Cash Used by Investing Activities</b>	<b>\$ (15,002,877)</b>	<b>\$ (7,002,877)</b>	<b>\$ (7,002,877)</b>	<b>\$ -</b>				
<b>CASH FLOWS FROM FINANCING ACTIVITIES:</b>								
Notes Receivable	-	-	-	-	-	-	-	-
Notes Payable	-	-	-	-	-	-	-	-
Principal Payments	-	-	-	-	-	-	-	-
New Borrowing	-	-	-	-	-	-	-	-
Proceeds from Grants	10,116,698	3,826,171	6,745,847	-	-	-	-	-
Additional Paid-in Capital	5,551,831	4,871,933	192,368	-	-	-	-	-
Additions to Patronage Capital Credits	-	-	-	-	-	-	-	-
Payment of Dividends	-	-	-	-	-	-	-	-
<b>Net Cash Provided (Used) by Investing Activities</b>	<b>\$ 15,668,529</b>	<b>\$ 8,698,105</b>	<b>\$ 6,938,215</b>	<b>\$ -</b>				
<b>Net Increase (Decrease) in Cash</b>	<b>\$ 257,797</b>	<b>\$ 228,908</b>	<b>\$ (102,132)</b>	<b>\$ 1,382,373</b>	<b>\$ 1,536,951</b>	<b>\$ 1,704,594</b>	<b>\$ 1,772,778</b>	<b>\$ 1,839,009</b>
<b>Ending Cash</b>	<b>\$ 257,797</b>	<b>\$ 486,705</b>	<b>\$ 384,572</b>	<b>\$ 1,766,946</b>	<b>\$ 3,303,897</b>	<b>\$ 5,008,491</b>	<b>\$ 6,781,268</b>	<b>\$ 8,620,278</b>

## NPV/IRR Table

	Net Present Value	Internal Rate of Return
Without BTOP Funding	-\$16,160,725	-5.0%
With BTOP Funding	-\$34,957	14.8%

## **Nevada Hospital Association**

“Nevada Broadband Telemedicine Initiative”

### Clarification of EasyGrants ID Number – Change of Applicant Name

The Applicant’s name for this project was amended during the application process. It is important that the two Easygrant ID #s be combined under the surviving current number.

Initially, Easygrant ID# 6815 was issued to the Nevada Health Facilities Education & Research Foundation. During the application process, it was determined that the was not the proper Applicant.

The Name of the Applicant was changed to the Nevada Hospital Association, and was assigned the Easygrant # 7648.

Please note that both the old Easygrant # 6815, and the current Easygrant # 7648 are for the same project application. It is possible that early letters of support, documentation, and information my have the old number.

## BTOP Comprehensive Community Infrastructure Subscriber Estimates Template

Please complete the complete the Subscriber Estimates worksheet.

All applicants should indicate their 8-year subscriber forecasts with a breakdown by type of subscriber (residential/individual, businesses, community anchor institutions, third party service providers) and service offerings. The names of the service offerings should match those provided in the Service Offering and Competitor Data attachment, enabling reviewers to easily cross-reference between the two documents. The Year 0 column should be used to denote any existing customers within the Proposed Funded Service Area. In addition, applicants that project that they will have third party service provider customers should include a line for parties "Served by Third Party Service Providers," showing an estimate of how many residential/individual, community anchor institution, and business customers will be served by those service providers, as demonstrated in the example below. At the bottom of the table, applicants should provide customer totals across all service offerings, with and without customers indirectly served through a third party service provider (if applicable). Applicants should also include a brief discussion of their methodology for deriving these estimates.

In contrast to several other attachment templates in this application, the data provided via this template will NOT be subject to automated processing. Applicants are permitted to modify the template layout in order to provide the most effective presentation of the data for their specific project, but such modifications are generally discouraged. Applicants should, in any case, ensure that they provide at least as much detail as the provided templates requires. To the extent that you modify these templates, please ensure that the print layouts are adjusted so that rows do not break across pages in a manner that will be difficult to understand. It is recommended that you provide these documents in PDF format when submitting a copy of your application on an appropriate electronic medium, such as a DVD, CD-ROM, or flash drive.

### EXAMPLE

Name of Service Offering	Customer Type	Year 0	Cumulative/ Net Add	Year 1				Year 2			
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
Mega-Metro E - 100 Mbps	Community Anchor Inst.	0	Cumulative	0	0	0	0	5	10	17	26
			Net Add	0	0	0	0	5	5	7	9
	Business	0	Cumulative	0	0	0	0	12	27	52	82
			Net Add	0	0	0	0	12	15	25	30
	Third Party Service Provider	0	Cumulative	0	0	0	0	1	2	4	6
			Net Add	0	0	0	0	1	1	2	2
Served by Third Party Service Providers	Indirect - Res./Ind.	0	Cumulative	0	0	0	0	1000	3000	5000	10000
			Net Add	0	0	0	0	1000	2000	2000	5000
	Indirect - Business	0	Cumulative	0	0	0	0	2	8	18	30
			Net Add	0	0	0	0	2	6	10	12
	Indirect - Com. Anchor Inst.	0	Cumulative	0	0	0	0	0	2	3	5
			Net Add	0	0	0	0	0	2	1	2

### Broadband Subscriber Estimates

Name of Service Offering	Customer Type	Year 0	Cumulative/ Net Add	Year 1				Year 2				Year 3				Year 4	
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
Telemedicine/HIE	Community Anchor Inst.	0	Cumulative	0	0	0	3	5	9	14	20	25	28	34	37	37	37
			Net Add	0	0	0	3	2	4	5	6	5	3	6	3	0	0
Served by Third Party Service Providers	Indirect - Res./Ind.	0	Cumulative	0	0	0	0	0	0	0	0	0	0	2456	3684	4912	
			Net Add	0	0	0	0	0	0	0	0	0	0	1228	1228	1228	
Served by Third Party Service Providers	Indirect - Business	0	Cumulative	0	0	0	0	0	0	0	0	0	0	6	9	12	
			Net Add	0	0	0	0	0	0	0	0	0	0	3	3	3	3
Served by Third Party Service Providers	Indirect - Com. Anchor Inst.	0	Cumulative	0	0	0	0	0	0	0	0	0	0	2	2	2	3
			Net Add	0	0	0	0	0	0	0	0	0	0	2	0	0	1
			Cumulative														
			Net Add														
			Cumulative														
			Net Add														
<b>Cumulative Totals (excluding Indirect)</b>	Residential/Individual		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Business		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Community Anchor Inst.		Total	0	0	0	3	2	4	5	6	5	3	6	3	0	0
	Third Party Service Provider		Total														
<b>Cumulative Totals (including Indirect)</b>	Residential/Individual		Total	0	0	0	0	0	0	0	0	0	0	2456	3684	4912	
	Business		Total	0	0	0	0	0	0	0	0	0	0	6	9	12	
	Community Anchor Inst.		Total	0	0	0	3	5	9	14	20	25	28	36	39	39	40

**Table of Customer Types**

- Residential/Individual
- Business
- Community Anchor Inst.
- Third Party Service Provider
- Indirect - Res./Ind.
- Indirect - Business
- Indirect - Com. Anchor Inst.

**Explanation of Methodology:** In the areas where fiber new build is proposed, the network will sell excess capacity to third party service providers. Third party service providers are anticipated to achieve the absorption levels detailed in the above chart.

Name of Service Offering	Customer Type	Year 4		Year 5				Year 6				Year 7				Year 8		
		Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
Telemedicine/HIE	Community Anchor Inst.	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Served by Third Party Service Providers	Indirect - Res./Ind.	5280	5648	6016	6384	6783	7182	7581	7980	8080	8180	8280	8380	8480	8580	8630	8680	8730
		368	368	368	368	399	399	399	399	100	100	100	100	100	100	50	50	50
Served by Third Party Service Providers	Indirect - Business	14	16	18	20	21	22	23	24	25	26	27	28	29	30	31	32	33
		2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Served by Third Party Service Providers	Indirect - Com. Anchor Inst.	4	4	4	5	5	5	5	6	7	8	8	9	9	9	9	9	9
		1	0	0	1	0	0	0	1	1	1	0	1	0	0	0	0	0
Cumulative Totals (excluding Indirect)	Residential/Individual	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Business	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Community Anchor Inst.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Third Party Service Provider																	
Cumulative Totals (including Indirect)	Residential/Individual	5280	5648	6016	6384	6783	7182	7581	7980	8080	8180	8280	8380	8480	8580	8630	8680	8730
	Business	14	16	18	20	21	22	23	24	25	26	27	28	29	30	31	32	33
	Community Anchor Inst.	41	41	41	42	42	42	42	43	44	45	45	46	46	46	46	46	46

**Table of Customer Types**

Residential/Individual
Business
Community Anchor Inst.
Third Party Service Provider
Indirect - Res./Ind.
Indirect - Business
Indirect - Com. Anchor Inst.

Name of Service Offering	Customer Type	Qtr 4
Telemedicine/HIE	Community Anchor Inst.	37
		0
Served by Third Party Service Providers	Indirect - Res./Ind.	8780
		50
Served by Third Party Service Providers	Indirect - Business	34
		1
Served by Third Party Service Providers	Indirect - Com. Anchor Inst.	9
		0
<b>Cumulative Totals (excluding Indirect)</b>	Residential/Individual	0
	Business	0
	Community Anchor Inst.	0
	Third Party Service Provider	
<b>Cumulative Totals (including Indirect)</b>	Residential/Individual	8780
	Business	34
	Community Anchor Inst.	46

**Table of Customer Types**

Residential/Individual
Business
Community Anchor Inst.
Third Party Service Provider
Indirect - Res./Ind.
Indirect - Business
Indirect - Com. Anchor Inst.

**Section 18.18 Network Maps: Nevada Hospital Association Telemedicine Project: 7648**

**1. Administrative and legal expenses - \$258,125**

Administration support is a part time role over the course of the program to ensure about 40 hours average a week to assist NHA's implementation team with the launch of their new network and services.

DESCRIPTION	Hours	Years	Rate	Total Cost
Admin Design Development	492	3	175	\$258,125

This will be funded with grant funds

**2. Land, structure, rights-of-way, appraisals, etc. - \$25,000**

NHA issued a comprehensive RFP and with the responses from OSP Engineering firms, the services aligned with ROW and structures have been identified and mostly included the construction OSP services (in the construction budget).

In addition, we estimate several thousand dollars for each of our major 6 builds in permits, so we have allocated \$25,000 to this purpose. All ROW fees will be covered under the grant funding.

**3. Relocation expenses and payment - \$0**

In addition, there are no significant Relocation expenses or payment costs with the NHA Network program.

**4) Architectural and engineering fees - \$2,591,513**

The Engineering of Systems and CPE equipment includes Network Design, & Integration, Rack & Stack, and Implementation for seventy eight sites as follows:

**DESCRIPTION OF SKILL LEVEL CHARACTERISTICS:**

**Telecom Technician I (Installer):** Entry-level in the Telecom Technician series. Incumbents at this level perform the less complex equipment installation, cable installation and maintenance, initially under the close supervision of an experienced technician. As experience and knowledge is gained, incumbents are expected to progress to more complex assignments and require less supervision. Incumbents assist journey-level technicians and learn to install, modify and repair network systems and optical transport equipment.

**Telecom Technician II (Lead Installer/Tester):** Working level in the Telecom Technician series and requires substantial experience level proficiency in the full range of activities (including interpreting

drawings and completing systems installations, modifications, maintenance, and repair). Duties include using a wide range of voice, data, and video communications technologies including interpreting specifications and interconnection requirements of new optical transport equipment.

**Telecom Technician III (Supervisor/Detail Engineering):** Advanced experience level in the Telecommunications Technician series of skill sets and knowledge. Incumbents at this level independently perform complex installations of software and hardware, maintenance, diagnoses, and repair of a variety of electronic optical transport equipment in one or more of the following areas: call provisioning, router configurations, messaging, voice IP services, cellular/PBX integration, fiber optics or other network equipment, key system installation, programming, repair, and maintenance.

**2 Datacenters, each with 2 MX960s, 2 SRXs, and 1 STRM (10 devices)**

**14 Regen sites, each with 2 MX240s (28 devices)**

**62 Hospitals, each with 2 EX4200s (124 devices)**

**Transport Systems as found in the detailed cost estimate provided by ADVA.**

**Installation budget estimate for Router and Switch systems and Transport (DWDM) Systems:**

DESCRIPTION	Hours	Years	Rate	Total Cost
Design Engineering Services	2158	2	175	\$755,300
Network Design/Integration Services	3334.5	1	225	\$750,263
System Development	1322	1	225	\$297,450
Installation Test Transport	2454	1	250	\$613,500
Installation & Integration Juniper	1000	1	175	\$175,000
<b>Total</b>				<b>\$ 2,591,513</b>

Prices are based on current information provided by the ALTA/CBTS team on behalf of Nevada Healthcare Networks and may change if the project moves forward. This is only a budget estimate and is not a formal quote. A formal quote will be provided if the Customer decides to select Juniper for the project, and pricing will be reviewed or modified, based on any changes to the project and as additional project details are provided.

Standard R&S services documents are attached to provide the customer with an example of the services provided.

**Professional Services made the following assumptions in preparing this estimate:**

- Rack and Stack of equipment will be conducted at sixty four locations within the state of Nevada.
- This will be a “Greenfield” deployment.
- The work will include basic data center FW configuration.
- VPLS will be configured on the MXs.
- No customized scripting will be done on the STRM.
- Initial requirements gathering will be done onsite, while the remainder of the design, documentation and configuration development will be done remotely. All deployments will be done onsite.
- MX deployments are estimated to take 1 day per site and will be clustered so that Juniper PS can handle 5 sites per week. Hardware deployment will be complete at each site before Juniper goes onsite to configure and implement said equipment.
- MX configurations will be standardized as much as possible.

Funding is from a mix of grant and private match as described in the Detailed Budget.

## **5. Other architectural and engineering fees - \$2,762,850**

The Engineering support of the new Network System elements will require NHA to contract services to address make ready support, Project Management and cover the technical services required to craft the response of the grant application process:

DESCRIPTION	Hours	Years	Rate	Total Cost
Design Make Ready	1440	3	175	\$756,000
Project Management	1060	3	175	\$556,850
Grant Preparation Fee	2000	1	200	\$400,000
EMR Healthcare System PS	6 Segments		175000	\$1,050,000
<b>Total</b>				<b>\$ 2,762,850</b>

The EMR Healthcare System has several elements, one of which is the professional services fees that address supporting up to (6) separate Hospital facilities, through consulting and PS services that help member hospitals integrate their records into the colocated EMR system.

**Funding is from a mix of grant and private match as described in the Detailed Budget.**

## **6. Project inspection fees - \$63,960**

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with Project inspection fees have been estimated and identified in the construction OSP services.

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Inspection Fees		63960	1	\$63,960

**Funded by grant funds.**

## **7. Site work - \$408,975**

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with ROW and structures have been identified below and support the construction OSP services.

**Funded by grant funds.**

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Edge Installation		175	2000	\$350,000
Data Center support LV & Reno		175	337	\$58,975
<b>Total</b>				<b>\$408,975</b>

## 8. Demolition and removal - \$29,750

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with Demolition services have been identified in the construction OSP services. There is very low likelihood that demolition beyond what is projected will be required to support the implementation process for NHA.

**Funded by grant funds.**

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Support of demo in Hospitals		175	170	\$29,750

## 9. Construction - \$9,469,288

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with Construction services have been identified in the construction OSP services portion of the detailed budget.

The detailed phase II studies, and supporting labor, materials and services support have been reviewed by North Sky Communications, A Quanta Services Company and the NHA feels very confident that the estimated project detailed budget will meet the requirements of the construction process for the NHA Network build.

**Funded by grant funds.**

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
S1 Pahrump to Las Vegas		\$1,352,325.52	1	\$1,352,326
S2 Boulder City to Las Vegas		\$429,999.00	1	\$429,999
N4 Carson to Gardnerville		\$210,294.00	1	\$210,294
N5 Gardnerville to Yerington		\$582,742.20	1	\$582,742
Fallon		\$453,516.10	1	\$453,516
Hawthorne		\$250,200.00	1	\$250,200
ELKO - CLNT		\$661,500.00	1	\$661,500
SOUTH Leased Support		\$200,000.00	1	\$200,000
NORTH Leased Support		\$370,000.00	1	\$370,000
S1 Pahrump to Las Vegas		\$649,898.36	1	\$649,898
S2 Boulder City to Las Vegas		\$687,538.00	1	\$687,538
N4 Carson to Gardnerville		\$719,293.00	1	\$719,293
N5 Gardnerville to Yerington		\$847,389.72	1	\$847,390
Fallon		\$632,783.90	1	\$632,784
Hawthorne		\$125,000.00	1	\$125,000
ELKO - CLNT		\$388,500.00	1	\$388,500
S1 Pahrump to Las Vegas		\$395,696.12	1	\$395,696
S2 Boulder City to Las Vegas		\$98,912.22	1	\$98,912

N4 Carson to Gardnerville		\$47,913.00	1	\$47,913
N5 Gardnerville to Yerington		\$153,075.60	1	\$153,076
Fallon		\$232,711.16	1	\$232,711
<b>Total</b>				<b>\$9,469,288</b>

## **10. Equipment - \$12,376,597**

NHA and their technology team issued a comprehensive RFP, and with the responses from several DWDM OEM vendors, Router/Switch companies, and Engineering services firms, aligned with Equipment details to provide a comprehensive detailed estimate, which has been identified in the Equipment portion of the detailed budget.

Any modification in the estimated budget will be addressed with the two OEM vendors recommended for the NHA Network program. The NHA feels very confident that the estimated project detailed budget will meet the requirements of the Network equipment implementation process for the NHA Network build.

Funded as indicated below:

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
SRX3600BASE-AC	Cash Match	\$49,920.00	4	\$199,680
MX960-PREMIUM-AC	Cash Match	\$72,180.00	4	\$288,720
DPCE-R-4XGE-XFP	Cash Match	\$97,600.00	12	\$1,171,200
XFP-10GS	Cash Match	\$11,271.17	48	\$541,016
ADVA FSP3000R7 RN-LV	Cash Match	\$447,330.00	2	\$894,660
ADVA FSP3000R7 RENO SPN	Cash Match	\$316,918.50	2	\$633,837
ADVA FSP3000R7 LAS VEGAS	Cash Match	\$235,780.00	2	\$471,560
STRM2500-A-BSE	Cash Match	\$49,652.00	2	\$99,304
MX240-AC-CDPC-B		74250	28	\$2,079,000
CBL-M-PWR-RA-TWLK-US		6437.25	64	\$411,984
EX4200-48T		13271	124	\$1,645,604
CBL-M-PWR-RA-TWLK-US		7084	48	\$340,032
Healthcare EMR Equipment	Cash Match	\$3,000,000	1	\$3,000,000
Healthcare EMR System	Cash Match	15000	40	\$600,000
<b>Total</b>				<b>\$12,376,597</b>

## **11. Miscellaneous - \$1,635,208**

The EMR Healthcare System and the application software associated with the “system” has several elements, one of which is the software fees that address supporting up to (6) separate Hospital facilities, through liscence agreements and implementation services, the

EMR vendor selected through an RFI/RFP initiate will be selected and final detail pricing would be made available. The pricing provided should support 250+ beds giving interviews with best of class EMR services companies over the past several months.

**Also included here is the eligible lease (first 3 years under BTOP Round 2) of fiber leases (qualify by exceeding 1 year).**

**Funded by Cash Match except fiber lease covered with government funds.**

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Contracts ADVA Electronics	Cash Match	\$547,572.00	1	\$547,572
Contracts Juniper Electronics	Cash Match	\$210,000.00	1	\$210,000
EMR Healthcare System	Cash Match	\$270,000	1	\$270,000
<b>Eligible Leases of Dark Fiber (AFS)</b>	<b>Cash Match</b>	<b>\$607,636</b>	<b>1</b>	<b>\$607,636</b>
<b>Total</b>				<b>\$1,635,208</b>

**ADVA has provided the following cost estimate:**

***Network Element HW/SW***

**Adjusted Price**

FSP3000R7 - Reno-to-Las Vegas Backbone	\$ 894,659.64
FSP3000R7 – Additional Spans	\$ 307,658.07
FSP3000R7 - PRMP-LV-HDRS LAD Spans	\$ 143,898.88
FSP3000R7 - FALLN-to-Reno Spans	\$ 383,697.34
FSP3000R7 – Additional Spans	\$ 250,140.21
Spares	\$ -

**Subtotal** \$ **1,980,054.14**

***Network Management SW***

FSP Network Manager EMS/NMS Software	\$ 20,002.50
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**Subtotal** \$ **20,002.50**

***Installation and Test***

**Adjusted Price**

Engineering, Furnishing And Installation Deployment Turn-Key Service P/N 7011228001	\$ 273,515.37
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**Subtotal** \$ **273,515.37**

***Service/Maintenance***

**Adjusted Price**

5 Year Maintenance, Bronze P/N 7022453001	\$ 547,030.74
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**Subtotal** \$ **547,030.74**

**Slight difference with budget is due to rounding.**

**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.

**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.

## 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)		\$5,057,549		\$5,057,549		\$5,057,549.16	\$5,057,549
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)	\$10,165,884			\$10,165,884		\$10,165,884.28	\$10,165,884
Buildings and Land – (new construction, improvements, renovations, lease)				\$0			\$0
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)	\$4,476,620			\$4,476,620		\$4,476,620.00	\$4,476,620
Billing and Operational Support Systems (IT systems, software, etc.)		\$270,000		\$270,000		\$270,000.00	\$270,000
Operating Equipment (vehicles, office equipment, other)		\$3,000,000		\$3,000,000		\$3,000,000.00	\$3,000,000
Engineering/Professional Services (engineering design, project management, consulting, etc.)	\$4,823,988			\$4,823,988		\$4,823,987.50	\$4,823,988
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)	\$1,138,500	\$600,000		\$1,738,500		\$1,738,500.00	\$1,738,500
Site Preparation	\$88,725			\$88,725		\$88,725.00	\$88,725
Other				\$0			\$0
<b>TOTAL BROADBAND SYSTEM:</b>	<b>\$20,693,717</b>	<b>\$8,927,549</b>	<b>\$0</b>	<b>\$29,621,266</b>	<b>\$0</b>	<b>\$29,621,266</b>	<b>\$29,621,266</b>
<b>Cost Share Percentage:</b>	<b>69.86%</b>	<b>30.14%</b>	<b>0.00%</b>				

## 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

SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In-kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPMENT</b>					<b>\$5,057,549</b>	<b>\$0</b>	<b>\$5,057,549</b>	<b>\$5,057,549</b>		
<b>Switching</b>	SRX3600BASE-AC	Cash Match	\$49,920	4	\$199,680		\$199,680	\$199,680	10. Equipment	
								\$0		
					\$0			\$0		
<b>Routing</b>	MX960-PREMIUM-AC	Cash Match	\$72,180	4	\$288,720		\$288,720	\$288,720	10. Equipment	
	DPCE-R-4XGE-XFP	Cash Match	\$97,600	12	\$1,171,200		\$1,171,200	\$1,171,200	10. Equipment	
	XFP-10GS	Cash Match	\$11,271	48	\$541,016		\$541,016	\$541,016	10. Equipment	
<b>Transport</b>	ADVA FSP3000R7 RN-LV	Cash Match	\$447,330	2	\$894,660		\$894,660	\$894,660	10. Equipment	
	ADVA FSP3000R7 RENO SPN	Cash Match	\$316,919	2	\$633,837		\$633,837	\$633,837	10. Equipment	
	ADVA FSP3000R7 LAS VEGAS	Cash Match	\$235,780	2	\$471,560		\$471,560	\$471,560	10. Equipment	
<b>Access</b>	STRM2500-A-BSE	Cash Match	\$49,652	2	\$99,304		\$99,304	\$99,304	10. Equipment	
								\$0		
					\$0			\$0		
<b>Other</b>	Contracts ADVA Electronics	Cash Match	\$547,572	1	\$547,572		\$547,572	\$547,572	11. Misc.	
	Contracts Juniper Electronics	Cash Match	\$210,000	1	\$210,000		\$210,000	\$210,000	11. Misc.	
					\$0			\$0		
<b>OUTSIDE PLANT</b>					<b>\$10,165,884</b>	<b>\$0</b>	<b>\$10,165,884</b>	<b>\$10,165,884</b>		
<b>Cables</b>	S1 Pahrump to Las Vegas		\$1,352,326	1	\$1,352,326		\$1,352,326	\$1,352,326	9. Construction	
	S2 Boulder City to Las Vegas		\$429,999	1	\$429,999		\$429,999	\$429,999	9. Construction	
	N4 Carson to Gardnerville		\$210,294	1	\$210,294		\$210,294	\$210,294	9. Construction	
	N5 Gardnerville to Yerington		\$582,742	1	\$582,742		\$582,742	\$582,742	9. Construction	
	Fallon		\$453,516	1	\$453,516		\$453,516	\$453,516	9. Construction	
	Hawthorne		\$250,200	1	\$250,200		\$250,200	\$250,200	9. Construction	
	ELKO - CLNT		\$661,500	1	\$661,500		\$661,500	\$661,500	9. Construction	
	SOUTH Leased Support		\$200,000	1	\$200,000		\$200,000	\$200,000	9. Construction	
	NORTH Leased Support		\$370,000	1	\$370,000		\$370,000	\$370,000	9. Construction	
<b>Conduits</b>	S1 Pahrump to Las Vegas		\$649,898	1	\$649,898		\$649,898	\$649,898	9. Construction	
	S2 Boulder City to Las Vegas		\$687,538	1	\$687,538		\$687,538	\$687,538	9. Construction	
	N4 Carson to Gardnerville		\$719,293	1	\$719,293		\$719,293	\$719,293	9. Construction	
	N5 Gardnerville to Yerington		\$847,390	1	\$847,390		\$847,390	\$847,390	9. Construction	
	Fallon		\$632,784	1	\$632,784		\$632,784	\$632,784	9. Construction	
	Hawthorne		\$125,000	1	\$125,000		\$125,000	\$125,000	9. Construction	
	ELKO - CLNT		\$388,500	1	\$388,500		\$388,500	\$388,500	9. Construction	
					\$0			\$0		
					\$0			\$0		
<b>Ducts</b>	Eligible Leases of Dark Fiber (from AFS)		\$607,636	1	\$607,636		\$607,636	\$607,636	11. Misc.	
					\$0			\$0		
					\$0			\$0		
<b>Poles/Materials</b>	S1 Pahrump to Las Vegas		\$375,696	1	\$375,696		\$375,696	\$375,696	9. Construction	
	S2 Boulder City to Las Vegas		\$98,912	1	\$98,912		\$98,912	\$98,912	9. Construction	
	N4 Carson to Gardnerville		\$47,913	1	\$47,913		\$47,913	\$47,913	9. Construction	
	N5 Gardnerville to Yerington		\$153,076	1	\$153,076		\$153,076	\$153,076	9. Construction	
	Fallon		\$232,711	1	\$232,711		\$232,711	\$232,711	9. Construction	
					\$0			\$0		
<b>Towers</b>					\$0			\$0		
					\$0			\$0		

					\$0			\$0	
<b>Repeaters</b>					\$0			\$0	
					\$0			\$0	
					\$0			\$0	
<b>Other</b>	Inspection Fees		\$63,961	1	\$63,961	\$63,961	\$63,961	6. Inspection fees	
	Right-of-Ways		\$25,000	1	\$25,000	\$25,000	\$25,000	2. Land, structures	
					\$0		\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
<b>BUILDINGS</b>					<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		
<b>New Construction</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Pre-Fab Huts</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Improvements &amp;</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>CUSTOMER PREMISE EQUIPMENT</b>					<b>\$4,476,620</b>	<b>\$0</b>	<b>\$4,476,620</b>	<b>\$4,476,620</b>		
<b>Modems</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Routers/Switch</b>	MX240-AC-CDPC-B		\$74,250	28	\$2,079,000		\$2,079,000	\$2,079,000	10. Equipment	
	CBL-M-PWR-RA-TWLK-US		\$6,437	64	\$411,984		\$411,984	\$411,984	10. Equipment	
	EX4200-48T		\$13,271	124	\$1,645,604		\$1,645,604	\$1,645,604	10. Equipment	
	CBL-M-PWR-RA-TWLK-US		\$7,084	48	\$340,032		\$340,032	\$340,032	10. Equipment	
<b>Inside Writing</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b>					<b>\$270,000</b>	<b>\$0</b>	<b>\$270,000</b>	<b>\$270,000</b>		
<b>Billing Support</b>	Billing System	Cash Match	\$270,000	1	\$270,000		\$270,000	\$270,000	11. Misc.	
					\$0			\$0		
					\$0			\$0		
<b>Customer Care</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other Support</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		

COMMON		Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
<b>OPERATING EQUIPMENT</b>					<b>\$3,000,000</b>	<b>\$0</b>	<b>\$3,000,000</b>	<b>\$3,000,000</b>		
<b>Vehicles</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Office Equipment /</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Other</b>	EMR Healthcare System	Cash Match	\$500,000	6	\$3,000,000		\$3,000,000	\$3,000,000	10. Equipment	
					\$0			\$0		
					\$0			\$0		
<b>PROFESSIONAL SERVICES</b>					<b>\$4,823,988</b>	<b>\$0</b>	<b>\$4,823,988</b>	<b>\$4,823,988</b>		
<b>Engineering</b>	Design Engineering Services		\$175	4316	\$755,300		\$755,300	\$755,300	4. Architectural and engr.	
	Design Make Ready		\$175	4320	\$756,000		\$756,000	\$756,000	5. Other archit. and engr.	
	Network Design/Integration Services		\$225	3334.5	\$750,263		\$750,263	\$750,263	4. Architectural and engr.	
<b>Project</b>	Project Management		\$175	3182	\$556,850		\$556,850	\$556,850	5. Other archit. and engr.	
	System Development		\$225	1322	\$297,450		\$297,450	\$297,450	4. Architectural and engr.	
					\$0			\$0		
<b>Consulting</b>	Grant Preparation Fee		\$200	2000	\$400,000		\$400,000	\$400,000	5. Other archit. and engr.	
	Admin Design Development		\$175	1475	\$258,125		\$258,125	\$258,125	1. Admin and Legal	
	EMR Healthcare System PS		\$175,000	6	\$1,050,000		\$1,050,000	\$1,050,000	5. Other archit. and engr.	
<b>Other</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>TESTING</b>					<b>\$1,738,500</b>	<b>\$0</b>	<b>\$1,738,500</b>	<b>\$1,738,500</b>		
<b>Network</b>	Installation Test Transport		\$250	2454	\$613,500		\$613,500	\$613,500	4. Architectural and engr.	
					\$0			\$0		
					\$0			\$0		
<b>IT System</b>	Installation & Integration Juniper		\$175	1000	\$175,000		\$175,000	\$175,000	4. Architectural and engr.	
	Edge Installation		\$175	2000	\$350,000		\$350,000	\$350,000	7. Site work	
					\$0			\$0		
<b>User Devices</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Test Generators</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Lab</b>					\$0			\$0		
					\$0			\$0		
					\$0			\$0		
<b>Servers/Computer</b>	Healthcare EMR System	Cash Match	\$15,000	40	\$600,000		\$600,000	\$600,000	10. Equipment	
					\$0			\$0		
					\$0			\$0		

COMMON	Match	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget	Support of Reasonableness
<b>OTHER UPFRONT COSTS</b>				<b>\$88,725</b>	<b>\$0</b>	<b>\$88,725</b>	<b>\$88,725</b>		
Site		\$175	170	\$29,750		\$29,750	\$29,750	8. Demolition/removal	
		\$175	337	\$58,975		\$58,975	\$58,975	7. Site work	
				\$0			\$0		
Other				\$0			\$0		
				\$0			\$0		
				\$0			\$0		
<b>PROJECT TOTAL:</b>				<b>\$29,621,266</b>	<b>\$0</b>	<b>\$29,621,266</b>	<b>\$29,621,266</b>		

**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	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
2. Land, structures, rights-of-way, appraisals, etc.	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
3. Relocation expenses and payments	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
4. Architectural and engineering fees	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
5. Other architectural and engineering fees	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
6. Project inspection fees	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
7. Site work	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
8. Demolition and removal	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
9. Construction	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
10. Equipment	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
11. Miscellaneous	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
12. SUBTOTAL (sum of lines 1- 11)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
13. Contingencies	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
14. SUBTOTAL	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
15. Project (program) income	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
<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"/> % Enter the resulting Federal share.			\$ <input type="text"/>

## **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 service 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 end user speeds. Average speeds should be the average sustained actual, non-burst speed 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 the 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 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 area in which the listed services are available. Please ensure that the Service Area names are consistent with those provided within the application and the Service Areas attachment. If the actual availability of the listed services is limited (*e.g.* the service is only available within a particular Last Mile or Middle Mile Service Area), note this in the Other Comments column.

In contrast to several other attachment templates in this application, the data provided via this template will NOT be subject to automated processing. These templates worksheets are provided to demonstrate the level of data required and to provide a suggested format. Applicants are permitted 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 data as these templates require. To the extent that you modify these templates please ensure that the print layouts are adjusted so that rows do not break across pages in a manner that will be difficult to understand. It is recommended that you provide these documents in PDF format when submitting a copy of your application on an appropriate electronic medium, such as a DVD, ROM, or flash drive.

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## Proposed Middle Mile Service Offerings

Name of Service Offering	Distance Band or Point to Point	Minimum Peak Load Network Bandwidth Capacity (Mbps)	Monthly/Yearly Pricing (\$)	Other Comments/Description/Features or Limitations
Telemedicine/HIE	Point to Point	Each new fiber optic build would allow each hospital 40 Mbps of BW capacity	\$1,000 - \$5,000/Month	<p>Nevada Broadband Telemedicine Initiative is proposing to only build new fiber routes in areas where access to fiber facilities are not existent/adequate. NVHA has designed and plans to light dark fiber and build the additional transport backbone High Speed Ethernet circuits to the designated communities located throughout the North and Southern Nevada locations.</p> <p>The network will utilize existing backbone capacity from Nevada Net and also ANTC microwave network to provide an efficient and effective use of CAPEX funds. The network will be managed by NVHA under Contract to a existing network operator organization. The network relationships with key personnel will allow NVHA to ensure stable and reliable operations based on SLA contracts. NVHA will offer Broadband network access to their member Hospitals ensuring secure and reliable network operations including QoS.</p> <p>Pricing based on individual hospitals specific service offering.</p>

<p>Third Party Service Providers Wholesale</p>	<p>Point to Point</p>	<p>Each new fiber optic build would allow each hospital 40 Mbps of BW capacity, plus additional capacity would be available for wholesale use to private and public use as determined by the NVHA business model.</p>	<p>\$35,000/month for each town where new fiber builds are proposed.</p>	<p>Average price per region. Assumes each town takes on average 500Mbps to a 1G and each pays \$5000/ 100Mgbp</p>
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## Competitor Data

### Competitor Data - Last Mile Service Providers

Service Provider	Service Areas Where Service Available	Technology Platform	Service Tiers	Downstream Speed (Maximum Speeds)	Monthly Pricing	Other Comments/Description/Features or Limitations
High Desert Internet Services (wireless)	Fernley Yerington Wabuska Carson City Mason Valley Smith Valley-Wellington	Wireless	Residential/Business	768k	\$49.95	
			Residential/Business	1.2m	\$74.95	Speeds not adequate for Service Level Agreements
			Business	T-1	\$300.00	
Highlands Wireless	VC Highlands Dayton Moundhouse Yerington Mason Valley Smith Valley	Wireless		128k	\$39.95	
			Residential	1024k	\$59.95	Speeds not adequate for Service Level Agreements
				2048k	\$69.95	
Oasis Online	Fallon	DSL				
			Residential	Service speeds not listed on website	\$49.95	No speed data published
Reliance Connects	Mesquite	DSL	Residential	3.0m	\$47.95	
			Residential/Business	6.0m	\$54.95	Speeds not adequate for Service Level Agreements
Baja Broadband	Mesquite	DSL	Residential	3.0m	\$35.75	
			Residential/Business	6.0m	\$43.79	Limited Fiber infrastructure and legacy DSL only
Air-Internet.com, inc	Pahrump	Wireless/Dial-up	Residential	Speeds not advertised	\$39.95	
			Residential	Speeds not advertised	\$45.95	
			Business	Speeds not advertised	\$45.95	No qualifying Service
			Business	Speeds not advertised	\$74.95	
			Business	Speeds not advertised	\$99.95	
CMA Communications	Pahrump Laughlin Searchlight	DOCSIS	Residential	4.0m	\$44.45	
			Residential/Business	5.0m	\$81.95	Limited Fiber infrastructure Speeds not adequate for required Service Level Agreements
Hughes Net	Battle Mountain Boulder City Carson City Gardnerville Pahrump Winnemucca Lovelock	Wireless	Residential	1.0m	\$69.98	
			Residential/Business	1.2m	\$79.98	Speeds not adequate for Service Level Agreements
			Residential/Business	1.6m	\$89.98	
			Residential/Business	2.0m	\$129.98	
			Residential/Business	3.0m	\$199.98	
mFire	Battle Mountain Boulder City Carson City Gardnerville Pahrump Winnemucca Lovelock	Dial-up	Residential/ Business	56k	\$19.95	Speeds not adequate for Service Level Agreements
			Residential/Business	3m	\$63.95	
			Residential/Business	3m	\$69.95	

Lincoln County Telephone	Lincoln County	DSL	Residential/Business	6m	\$78.95	Last Mile Covage will be leased/utilized as needed
			Residential/Business	6m	\$82.95	
			Business	50m	\$193.95	
Moapa Valley Telephone	Moapa Valley Echo Bay Lake Mead Logandale Glendale Overton Beach Overton Stewarts Point	DSL				Outside of NHA network footprint
			Residential/Business	1.5m	\$37.95	
			Residential/Business	5.0m	\$45.95	Last Mile Covage will be leased/utilized as needed
			Residential/Business	10.0m	\$59.95	
			Business	5m/2m	\$59.95	
Cheetah Wireless Technologies	Encinitas Pomona Primm Las Vegas	WIFI	Residential	512k	\$29.99-\$39.99	Speeds not adequate for Service Level Agreements
Great Basin Internet Services	Reno	DSL	Residential	768k	\$14.95	Last Mile Covage will be leased/utilized as needed
			Residential	1.5m	\$29.95	
			Residential	1.5 - 3m	\$69.95	
			Residential/Business	3 - 6m	\$89.95	
			Business	T-1	\$149.95	
			Business	T-1	\$749.95	
ACI, Inc.	Incline Village Reno Spark Carson City	DSL	Residential	384k	\$49.95	Last Mile Covage will be leased/utilized as needed
			Residential	1.0m	\$69.95	
			Residential/Business	1.5 - 6.0m	\$149.95	
			Residential/Business	4.0 - 6.0m	\$199.95	
			Business	T-1	\$295.00	
			Business	T-1	\$1,200.00	
Avant Wireless	Reno Washoe Valley Spanish Springs Palomino Valley Pleasant Valley Stead Airport	wireless	Residential	1.128k	\$45.95	No qualifying Service
			residential/business	1.1m	\$80.00	
			residential/business	2.2m	\$125.00	
			business	3.2m	Price not published	
Rural Telephone Company	North Fork Tuscarora	DSL	Residential	512k	\$49.95	Speeds not adequate for Service Level Agreements
			Residential	1m	\$69.95	
			Residential	2m	\$89.95	
			Business	512k	\$69.95	
			Business	1m	\$89.95	
			Business	2m	\$179.95	
Schatnet Internet	Topaz Lake	Wireless & DSL	Residential	1.0m	\$59.95	Speeds not adequate for Service Level Agreements
			Business	768/768k	\$99.95	
			Residential	768K	\$24.95	
			Residential	1.5m	\$39.95	
			Business	768k	\$69.95	
			Business	1.5m	\$79.95	
			Business	7.1m	\$229.99	
SpeediWiFi	Silver Springs Stage Coach	WIFI				Speeds not adequate for Service Level Agreements
			Residential/Business	Service speeds not listed on website	\$34.00	
Sierra Internet Services	Las Vegas	DSL	Residential	512k	\$49.95	Last Mile Covage will be leased/utilized as needed
			Residential	1.5m	\$105.95	
			Business	640k	\$156.95	
			Business	3m	\$219.95	
Sparkplug, Inc		Wireless	Business	8m		Not in Footprint
			Business	10m	Prices not listed on website	
			Business	15m		
Mt. Wheeler Power	Eureka Currant McGill Baker Goshute	DSL	Residential/Business	1.5m	\$27.95	Speeds not adequate for Service Level Agreements
			Residential/Business	3.0m	\$36.95	
High Speed Networks-Mound House	Virginia City Washoe Valley Carson City to Silver Springs	DSL	Residential	384k	\$39.95	Speeds not adequate for Service Level Agreements
			Residential	768k	\$59.95	
			Residential	1.5m	\$69.95	

Comnett Computer Services	Overton	Wireless & DSL		1m	\$29.95	Wireless
			Residential	512k	\$38.95	Speeds not adequate for Service Level Agreements
			Residential	1.0m	\$41.95	Not in NHA footprint
			Residential/Business	1.5m	\$44.95	
Bluebird Communications	Nellis Airforce Base	DSL	Residential	4.0m	\$39.95	
			Residential	8.0m	\$59.95	
			Business	8.0m	\$94.95	Not in NHA serving territory
			Business	5.0m	\$69.95	
Pyramid Net	Reno Carson	DSL	Residential	1.5m		
			Residential/Business	1.5-3m	Prices not listed on website	Speeds not adequate for Service Level Agreements
			Residential/Business	3m-6m		
Vegaswifi Communications	Las Vegas	WIFI	Residential	512k	\$33.95	Speeds not adequate for Service Level Agreements
			Residential	3m	\$43.95	
			Business	512k	\$43.95	
Covad Wireless	Las Vegas	WiMax	Business	768k - 6.0m		
			Business	10-45.0m	Price not published	Speeds not adequate for Service Level Agreements
Beehive Telephone Co	Burbank Woodhills Estates Pilot Valley & Oasis Pleasant Valley	DSL	Residential	768k	\$29.95	
			Business	1024k	\$49.95	Last Mile Coverage will be leased/utilized as needed
			Business	1024k	\$49.95	
Satview Broadband	Yerrington	DSL	Residential/ Business	Speeds not advertised	Price not advertised	Last Mile Coverage will be leased/utilized as needed
T-Mobile USA, Inc	Service throughout select areas of NV	3G WI-FI	Residential/Business	3G WI-FI	\$39.99	Speeds not adequate for Service Level Agreements
		Dial-up	Residential	56k	\$22.95	
AT&T Nevada	Service throughout select areas of NV	Wi-Fi	Residential	3G	\$60.00	Last Mile Coverage will be leased/utilized as needed
		T-1	business	T1	\$740.00 - \$2,419.00	
CenturyLink	Service throughout select areas of NV	ADSL	Residential	768k	\$29.95	
			Residential	1.5m	\$34.95	
			Residential	3.0m	\$39.95	
			Residential	5.0m	\$49.95	
			Residential	10.0m	\$45.95	Last Mile Coverage will be leased/utilized as needed
			Business	768K	\$29.95	
			Business	1.5m	\$39.95	
			Business	3.0m	\$49.95	
			Business	5.0m	\$59.95	
Charter Communications	Service throughout select areas of NV	DOCSIS HFC RF	Residential	1.0m	\$19.99	
			Residential	8.0m	\$29.99	Last Mile Coverage will be leased/utilized as needed
			residential/business	16.0m	\$39.99	
			residential/business	25.0m	\$54.99	
KeyOn Communications	Service throughout select areas of NV	Fixed Wireless	Residential/Business	Speeds not advertised	Price not advertised	Speeds not adequate for Service Level Agreements
Cogent Communications	Service throughout select areas of NV	Ethernet P-o-P	Business	Speeds not advertised	Price not advertised	Last Mile Coverage will be leased/utilized as needed
CC Communications (Churchill County)	Fallon	DSL	Residential/Business	2.0m	\$37.45	
			Residential/Business	4.0m	\$52.45	Speeds not adequate for Service Level Agreements
			Residential/Business	6.0m	\$72.45	Limite Fiber Infrastructure
Verizon Wireless	Henderson Las Vegas Paradise Reno Spring Valley Sunrise Manor	EVDO Rev. A	Residential/Business	1.4m	\$39.99 - \$59.99	Speeds not adequate for Service Level Agreements
			Residential	1.0m	\$22.99	
			Residential	3.0m	\$32.99	

Cox Communications	Service throughout select areas of NV	DOCSIS HFC RF	Residential	10.0m	\$46.99	Last Mile Covage will be leased/utilized as needed
			Residential	15.0m	\$59.99	
			Residential/Business	50.0m	\$119.99	
The-OnRamp.Net	Winnemucca Pagasus Mine Paradise Valley	Wireless	Residential	64k	\$35.00	Speeds not adequate for Service Level Agreements
			Residential	128k	\$45.00	
		Dial-up	Residential	385k	\$55.00	
			Residential/Business		\$79 - \$264	
Verizon California	Gardnerville Topaz Lake Yerrington Smith Valley Glenbroke	DSL	Residential/Business	1.0m	\$19.99	Speeds not adequate for Service Level Agreements
			residential/business	3.0m	\$29.99	Advertised Speeds available in limited areas of advertised regions

Competitor Data - Middle Mile Service Providers

Service Provider	Service Areas Where Service Available	Technology Platform	Service Tiers	Distance Band or Point-to-Point	Minimum Peak Load Network Bandwidth Capacity	Pricing
Arizona Nevada Tower	Coaldale Junction, Springdale, Coba Mtn Site, Lida Junction, Scotty's Junction, Sawtooth, Cold Creek, Kinkaid, Booker Mt, Pioche, Pahroc, Goldfield, Beatty Township, Sodaville, Lower Apex, Hidden Valley, Coyote Springs, Alamo Tower, Burnt Springs, Caliente, Highland Peak, Mt. Schader, North Shore, Pahrangat, Hiko, Palm Gardens, Walker Lake, Luning	Microwave Transmission Links	None. All services are managed End to End.	Point-to-Point	Leased MW Circuits would be authorized up to 40 Mbps for each Hospital facility Use.	\$3,000/month budgeted for our lease capacity requirements
NevadaNet	SCS Reno, to SCS Elko, to SCS Las Vegas	Terrestrial T-1	None. All services are managed End to End.	Point-to-Point	1.544 Mbps	Private Network controlled by NV System of Higher Education. No retail pricing.
American Fiber Systems (AFS)	Reno, Las Vegas, Carson City	DS3 to OC192, Virtual Private Lines (VPL) and Virtual Local Area Networks (VLAN). Optical Ethernet: 10Mb to 1Gb.	None. All services are managed End to End.	Point-to-Point	Leased MM Circuits would be authorized up to 40 Mbps for each Hospital facility Use.	\$15,000/month budgeted for our lease capacity requirements
XO	Las Vegas	DS1 to OC192, Private Lines, VPL, VLAN, LAN/MAN/WAN networks to 10GB, Voice trunks and VoIP/SIP services	None. All services are managed End to End.	Point-to-Point	Leased MM Circuits would be authorized up to 40 Mbps for each Hospital facility Use.	Not Publically Advertised - Individual Case Basis
Cox Communications	Amargosa Valley, Boulder City, Henderson, Las Vegas, Laughlin, Mesquite, Nellis AFB, North Las Vegas, Pahrump, Searchlight	DS0 to OC192, Private Lines, VPL, VLAN, LAN/MAN/WAN networks to 10GB, Voice trunks and VoIP/SIP services	None. All services are managed End to End.	In Footprint, Meshed or Point to Point	Leased MM Circuits would be authorized up to 40 Mbps for each Hospital facility Use.	Not Publically Advertised - Individual Case Basis

Century Link	Las Vegas, North Las Vegas, henderson, Boulder City, Laughlin.	ATM, Frame Relay, MPLS VPN, Ethernet	None. All services are managed End to End.	Point-to-Point	Leased MM Circuits would be authorized up to 40 Mbps for each Hospital facility Use.	Not Publically Advertised - Individual Case Basis
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Other Comments/Description/Features or Limitations
<p>Nevada Broadband Telemedicine Initiative is proposing to only build new fiber routes in areas where access to fiber facilities are not existent/adequate. Nevada Broadband Telemedicine Initiative will utilize existing backbone capacity where sufficient service/bandwidth is available.</p>
<p>Nevada Broadband Telemedicine Initiative is proposing to only build new fiber routes in areas where access to fiber facilities are not existent/adequate. Founded to provide high-speed telecom infrastructure for research and use by higher education within the State of Nevada. Use of the NevadaNet network by for-profit entities or non-profit entities whose purpose is not in direct support of the State of Nevada or Nevada System of Higher Education mission is strictly prohibited.</p>
<p>Nevada Broadband Telemedicine Initiative is proposing to only build new fiber routes in areas where access to fiber facilities are not existent/adequate. Nevada Broadband Telemedicine Initiative will utilize existing backbone capacity where sufficient service/bandwidth is available.</p>
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Nevada Broadband Telemedicine Initiative is proposing to only build new fiber routes in areas where access to fiber facilities are not existent/adequate. Nevada Broadband Telemedicine Initiative will utilize existing backbone capacity where sufficient service/bandwidth is available.



March 23, 2010

Mr. Bill Welch  
President & Chief Executive Officer  
Nevada Hospital Association  
5250 Neil Road, Suite 302  
Reno NV 89502

Re: Nevada Broadband Telemedicine Initiative (EZ grant ID 6815)

Dear Bill:

As a member hospital of the Nevada Hospital Association (NHA), please accept this letter of support and endorsement for NHA to participate in filing an application for federal stimulus funds to assist in implementing the Nevada Broadband Telemedicine Initiative.

Our hospital is an important contributor to our community's health care needs. As such, we believe a secure, NHA-owned, high-bandwidth fiber network will improve the quality of health care for Nevadans in many ways:

Health Information Exchange - The network will facilitate the Health Information Exchange, allowing the exchange of Electronic Health Records. Dedicated connections will ensure patient privacy and sufficient bandwidth will allow uninterrupted exchange of patient data between providers from different locations. We expect this will improve quality of care, efficiency and care coordination by allowing greater access to specialties and utilization of resources.

Meaningful Use of Electronic Health Records - Given the mandate from the Centers for Medicare and Medicaid Services regarding Medicare and Medicaid incentives for "meaningful use" of EHR, this network will support Nevada's health care providers to become qualified as "meaningful users" of certified EHR technology.

Telemedicine - We expect this will improve both quality and productivity by giving providers access to up-to-date patient information, and therefore, more accurate medical records. This will reduce redundant screenings and diagnostic testing and improve the delivery of health care services, including medication management.

For these reasons, we are pleased the NHA Board of Directors voted to approve the recommendations of the NHA Broadband Subcommittee and NHA Policy Development Committee to proceed with the grant application.

Please accept our commitment to support the Nevada Hospital Association's Broadband Telemedicine Initiative application. We look forward to working with NHA in deploying the proposed network.

Sincerely,

Walter Beck, CEO  
Banner Churchill Community Hospital

## 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.

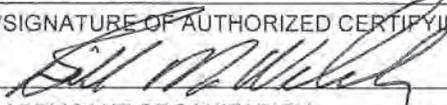
**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**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 PRESIDENT / CEO
*APPLICANT ORGANIZATION 	*DATE SUBMITTED March 26, 2010

## Comprehensive Community Infrastructure Key Metrics Dashboard

Please refer to the CCI Grant Guidelines for instructions on completing this form.

Applicant Profile	
Applicant Name	Nevada Hospital Association
Title	Nevada Broadband Telemedicine Initiative
Easygrants ID	7648
Headquarters	<b>State of Nevada</b>
Size (2009 Data) of Applicant Entity	<ul style="list-style-type: none"> <li>• Current Year Revenues: \$2,881,412</li> <li>• Employees: 11</li> </ul>
Technology Type	
Key Partners	<b>Nevada Rural Hospital Partners, University Medical Center, Nevada Indian Health Board, Nevada System of Higher Education, Axia NetMedia Inc.</b>

Project Economics			
Budget Information		Project Financials	
Project Budget	<b>See Financials</b>	Project Revenues (Yr 8)	<b>See Financials</b>
Federal Contribution (%)	<b>See Financials</b>	Net Income and Margin (Yr 8)	<b>See Financials</b>
Cash Match Amount (%)	<b>See Financials</b>	EBITDA and Margin (Yr 8)	<b>See Financials</b>
In Kind Match Amount (%)	<b>See Financials</b>	Rate of Return (w/o BTOP Funds)	<b>See Financials</b>
Middle Mile/Last Mile Budget Allocation		Rate of Return (w/ BTOP Funds)	<b>See Financials</b>
Middle Mile Percentage (%)	<b>See Financials</b>	Cost Efficiency	
Last Mile Percentage (%)	<b>See Financials</b>	Cost per Mile (MM)	<b>See Financials</b>
Rural Last Mile Percentage	<b>See Financials</b>	Cost per Household (LM)	<b>See Financials</b>

Market Territory	
Geographic Area(s)	
Middle Mile Network Composition	
Total Proposed Network Miles (MM only)	<ul style="list-style-type: none"> <li>• Total Miles: See Network Diagram</li> <li>• Backbone Miles: See Network Diagram</li> <li>• Lateral Miles: See Network Diagram</li> </ul>
New Construction Network Miles (MM only)	<ul style="list-style-type: none"> <li>• Total Miles: See Network Diagram</li> <li>• Backbone Miles: See Network Diagram</li> <li>• Lateral Miles: See Network Diagram</li> </ul>
Existing Applicant Network Miles Utilized (MM only)	<ul style="list-style-type: none"> <li>• Total Miles: See Network Diagram</li> <li>• Backbone Miles: See Network Diagram</li> <li>• Lateral Miles: See Network Diagram</li> </ul>
Leased Network Miles Utilized (MM only)	<ul style="list-style-type: none"> <li>• Total Miles: See Network Diagram</li> <li>• Backbone Miles: See Network Diagram</li> <li>• Lateral Miles: See Network Diagram</li> </ul>
Underserved/Unserved	<ul style="list-style-type: none"> <li>• Percentage of Backbone Miles in Underserved/Unserved Areas:</li> <li>• Percentage of Lateral Miles in Underserved/Unserved Areas:</li> </ul>

## Comprehensive Community Infrastructure Key Metrics Dashboard

Existing Customer Base	
Existing Residential/Individual Customers within PFSA	<b>0</b>
Existing Business Customers within PFSA	<b>0</b>
Existing Community Anchor Institution Customers within PFSA	<ul style="list-style-type: none"> <li>• Total CAI's: 37</li> <li>• Community Colleges: 0</li> <li>• Public Safety Entities: 0</li> </ul>
Existing Third Party Service Provider Customers within PFSA	<b>0</b>
Potential Customer Base	
Market Potential Households (within PFSA)	<ul style="list-style-type: none"> <li>• Total HH's: 0</li> <li>• Located in Underserved/Unserved Areas: 0</li> </ul>
Market Potential Businesses (within PFSA)	<ul style="list-style-type: none"> <li>• Total Businesses: 0</li> <li>• Located in Underserved/Unserved Areas: 0</li> </ul>
Market Potential Community Anchor Institutions (within PFSA)	<ul style="list-style-type: none"> <li>• Total CAI's: 37</li> <li>• Located in Underserved/Unserved Areas: 6</li> <li>• Community Colleges: 0</li> <li>• Public Safety Entities: 0</li> </ul>
Market Potential Third Party Service Providers (within PFSA)	<ul style="list-style-type: none"> <li>• Total Third Party Service Providers in PFSA: 5</li> <li>• Expressing Commitment or Letter of Interest: YES</li> </ul>
Funded Network Coverage	
Households Connected to Network (via BTOP Funds by end of Year 3)	<ul style="list-style-type: none"> <li>• Total Households Connected: <b>0</b></li> <li>• Located in Underserved/Unserved Areas: 0</li> </ul>
Businesses Connected to Network (via BTOP Funds by end of Year 3)	<ul style="list-style-type: none"> <li>• Total Businesses Connected: 0</li> <li>• Located in Underserved/Unserved Areas: <b>0</b></li> </ul>
Community Anchor Institutions Directly Connected (via BTOP Funds by end of Year 3)	<ul style="list-style-type: none"> <li>• Total Directly Connected CAI's: 37</li> <li>• Located in Underserved/Unserved Areas: <b>6</b></li> <li>• Community Colleges: 0</li> <li>• Public Safety Entities: 0</li> </ul>
Projected Subscribers by Year Five	<p><b><u>Directly Served by Applicant</u></b></p> <ul style="list-style-type: none"> <li>• Community Anchor Institutions: 37</li> <li>• Households: 0</li> <li>• Businesses: 0</li> <li>• Third Party Service Providers: <b>5</b></li> </ul> <p><b><u>Served by Proposed Network Via Third Party Service Provider</u></b></p> <ul style="list-style-type: none"> <li>• Community Anchor Institutions: 37</li> <li>• Households: 0</li> <li>• Businesses: 0</li> </ul>

## Comprehensive Community Infrastructure Key Metrics Dashboard

Other	
Proposed MM Network Capacity	<ul style="list-style-type: none"> <li>• Backbone: 10 Gigabit</li> <li>• Laterals: 40-100 Megabits</li> </ul>
Proposed LM Network Speed	<ul style="list-style-type: none"> <li>• Highest offered speed tier:</li> <li>• Estimated Average speed for highest speed tier:</li> </ul>
Total Points of Interconnection	<ul style="list-style-type: none"> <li>• Total Pol's: 5</li> <li>• Pol's in Underserved/Unserved Areas: 3</li> <li>• Environmentally-controlled, non-passive Pols: 5</li> </ul>
Jobs Created	<ul style="list-style-type: none"> <li>• <b>Direct Job-years: 103</b></li> <li>• <b>Indirect Job-years: 103</b></li> <li>• <b>Induced Job-years: 116</b></li> </ul>
Required Time for Project Completion (Number of Required Quarters to Fully Build-out and Test Network and Make Ready for Commercial Service)	<b>12 Quarters</b>

**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	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
2. Land, structures, rights-of-way, appraisals, etc.	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
3. Relocation expenses and payments	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
4. Architectural and engineering fees	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
5. Other architectural and engineering fees	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
6. Project inspection fees	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
7. Site work	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
8. Demolition and removal	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
9. Construction	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
10. Equipment	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
11. Miscellaneous	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
12. SUBTOTAL (sum of lines 1- 11)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
13. Contingencies	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
14. SUBTOTAL	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
15. Project (program) income	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
<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"/> % Enter the resulting Federal share.			\$ <input type="text"/>

## **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.

## 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)		\$5,057,550		\$5,057,550		\$5,057,549.71	\$5,057,550
Outside Plant (cables, conduits, ducts, poles, towers, repeaters, etc.)	\$10,165,884			\$10,165,884		\$10,165,884.34	\$10,165,884
Buildings and Land – (new construction, improvements, renovations, lease)				\$0			\$0
Customer Premise Equipment (modems, set-top boxes, inside wiring, etc.)	\$4,476,620			\$4,476,620		\$4,476,620.12	\$4,476,620
Billing and Operational Support Systems (IT systems, software, etc.)		\$270,000		\$270,000		\$270,000.00	\$270,000
Operating Equipment (vehicles, office equipment, other)				\$0		\$0.00	\$0
Engineering/Professional Services (engineering design, project management, consulting, etc.)	\$3,773,988			\$3,773,988		\$3,773,987.50	\$3,773,988
Testing (network elements, IT system elements, user devices, test generators, lab furnishings, servers/computers, etc.)	\$1,138,500			\$1,138,500		\$1,138,500.00	\$1,138,500
Site Preparation	\$88,725			\$88,725		\$88,725.00	\$88,725
Other				\$0			\$0
<b>TOTAL BROADBAND SYSTEM:</b>	<b>\$19,643,717</b>	<b>\$5,327,550</b>	<b>\$0</b>	<b>\$24,971,267</b>	<b>\$0</b>	<b>\$24,971,267</b>	<b>\$24,971,267</b>
<b>Cost Share Percentage:</b>	<b>78.67%</b>	<b>21.33%</b>	<b>0.00%</b>				

**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

SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash-kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>NETWORK &amp; ACCESS EQUIPMENT</b>					<b>\$5,057,550</b>	<b>\$0</b>	<b>\$5,057,550</b>	<b>\$5,057,550</b>		
<b>Switching</b>	SRX3600BASE-AC	Cash Match	\$16,800.00	4	\$67,200.00		\$67,200.00	\$67,200.00	10. Equipment	SRX 3600 Chassis, Midplane, Fan, RE, SFB-12GE, 2xAC PEM - no power cords - no SPC - no NPC
	SRX3K-SPC-1-10-40	Cash Match	\$12,000.00	4	\$48,000.00		\$48,000.00	\$48,000.00	10. Equipment	Services Processing Card for SRX 3000, Single Processor, 1Ghz, 4GB Memory/CPU
	SRX3K-NPC	Cash Match	\$7,200.00	4	\$28,800.00		\$28,800.00	\$28,800.00	10. Equipment	Network Processing Card for SRX 3000
	SRX-SFP-1GE-SX	Cash Match	\$300.00	4	\$1,200.00		\$1,200.00	\$1,200.00	10. Equipment	Small Form Factor Pluggable 1000Base-SX Gigabit Ethernet Optic Module
	CBL-PWR-C19S-151-US15	Cash Match	\$45.00	8	\$360.00		\$360.00	\$360.00	10. Equipment	Power Cord, AC, Japan/US, NEMA 5-15 to C19 at 70-80mm, 15A/125V, 2.5m, Straight
<b>Routing</b>	MX960-PREMIUM-AC	Cash Match	\$66,000.00	4	\$264,000.00		\$264,000.00	\$264,000.00	10. Equipment	Base system with redundant RE-2000, SCB, and power
	CBL-M-PWR-RA-TWLK-US	Cash Match	\$45.00	16	\$720.00		\$720.00	\$720.00	10. Equipment	AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle
	DPCE-R-4XGE-XFP	Cash Match	\$59,700.06	12	\$716,400.72		\$716,400.72	\$716,400.72	10. Equipment	4x10GE Enhanced DPC for MX, requires optics sold separately
	DPCE-R-40GE-TX	Cash Match	\$48,000.00	4	\$192,000.00		\$192,000.00	\$192,000.00	10. Equipment	40 Port 10/100/1000 RJ-45 DPC with L2+L3 Features.
	DPCE-R-40GE-SFP	Cash Match	\$72,000.00	4	\$288,000.00		\$288,000.00	\$288,000.00	10. Equipment	40x1GE Enhanced DPC for MX, requires optics sold separately
	XFP-10GS	Cash Match	\$1,800.00	48	\$86,400.00		\$86,400.00	\$86,400.00	10. Equipment	10GE pluggable transceiver, 850nm for 300m transmission
	SFP-1GE-LX	Cash Match	\$597.00	48	\$28,656.00		\$28,656.00	\$28,656.00	10. Equipment	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module
<b>Transport</b>	ADVA FSP3000R7 RN-LV	Cash Match	\$447,330.00	2	\$894,660.00		\$894,660.00	\$894,660.00	10. Equipment	DWDM Long Haul Backbone Fiber Optic Transport System for Dark Fiber Route
	ADVA FSP3000R7 RENO SPN	Cash Match	\$316,918.50	2	\$633,837.00		\$633,837.00	\$633,837.00	10. Equipment	DWDM Middle Mile Fiber Optic Transport System
	ADVA FSP3000R7 LAS VEGAS	Cash Match	\$235,780.00	2	\$471,560.00		\$471,560.00	\$471,560.00	10. Equipment	DWDM Middle Mile Fiber Optic Transport System
<b>Access</b>	STRM2500-A-BSE	Cash Match	\$4,200.00	2	\$8,400.00		\$8,400.00	\$8,400.00	10. Equipment	STRM 2500 Base HW Appliance
	STRM2500-ADD-1250E	Cash Match	\$15,000.00	2	\$30,000.00		\$30,000.00	\$30,000.00	10. Equipment	STRM in a All in One architecture. License to upgrade additional EPS=1250 only . Requires STRM2500-ADD-1250E25KF
	SVC-3-ND-STRM2500-BSE	Cash Match	\$570.40	10	\$5,704.00		\$5,704.00	\$5,704.00	10. Equipment	J-Care Agility NextDay Support for STRM2500-A-BSE - 5YR
	SVC-COR-S2500-A-1250E	Cash Match	\$5,520.00	10	\$55,200.00		\$55,200.00	\$55,200.00	10. Equipment	J-Care Core Support for STRM2500 Add 1250 EPS. Requires Add 1250 EPS and 25K Flows - 5YR
	SVC-ND-SRX3600	Cash Match	\$1,320.00	20	\$26,400.00		\$26,400.00	\$26,400.00	10. Equipment	J-Care NextDay Support for SRX3600 Chassis (includes PS, SCB, RE)
	SVC-ND-MX960	Cash Match	\$3,956.20	20	\$79,120.00		\$79,120.00	\$79,120.00	10. Equipment	J-Care NextDay Support for MX960 Chassis (includes RE/SCB/PWR/JUNOS) - 5YR
	SVC-ND-SRX3-NPC	Cash Match	\$474.00	20	\$9,480.00		\$9,480.00	\$9,480.00	10. Equipment	J-Care NextDay Support for SRX3-NPC Line Card - 5YR
	SVC-ND-SRX3-SPC	Cash Match	\$852.00	20	\$17,040.00		\$17,040.00	\$17,040.00	10. Equipment	J-Care NextDay Support for SRX3-SPC Line Card - 5YR
	SVC-ND-MX-DPC-R	Cash Match	\$3,468.40	100	\$346,839.50		\$346,839.50	\$346,839.50	10. Equipment	J-Care NextDay Support for MX DPC-R Line Card - 5YR
					\$0.00		\$0.00	\$0.00		
<b>Other</b>	Contracts ADVA Electronics	Cash Match	\$547,572.49	1	\$547,572.49		\$547,572.49	\$547,572.49	11. Misc.	5 - Year ADVA Maintenance Extended under Bronze Package
	JUNOS	Cash Match	\$6,000.00	35	\$210,000.00		\$210,000.00	\$210,000.00	11. Misc.	JUNOS Internet Software US Domestic Version (Not for Export)
<b>OUTSIDE PLANT</b>					<b>\$10,165,884</b>	<b>\$0</b>	<b>\$10,165,884</b>	<b>\$10,165,884</b>		
<b>Cables</b>	<b>S1 Pahrump to Las Vegas</b>									Fiber installation, including labor, materials and machinery to deploy fiber along the proposed route
	Direction Drill 1.5" Conduit		\$ 27.49	23,324	\$641,177		\$641,176.76	\$641,177	9. Construction	FT
	Place 19" Equipment Rack		\$ 250.00	4	\$1,000		\$1,000.00	\$1,000	9. Construction	EA
	Place 2448 Vault		\$ 675.00	50	\$33,750		\$33,750.00	\$33,750	9. Construction	EA
	Pull Fiber Cable in New Conduit		\$ 1.01	122,000	\$123,220		\$123,220.00	\$123,220	9. Construction	FT
	Remove & Replace Asphalt - 4"		\$ 12.81	3,332	\$42,686		\$42,686.25	\$42,686	9. Construction	SQ.FT.
	Remove & Replace Concrete - 6"		\$ 17.00	1,660	\$28,220		\$28,220.00	\$28,220	9. Construction	SQ.FT.
	Terminate Fiber		\$ 38.40	120	\$4,608		\$4,608.00	\$4,608	9. Construction	EA
	Fusion Splice Fiber		\$ 33.60	912	\$30,643		\$30,643.20	\$30,643	9. Construction	EA
	Place Splice Case		\$ 318.00	19	\$6,042		\$6,042.00	\$6,042	9. Construction	EA
	Test Fiber Cable		\$ 26.42	72	\$1,902		\$1,901.88	\$1,902	9. Construction	EA
	Core Drill 2" Building Entrance		\$ 720.00	4	\$2,880		\$2,880.00	\$2,880	9. Construction	EA
	Place 1" Plenum Conduit		\$ 5.40	800	\$4,320		\$4,320.00	\$4,320	9. Construction	FT
	Place Fiber Marker		\$ 38.40	116	\$4,454		\$4,454.40	\$4,454	9. Construction	EA
	Provide & Place Select Fill		\$ 35.00	55	\$1,925		\$1,925.00	\$1,925	9. Construction	TN
	Engineering/Design/Environmental		\$ 1.27	333,200	\$421,498		\$421,498.00	\$421,498	9. Construction	FT
	Building Entrance Survey		\$ 1,000.00	4	\$4,000		\$4,000.00	\$4,000	9. Construction	EA
					\$0		\$0	\$0		
	<b>S2 Boulder City to Las Vegas</b>									
	Direction Drill 1.5" Conduit		\$ 27.49	5,577	\$153,312		\$153,311.73	\$153,312	9. Construction	FT
	Place 2448 Vault		\$ 675.00	43	\$29,025		\$29,025.00	\$29,025	9. Construction	EA
	Pull Fiber Cable in New Conduit		\$ 1.01	43,999	\$44,438		\$44,438.49	\$44,438	9. Construction	FT
	Remove & Replace Asphalt - 4"		\$ 12.81	4,000	\$51,244		\$51,244.00	\$51,244	9. Construction	SQ.FT.
	Remove & Replace Concrete - 6"		\$ 17.00	7,500	\$127,500		\$127,500.00	\$127,500	9. Construction	SQ.FT.
	Terminate Fiber		\$ 38.40	72	\$2,765		\$2,764.80	\$2,765	9. Construction	EA
	Fusion Splice Fiber		\$ 33.60	192	\$6,451		\$6,451.20	\$6,451	9. Construction	EA
	Place Splice Case		\$ 318.00	7	\$2,226		\$2,226.00	\$2,226	9. Construction	EA
	Test Fiber Cable		\$ 26.42	72	\$1,902		\$1,901.88	\$1,902	9. Construction	EA
	Core Drill 2" Building Entrance		\$ 720.00	3	\$2,160		\$2,160.00	\$2,160	9. Construction	EA
	Place 1" Plenum Conduit		\$ 5.40	600	\$3,240		\$3,240.00	\$3,240	9. Construction	FT
	Place Fiber Marker		\$ 38.40	40	\$1,536		\$1,536.00	\$1,536	9. Construction	EA
	Provide & Place Select Fill		\$ 35.00	120	\$4,200		\$4,200.00	\$4,200	9. Construction	TN
	<b>N4 Carson to Gardnerville</b>		\$210,294.00	1	\$210,294.00		\$210,294.00	\$210,294.00	9. Construction	Fiber installation, including labor, materials and machinery to deploy fiber along the proposed route
	<b>N5 Gardnerville to Yerington</b>		\$582,742.20	1	\$582,742.20		\$582,742.20	\$582,742.20	9. Construction	Fiber installation, including labor, materials and machinery to deploy fiber along the proposed route
	<b>Fallon</b>		\$453,516.10	1	\$453,516.10		\$453,516.10	\$453,516.10	9. Construction	Fiber installation, including labor, materials and machinery to deploy fiber along the proposed route
	<b>Hawthorne</b>		\$250,200.00	1	\$250,200.00		\$250,200.00	\$250,200.00	9. Construction	Fiber installation, including labor, materials and machinery to deploy fiber along the proposed route
	<b>ELKO - CLNT</b>		\$661,500.00	1	\$661,500.00		\$661,500.00	\$661,500.00	9. Construction	Fiber installation, including labor, materials and machinery to deploy fiber along the proposed route
	<b>SOUTH Leased Support</b>		\$200,000.00	1	\$200,000.00		\$200,000.00	\$200,000.00	9. Construction	Dark Fiber lease as provided by AFS to support Reno to Las Vegas backbone fiber spans
	<b>NORTH Leased Support</b>		\$370,000.00	1	\$370,000.00		\$370,000.00	\$370,000.00	9. Construction	Contracted services to provide connections in the Reno to Las Vegas area
					\$0		\$0	\$0		
<b>Conduits</b>	<b>S1 Pahrump to Las Vegas</b>			1			\$0.00	\$0.00	9. Construction	Contracted services to provide connections in the Reno to Las Vegas area

	Plow & Place 1.5" Conduit		\$ 1.81	81,634	\$147,758		\$147,757.54	\$147,758	9. Construction	FT
	Trench - Rock & Place 1.5" Conduit		\$ 20.00	11,662	\$233,240		\$233,240.00	\$233,240	9. Construction	FT
	Conduit 1.5" SDR 13.5		\$ 0.27	119,000	\$32,130		\$32,130.00	\$32,130	9. Construction	FT
	Vault - 2448 (H20 Loading)		\$ 395.01	30	\$11,850		\$11,850.30	\$11,850	9. Construction	EA
	Vault - 2448 (H35 Loading)		\$ 545.00	20	\$10,900		\$10,900.00	\$10,900	9. Construction	EA
	1" Plenum Conduit (inc. hardware)		\$ 2.20	800	\$1,760		\$1,760.00	\$1,760	9. Construction	FT
	FOSC 450C Splice Case		\$ 490.00	19	\$9,310		\$9,310.00	\$9,310	9. Construction	EA
	48 Port Rack Mount Patch Panel		\$ 820.00	1	\$820		\$820.00	\$820	9. Construction	EA
	12 Port Rack Mount Patch Panel		\$ 306.01	3	\$918		\$918.03	\$918	9. Construction	EA
	48 Fiber ADSS All Dielectric SM Fiber		\$ 0.23	232,980	\$53,585		\$53,585.40	\$53,585	9. Construction	FT
	48 Fiber All Dielectric SM Fiber		\$ 0.20	92,000	\$18,400		\$18,400.00	\$18,400	9. Construction	FT
	12 Fiber All Dielectric SM Fiber		\$ 0.19	30,000	\$5,700		\$5,700.00	\$5,700	9. Construction	FT
	Fiberlign Medium Tension DE		\$ 47.50	492	\$23,370		\$23,370.00	\$23,370	9. Construction	EA
	Fiberlign Dielectric Suspension		\$ 68.30	246	\$16,802		\$16,801.80	\$16,802	9. Construction	EA
	Fiberlign Dielectric Support		\$ 28.00	738	\$20,664		\$20,664.00	\$20,664	9. Construction	EA
	Fiber Storage Loop (snowshoe)		\$ 240.00	82	\$19,680		\$19,680.00	\$19,680	9. Construction	EA
	Fiberlign Spiral Damper		\$ 5.86	1,732	\$10,150		\$10,149.52	\$10,150	9. Construction	EA
	Pole Line Hardware (bolts, washers, etc.)		\$ 0.08	216,580	\$16,244		\$16,243.50	\$16,244	9. Construction	FT
	Fiber Markers (every 1,000ft)		\$ 23.75	116	\$2,755		\$2,755.00	\$2,755	9. Construction	EA
	Fiber Tags		\$ 0.85	1,200	\$1,020		\$1,020.00	\$1,020	9. Construction	EA
	Anchor/Guy Assemblies		\$ 62.65	205	\$12,843		\$12,843.25	\$12,843	9. Construction	EA
					\$0		\$0			
	<b>S2 Boulder City to Las Vegas</b>									Conduit and duct fees and materials to provide attachment and fiber installation
	Conduit 1.5" SDR 13.5		\$ 0.27	42,000	\$11,340		\$11,340.00	\$11,340	9. Construction	FT
	Vault - 2448 (H20 Loading)		\$ 395.15	13	\$5,137		\$5,136.95	\$5,137	9. Construction	EA
	Vault - 2448 (H35 Loading)		\$ 545.00	30	\$16,350		\$16,350.00	\$16,350	9. Construction	EA
	1" Plenum Conduit (inc. hardware)		\$ 2.20	600	\$1,320		\$1,320.00	\$1,320	9. Construction	FT
	FOSC 450C Splice Case		\$ 490.00	7	\$3,430		\$3,430.00	\$3,430	9. Construction	EA
	48 Port Rack Mount Patch Panel		\$ 820.10	1	\$820		\$820.10	\$820	9. Construction	EA
	12 Port Rack Mount Patch Panel		\$ 306.01	2	\$612		\$612.02	\$612	9. Construction	EA
	48 Fiber ADSS All Dielectric SM Fiber		\$ 0.23	30,000	\$6,900		\$6,900.00	\$6,900	9. Construction	FT
	48 Fiber All Dielectric SM Fiber		\$ 0.20	33,000	\$6,600		\$6,600.00	\$6,600	9. Construction	FT
	12 Fiber All Dielectric SM Fiber		\$ 0.19	12,000	\$2,280		\$2,280.00	\$2,280	9. Construction	FT
	Fiberlign Medium Tension DE		\$ 47.50	60	\$2,850		\$2,850.00	\$2,850	9. Construction	EA
	Fiberlign Dielectric Suspension		\$ 68.30	30	\$2,049		\$2,049.00	\$2,049	9. Construction	EA
	Fiberlign Dielectric Support		\$ 28.00	90	\$2,520		\$2,520.00	\$2,520	9. Construction	EA
	Fiber Storage Loop (snowshoe)		\$ 240.00	10	\$2,400		\$2,400.00	\$2,400	9. Construction	EA
	Fiberlign Spiral Damper		\$ 5.86	352	\$2,063		\$2,062.72	\$2,063	9. Construction	EA
	Pole Line Hardware (bolts, washers, etc.)		\$ 0.08	26,400	\$1,980		\$1,980.00	\$1,980	9. Construction	FT
	Fiber Markers (every 1,000ft)		\$ 23.75	40	\$950		\$950.00	\$950	9. Construction	EA
	Fiber Tags		\$ 0.85	300	\$255		\$255.00	\$255	9. Construction	EA
	Anchor/Guy Assemblies		\$ 62.65	20	\$1,253		\$1,253.00	\$1,253	9. Construction	EA
	Trench & Place 1.5" Conduit		\$ 40.68	7,920	\$158,400		\$158,400.00	\$158,400	9. Construction	FT
	Trench - Rock & Place 1.5" Conduit		\$ 20.00	13,860	\$277,200		\$277,200.00	\$277,200	9. Construction	FT
	Direction Drill 1.5" Conduit		\$ 27.49	6,578	\$180,829		\$180,829.22	\$180,829	9. Construction	FT
					\$0		\$0			
	<b>N4 Carson to Gardnerville</b>		\$719,293.00	1	\$719,293.00		\$719,293.00	\$719,293.00	9. Construction	Conduit and duct fees and materials to provide attachment and fiber installation
	<b>N5 Gardnerville to Yerington</b>		\$847,389.72	1	\$847,389.72		\$847,389.72	\$847,389.72	9. Construction	Conduit and duct fees and materials to provide attachment and fiber installation
	<b>Fallon</b>		\$632,783.90	1	\$632,783.90		\$632,783.90	\$632,783.90	9. Construction	Conduit and duct fees and materials to provide attachment and fiber installation
	<b>Hawthorne</b>		\$125,000.00	1	\$125,000.00		\$125,000.00	\$125,000.00	9. Construction	Conduit and duct fees and materials to provide attachment and fiber installation
	<b>ELKO - CLNT</b>		\$388,500.00	1	\$388,500.00		\$388,500.00	\$388,500.00	9. Construction	Conduit and duct fees and materials to provide attachment and fiber installation
					\$0.00		\$0.00			
<b>Ducts</b>	Eligible Leases of Dark Fiber (from AFS)		\$607,636.00	1	\$607,636.00		\$607,636.00	\$607,636.00	11. Misc.	Dark Fiber lease as provided by AFS to support Reno to Las Vegas backbone fiber spans
					\$0.00		\$0.00			
					\$0.00		\$0.00			
<b>Poles/Materials</b>	<b>S1 Pahrump to Las Vegas</b>		\$375,696.00	1	\$375,696.00		\$375,696.00	\$375,696.00	9. Construction	Make ready service fees and materials to provide attachment and fiber installation
	<b>S2 Boulder City to Las Vegas</b>		\$98,912.22	1	\$98,912.22		\$98,912.22	\$98,912.22	9. Construction	Make ready service fees and materials to provide attachment and fiber installation
	<b>N4 Carson to Gardnerville</b>		\$47,913.00	1	\$47,913.00		\$47,913.00	\$47,913.00	9. Construction	Make ready service fees and materials to provide attachment and fiber installation
	<b>N5 Gardnerville to Yerington</b>		\$153,075.60	1	\$153,075.60		\$153,075.60	\$153,075.60	9. Construction	Make ready service fees and materials to provide attachment and fiber installation
	<b>Fallon</b>		\$232,711.16	1	\$232,711.16		\$232,711.16	\$232,711.16	9. Construction	Make ready service fees and materials to provide attachment and fiber installation
					\$0.00		\$0.00			
<b>Towers</b>					\$0.00		\$0.00			
					\$0.00		\$0.00			
					\$0.00		\$0.00			
<b>Repeaters</b>					\$0.00		\$0.00			
					\$0.00		\$0.00			
					\$0.00		\$0.00			
<b>Other</b>	Inspection Fees		\$63,960.50	1	\$63,960.50		\$63,960.50	\$63,960.50	6. Inspection fees	Inspection services fees necessary to complete permits
	Right-of-Ways		\$25,000.00	1	\$25,000.00		\$25,000.00	\$25,000.00	2. Land, structures	Right of Way services fees necessary to complete permits
					\$0.00		\$0.00			

SERVICE AREA or COMMON NETWORK FACILITIES:		Match (Cash/In-kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>BUILDINGS</b>					\$0	\$0	\$0	\$0		
<b>New Construction</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Pre-Fab Huts</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Improvements &amp;</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Other</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>CUSTOMER PREMISE EQUIPMENT</b>					\$4,476,620	\$0	\$4,476,620	\$4,476,620		
<b>Modems</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Routers/Switch</b>	MX240-AC-CDPC-B		\$68,236.29	28	\$1,910,616.12		\$1,910,616.12	\$1,910,616.12	10. Equipment	MX240BASE-AC-HIGH with redundant Power, and DPCE-R-20GE-2XGE
	CBL-M-PWR-RA-TWLK-US		\$45.00	112	\$5,040.00		\$5,040.00	\$5,040.00	10. Equipment	AC Power Cord, US (NEMA LOCKING), C19, 20A/250V, 2.5m, Right Angle
	XFP-10GS		\$1,800.00	94	\$169,200.00		\$169,200.00	\$169,200.00	10. Equipment	10GE pluggable transceiver, 850nm for 300m transmission
	SFP-1GE-LX		\$597.00	360	\$214,920.00		\$214,920.00	\$214,920.00	10. Equipment	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optic Module
	EX4200-48T		\$9,936.00	124	\$1,232,064.00		\$1,232,064.00	\$1,232,064.00	10. Equipment	EX 4200, 48-port 10/100/1000BaseT (8-ports PoE) + 320W AC PS, includes 50cm VC cable
	EX-UM-4SFP		\$460.00	148	\$68,080.00		\$68,080.00	\$68,080.00	10. Equipment	EX 4200 and EX 3200 4-Port 1G SFP Uplink Module (optics sold separately)
	EX-SFP-1GE-LX		\$920.00	148	\$136,160.00		\$136,160.00	\$136,160.00	10. Equipment	Small Form Factor Pluggable 1000Base-LX Gigabit Ethernet Optics
<b>Inside Wiring</b>										
<b>Other</b>	SVC-ND-EX4200-48T		\$391.00	620	\$242,420.00		\$242,420.00	\$242,420.00	10. Equipment	J-Care NextDay Support for EX 4200-48T
	SVC-ND-MX240		\$2,262.00	140	\$316,680.00		\$316,680.00	\$316,680.00	10. Equipment	J-Care NextDay Support for MX240 Chassis (includes RE/SCB/PWR/JUNOS) - 5YR
	SVC-ND-MX-DPCE-R-2XGE		\$1,296.00	140	\$181,440.00		\$181,440.00	\$181,440.00	10. Equipment	J-Care NextDay Support for MX DPCE-R-2XGE 20G Line Card - 5YR
<b>BILLING SUPPORT AND OPERATIONS SUPPORT SYSTEMS</b>					\$270,000	\$0	\$270,000	\$270,000		
<b>Billing Support</b>	Billing System	Cash Match	\$270,000.00	1	\$270,000.00		\$270,000.00	\$270,000.00	11. Misc.	Implementation of software application and hardware system to support new NHA billing system
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Customer Care</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Other Support</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		

COMMON		Match (Cash in	Unit Cost	No. of	Total Cost	Last Mile	Middle Mile	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>OPERATING EQUIPMENT</b>					\$0	\$0	\$0	\$0		
<b>Vehicles</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Office Equipment /</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Other</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>PROFESSIONAL SERVICES</b>					\$3,773,988	\$0	\$3,773,988	\$3,773,988		
<b>Engineering</b>	Design Engineering Services		\$175.00	4316	\$755,300.00		\$755,300.00	\$755,300.00	4. Architectural and engr.	Network Design and OSP Engineering services
	Design Make Ready		\$175.00	4320	\$756,000.00		\$756,000.00	\$756,000.00	5. Other archit. and engr.	OSP preparation and engineering support field services
	Network Design/Integration Services		\$225.00	3334.5	\$750,262.50		\$750,262.50	\$750,262.50	4. Architectural and engr.	Network Integration engineering services
<b>Project</b>	Project Management		\$175.00	3162	\$556,850.00		\$556,850.00	\$556,850.00	5. Other archit. and engr.	Design and Field Services Project Management
	System Development		\$225.00	1322	\$297,450.00		\$297,450.00	\$297,450.00	4. Architectural and engr.	System Engineering services to ensure complete network turn-up and acceptance
					\$0.00			\$0.00		
<b>Consulting</b>	Grant Preparation Fee		\$200.00	2000	\$400,000.00		\$400,000.00	\$400,000.00	5. Other archit. and engr.	Contracted services fees for TBG, ALTA TELECOM and R&R Partners Consulting Time and Materials
	Admin Design Development		\$175.00	1475	\$258,125.00		\$258,125.00	\$258,125.00	1. Admin and Legal	Administration and Records/Database preparation and coordination
					\$0.00			\$0.00		
<b>Other</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>TESTING</b>					\$1,138,500	\$0	\$1,138,500	\$1,138,500		
<b>Network</b>	Installation Test Transport		\$250.00	2454	\$613,500.00		\$613,500.00	\$613,500.00	4. Architectural and engr.	Includes Fiber Char, EF&I for the ADVA equipment for the FSP 3000 and Commissioning / Provisioning
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>IT System</b>	Installation & Integration Juniper		\$175.00	1000	\$175,000.00		\$175,000.00	\$175,000.00	4. Architectural and engr.	Installation, test and turn-up including EF&I to support core locations
	Edge Installation		\$175.00	2000	\$350,000.00		\$350,000.00	\$350,000.00	7. Site work	Installation, test and turn-up including EF&I to support edge locations
					\$0.00			\$0.00		
<b>User Devices</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Test Generators</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Lab</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>Servers/Computers</b>					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		

COMMON NETWORK FACILITIES:		Match (Cash/In-kind)	Unit Cost	No. of Units	Total Cost	Last Mile Allocation	Middle Mile Allocation	Allocated Total	SF-424C Budget Category	Support of Reasonableness
<b>OTHER UPFRONT COSTS</b>					<b>\$88,725</b>	<b>\$0</b>	<b>\$88,725</b>	<b>\$88,725</b>		
Site	Demolition and removal services		\$175.00	170	\$29,750.00		\$29,750.00	\$29,750.00	8. Demolition/removal	Cleanup and removal of any existing equipment or system elements in NHA network locations
	Site readiness preparation services		\$175.00	337	\$58,975.00		\$58,975.00	\$58,975.00	7. Site work	Site prep for existing equipment or system elements in NHA network locations
					\$0.00			\$0.00		
Other					\$0.00			\$0.00		
					\$0.00			\$0.00		
					\$0.00			\$0.00		
<b>PROJECT TOTAL:</b>					<b>\$24,971,267</b>	<b>\$0</b>	<b>\$24,971,267</b>	<b>\$24,971,267</b>		

SF-424C Cross-check Totals	
1. Admin and Legal	\$258,125
2. Land, structures	\$25,000
3. Relocation expenses	\$0
4. Architectural and engr.	\$2,991,513
5. Other archit. and engr.	\$1,712,850
6. Inspection fees	\$63,961
7. Site work	\$408,975
8. Demolition/removal	\$29,750
9. Construction	\$9,469,288
10. Equipment	\$8,776,597
11. Misc.	\$1,635,208

Matching Contribution Cross-check Totals	
Federal Funding Request	\$19,643,717
Cash Match Contribution	\$5,327,550
In-kind Match Contribution	\$0

**Approach to allocating Last Mile and Middle Mile costs:**  
This is an exclusively Middle Mile project. 100% of costs allocated to Middle Mile.

### CERTIFICATION REGARDING LOBBYING LOWER TIER COVERED TRANSACTIONS

Applicants should review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying."

#### LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

#### Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

**As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.**

NAME OF APPLICANT

Nevada Hospital Association

AWARD NUMBER AND/OR PROJECT NAME

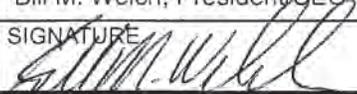
Easygrants ID 7648

PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

Bill M. Welch, President/CEO

5/24/2010

SIGNATURE



DATE

### CERTIFICATION REGARDING LOBBYING

Applicants should also review the instructions for certification included in the regulations before completing this form. Signature on this form provides for compliance with certification requirements under 15 CFR Part 28, "New Restrictions on Lobbying." The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of Commerce determines to award the covered transaction, grant, or cooperative agreement.

#### LOBBYING

As required by Section 1352, Title 31 of the U.S. Code, and implemented at 15 CFR Part 28, for persons entering into a grant, cooperative agreement or contract over \$100,000 or a loan or loan guarantee over \$150,000 as defined at 15 CFR Part 28, Sections 28.105 and 28.110, the applicant certifies that to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

#### Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

In any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure occurring on or before October 23, 1996, and of not less than \$11,000 and not more than \$110,000 for each such failure occurring after October 23, 1996.

**As the duly authorized representative of the applicant, I hereby certify that the applicant will comply with the above applicable certification.**

NAME OF APPLICANT

Nevada Hospital Association

AWARD NUMBER AND/OR PROJECT NAME

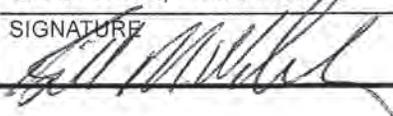
Easygrants ID 7648

PRINTED NAME AND TITLE OF AUTHORIZED REPRESENTATIVE

Bill M. Welch, President/CEO

5/24/2010

SIGNATURE



DATE

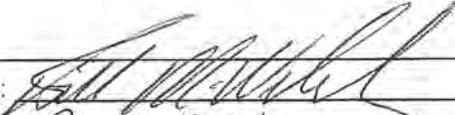
## DISCLOSURE OF LOBBYING ACTIVITIES

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352

(See reverse for public burden disclosure.)

Approved by OMB

0348-0046

<b>1. Type of Federal Action:</b> <input checked="" type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance	<b>2. Status of Federal Action:</b> <input checked="" type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award	<b>3. Report Type:</b> <input checked="" type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change <b>For Material Change Only:</b> year _____ quarter _____ date of last report _____
<b>4. Name and Address of Reporting Entity:</b> <input checked="" type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: Nevada Hospital Association 5250 Neil Road, Suite 302 Reno, NV 89502  Congressional District, if known: 4c	<b>5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:</b>   Congressional District, if known:	
<b>6. Federal Department/Agency:</b>	<b>7. Federal Program Name/Description:</b>  CFDA Number, if applicable: _____	
<b>8. Federal Action Number, if known:</b>	<b>9. Award Amount, if known:</b> \$ _____	
<b>10. a. Name and Address of Lobbying Registrant</b> (if individual, last name, first name, MI):	<b>b. Individuals Performing Services</b> (including address if different from No. 10a) (last name, first name, MI):	
<b>11.</b> Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.	Signature:  Print Name: <u>Bill M. Welch</u> Title: <u>President/CEO</u> Telephone No.: <u>775-827-0184</u> Date: <u>5/24/2010</u>	
<b>Federal Use Only:</b>		Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)



# Comprehensive Community Infrastructure Budget Narrative Template

**Applicant Name: Nevada Hospital Association**

**EasyGrants Number: 7648**

**Organization Type: Non-profit Foundation**

**Proposed Period of Performance: 3 years from grant receipt**

**Total Project Costs: \$24,971,267**

**Total Federal Grant Request: \$19,643,717**

**Total Matching Funds (Cash): \$5,327,550**

**Total Matching Funds (In-Kind): \$0**

**Total Matching Funds (Cash + In-Kind): \$5,327,550**

**Total Matching Funds (Cash + In-Kind) as Percentage of Total Project Costs: %21.3**

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## **1. Administrative and legal expenses - \$258,125**

Administration support is a part time role over the course of the program to ensure about 40 hours average a week to assist NHA's implementation team with the launch of their new network and services.

DESCRIPTION	Hours	Years	Rate	Total Cost
Admin Design Development	492	3	175	\$258,125

This will be funded with grant funds.

## **2. Land, structure, rights-of-way, appraisals, etc. - \$25,000**

NHA issued a comprehensive RFP and with the responses from OSP Engineering firms, the services aligned with ROW and structures have been identified and mostly included the construction OSP services (in the construction budget).

In addition, we estimate several thousand dollars for each of our major 6 builds in permits, so we have allocated \$25,000 to this purpose. All ROW fees will be covered under the grant funding. Application for permits and right of way will be processed during the term of the projects in Nevada.



## Broadband Technology Opportunities Program (BTOP)

The contracted service firm will perform functions associated with researching public records; preparing documents to secure clear title or property easements; examining, preparing and overseeing the execution of legal documents such as deeds, easements, leases, options and right of entry; obtaining appraisals for use by the Cooperative attorney and management for disposal or acquisition transactions; reviewing environmental impact reports and related documents; and making public presentations.

This will be funded with grant funds.

### **3. Relocation expenses and payment - \$0**

In addition, there are no significant Relocation expenses or payment costs with the NHA Network program.

### **4) Architectural and engineering fees - \$2,591,513**

**The Engineering of Systems and CPE equipment includes Network Design, & Integration, Rack & Stack, and Implementation for seventy eight sites as follows:**

#### **DESCRIPTION OF SKILL LEVEL CHARACTERISTICS:**

**Telecom Technician I (Installer):** Entry-level in the Telecom Technician series. Incumbents at this level perform the less complex equipment installation, cable installation and maintenance, initially under the close supervision of an experienced technician. As experience and knowledge is gained, incumbents are expected to progress to more complex assignments and require less supervision. Incumbents assist journey-level technicians and learn to install, modify and repair network systems and optical transport equipment.

**Telecom Technician II (Lead Installer/Tester):** Working level in the Telecom Technician series and requires substantial experience level proficiency in the full range of activities (including interpreting drawings and completing systems installations, modifications, maintenance, and repair). Duties include using a wide range of voice, data, and video communications technologies including interpreting specifications and interconnection requirements of new optical transport equipment.

**Telecom Technician III (Supervisor/Detail Engineering):** Advanced experience level in the Telecommunications Technician series of skill sets and knowledge. Incumbents at this level independently perform complex installations of software and hardware, maintenance, diagnoses, and repair of a variety of electronic optical transport equipment in one or more of the following areas: call provisioning, router configurations, messaging, voice IP services, cellular/PBX integration, fiber optics or other network equipment, key system installation, programming, repair, and maintenance.

**2 Datacenters, each with 2 MX960s, 2 SRXs, and 1 STRM (10 devices)**

**14 Regen sites, each with 2 MX240s (28 devices)**

**62 Hospitals, each with 2 EX4200s (124 devices)**

**Transport Systems as found in the detailed cost estimate provided by ADVA.**

**Installation budget estimate for Router and Switch systems and Transport (DWDM) Systems:**



DESCRIPTION	Hours	Years	Rate	Total Cost
Design Engineering Services	2158	2	175	\$755,300
Network Design/Integration Services	3334.5	1	225	\$750,263
System Development	1322	1	225	\$297,450
Installation Test Transport	2454	1	250	\$613,500
Installation & Integration Juniper	1000	1	175	\$175,000
<b>Total</b>				<b>\$ 2,591,513</b>

Prices are based on current information provided by the ALTA/CBTS team on behalf of Nevada Healthcare Networks and may change if the project moves forward. This is only a budget estimate and is not a formal quote. A formal quote will be provided if the Customer decides to select Juniper for the project, and pricing will be reviewed or modified, based on any changes to the project and as additional project details are provided.

Standard R&S services documents are attached to provide the customer with an example of the services provided.

**Professional Services made the following assumptions in preparing this estimate:**

- Rack and Stack of equipment will be conducted at sixty four locations within the state of Nevada.
- This will be a “Greenfield” deployment.
- The work will include basic data center FW configuration.
- VPLS will be configured on the MXs.
- No customized scripting will be done on the STRM.
- Initial requirements gathering will be done onsite, while the remainder of the design, documentation and configuration development will be done remotely. All deployments will be done onsite.
- MX deployments are estimated to take 1 day per site and will be clustered so that Juniper PS can handle 5 sites per week. Hardware deployment will be complete at each site before Juniper goes onsite to configure and implement said equipment.
- MX configurations will be standardized as much as possible.

Funding is from grant funds.

**5. Other architectural and engineering fees - \$1,712,850**

The Engineering support of the new Network System elements will require NHA to contract services to address make ready support, Project Management and cover the technical services required to craft the response of the grant application process:

DESCRIPTION	Hours	Years	Rate	Total Cost
Design Make Ready	1440	3	175	\$756,000
Project Management	1060	3	175	\$556,850
Grant Preparation Fee	2000	1	200	\$400,000
<b>Total</b>				<b>\$ 1,712,850</b>

The EMR Healthcare System has several elements, one of which is the professional services fees that address supporting up to (6) separate Hospital facilities, through consulting and PS services that help member hospitals integrate their records into the colocated EMR system.

Funding is from grant funds.



**6. Project inspection fees - \$63,961**

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with Project inspection fees have been estimated and identified in the construction OSP services. Depending on the location of the work, the federal and state environmental protection agencies will stipulate construction practices in or around environmentally sensitive areas, such as cultural resource sites. Inspection activities will be implemented to ensure the adherence to requirements are conducted. One of the primary areas of inspection will be associated FC.

1. **OTDR Testing**
  - o OTDR testing may include Bi-directional testing will be performed at the required wavelength to include the newer 1400nm & 1625nm wavelengths.
2. **Optical Loss Testing**
  - o Optical loss testing performed on the optical spans to determine loss values of the links.
3. **Optical Return Loss Testing (ORL)**
  - o ORL testing measures the amount of return loss in specific events such as patch-through and transitions in fiber types. Optical return loss can be performed across the span or at individual events to isolate any issues.
4. **Chromatic Dispersion Testing (CD)**
  - o Chromatic dispersion can be the factor which will determine whether the end user will be required to also upgrade the optical network, therefore increasing the overall cost of the upgrade. Also, chromatic dispersion is very dependent on span lengths and can become a critical variable in spans over 40km in distance.
5. **Polarization Mode Dispersion (PMD)**
  - o Polarization Mode dispersion can critically affect the newer high bandwidth, WDM and DWDM systems and it is recommended that anyone wanting to upgrade to these type of systems test their fiber spans for this issue. We will perform PMD testing utilizing the state of the art CMA 5000 multi tester

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Inspection Fees		63961	1	\$63,961

Funding is from grant funds.

**7. Site work - \$408,975**

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with ROW and structures have been identified below and support the construction OSP services.

Bids were received in support of the services by proposal of services related to the design based on Juniper Networks MX devices – MX960s and MX240s. The service firm is proposing the Juniper’s MX960 as core routers and MX240s as edge routers. There is an option to use the Juniper MX80s but it is currently not available. proposing a network that is carrier-class reliable with high availability features. It offers the most complete, advance routing features without compromising performance.



**Professional Services made the following assumptions in preparing this estimate:**

- Rack and Stack of equipment will be conducted at sixty four locations within the state of Nevada.
- This will be a “Greenfield” deployment.
- The work will include basic data center FW configuration.
- VPLS will be configured on the MXs.
- No customized scripting will be done on the STRM.
- Initial requirements gathering will be done onsite, while the remainder of the design, documentation and configuration development will be done remotely. All deployments will be done onsite.
- MX deployments are estimated to take 1 day per site and will be clustered so that Juniper PS can handle 5 sites per week. Hardware deployment will be complete at each site before Juniper goes onsite to configure and implement said equipment.
- MX configurations will be standardized as much as possible.
- No estimate is provided for the correction of infrastructure issues identified during the installation. Customer is responsible for correcting any site deficiencies identified.

**Services included in the estimate are as follows:**

- Design & Integration
- Rack and Stack
- MX implementation
- SRX and STRM Implementation

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Edge Installation		175	2000	\$350,000
Data Center support LV & Reno		175	337	\$58,975
<b>Total</b>				<b>\$408,975</b>

Funding is from grant funds.

**8. Demolition and removal - \$29,750**

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with Demolition services have been identified in the construction OSP services. There is very low likelihood that demolition beyond what is projected will be required to support the implementation process for NHA.

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Support of demo in Hospitals		175	170	\$29,750

Funding is from grant funds.



## **9. Construction - \$9,469,288**

NHA issued a comprehensive RFP, and with the responses from OSP Engineering firms, the services aligned with Construction services have been identified in the construction OSP services portion of the detailed budget.

The detailed phase II studies, and supporting labor, materials and services support have been reviewed by North Sky Communications, A Quanta Services Company and the NHA feels very confident that the estimated project detailed budget will meet the requirements of the construction process for the NHA Network build.



## SEGMENT DESCRIPTIONS – SOUTH ROUTE

### Segment #S1:

From existing Ring Hub located south of the intersection of S. Decatur Blvd., and W. Badura Ave., Las Vegas to Desert View Hospital located at 360 S. Lola Lane, Pahrump, NV. Includes the Pahrump Community Library located at 701 East Street, Pahrump, the Amarosa Valley Public Library located at 829 Amarosa Farm Rd., Pahrump, and the Great Basin College - Pahrump Valley Branch Campus located at 551 E. Calvada Blvd., Pahrump.

Footage – 333,200'

a 65% Aerial - 216,580'			
1	250' spans	866	poles
2	Anchor/guys	234	ea
3	Aerial Storage Loops (200')	82	ea
4	Make Ready locations (3%)	26	ea
b 35% Buried - 116,620'			
1	Plow (70%)	81,634	ft
2	Drilling (20%)	23,324	ft
3	Trench Rock (10%)	11,662	ft
4	R&R Asphalt/Concrete	3,326	ft
5	Vaults (every 2,500')	50	ea
6	1.5" Conduit	119,000	ft
7	Fiber Pulling	122,000	ft
c Building Entrances (200' each)			
1	Plenum Innerduct.	800	ft
2	Equipment Racks (w/power)	4	ea
d Total Fiber Cable			
1	48 fiber ADSS (includes loops, lap)	232,980	ft
2	48 fiber All Dielectric (includes coils, lap)	92,000	ft
3	12 fiber All Dielectric (includes coils,lap)	30,000	ft
e Fiber Splicing			
1	Splice Cases	19	ea
2	Fiber Patch Panels	4	ea
3	Fiber Terminations	120	ea
4	Fusion Splices	912	ea
5	Fiber Test & Documentation	72	ea



Segment #S2:

From Ring Hub located at 240 S. Water Street, Henderson, NV to the Boulder City Hospital at 901 Adams Blvd. Includes connections to the Boulder City Library located at 701 Adams Blvd., and the CSN Boulder Citer Center located at 700 Wyoming Street, Boulder City.

Footage – 66,000ft

a	Aerial - (40%)		26,400	
	1	150' spans	176	poles
	2	Anchor/guys	30	ea
	3	Aerial Storage Loops (200')	10	ea
	4	Make Ready locations (3%)	6	ea
b	Buried - (60%)		39,600	
	1	Trench (20%)	7,920	ft
	2	Drilling (45%)	17,820	ft
	3	Trench Rock (35%)	13,860	ft
	4	R&R Asphalt/Concrete	8,500	ft
	5	Vaults (every 1,000')	43	ea
	6	1.5" Conduit	42,000	ft
	7	Fiber Pulling	44,000	ft
c	Building Entrances (200' each)		3	ea
	1	Plenum Innerduct.	600	ft
	2	Equipment Racks (w/power)	3	ea
d	Total Fiber Cable			
	1	48 fiber ADSS (includes loops, lap)	30,000	ft
	2	48 fiber All Dielectric (includes coils, lap)	33,000	ft
	3	12 fiber All Dielectric (includes coils,lap)	12,000	ft
e	Fiber Splicing			
	1	Splice Cases	7	ea
	2	Fiber Patch Panels	3	ea
	3	Fiber Terminations	72	ea
	4	Fusion Splices	192	ea
	5	Fiber Test & Documenation	72	ea



Broadband Technology Opportunities Program (BTOP)

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
S1 Pahrump to Las Vegas		\$1,352,325.52	1	\$1,352,326
S2 Boulder City to Las Vegas		\$429,999.00	1	\$429,999
N4 Carson to Gardnerville		\$210,294.00	1	\$210,294
N5 Gardnerville to Yerington		\$582,742.20	1	\$582,742
Fallon		\$453,516.10	1	\$453,516
Hawthorne		\$250,200.00	1	\$250,200
ELKO – CLNT		\$661,500.00	1	\$661,500
SOUTH Leased Support		\$200,000.00	1	\$200,000
NORTH Leased Support		\$370,000.00	1	\$370,000
S1 Pahrump to Las Vegas		\$649,898.36	1	\$649,898
S2 Boulder City to Las Vegas		\$687,538.00	1	\$687,538
N4 Carson to Gardnerville		\$719,293.00	1	\$719,293
N5 Gardnerville to Yerington		\$847,389.72	1	\$847,390
Fallon		\$632,783.90	1	\$632,784
Hawthorne		\$125,000.00	1	\$125,000
ELKO – CLNT		\$388,500.00	1	\$388,500
S1 Pahrump to Las Vegas		\$375,696.12	1	\$375,696
S2 Boulder City to Las Vegas		\$98,912.22	1	\$98,912
N4 Carson to Gardnerville		\$47,913.00	1	\$47,913
N5 Gardnerville to Yerington		\$153,075.60	1	\$153,076
Fallon		\$232,711.16	1	\$232,711
<b>Total</b>				<b>\$9,469,288</b>

Funding is from grant funds.

**10. Equipment - \$8,776,597**

NHA and their technology team issued a comprehensive RFP, and with the responses from several DWDM OEM vendors, Router/Switch companies, and Engineering services firms, aligned with Equipment details to provide a comprehensive detailed estimate, which has been identified in the Equipment portion of the detailed budget.

Any modification in the estimated budget will be addressed with the two OEM vendors recommended for the NHA Network program. The NHA feels very confident that the estimated project detailed budget will meet the requirements of the Network equipment implementation process for the NHA Network build.



DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
SRX3600BASE-AC	Cash Match	\$49,920.00	4	\$199,680
MX960-PREMIUM-AC	Cash Match	\$72,180.00	4	\$288,720
DPCE-R-4XGE-XFP	Cash Match	\$97,600.00	12	\$1,171,200
XFP-10GS	Cash Match	\$11,271.17	48	\$541,016
ADVA FSP3000R7 RN-LV	Cash Match	\$447,330.00	2	\$894,660
ADVA FSP3000R7 RENO SPN	Cash Match	\$316,918.50	2	\$633,837
ADVA FSP3000R7 LAS VEGAS	Cash Match	\$235,780.00	2	\$471,560
STRM2500-A-BSE	Cash Match	\$49,652.00	2	\$99,304
MX240-AC-CDPC-B		74250	28	\$2,079,000
CBL-M-PWR-RA-TWLK-US		6437.25	64	\$411,984
EX4200-48T		13271	124	\$1,645,604
CBL-M-PWR-RA-TWLK-US		7084	48	\$340,032
<b>Total</b>				<b>\$8,776,597</b>

Funding is \$4,299,977 from Cash Matching via our private partner and the remaining \$4,476,620 from grant funds.

### **11. Miscellaneous - \$1,635,208**

The EMR Healthcare System and the application software associated with the “system” has several elements, one of which is the software fees that address supporting up to (6) separate Hospital facilities, through liscence agreements and implementation services, the EMR vendor selected through an RFI/RFP initiate will be selected and final detail pricing would be made available. The pricing provided should support 250+ beds giving interviews with best of class EMR services companies over the past several months.

Also included here is the eligible lease (first 3 years under BTOP Round 2) of fiber leases (qualify by exceeding 1 year).

Funding \$1,027,572 in cash match via our private partner and \$607,636 from grant funds.

DESCRIPTION	Match (Cash/In-kind)	UNIT COST	QTY	Total Cost
Contracts ADVA Electronics	Cash Match	\$547,572	1	\$547,572
Contracts Juniper Electronics	Cash Match	\$210,000.49	1	\$210,000
Billing System	Cash Match	\$270,000	1	\$270,000
<b>Eligible Leases of Dark Fiber (AFS)</b>		<b>\$607,636</b>	<b>1</b>	<b>\$607,636</b>
<b>Total</b>				<b>\$1,635,208</b>



**ADVA has provided the following cost estimate:**

<i>Network Element HW/SW</i>	<i>Adjusted Price</i>
FSP3000R7 - Reno-to-Las Vegas Backbone	\$ 894,659.64
FSP3000R7 – Additional Spans	\$ 307,658.07
FSP3000R7 - PRMP-LV-HDRS LAD Spans	\$ 143,898.88
FSP3000R7 - FALLN-to-Reno Spans	\$ 383,697.34
FSP3000R7 – Additional Spans	\$ 250,140.21
Spares	\$ -
<b>Subtotal</b>	<b>\$ 1,980,054.14</b>

<i>Network Management SW</i>	<i>Adjusted Price</i>
FSP Network Manager EMS/NMS Software	\$ 20,002.50
<b>Subtotal</b>	<b>\$ 20,002.50</b>

<i>Installation and Test</i>	<i>Adjusted Price</i>
Engineering, Furnishing And Installation Deployment Turn-Key Service P/N 7011228001	\$ 273,515.37
<b>Subtotal</b>	<b>\$ 273,515.37</b>

<i>Service/Maintenance</i>	<i>Adjusted Price</i>
5 Year Maintenance, Bronze P/N 7022453001	\$ 547,572.49
<b>Subtotal</b>	<b>\$ 547,572.49</b>

**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.

## 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 President/CEO
*APPLICANT ORGANIZATION Nevada Hospital Association	*DATE SUBMITTED 6/16/2010 0.00