

November 26, 2013

Mr. Jeff R. Derouen, Executive Director
Kentucky Public Service Commission
P.O. Box 615
211 Sower Boulevard
Frankfort, Kentucky 40602-0615

RECEIVED

NOV 26 2013

**PUBLIC SERVICE
COMMISSION**

In Re: In the Matter of the Application of Ballard Rural Telephone Cooperative Corporation, Inc., for a Certificate of Convenience and Necessity for Construction of a Gigabit Passive Optical Network

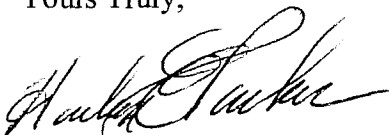
Dear Mr. Derouen:

Pursuant to KRS 278-020 and 807 KAR 5:001, Ballard Rural Telephone Cooperative Corporation, Inc. (Ballard), requests authority to construct and upgrade telecommunication facilities in its certified territory. Enclosed are an original and ten (10) copies of Ballard's verified Application for construction of new facilities in the affected exchanges in western Kentucky.

After the Application has been processed, Ballard personnel will be available to meet with members of the Commission's staff and other concerned Commission personnel.

In the event there are other filing requirements or information requests associated with the Application, please advise me at your earliest convenience.

Yours Truly,



Harlon E. Parker
CEO/General Manager
Ballard Rural Telephone Cooperative Corporation, Inc.

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BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.

159 West Second Street • P.O. Box 209 • La Center, Kentucky 42056-0209
Phone/270.665.5186 • Fax/270.665.9186 • www.brtc.net

Harlon E. Parker
Manager

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

RECEIVED

NOV 26 2013

PUBLIC SERVICE
COMMISSION

In the Matter of:

**THE APPLICATION OF BALLARD RURAL)
TELEPHONE COOPERATIVE CORPORATION INC.)
FOR A CERTIFICATE OF PUBLIC CONVENIENCE) Case No.
AND NECESSITY FOR THE CONSTRUCTION OF A)
GIGABIT PASSIVE OPTICAL NETWORK AND)
FIBER TO THE PREMISES NETWORK)**

APPLICATION FOR CERTIFICATE OF PUBLIC CONVENIENCE AND
NECESSITY FOR CONSTRUCTION OF GIGABIT PASSIVE OPTICAL AND
FIBER TO THE PREMISES NETWORK

Ballard Rural Telephone Cooperative Corporation, Inc. (Ballard RTCC) pursuant to KRS 278.020 and 807 KAR 5:001: Sections 14(1) and Section 15 submit this application for a certificate of convenience and necessity for the purpose of upgrading and improving Ballard RTCC's telecommunications network. The upgrading of the network will permit Ballard RTCC to offer advanced telecommunication services to all of its customers. Services will include voice, broadband data, and Internet Protocol video. The upgrade will consist of deploying gigabit passive optical network (GPON) equipment and fiber to the premise (FTTP) network in Bandana, Barlow, Gage, and Wickliffe exchanges in Ballard County and McCracken County, Kentucky. In addition, Ballard RTCC will upgrade switching, transmission, and other outside plant facilities.

1. Pursuant to 807 KAR 5:001 Section 14(1) the applicant's full name and address is Ballard Rural Telephone Cooperative Corporation, Inc., 159 West Second Street, P.O. Box 209, LaCenter, Kentucky 42056-0209. Ballard RTCC's internet address is WWW.brcc.net.
2. Pursuant to 807 KAR 14 (2) a copy of Ballard RTCC's Articles of Incorporation, are attached as Exhibit A.
3. Pursuant to 807 KAR 5:001, section 15(2)(d)1 , two copies of the required maps along with one copy of the maps on a portable electronic storage medium which show the proposed route for the fiber deployment in the affected exchanges are attached as Exhibit B.

4. In compliance with 807 KAR 5:001 section 15 (2) (a) Ballard RTCC states that it does not require a franchise approval from any public authority to construct in the proposed area.
5. In compliance with 807 KAR 5:001 section 15 (2) (c) Ballard RTCC has attached the Loan Design, prepared by Finley Engineering, as Exhibit C. This document provides a full description of the construction including routes, locations, and the manner in which the plant will be constructed.
6. Pursuant to Section 807 KAR 15 (2) (a) Ballard RTCC relied on the following circumstances to support its decision to upgrade the network in Bandana, Barlow, Gage, and Wickliffe. For the period extending from 2007 through 2012, Ballard RTCC's access lines declined from 6,515 lines to 4,869 lines. As of December 31, 2012 Ballard RTCC serves 3,843 residential customers 1,026 business customers. According to Ballard RTCC's analysis, the primary reasons for the decline in access lines have been customers upgrading to Digital Subscriber Line (DSL) which have resulted in customers dropping the second phone line used for dial-up service. In addition, there were some customers that have dropped land-line telephone service to move to mobile carriers.

Upgrading of the network and service offerings will allow Ballard RTCC in reversing this downward trend and assist in growing the number of access lines in its service area. Customers are demanding state of the art telecommunications services. The construction of a four lane highway into Kevil and other highway construction in Ballard County have encouraged and will continue to support additional residential and commercial development in the service area. Ballard RTCC believes that the increasing telecommunications sophistication of its customer and will require the provision of greater variety and bundling of telecommunications services.

Advance telecommunications services, including broadband, are critical to the economic and social development of the communities in McCracken and Ballard County, Kentucky. Subscribers in the Bandana, Gage, Barlow, and Wickliffe exchanges have upgraded their telecommunications requirements as they have migrated from second telephone lines to DSL. The State Telecommunications Modernization Plan recognizes that deployment of advanced technologies such as fiber optics and related technologies as essential to economic development. It is this type of technology that will bring medical services, educational services, and numerous other economic opportunities to the customers of Ballard RTCC. Therefore the construction of the GPON, FTTP and other proposed

telecommunication plant upgrades are required for public convenience and necessity.

7. Pursuant to Section 15 (2) (e) of 807 KAR 5:001 Ballard RTCC has attached as Exhibit C, the loan design provided to RUS as a part of its loan application. The loan design document provides a complete description of the proposed new construction and how it will be financed. The cost of construction of the proposed facilities in the four (4) exchanges will total approximately \$24,019,693.
8. RUS has reviewed, analyzed, and approved the Loan Design P42 and the outside plant layout, subject to the approval of the Kentucky Public Service Commission. Ballard has attached as Exhibit D the letter from RUS approving and stating the amount of the loan.
9. Pursuant to Section 15(2) (f) Ballard RTCC was unable to get an estimated cost of operations after the proposed facilities are completed. After construction, Ballard RTCC will be able to operate the system at the current operating cost or at less cost than the current system operates. Ballard RTCC does not anticipate a need for a rate adjustment because of this construction. Ballard RTCC may be required by the Federal Communications Commission to raise rates in the future because of the need to qualify for the Universal Service Fund.

Based on the foregoing discussion, and in accordance with KRS 278.020 and 807 KAR 5:001, sections 14 and 15, Ballard RTCC respectively requests that the Commission grant it a Certificate of Public Convenience and Necessity to deploy a GPON network with related construction in Bandana, Barlow, Gage, and Wickliffe exchanges in Ballard County and McCracken County, Kentucky as described in this application and attached exhibits.

Respectively submitted,



Harlon E. Parker
CEO/ General Manager
Ballard Rural Telephone Cooperative Corporation, Inc.

ARTICLES OF INCORPORATION

OF

BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.

We, the undersigned, being natural persons and citizens of the Commonwealth of Kentucky do hereby execute these articles of incorporation for the purpose of organizing a nonprofit cooperative corporation (herein called the "Cooperative") under the laws of the Commonwealth of Kentucky, pursuant to an Act entitled "AN ACT relating to telephone cooperative, nonprofit corporations, rural telephones and telephone services", approved March 25, 1950.

FIRST, the name of the Cooperative is Ballard Rural Telephone Cooperative Corporation, Inc.

SECOND, the address of the principal office of the Cooperative is La Center, Ballard County, Kentucky.

THIRD, the names and addresses of the incorporators of the Cooperative are:

<u>NAMES</u>	<u>ADDRESSES</u>
Harris Grubbs	Route 2, La Center, Kentucky
C. E. Seaton, Process Agent	La Center, Kentucky
Clay L. King	Route 2, Paducah, Kentucky
Elwood Crice	Bandana, Kentucky
W. H. Wolfe	Route 2, Kevil, Kentucky
W. E. Brockman, Jr.	Route 3, Kevil, Kentucky
W. L. Trimble	Wickliffe, Kentucky
George H. Lovelace	Barlow, Kentucky
C. B. Rollins	Kevil, Kentucky
Wilson Rudolph	Route 2, Kevil, Kentucky
W. F. Flournoy	Route 1, Wickliffe, Kentucky

STATE OF KENTUCKY)
) ss
COUNTY OF McCRACKEN)

I, Eloise Morgan, hereby certify that the foregoing articles of incorporation of the Ballard Rural Telephone Cooperative Corporation, Inc., were this day produced to me in my office by Harris Grubbs, C. E. Seaton, Clay L. King, Elwood Crice, W. H. Wolfe, W. E. Brockman Jr., W. L. Trimble, George H. Lovelace, C. B. Rollins, Wilson Rudolph and W. F. Flournoy, and acknowledged and delivered by said parties to be their act and deed.

WITNESS my hand this 15th day of June, 1951.

My commission expires March 9, 1954.

 /s/ Eloise Morgan
Notary Public, McCracken County, Ky.

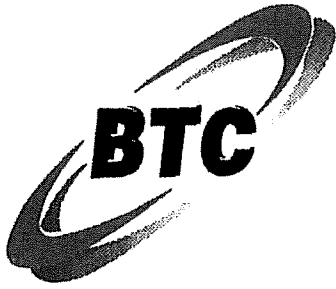
FOURTH, the names and addresses of the persons who shall constitute the first Board of Trustees of the Cooperative are :

<u>NAMES</u>	<u>ADDRESSES</u>
C. E. Seaton	La Center, Kentucky
Elwood Crice	Bandana, Kentucky
W. L. Trimble	Wickliffe, Kentucky
George H. Lovelace--	Barlow, Kentucky
Wilson Rudolph	Route 2, Kevil, Kentucky

FIFTH, the operations of the Cooperative are to be conducted in the Counties of Ballard and McCracken, Kentucky, and in such other counties as such operations may from time to time become necessary or desirable in the interest of this Cooperative or of its members.

IN TESTIMONY WHEREOF we have hereunto subscribed our names this 5th day of June, 19 51

/s/ Harris Grubbs
/s/ C. E. Seaton
/s/ Clay L. King
/s/ Elwood Crice
/s/ W. H. Wolfe
/s/ W. E. Brockman Jr.
/s/ W. L. Trimble
/s/ George H. Lovelace
/s/ C. B. Rollins
/s/ Wilson Rudolph
/s/ W. F. Flournoy



BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.

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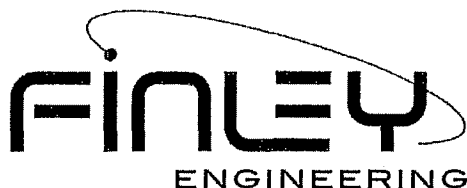
LOAN DESIGN

BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION, INC.

RUS KENTUCKY 515 P

10-BR-11013

June 2013



Finley Engineering Company

Telecommunications Planning, Design & Engineering
1500 Bull Lea Road, Suite 194 • Lexington, Kentucky 40511
Telephone: (859) 231-9831 • Fax: (859) 233-0046 • www.FECeng.com

**BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION
KENTUCKY 515**

P LOAN DESIGN

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NARRATIVE

**BALLARD RURAL TELEPHONE COOPERATIVE CORPORATION
KENTUCKY 515**

P LOAN DESIGN

NARRATIVE

GENERAL

The purpose of this Loan Design is to support a loan application for financing from Rural Utilities Service (RUS) for Ballard Rural Telephone Cooperative Corporation, Inc. (Ballard). Ballard is headquartered in La Center, Kentucky and operates seven exchanges in Western Kentucky: Bandana, Barlow, Gage, Heath, Kevil, La Center, and Wickliffe. The exchanges cover Ballard County as well as a portion of McCracken County. Ballard currently serves 4,869 access lines as well as 2,486 broadband subscribers and 1,902 video subscribers.

Ballard is committed to offering advanced telecommunications services to its customers including voice, broadband data, and IP video. The present system utilizes Digital Subscriber Line (DSL) technology to provide these services over Ballard's copper distribution network. However, bandwidth and reach limitations of DSL and the copper infrastructure do not allow Ballard to offer advanced services to all subscribers. In 2008, Ballard began upgrading to Fiber-to-the-Premise (FTTP) as part of a long-term network migration plan to move to a complete fiber optic system.

Previous RUS loan funds (N Loan) were used for FTTP construction in the La Center, Heath, and Kevil exchanges as well as to deploy a 10 Gbps Ethernet transport ring connecting all exchanges in the system. This has allowed Ballard to upgrade service offerings to customers on the FTTP network and remove some remote equipment locations creating a simpler, more robust network.

The financing included in this Loan Design will be used for FTTP construction in the remaining four exchanges. Ballard has utilized Gigabit Passive Optical Network (GPON) architecture in the previous FTTP deployments and will continue to do so in this project. Ballard also plans to make additions to both the next generation switching platform and transport network in an effort to increase capacity and continue the transition to all Internet Protocol (IP) based transport. The total proposed expenditures for the five year loan period are \$24,019,693.

The upgrades proposed in this Loan Design will provide Ballard with a state-of-the-art network capable of delivering advanced communications services to its customers today and in the future as bandwidth demands increase. Given the steady decline in access lines and traditional voice services seen in recent years, it is critical for Ballard to be able to offer these advanced services in order to remain competitive and meet the demands of their subscribers. Future plans for Ballard include transitioning all customers to the FTTP network and eventual retirement of their copper based facilities.

ACCESS LINES

The access line forecast, as given on the RUS Form 569 in section II, was derived from the RUS 479 forms and based on analysis of the subscriber access line growth experienced between 2007 and 2012. Ballard has experienced a significant decrease in access lines during this time period. This can mainly be attributed to customers transitioning from dial-up to DSL for internet service as well as customers switching to a mobile carrier for voice service. This has been a very common trend for traditional telephone service providers in recent years and it is expected to continue.

Ballard began providing DSL broadband service in 2001. In 2003, DSL started to gain popularity and Ballard saw many customers switch from dial-up internet to DSL. Most of the dial-up subscribers had a second phone line in order to receive phone calls while using the internet. The migration from dial-up to DSL allowed these subscribers to use both voice and internet services over the same access line, eliminating the need for a second phone line. In addition, the rapidly increasing popularity of cellular phone service has caused many customers to remove their land line phone service and opt to use cellular phones only.

Ballard's service area is located west of Paducah in Western Kentucky and is a very rural area. Ballard County, which contains the majority of Ballard's exchanges, has seen zero population growth over the past decade. The lack of population growth and decreasing access lines drives the need for Ballard to offer advanced telecommunications services in order to retain current subscribers and attract new subscribers. Continuing deployment of FTTP will allow Ballard to offer such services now and in the future as customer demands increase.

EXISTING SYSTEM

Switching:

Ballard's existing switching network consists of a Siemens EWSD deployed at the La Center exchange, three Smart Remotes at the Kevil, Heath, and Wickliffe exchanges, and three Siemens Remote Line Switches (RLSs) at the Bandana, Barlow, and Gage exchanges. Ballard has placed over 23 Tellabs UMC-1000 Digital Line Concentrators (DLCs) and 9 Siemens RLS-450s throughout the system to reduce loaded plant and minimize feeder plant additions.

In addition, Ballard has deployed a MetaSwitch VP2510 Softswitch at the La Center central office as part of an overall network migration to Internet Protocol (IP) based technology. The MetaSwitch is now the network access tandem and the toll outlet. VoIP traffic on the new FTTP network travels through Ballard's core network and into the MetaSwitch via 1 Gige connections. Voice traffic from the EWSD network connects to the MetaSwitch via DS1 connections. The MetaSwitch will eventually replace the EWSD completely as the rest of Ballard's system is upgraded to FTTP.

Transport:

Ballard's toll and EAS routes consist of an SONET OC-12 fiber-optic ring with BellSouth. Inter-exchange transmission utilizes separate SONET OC-48 and OC-192 fiber-optic rings to transport voice, data, and video traffic. All existing DLCs and remote electronics are connected via fiber-optic facilities.

Ballard has also deployed a 10 GigE fiber-optic ring connecting all exchanges. The 10 GigE ring functions concurrently with the SONET rings and transports traffic from the new FTTP network. The FTTP electronics connect to the 10 GigE transport network via 1 GigE connections. Ballard plans to retire the SONET equipment completely and transition to an all IP transport network in the near future.

Outside Plant:

Ballard currently has approximately 1,345 miles of copper and fiber-optic plant. FTTP construction has been completed throughout the La Center and Heath exchanges. Construction in the Kevil exchange is expected to be complete by the end of 2013. To date, only broadband and/or video subscribers are served via the new FTTP network. POTS only subscribers still operate on the copper network. The copper plant will eventually be retired as Ballard continues upgrade the rest of the network to FTTP.

PROPOSED SYSTEM IMPROVEMENTS**Central Office Equipment:**

Upgrades to the MetaSwitch next generation switching platform include capacity additions, new server hardware, and voicemail. As Ballard continues to deploy FTTP, subscribers will migrate from the EWSD to the MetaSwitch so additional subscriber capacity will be required in the softswitch. In addition, several of the MetaSwitch servers will reach End of Software Maintenance Release date in July 2013 so Ballard plans to replace these with newer hardware variants. Ballard also plans to add voicemail services to the MetaSwitch platform as their current voicemail equipment is no longer supported by the manufacturer. A breakdown of the switching platform costs is shown in Exhibit D. Pricing is based on budgetary quotes from the manufacturer.

COE costs also include upgrading the transport network. Ballard has received notice that their current SONET transport equipment will reach end-of-support in May 2014. Ballard plans to replace the existing SONET equipment with 10 GigE transport equipment to provide increased capacity for future bandwidth requirements and transition to an all IP based transport network. A breakdown of the transport equipment costs is shown in Exhibit D. Ballard has not selected a manufacturer for the transport platform so the estimates are based on anticipated equipment requirements and generic pricing.

Electronic Equipment:

GPON FTTP equipment will be placed in the Bandana, Barlow, Gage, and Wickliffe Central Offices. Ballard has deployed the Calix B-Series platform in their previous FTTP projects and plans to continue using this equipment for the rest of the system. Equipment located in the Central Office includes a high density chassis, GPON OLT cards, T1 transport cards, and optical transceivers. Customer premise equipment includes ONT modules and enclosures as well as battery backup units.

In addition, Ballard plans to deploy Calix ADSL2+ equipment at certain locations in order to transition POTS only subscribers from the existing DLC equipment to the Calix platform. This will allow them to retire some of the older remote switching equipment and continue the transition to IP based transport. ADSL2+ cards are included for the Bandana, Barlow, Gage, La Center, and Wickliffe exchanges. All ADSL2+ cards will be installed in the Central Office or inside existing remote cabinets, no new remote sites will be required.

A breakdown of equipment costs by exchange is shown in Exhibit E. Equipment quantities are estimates based on previous FTTP deployments and expected number of subscribers. Pricing is based on recent equipment purchases. The costs include fiber distribution panels, cable racks, optical splitters, and miscellaneous materials required in the Central Office. Ballard plans to install all equipment with internal forces.

Outside Plant:

FTTP outside plant construction will be completed throughout the Bandana, Barlow, Gage, and Wickliffe exchanges under this loan. The proposed construction will consist of approximately 420 route miles, including subscriber drops. As in the previous FTTP projects, Ballard plans to only place fiber drops to broadband and/or video subscribers while POTS only subscribers will remain on the copper network.

Ballard has consistently buried all cables in the past and will continue to do so in this project. The majority of fiber cable placements will follow existing cable routes and be on private right-of-way granted by landowners. In rural areas, the fiber-optic cable will be direct buried via cable plow. In congested areas, the fiber-optic cable will be installed via directional boring methods.

The FTTP design will be based on GPON architecture which uses optical splitters to serve multiple premises from a single feeder fiber. This reduces the size of fiber cables required which, in turn, helps to reduce construction costs. Ballard will primarily use 1:32 optical splitters in this project; however, 1:16 splitters may be utilized to extend the reach in some remote areas.

Each exchange will be divided into multiple serving areas based on existing DLC locations. Each serving area will contain a single fiber distribution point, either the Central Office (CO) or a local convergence cabinet (LCC) located near the DLC site, at which the optical splitters will be placed. In the CO serving areas, the splitters will be co-located with the FTTP electronics inside the CO. Feeder fiber cables will be run from the CO to all LCC locations in the exchange. Distribution fiber cables will then run point-to-point from the CO or LCC out to

subscriber premises. This design provides a cost effective FTTP solution while also allowing a simple migration path to a complete point-to-point, or Active FTTP, solution in the future should bandwidth requirements increase beyond the capabilities of GPON.

A detailed outside plant FTTP design was completed for the Wickliffe exchange. The exchange was divided into seven (7) serving areas as described above. Wickliffe design maps are included in Exhibit H. A detailed breakdown of construction cost estimates by serving area are included in Exhibit F. Fiber cable quantities were measured from the design maps. Construction unit quantities were estimated based on recent FTTP projects and the projected type of construction for each area. The unit prices are based on average bid prices from Ballard's recent FTTP construction projects in 2012.

The Wickliffe design data was the basis for estimating construction costs for the entire project. Outside plant construction costs were estimated on a per mile basis. As the design data indicates, the cost per route mile is significantly more expensive in the Main serving area which contains the town of Wickliffe. This is due to more difficult construction methods and larger fiber cables required in congested town areas. The Main serving area cost per route mile of \$61,539 was used to estimate town area construction in the other exchanges. The remaining serving areas in Wickliffe are rural areas which consistently show a less expensive per route mile cost. The average cost per route mile of the rural serving areas of \$36,958 was used to estimate rural area construction in the other exchanges. The average cost per drop mile from the Wickliffe design of \$17,197 was used to estimate drop construction costs for the entire project.

The number of route miles in each exchange was estimated by measuring current system maps. The estimated number of fiber drops was based on Ballard's current take rates for broadband/video services plus growth. Drop miles were calculated at 310 feet per fiber drop which was based on recent FTTP construction projects. The proposed construction schedule is a 4-year plan to build one exchange each year. The fifth year of the loan period will be a contingency for potential construction delays and completion of cutover. The current plan is to build Bandana in 2014, Barlow in 2015, Wickliffe in 2016, and Gage in 2017.

Outside plant construction estimates were based on the route mile and drop mile costs from the Wickliffe design data. The town route mile cost was used for the Main serving area in each exchange as well as the Lovelaceville serving area in the Gage exchange due to expected difficulty of construction in these areas. The rural route mile cost was used for the remaining serving areas in each exchange. The same average drop mile cost was used for all serving areas. Based on the proposed construction schedule, per mile construction costs were increased by 2.5% each year for inflation. A summary of the outside plant costs by exchange and servings area is shown in Exhibit F.

SERVICE AREA

No new service areas are proposed under this loan.

TOLL AND EAS

No new toll and EAS facilities are required.

NON-RURAL AREAS

Ballard does not serve any non-rural areas.

BORROWER'S ENVIRONMENTAL REPORT

A Borrower's Environmental Report has been completed in support of the loan application. The US Fish and Wildlife Service, Kentucky Department of Fish and Wildlife Resources, and the Kentucky State Historic Preservation Office were contacted to provide comments regarding potential impacts to the project area. Ballard is not aware of any particularly sensitive environmental factors that may be affected by the proposed construction.

PRIOR LOAN PROJECTS

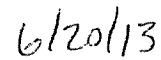
Previous loan funds were used for FTTP construction in the La Center, Heath, and Kevil exchanges. Construction in the La Center and Heath exchanges is complete. Phase 1 of the Kevil exchange is complete with Phase 2 construction expected to be complete by the end of 2013. Cutover of the Kevil exchange will carry over into 2014. All other projects initiated under prior loans have been completed. No funds are required under this loan design for prior loan projects.

CERTIFICATION

We, the undersigned, certify that the data in this Loan Design is correct, to the best of our knowledge and belief, and reasonably reflect the cost to serve subscribers as proposed on the Forms 569, "Area Coverage Survey Report," which are integral parts hereof, and that this Loan Design adheres to RUS engineering and construction standards and practices.



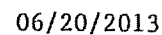
Brian Burch, P.E.
Senior Project Engineer
Finley Engineering Company, Inc.



Date



Harlon Parker
CEO/General Manager
Ballard Rural Telephone Cooperative Corporation, Inc.



Date

EXHIBIT A
AREA COVERAGE SURVEY REPORT

RURAL UTILITIES SERVICE - USDA	NAME OF BORROWER			
LOCAL SERVICE DATA FORM	Ballard RTCC			
<i>Instructions -</i>	BORROWER DESIGNATION			
	KY 515 P			
PART B - ADDITIONAL REVENUE PRODUCING SERVICES - TOTAL SYSTEM				
(Annual)				
CUSTOM CALLING, CLASS FEATURES	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
T1 CIRCUITS	121	\$ 418,130.00	121	\$ 418,130.00
DIGITAL/ANALOG CIRCUITS	11	\$ 13,999.00	11	\$ 13,999.00
CALL FORWARDING NUMBERS	41	\$ 7,880.00	41	\$ 7,880.00
PBX	72	\$ 19,872.00	72	\$ 19,872.00
KEY SYSTEMS	205	\$ 44,900.00	205	\$ 44,900.00
MOBILE TELEPHONE, CELLULAR, PCS	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
		\$		\$
DIAL-UP INTERNET	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
Dial-Up	60	\$ 10,908.00	40	\$ 7,656.00
BROADBAND SERVICES, WIRED, WIRELESS, VIDEO	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
DSL - BASIC	1100	\$ 460,680.00	420	\$ 175,900.00
DSL - ENHANCED	651	\$ 350,760.00	750	\$ 404,100.00
DSL - DELUXE	333	\$ 219,380.00	780	\$ 513,870.00
DSL - XTREME	230	\$ 179,124.00	650	\$ 506,220.00
DSL - BUSINESS BASIC	64	\$ 42,163.00	40	\$ 26,360.00
DSL - BUSINESS ENHANCED	55	\$ 49,434.00	50	\$ 32,940.00
DSL - BUSINESS DELUXE	24	\$ 27,332.00	60	\$ 68,330.00
DSL - BUSINESS XTREME	23	\$ 31,715.00	50	\$ 68,940.00
DSL - BUSINESS 4	4	\$ 5,520.00	10	\$ 13,800.00
DSL - BUSINESS 5	2	\$ 4,800.00	2	\$ 4,800.00
VIDEO - MB ONLY	93	\$ 20,635.00	100	\$ 22,200.00
VIDEO - BASIC	653	\$ 399,558.00	720	\$ 440,560.00
VIDEO - STANDARD	687	\$ 494,558.00	780	\$ 561,510.00
VIDEO - EXPANDED	469	\$ 393,904.00	525	\$ 440,940.00
PREMIUM CHANNELS	454	\$ 95,286.00	500	\$ 104,940.00
HIGH DEFINITION	334	\$ 40,040.00	600	\$ 71,928.00
PVR	283	\$ 54,270.00	600	\$ 115,060.00
PVR WHOLE HOME	88	\$ 3,168.00	200	\$ 21,600.00
SETTOP BOX LEASES	405	\$ 22,600.00	600	\$ 35,640.00
DSL MODEM LEASE	1103	\$ 65,518.00	1500	\$ 89,100.00
OTHER REVENUE PRODUCING SERVICES	Existing		Proposed	
Description of Services	Number	Revenue	Number	Revenue
		\$		\$
<i>Comments:</i>				

Jama & Wilson 6/27/13

ACCESS LINE HISTORY AND GROWTH

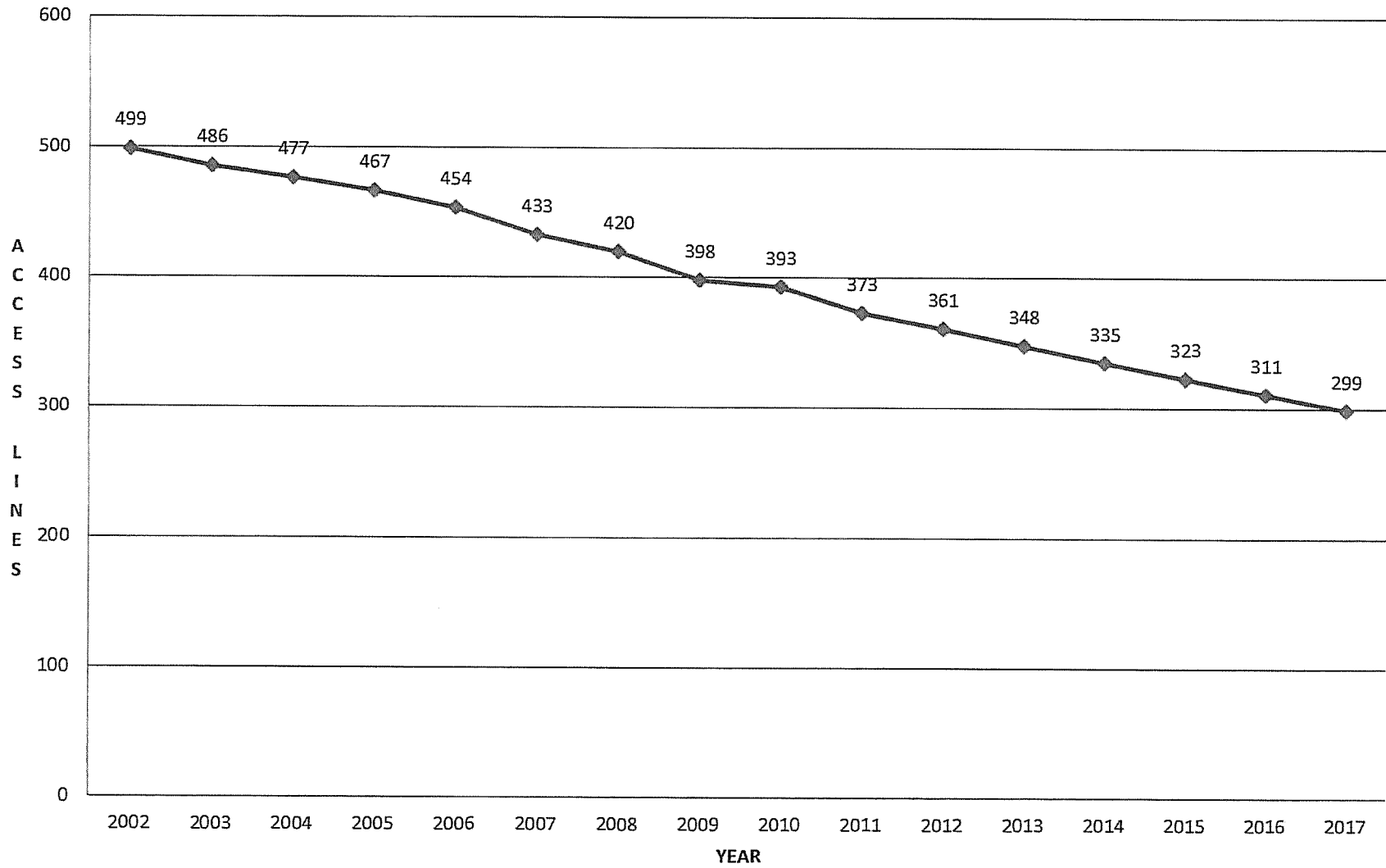
10-BR-11013

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH

Exchange	Average Growth	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
BANDANA	-3.57%	499	486	477	467	454	433	420	398	393	373	361	348	335	323	311	299
BARLOW	-4.00%	745	734	710	680	642	601	604	581	542	524	490	470	451	432	414	397
GAGE	-3.33%	510	495	483	476	466	462	441	428	418	409	390	377	364	351	339	327
HEATH	-4.22%	1,174	1,147	1,126	1,073	1,036	1,000	947	913	882	851	806	771	738	706	676	647
KEVIL	-7.44%	1,872	1,831	1,755	1,693	1,612	1,682	1,470	1,382	1,263	1,207	1,143	1,058	979	906	838	775
LACENTER	-8.39%	1,476	1,464	1,437	1,399	1,379	1,330	1,274	1,041	1,021	908	858	785	719	658	602	551
WICKLIFFE	-4.00%	1,261	1,261	1,233	1,173	1,090	1,007	942	922	880	850	821	788	756	725	695	667
TOTAL	-5.66%	7,537	7,418	7,221	6,961	6,679	6,515	6,098	5,665	5,399	5,122	4,869	4,597	4,342	4,101	3,875	3,663

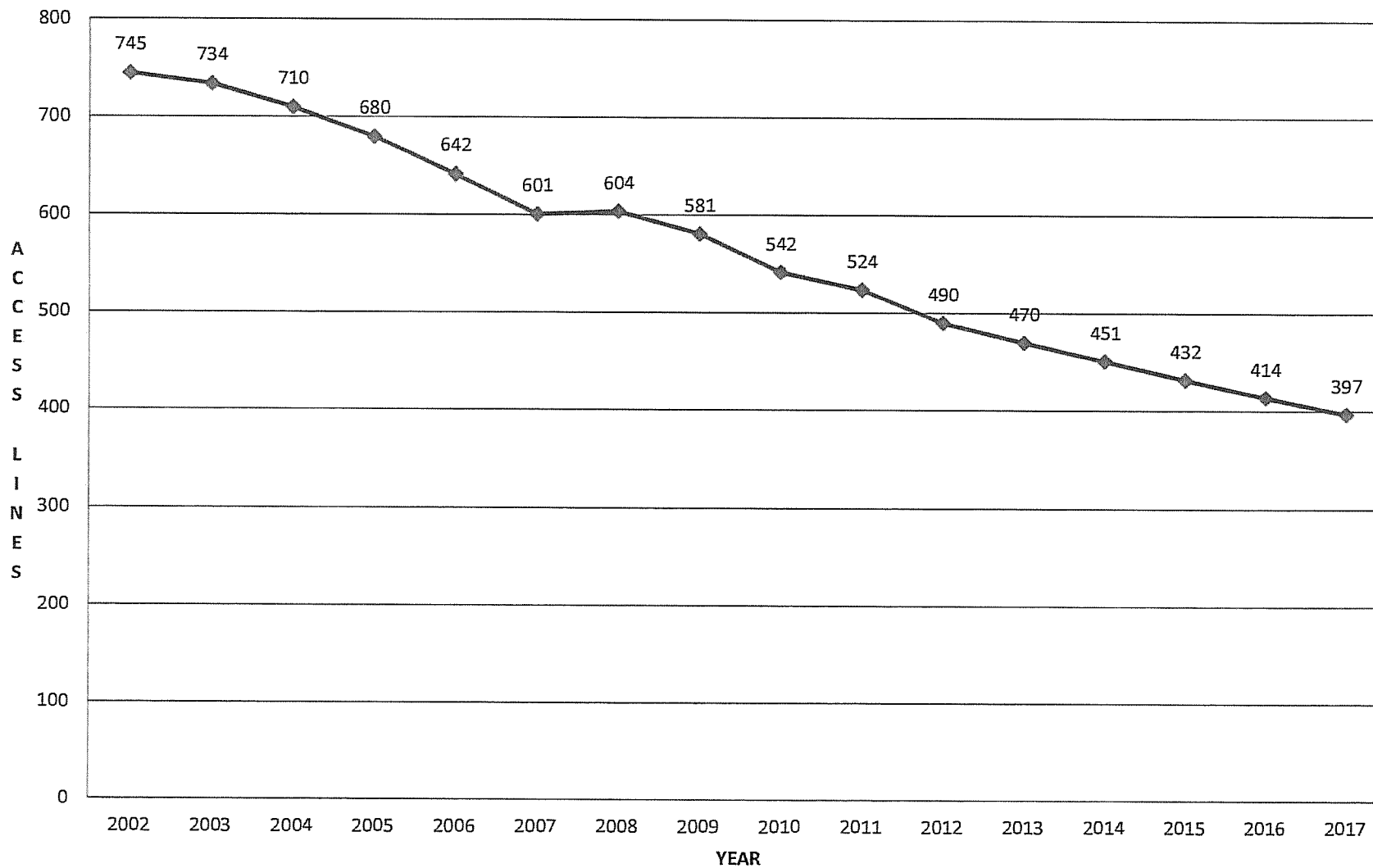
BANDANA EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



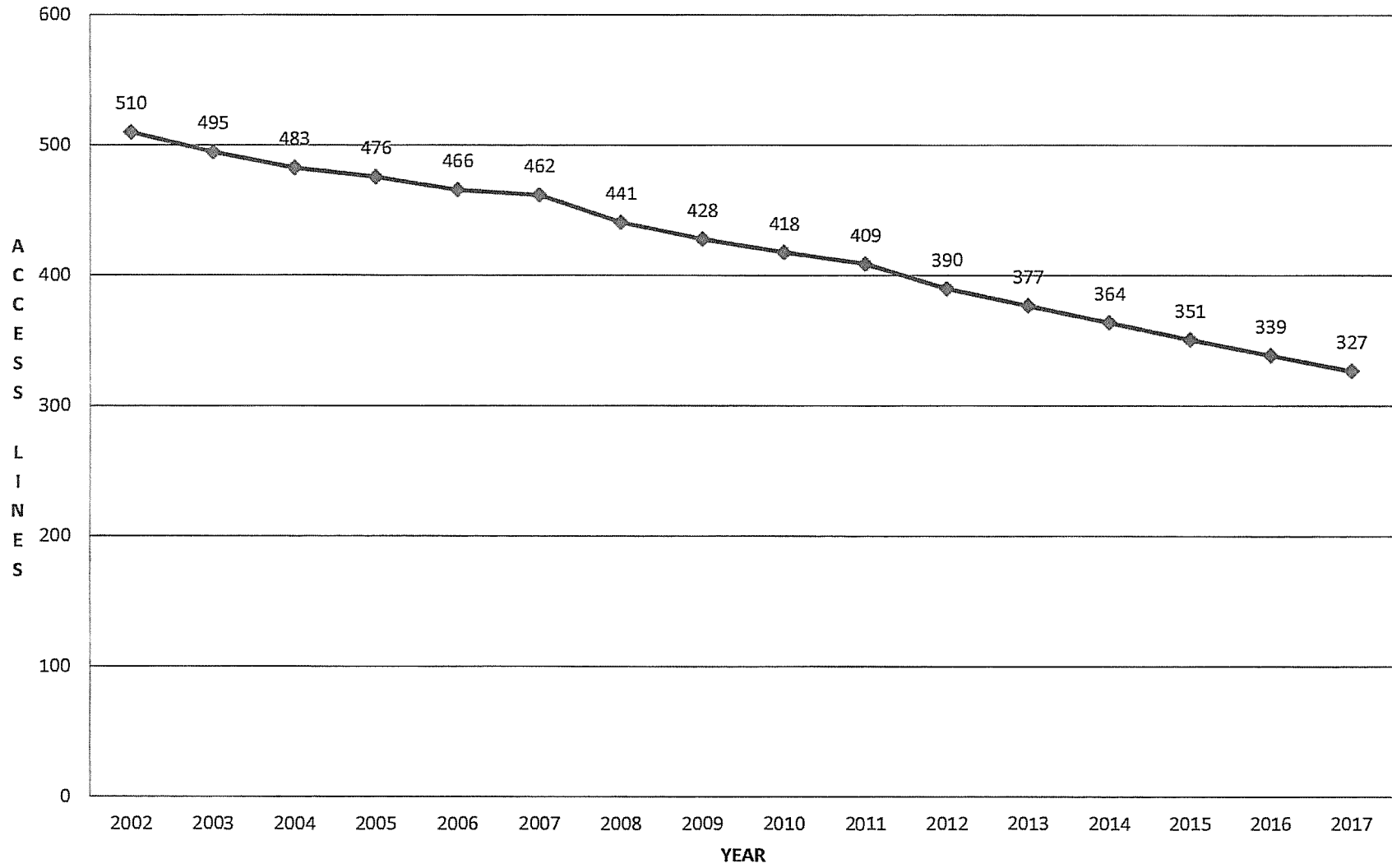
BARLOW EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



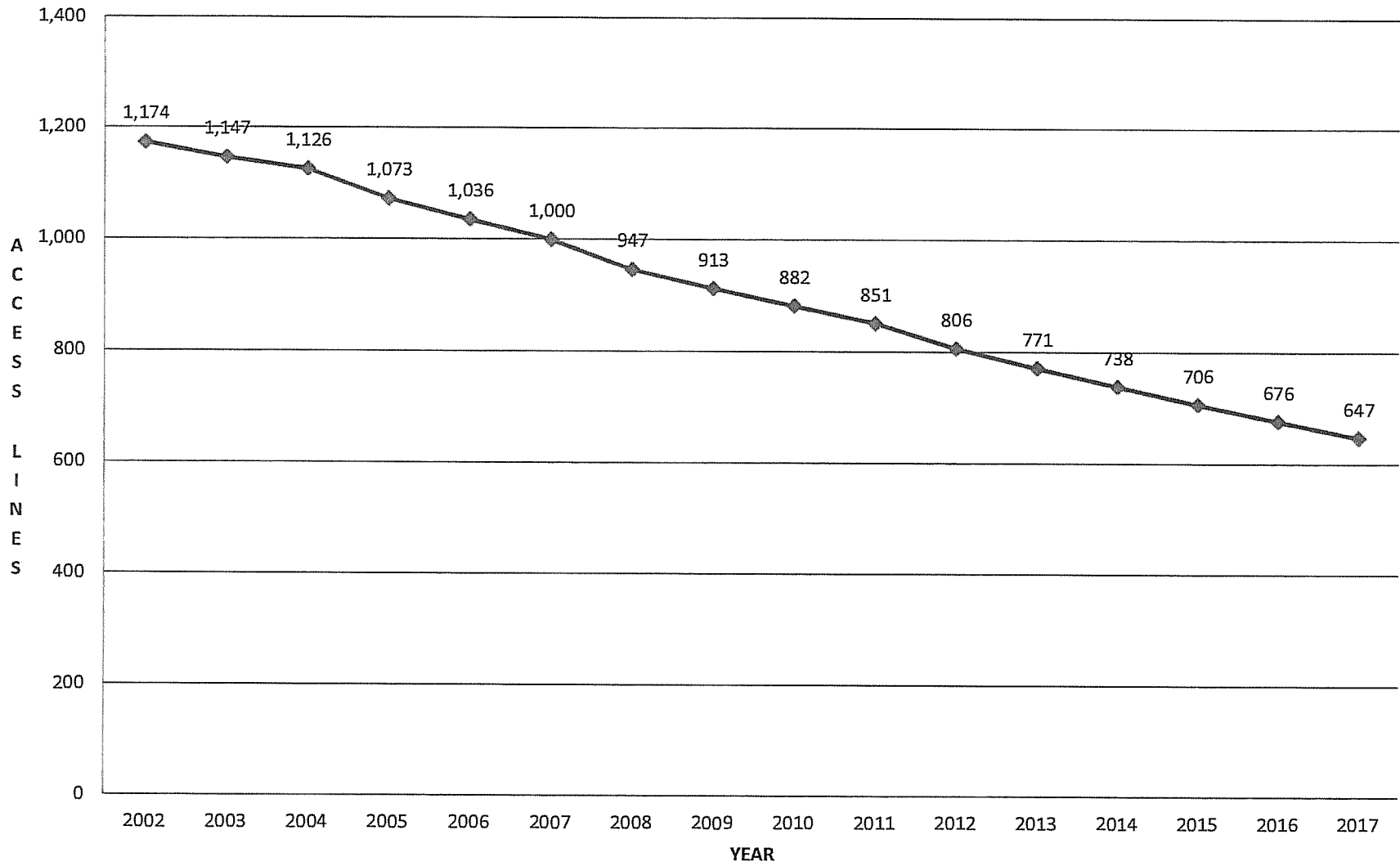
GAGE EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



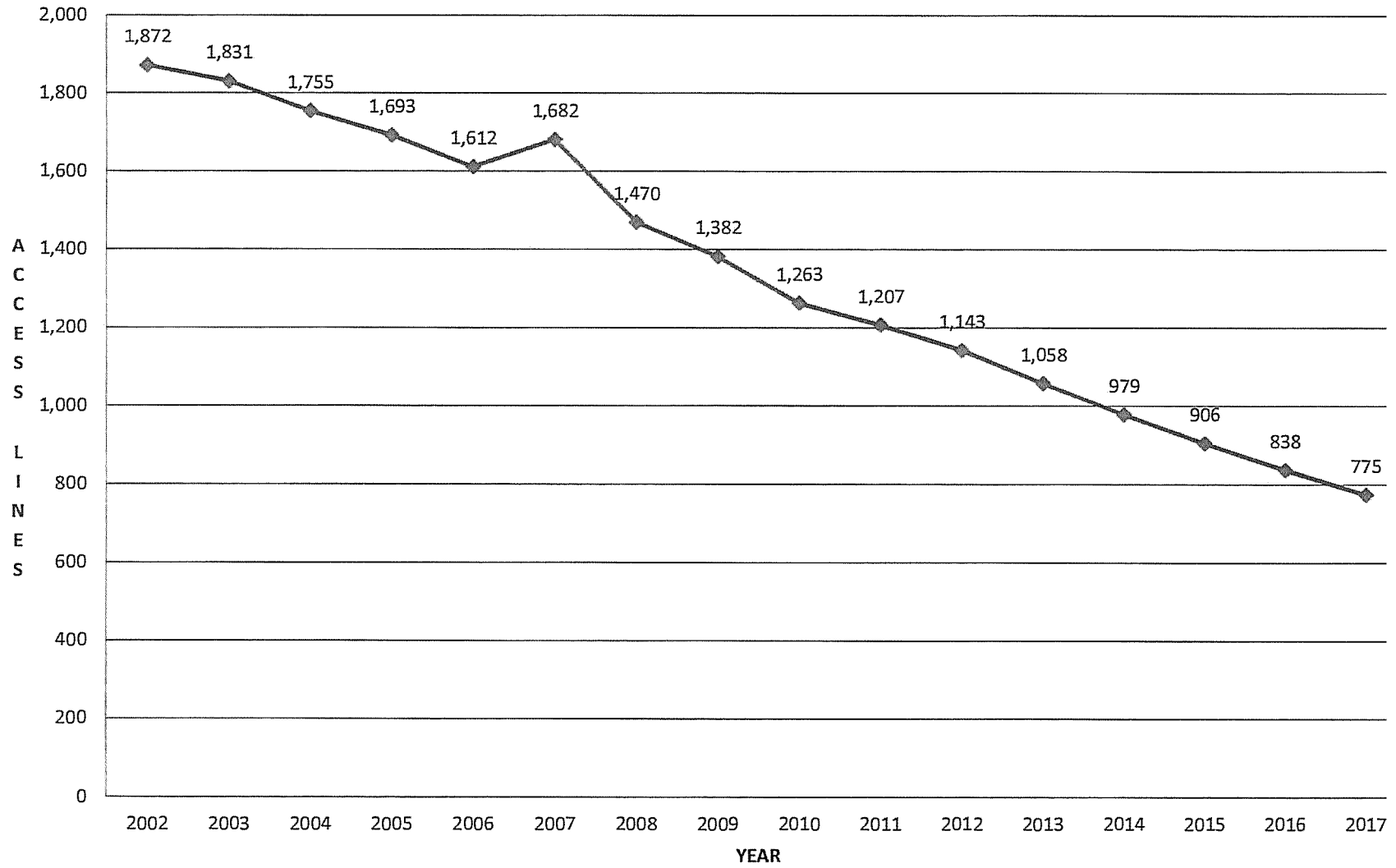
HEATH EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



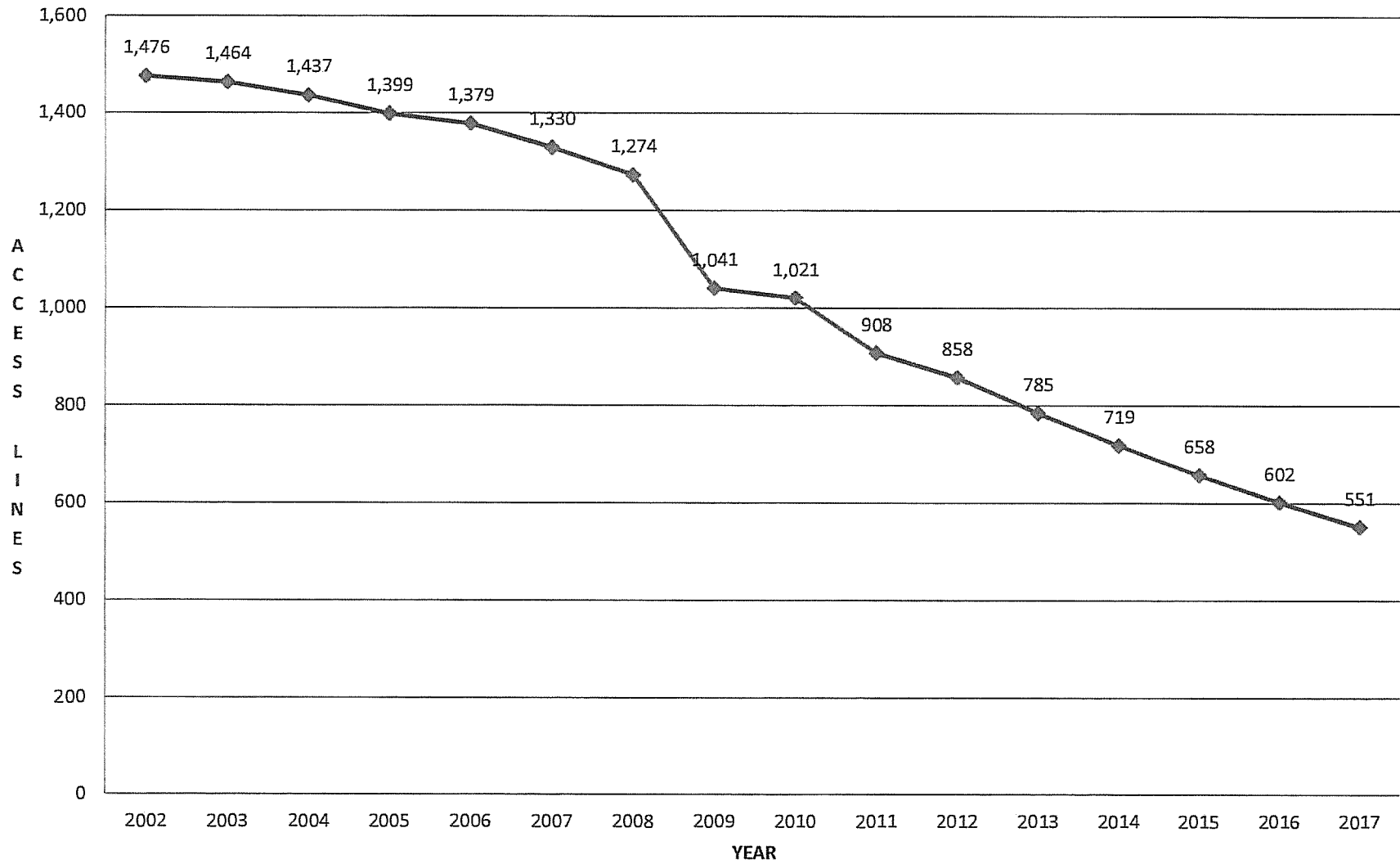
KEVIL EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



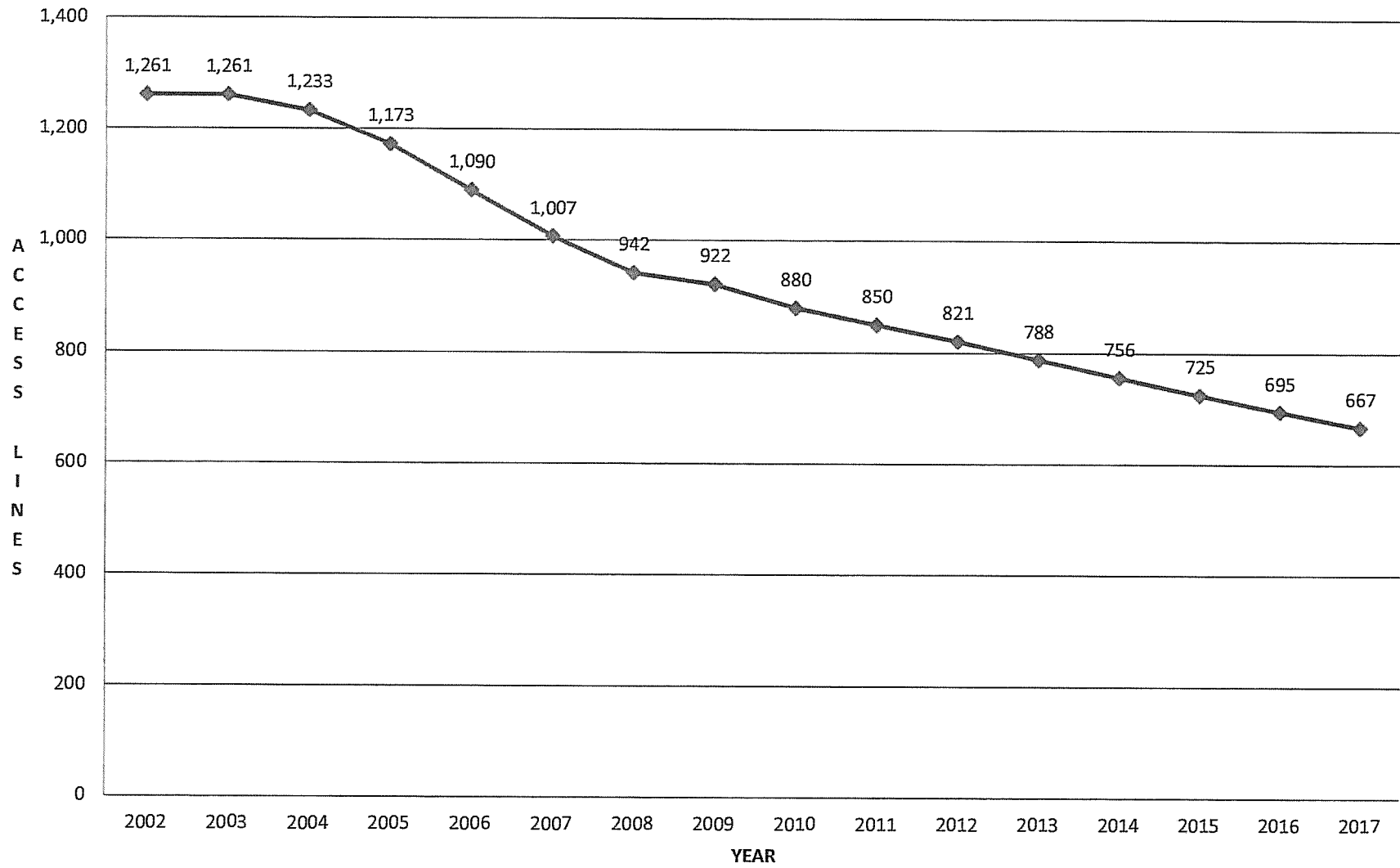
LACENTER EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



WICKLIFFE EXCHANGE

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH



SYSTEM TOTAL

PROJECTIONS BASED ON 2007-2012 AVERAGE GROWTH

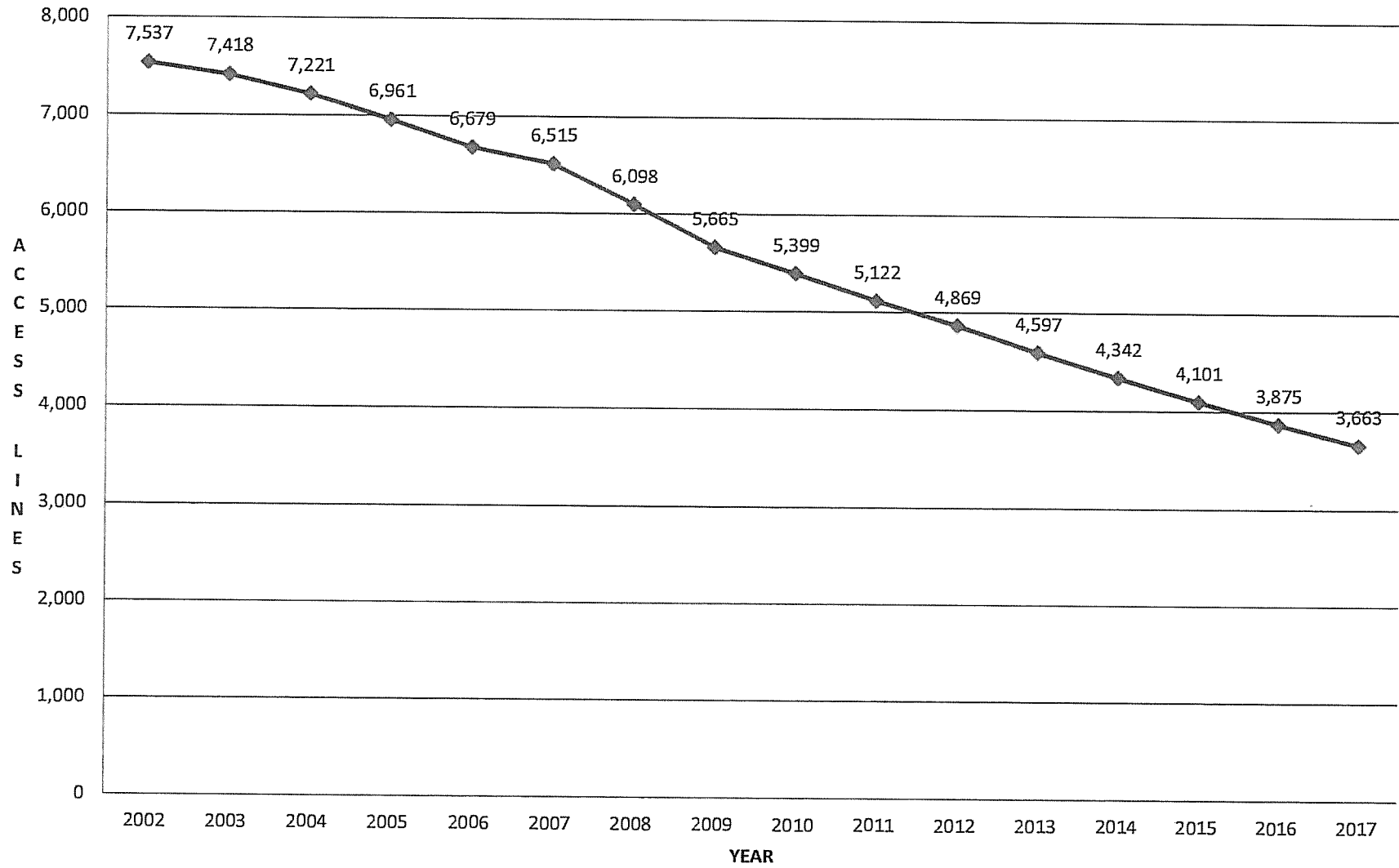


EXHIBIT B
RUS FORMS 494 AND 495

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0079. The time required to complete this information is estimated to average 14 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES		NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION KY 515 P		
		NAME OF EXCHANGE System Summary	STATE KY	
PART A. PROPOSED CONSTRUCTION BUDGET (LOAN OESIGN)				
CENTRAL OFFICE & ELECTRONIC EQUIPMENT Description		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)	
			(FOR RUS USE ONLY) FINANCING APPROVED	
1. NEW SWITCH				
2. ADDITIONS	NEXT GEN SWITCH ADDITIONS	\$ 293,450		
3. UPGRADE	IP TRANSPORT EQUIPMENT	\$ 588,000		
4. OPERATOR SYSTEMS				
5. RADIO SYSTEMS				
6. TOLL ELECTRONICS				
7. EAS ELECTRONICS				
8. LOCAL SERVICE ELECTRONICS	FTTH EQUIPMENT	\$ 2,106,582		
9. OTHER				
10. REMOVALS				
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 2,988,032		
OUTSIDE PLANT				
	ROUTE MILES			
12. BURIED PLANT - METAL				
13. BURIED PLANT - FIBER	420	\$ 17,484,521		
14. AERIAL PLANT - METAL				
15. AERIAL PLANT - FIBER				
16. AERIAL PLANT - POLES				
17. CONDUIT & MANHOLE SYSTEMS				
18. UNDERGROUND CABLE - METAL				
19. UNDERGROUND CABLE - FIBER				
20. OTHER (Describe)				
21. REMOVALS				
22. ROW PROCUREMENT				
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 17,484,521		
LAND & BUILDINGS				
	Location	Size (sq. ft.)		
24. CO BUILDING				
25. HQ BUILDING				
26. WAREHOUSE / GARAGE				
27. LAND				
28. OTHER (Describe)				
29. REMOVALS				
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 20,472,553		
PART B. ROUTE MILES OF PLANT (including drops)		PART D. EAS		
1. EXISTING TO REMAIN AS IS:	924	EXCHANGE 1. EXISTING SERVICE		
2. EXISTING TO BE MODIFIED	420.0			
3. NEW ROUTE				
4. ROUTE RELINQUISHED				
PART C. TELECOMMUNICATIONS PLANT RETIRED		2. NEW SERVICE		
TYPE	ORIGINAL COST (\$)			SALVAGE (\$)
1. COE & ELECTRONIC EQUIPMENT				
2. OUTSIDE PLANT	\$ 117,284			
3. LAND & BUILDINGS				
REMARKS:				

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0572-0079. The time required to complete this information is estimated to average 14 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES		NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION KY 515 P		
		NAME OF EXCHANGE Bandana	STATE KY	
PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)				
CENTRAL OFFICE & ELECTRONIC EQUIPMENT		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)	(FOR RUS USE ONLY) FINANCING APPROVED
1. NEW SWITCH	Description			
2. ADDITIONS				
3. UPGRADE	IP TRANSPORT EQUIPMENT	\$ 84,000		
4. OPERATOR SYSTEMS				
5. RADIO SYSTEMS				
6. TOLL ELECTRONICS				
7. EAS ELECTRONICS				
8. LOCAL SERVICE ELECTRONICS	FTTH EQUIPMENT	\$ 406,475		
9. OTHER				
10. REMOVALS				
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 490,475		
OUTSIDE PLANT				
	ROUTE MILES			
12. BURIED PLANT - METAL				
13. BURIED PLANT - FIBER	105	\$ 4,310,788		
14. AERIAL PLANT - METAL				
15. AERIAL PLANT - FIBER				
16. AERIAL PLANT - POLES				
17. CONDUIT & MANHOLE SYSTEMS				
18. UNDERGROUND CABLE - METAL				
19. UNDERGROUND CABLE - FIBER				
20. OTHER (Describe)				
21. REMOVALS				
22. ROW PROCUREMENT				
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 4,310,788		
LAND & BUILDINGS				
	Location	Size (sq. ft.)		
24. CO BUILDING				
25. HQ BUILDING				
26. WAREHOUSE / GARAGE				
27. LAND				
28. OTHER (Describe)				
29. REMOVALS				
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 4,801,263		
PART B. ROUTE MILES OF PLANT (Including drops)		PART D. EAS		EXCHANGE
1. EXISTING TO REMAIN AS IS:	80.0	1. EXISTING SERVICE		
2. EXISTING TO BE MODIFIED	105.0			
3. NEW ROUTE				
4. ROUTE RELINQUISHED				
PART C. TELECOMMUNICATIONS PLANT RETIRED		2. NEW SERVICE		
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)		
1. COE & ELECTRONIC EQUIPMENT				
2. OUTSIDE PLANT	\$ 24,615			
3. LAND & BUILDINGS				
REMARKS:				

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0078. The time required to complete this information is estimated to average 14 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES		NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation	
		BORROWER and LOAN DESIGNATION KY 515 P	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		NAME OF EXCHANGE Barlow	STATE KY
PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)			
CENTRAL OFFICE & ELECTRONIC EQUIPMENT Description		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)
		(FOR RUS USE ONLY) FINANCING APPROVED	
1. NEW SWITCH			
2. ADDITIONS			
3. UPGRADE	IP TRANSPORT EQUIPMENT	\$ 84,000	
4. OPERATOR SYSTEMS			
5. RADIO SYSTEMS			
6. TOLL ELECTRONICS			
7. EAS ELECTRONICS			
8. LOCAL SERVICE ELECTRONICS	FTTH EQUIPMENT	\$ 500,958	
9. OTHER			
10. REMOVALS			
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 584,958	
OUTSIDE PLANT ROUTE MILES			
12. BURIED PLANT - METAL			
13. BURIED PLANT - FIBER	98	\$ 3,837,779	
14. AERIAL PLANT - METAL			
15. AERIAL PLANT - FIBER			
16. AERIAL PLANT - POLES			
17. CONDUIT & MANHOLE SYSTEMS			
18. UNDERGROUND CABLE - METAL			
19. UNDERGROUND CABLE - FIBER			
20. OTHER (Describe)			
21. REMOVALS			
22. ROW PROCUREMENT			
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 3,837,779	
LAND & BUILDINGS Location Size (sq. ft.)			
24. CO BUILDING			
25. HQ BUILDING			
26. WAREHOUSE / GARAGE			
27. LAND			
28. OTHER (Describe)			
29. REMOVALS			
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -	
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 4,422,737	
PART B. ROUTE MILES OF PLANT (including drops)		PART D. EAS EXCHANGE	
1. EXISTING TO REMAIN AS IS:	20.0	1. EXISTING SERVICE	
2. EXISTING TO BE MODIFIED	98.0		
3. NEW ROUTE			
4. ROUTE RELINQUISHED			
PART C. TELECOMMUNICATIONS PLANT RETIRED		2. NEW SERVICE	
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)	
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT	\$ 30,683		
3. LAND & BUILDINGS			
REMARKS:			

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0572-0079. The time required to complete this information is estimated to average 14 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES	NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation	
	BORROWER and LOAN DESIGNATION KY 515 P	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.	NAME OF EXCHANGE Gage	STATE KY

PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)

		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)	(FOR RUS USE ONLY) FINANCING APPROVED
CENTRAL OFFICE & ELECTRONIC EQUIPMENT				
Description				
1. NEW SWITCH				
2. ADDITIONS				
3. UPGRADE	IP TRANSPORT EQUIPMENT	\$ 84,000		
4. OPERATOR SYSTEMS				
5. RADIO SYSTEMS				
6. TOLL ELECTRONICS				
7. EAS ELECTRONICS				
8. LOCAL SERVICE ELECTRONICS	FTTH EQUIPMENT	\$ 452,969		
9. OTHER				
10. REMOVALS				
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 536,969		
OUTSIDE PLANT				
	ROUTE MILES			
12. BURIED PLANT - METAL				
13. BURIED PLANT - FIBER	105	\$ 4,615,388		
14. AERIAL PLANT - METAL				
15. AERIAL PLANT - FIBER				
16. AERIAL PLANT - POLES				
17. CONDUIT & MANHOLE SYSTEMS				
18. UNDERGROUND CABLE - METAL				
19. UNDERGROUND CABLE - FIBER				
20. OTHER (Describe)				
21. REMOVALS				
22. ROW PROCUREMENT				
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 4,615,388		
LAND & BUILDINGS				
	Location	Size (sq. ft.)		
24. CO BUILDING				
25. HQ BUILDING				
26. WAREHOUSE / GARAGE				
27. LAND				
28. OTHER (Describe)				
29. REMOVALS				
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 5,152,357		

PART B. ROUTE MILES OF PLANT (including drops)			PART D. EAS	EXCHANGE
1. EXISTING TO REMAIN AS IS:	64.0		1. EXISTING SERVICE	
2. EXISTING TO BE MODIFIED	105.0			
3. NEW ROUTE				
4. ROUTE RELINQUISHED				

PART C. TELECOMMUNICATIONS PLANT RETIRED			2. NEW SERVICE
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)	
1. COE & ELECTRONIC EQUIPMENT			
2. OUTSIDE PLANT	\$ 26,959		
3. LAND & BUILDINGS			

REMARKS:

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES		NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION KY 515 P		
		NAME OF EXCHANGE Heath	STATE KY	
PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)				
CENTRAL OFFICE & ELECTRONIC EQUIPMENT		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)	(FOR RUS USE ONLY) FINANCING APPROVED
1. NEW SWITCH	Description			
2. ADDITIONS				
3. UPGRADE	<u>IP TRANSPORT EQUIPMENT</u>	\$ 84,000		
4. OPERATOR SYSTEMS				
5. RADIO SYSTEMS				
6. TOLL ELECTRONICS				
7. EAS ELECTRONICS				
8. LOCAL SERVICE ELECTRONICS				
9. OTHER				
10. REMOVALS				
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 84,000		
OUTSIDE PLANT				
	ROUTE MILES			
12. BURIED PLANT - METAL				
13. BURIED PLANT - FIBER				
14. AERIAL PLANT - METAL				
15. AERIAL PLANT - FIBER				
16. AERIAL PLANT - POLES				
17. CONDUIT & MANHOLE SYSTEMS				
18. UNDERGROUND CABLE - METAL				
19. UNDERGROUND CABLE - FIBER				
20. OTHER (Describe)				
21. REMOVALS				
22. ROW PROCUREMENT				
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ -		
LAND & BUILDINGS				
	Location	Size (sq. ft.)		
24. CO BUILDING				
25. HQ BUILDING				
26. WAREHOUSE / GARAGE				
27. LAND				
28. OTHER (Describe)				
29. REMOVALS				
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 84,000		
PART B. ROUTE MILES OF PLANT (including drops)		PART D. EAS		EXCHANGE
1. EXISTING TO REMAIN AS IS:	<u>165.7</u>	1. EXISTING SERVICE		
2. EXISTING TO BE MODIFIED				
3. NEW ROUTE				
4. ROUTE RELINQUISHED				
PART C. TELECOMMUNICATIONS PLANT RETIRED		2. NEW SERVICE		
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)		
1. COE & ELECTRONIC EQUIPMENT				
2. OUTSIDE PLANT				
3. LAND & BUILDINGS				
REMARKS:				

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UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES	NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation	
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.	BORROWER and LOAN DESIGNATION KY 515 P	
	NAME OF EXCHANGE Kevil	STATE KY

PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)			
CENTRAL OFFICE & ELECTRONIC EQUIPMENT	TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)	(FOR RUS USE ONLY) FINANCING APPROVED
Description			
1. NEW SWITCH			
2. ADDITIONS			
3. UPGRADE			
4. OPERATOR SYSTEMS			
5. RADIO SYSTEMS			
6. TOLL ELECTRONICS			
7. EAS ELECTRONICS			
8. LOCAL SERVICE ELECTRONICS			
9. OTHER			
10. REMOVALS			
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)	\$ 84,000		
OUTSIDE PLANT			
ROUTE MILES			
12. BURIED PLANT - METAL			
13. BURIED PLANT - FIBER			
14. AERIAL PLANT - METAL			
15. AERIAL PLANT - FIBER			
16. AERIAL PLANT - POLES			
17. CONDUIT & MANHOLE SYSTEMS			
18. UNDERGROUND CABLE - METAL			
19. UNDERGROUND CABLE - FIBER			
20. OTHER (Describe)			
21. REMOVALS			
22. ROW PROCUREMENT			
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)	\$ -		
LAND & BUILDINGS			
Location	Size (sq. ft.)		
24. CO BUILDING			
25. HQ BUILDING			
26. WAREHOUSE / GARAGE			
27. LAND			
28. OTHER (Describe)			
29. REMOVALS			
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)	\$ -		
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)	\$ 84,000		

PART B. ROUTE MILES OF PLANT (including drops)	PART D. EAS	EXCHANGE												
1. EXISTING TO REMAIN AS IS: 256.0	1. EXISTING SERVICE													
2. EXISTING TO BE MODIFIED														
3. NEW ROUTE														
4. ROUTE RELINQUISHED														
PART C. TELECOMMUNICATIONS PLANT RETIRED <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:20%;">TYPE</th> <th style="width:30%;">ORIGINAL COST (\$)</th> <th style="width:50%;">SALVAGE (\$)</th> </tr> </thead> <tbody> <tr> <td>1. COE & ELECTRONIC EQUIPMENT</td> <td></td> <td></td> </tr> <tr> <td>2. OUTSIDE PLANT</td> <td></td> <td></td> </tr> <tr> <td>3. LAND & BUILDINGS</td> <td></td> <td></td> </tr> </tbody> </table>	TYPE	ORIGINAL COST (\$)	SALVAGE (\$)	1. COE & ELECTRONIC EQUIPMENT			2. OUTSIDE PLANT			3. LAND & BUILDINGS			2. NEW SERVICE	
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)												
1. COE & ELECTRONIC EQUIPMENT														
2. OUTSIDE PLANT														
3. LAND & BUILDINGS														

REMARKS:

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number for this information collection is 0572-0079. The time required to complete this information is estimated to average 14 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

UNITED STATES DEPARTMENT OF AGRICULTURE RURAL UTILITIES SERVICE CONSTRUCTION COST ESTIMATES		NAME OF BORROWER Ballard Rural Telephone Cooperative Corporation		
INSTRUCTIONS - Prepare one copy of this form for each copy of the Loan Design. For further information, see RUS Bulletin 1737-2. Submission is required.		BORROWER and LOAN DESIGNATION KY 515 P		
		NAME OF EXCHANGE Wickliffe	STATE KY	
PART A. PROPOSED CONSTRUCTION BUDGET (LOAN DESIGN)				
CENTRAL OFFICE & ELECTRONIC EQUIPMENT		TOTAL CONSTRUCTION (\$)	RUS FINANCING REQUESTED (\$)	(FOR RUS USE ONLY) FINANCING APPROVED
1. NEW SWITCH	Description			
2. ADDITIONS				
3. UPGRADE	IP TRANSPORT EQUIPMENT	\$ 84,000		
4. OPERATOR SYSTEMS				
5. RADIO SYSTEMS				
6. TOLL ELECTRONICS				
7. EAS ELECTRONICS				
8. LOCAL SERVICE ELECTRONICS	FTTH EQUIPMENT	\$ 646,390		
9. DTH				
10. REMOVALS				
11. SUBTOTAL COE & ELECTRONIC EQUIP. (1 thru 10)		\$ 730,390		
OUTSIDE PLANT				
	ROUTE MILES			
12. BURIED PLANT - METAL				
13. BURIED PLANT - FIBER	114	\$ 4,720,566		
14. AERIAL PLANT - METAL				
15. AERIAL PLANT - FIBER				
16. AERIAL PLANT - POLES				
17. CONDUIT & MANHOLE SYSTEMS				
18. UNDERGROUND CABLE - METAL				
19. UNDERGROUND CABLE - FIBER				
20. OTHER (Describe)				
21. REMOVALS				
22. ROW PRDCUREMENT				
23. SUBTOTAL OUTSIDE PLANT (12 thru 22)		\$ 4,720,566		
LAND & BUILDINGS				
	Location	Size (sq. ft.)		
24. CO BUILDING				
25. HQ BUILDING				
26. WAREHOUSE / GARAGE				
27. LAND				
28. OTHER (Describe)				
29. REMOVALS				
30. SUBTOTAL LAND & BUILDINGS (24 thru 29)		\$ -		
35. TOTAL EXCHANGE CONSTRUCTION BUDGET (11+23+30)		\$ 5,450,956		
PART B. ROUTE MILES OF PLANT (including drops)		PART D. EAS		EXCHANGE
1. EXISTING TO REMAIN AS IS:	80.0	1. EXISTING SERVICE		
2. EXISTING TO BE MODIFIED	114.0			
3. NEW ROUTE				
4. ROUTE RELINQUISHED				
PART C. TELECOMMUNICATIONS PLANT RETIRED		2. NEW SERVICE		
TYPE	ORIGINAL COST (\$)	SALVAGE (\$)		
1. COE & ELECTRONIC EQUIPMENT				
2. OUTSIDE PLANT	\$ 35,027			
3. LAND & BUILDINGS				
REMARKS:				

EXHIBIT C
SUMMARY OF CONSTRUCTION
COSTS AND SCHEDULE

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Overall Loan Cost Summary

10-BR-11013

CATEGORY	P LOAN AMOUNT
Metaswitch Additions (2014)	\$ 293,450
Ethernet Transport Equipment (2014)	\$ 588,000
LaCenter Calix Equipment (2014)	\$ 99,790
Bandana Calix Equipment (2014)	\$ 406,475
Barlow Calix Equipment (2015)	\$ 500,958
Wickliffe Calix Equipment (2016)	\$ 646,390
Gage Calix Equipment (2017)	\$ 452,969
Bandana 2014 Outside Plant Construction	\$ 4,310,788
Barlow 2015 Outside Plant Construction	\$ 3,837,779
Wickliffe 2016 Outside Plant Construction	\$ 4,720,566
Gage 2017 Outside Plant Construction	\$ 4,615,388
Engineering	\$ 3,547,140
TOTAL	\$ 24,019,693

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Proposed Schedule

	2014	2015	2016	2017
Electronics	\$ 1,387,715	\$ 500,958	\$ 646,390	\$ 452,969
OSP Construction	\$ 4,310,788	\$ 3,837,779	\$ 4,720,566	\$ 4,615,388
Engineering	\$ 874,543	\$ 778,582	\$ 957,676	\$ 936,338
TOTAL	\$ 6,573,046	\$ 5,117,319	\$ 6,324,632	\$ 6,004,695

2014: Softswitch additions
Transport equipment upgrades
Bandana FTTP construction and electronics

2015: Barlow FTTP construction and electronics

2016: Wickliffe FTTP construction and electronics

2017: Gage FTTP construction and electronics

EXHIBIT D
CENTRAL OFFICE EQUIPMENT COSTS

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Central Office Equipment Estimate

10-BR-11013

METASWITCH UPGRADES

Description	Cost
MetaSphere Enhanced Dual Server System DC	\$ 29,492.00
MetaView Server	\$ 11,966.00
CommPortal Assistant base license	\$ 12,500.00
VM only base license	\$ 20,000.00
Live Message Screening Base	\$ 12,500.00
Local CFS Feature Set (capacity addition)	\$ 115,020.00
CommPortal Assistant desktop integration	\$ 16,000.00
Voicemail	\$ 25,000.00
Live Message Screening	\$ 25,000.00
Support Plan - year 1	\$ 16,952.00
Professional Services	\$ 7,250.00
Training	\$ 1,500.00
Shipping	\$ 270.00
TOTAL	\$ 293,450.00

TRANSPORT EQUIPMENT UPGRADES

Description	Cost
10 GigE Transport Card	\$ 36,000.00
10 GigE optical transceivers	\$ 10,000.00
T1 transport cards	\$ 25,000.00
Miscellaneous	\$ 6,000.00
Installation	\$ 5,000.00
Shipping	\$ 2,000.00
TOTAL	\$ 84,000.00

Note: Transport costs are repeated for each exchange

EXHIBIT E
ELECTRONIC EQUIPMENT COSTS

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Electronic Equipment Estimate - Bandana Exchange

10-BR-11013

Part Name	Quantity	Unit Price	Ext. Price
6322-01 GPON OLT Blade	4	\$ 13,702.50	\$ 54,810.00
6440-01 Optical Packet Transport	4	\$ 4,811.10	\$ 19,244.40
6252 ADSL2+ and POTS Blade	6	\$ 6,516.30	\$ 39,097.80
6012i High Capacity Chassis	1	\$ 2,679.60	\$ 2,679.60
6001 1RU Chassis	4	\$ 700.35	\$ 2,801.40
1G SFP 300M MultiMode	4	\$ 91.35	\$ 365.40
1G BiDi SFP 20km 1490X 1310R	7	\$ 319.73	\$ 2,238.08
1G BiDi SFP 20km 1310X 1490R	7	\$ 258.83	\$ 1,811.78
GPON B+ OLT Transceiver	16	\$ 700.35	\$ 11,205.60
2101 ONT Enclosure	359	\$ 30.45	\$ 10,931.55
ON 2107 Enclosure	3	\$ 367.50	\$ 1,102.50
ON 2105 Enclosure	4	\$ 36.75	\$ 147.00
12 VDC UPS, 7.2 Ahr Battery	359	\$ 60.90	\$ 21,863.10
12 VDC UPS, 12 Ahr Battery	7	\$ 73.50	\$ 514.50
716GE ONT (2 POTS)	357	\$ 340.73	\$ 121,638.83
717GE ONT (4 POTS)	2	\$ 356.90	\$ 713.79
ON 2568 GPON Business ONT (8POTS, 2 T1)	4	\$ 903.00	\$ 3,612.00
ON 2364 Active Business ONT (4 POTS, 8 T1)	3	\$ 1,508.22	\$ 4,524.66
ON234x Power Cable	3	\$ 52.50	\$ 157.50
1000 ft spool power cable	9	\$ 656.25	\$ 5,906.25
CO fiber panels, cable racks, etc.	1	\$ 40,000.00	\$ 40,000.00
Optical Splitters	14	\$ 1,500.00	\$ 21,000.00
Miscellaneous	1	\$ 10,000.00	\$ 10,000.00
Sales Tax			\$ 22,581.94
Freight			\$ 7,527.31
TOTAL			\$ 406,474.98

Note: Unit quantities are estimated based on recent FTTP project. Actual quantities may vary.

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Electronic Equipment Estimate - Barlow Exchange

10-BR-11013

Part Name	Quantity	Unit Price	Ext. Price
6322-01 GPON OLT Blade	5	\$ 13,702.50	\$ 68,512.50
6440-01 Optical Packet Transport	6	\$ 4,811.10	\$ 28,866.60
6252 ADSL2+ and POTS Blade	8	\$ 6,516.30	\$ 52,130.40
6012i High Capacity Chassis	1	\$ 2,679.60	\$ 2,679.60
6001 1RU Chassis	4	\$ 700.35	\$ 2,801.40
1G SFP 300M MultiMode	4	\$ 91.35	\$ 365.40
1G BiDi SFP 20km 1490X 1310R	8	\$ 319.73	\$ 2,557.80
1G BiDi SFP 20km 1310X 1490R	8	\$ 258.83	\$ 2,070.60
GPON B+ OLT Transceiver	20	\$ 700.35	\$ 14,007.00
2101 ONT Enclosure	449	\$ 30.45	\$ 13,672.05
ON 2107 Enclosure	4	\$ 367.50	\$ 1,470.00
ON 2105 Enclosure	5	\$ 36.75	\$ 183.75
12 VDC UPS, 7.2 Ahr Battery	449	\$ 60.90	\$ 27,344.10
12 VDC UPS, 12 Ahr Battery	9	\$ 73.50	\$ 661.50
716GE ONT (2 POTS)	445	\$ 340.73	\$ 151,622.63
717GE ONT (4 POTS)	4	\$ 356.90	\$ 1,427.58
ON 2568 GPON Business ONT (8POTS, 2 T1)	5	\$ 903.00	\$ 4,515.00
ON 2364 Active Business ONT (4 POTS, 8 T1)	4	\$ 1,508.22	\$ 6,032.88
ON234x Power Cable	4	\$ 52.50	\$ 210.00
1000 ft spool power cable	11	\$ 656.25	\$ 7,218.75
CO fiber panels, cable racks, etc.	1	\$ 40,000.00	\$ 40,000.00
Optical Splitters	17	\$ 1,500.00	\$ 25,500.00
Miscellaneous	1	\$ 10,000.00	\$ 10,000.00
Sales Tax			\$ 27,830.97
Freight			\$ 9,276.99
TOTAL			\$ 500,957.50

Note: Unit quantities are estimated based on recent FTTP project. Actual quantities may vary.

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Electronic Equipment Estimate - Gage Exchange

10-BR-11013

Part Name	Quantity	Unit Price	Ext. Price
6322-01 GPON OLT Blade	5	\$ 13,702.50	\$ 68,512.50
6440-01 Optical Packet Transport	3	\$ 4,811.10	\$ 14,433.30
6252 ADSL2+ and POTS Blade	8	\$ 6,516.30	\$ 52,130.40
6012i High Capacity Chassis	1	\$ 2,679.60	\$ 2,679.60
6001 1RU Chassis	6	\$ 700.35	\$ 4,202.10
1G SFP 300M MultiMode	4	\$ 91.35	\$ 365.40
1G BiDi SFP 20km 1490X 1310R	8	\$ 319.73	\$ 2,557.80
1G BiDi SFP 20km 1310X 1490R	8	\$ 258.83	\$ 2,070.60
GPON B+ OLT Transceiver	20	\$ 700.35	\$ 14,007.00
2101 ONT Enclosure	393	\$ 30.45	\$ 11,966.85
ON 2107 Enclosure	2	\$ 367.50	\$ 735.00
ON 2105 Enclosure	4	\$ 36.75	\$ 147.00
12 VDC UPS, 7.2 Ahr Battery	393	\$ 60.90	\$ 23,933.70
12 VDC UPS, 12 Ahr Battery	6	\$ 73.50	\$ 441.00
716GE ONT (2 POTS)	391	\$ 340.73	\$ 133,223.48
717GE ONT (4 POTS)	2	\$ 356.90	\$ 713.79
ON 2568 GPON Business ONT (8POTS, 2 T1)	4	\$ 903.00	\$ 3,612.00
ON 2364 Active Business ONT (4 POTS, 8 T1)	2	\$ 1,508.22	\$ 3,016.44
ON234x Power Cable	2	\$ 52.50	\$ 105.00
1000 ft spool power cable	10	\$ 656.25	\$ 6,562.50
CO fiber panels, cable racks, etc.	1	\$ 40,000.00	\$ 40,000.00
Optical Splitters	16	\$ 1,500.00	\$ 24,000.00
Miscellaneous	1	\$ 10,000.00	\$ 10,000.00
Sales Tax			\$ 25,164.93
Freight			\$ 8,388.31
TOTAL			\$ 452,968.69

Note: Unit quantities are estimated based on recent FTTP project. Actual quantities may vary.

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Electronic Equipment Estimate - LaCenter Exchange

10-BR-11013

Part Name	Quantity	Unit Price	Ext. Price
6322-01 GPON OLT Blade		\$ 13,702.50	\$ -
6440-01 Optical Packet Transport		\$ 4,811.10	\$ -
6252 ADSL2+ and POTS Blade	12	\$ 6,516.30	\$ 78,195.60
6012i High Capacity Chassis		\$ 2,679.60	\$ -
6001 1RU Chassis	6	\$ 700.35	\$ 4,202.10
1G SFP 300M MultiMode		\$ 91.35	\$ -
1G BiDi SFP 20km 1490X 1310R		\$ 319.73	\$ -
1G BiDi SFP 20km 1310X 1490R		\$ 258.83	\$ -
GPON B+ OLT Transceiver		\$ 700.35	\$ -
2101 ONT Enclosure		\$ 30.45	\$ -
ON 2107 Enclosure		\$ 367.50	\$ -
ON 2105 Enclosure		\$ 36.75	\$ -
12 VDC UPS, 7.2 Ahr Battery		\$ 60.90	\$ -
12 VDC UPS, 12 Ahr Battery		\$ 73.50	\$ -
716GE ONT (2 POTS)		\$ 340.73	\$ -
717GE ONT (4 POTS)		\$ 356.90	\$ -
ON 2568 GPON Business ONT (8POTS, 2 T1)		\$ 903.00	\$ -
ON 2364 Active Business ONT (4 POTS, 8 T1)		\$ 1,508.22	\$ -
ON234x Power Cable		\$ 52.50	\$ -
1000 ft spool power cable		\$ 656.25	\$ -
CO fiber panels, cable racks, etc.		\$ 40,000.00	\$ -
Optical Splitters		\$ 1,500.00	\$ -
Miscellaneous	1	\$ 10,000.00	\$ 10,000.00
Sales Tax			\$ 5,543.86
Freight			\$ 1,847.95
TOTAL			\$ 99,789.52

Note: Unit quantities are estimated based on recent FTTP project. Actual quantities may vary.

Ballard Rural Telephone Cooperative Corporation
Kentucky 515
P Loan Design
Electronic Equipment Estimate - Wickliffe Exchange

10-BR-11013

Part Name	Quantity	Unit Price	Ext. Price
6322-01 GPON OLT Blade	5	\$ 13,702.50	\$ 68,512.50
6440-01 Optical Packet Transport	15	\$ 4,811.10	\$ 72,166.50
6252 ADSL2+ and POTS Blade	11	\$ 6,516.30	\$ 71,679.30
6012i High Capacity Chassis	1	\$ 2,679.60	\$ 2,679.60
6001 1RU Chassis	6	\$ 700.35	\$ 4,202.10
1G SFP 300M MultiMode	4	\$ 91.35	\$ 365.40
1G BiDi SFP 20km 1490X 1310R	14	\$ 319.73	\$ 4,476.15
1G BiDi SFP 20km 1310X 1490R	14	\$ 258.83	\$ 3,623.55
GPON B+ OLT Transceiver	20	\$ 700.35	\$ 14,007.00
2101 ONT Enclosure	529	\$ 30.45	\$ 16,108.05
ON 2107 Enclosure	8	\$ 367.50	\$ 2,940.00
ON 2105 Enclosure	26	\$ 36.75	\$ 955.50
12 VDC UPS, 7.2 Ahr Battery	529	\$ 60.90	\$ 32,216.10
12 VDC UPS, 12 Ahr Battery	34	\$ 73.50	\$ 2,499.00
716GE ONT (2 POTS)	508	\$ 340.73	\$ 173,088.30
717GE ONT (4 POTS)	21	\$ 356.90	\$ 7,494.80
ON 2568 GPON Business ONT (8POTS, 2 T1)	26	\$ 903.00	\$ 23,478.00
ON 2364 Active Business ONT (4 POTS, 8 T1)	8	\$ 1,508.22	\$ 12,065.76
ON234x Power Cable	8	\$ 52.50	\$ 420.00
1000 ft spool power cable	13	\$ 656.25	\$ 8,531.25
CO fiber panels, cable racks, etc.	1	\$ 40,000.00	\$ 40,000.00
Optical Splitters	18	\$ 1,500.00	\$ 27,000.00
Miscellaneous	1	\$ 10,000.00	\$ 10,000.00
Sales Tax			\$ 35,910.53
Freight			\$ 11,970.18
TOTAL			\$ 646,389.56

Note: Unit quantities are estimated based on recent FTTP project. Actual quantities may vary.

EXHIBIT F
OUTSIDE PLANT COSTS

**BALLAD RURAL TELEPHONE COOPERATIVE CORPORATION
KENTUCKY 515
P LOAN DESIGN
WICKLIFFE EXCHANGE PILOT DESIGN - OSP COST SUMMARY**

Serving Area	Premises Passed	Fiber Drops	Route Miles	Cost Per Route Mile	Drop Miles	Cost Per Drop Mile	Total Miles	Cost
Main	737	280	31.96	\$ 61,539.09	16.44	\$ 17,197.00	48.40	\$ 2,249,508.10
Bethlehem	49	29	6.13	\$ 37,474.54	1.70	\$ 17,204.34	7.83	\$ 258,966.31
Crews	87	54	9.52	\$ 38,541.69	3.17	\$ 17,221.68	12.69	\$ 421,509.62
Deerfield	65	39	12.08	\$ 35,266.33	2.29	\$ 17,198.92	14.37	\$ 465,402.83
Jones	83	50	12.60	\$ 36,204.61	2.94	\$ 17,176.59	15.54	\$ 506,677.32
Slater	33	25	5.12	\$ 36,078.63	1.47	\$ 17,111.44	6.59	\$ 209,876.41
Timberland	58	31	6.29	\$ 38,180.37	1.82	\$ 17,247.21	8.11	\$ 271,544.46
TOTAL	1112	508	83.70	\$ 46,242.51	29.83	\$ 17,197.03	113.53	\$ 4,383,485.06

Town Route Mile = \$61,539 (Main serving area)

Rural Route Mile = \$36,958 (average of Bethlehem, Crews, Deerfield, Jones, Slater, Timberland serving areas)

Drop Mile = \$17,197 (average of all serving areas)

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 TOTAL

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	353	\$236.03	\$83,243.06	\$293.33	\$103,451.62	\$186,694.68
BDO5(1)	118	\$237.63	\$27,935.78	\$347.47	\$40,848.57	\$68,784.36
SUBTOTAL SECTION BDO			\$111,178.84		\$144,300.20	\$255,479.04
BDOS(LCC)	6	\$1,110.13	\$6,660.78	\$6,870.62	\$41,223.72	\$47,884.50
SUBTOTAL SECTION BDS					\$41,223.72	\$47,884.50
4)BFO24D&	1210	\$1.89	\$2,287.37	\$0.57	\$689.84	\$2,977.22
4A)BFO288D	1133	\$1.10	\$1,246.30	\$2.42	\$2,741.86	\$3,988.16
15)BFO96D&	2382	\$2.40	\$5,716.78	\$1.08	\$2,572.55	\$8,289.33
15A)BFO288D	2230	\$1.10	\$2,452.95	\$2.42	\$5,396.48	\$7,849.42
11)BFO96D&	1800	\$2.79	\$5,021.92	\$1.08	\$1,943.97	\$6,965.89
11A)BFO144D&	1685	\$1.02	\$1,718.78	\$1.46	\$2,460.22	\$4,179.00
11B)BFO24D	1685	\$1.02	\$1,718.78	\$0.57	\$960.50	\$2,679.28
12)BFO72D&	1256	\$2.79	\$3,505.52	\$0.86	\$1,080.56	\$4,586.08
12A)BFO144D&	1176	\$1.02	\$1,199.79	\$1.46	\$1,717.34	\$2,917.12
12B)BFO72D	1176	\$1.02	\$1,199.79	\$0.86	\$1,011.58	\$2,211.37
14)BFO144D&	3764	\$2.79	\$10,501.22	\$1.46	\$5,495.26	\$15,996.48
14A)BFO144D&	3524	\$1.02	\$3,594.10	\$1.46	\$5,144.50	\$8,738.60
14B)BFO72D	3524	\$1.02	\$3,594.10	\$0.86	\$3,030.32	\$6,624.42
16)BFO48D&	854	\$2.79	\$2,382.04	\$0.71	\$606.18	\$2,988.22
16A)BFO144D&	799	\$1.02	\$815.27	\$1.46	\$1,166.95	\$1,982.21
16B)BFO288D	799	\$1.12	\$895.19	\$2.42	\$1,934.26	\$2,829.45
20)BFO48D&	3140	\$2.25	\$7,065.11	\$0.71	\$2,229.43	\$9,294.54
20A)BFO144D	2940	\$1.06	\$3,116.00	\$1.46	\$4,291.85	\$7,407.84
BFO24D&	33884	\$1.89	\$64,040.19	\$0.57	\$19,313.71	\$83,353.90
BFO12D	31721	\$1.21	\$38,382.30	\$0.49	\$15,543.25	\$53,925.55
BFO48D&	15867	\$1.89	\$29,989.53	\$0.71	\$11,265.91	\$41,255.44
BFO12D	14855	\$1.21	\$17,974.14	\$0.49	\$7,278.78	\$25,252.92
BFO96D&	14503	\$1.89	\$27,411.04	\$1.08	\$15,663.45	\$43,074.49
BFO12D	13577	\$1.21	\$16,428.73	\$0.49	\$6,652.96	\$23,081.68
BFO144D&	4075	\$1.89	\$7,702.21	\$1.46	\$5,949.85	\$13,652.06
BFO12D	3815	\$1.21	\$4,616.30	\$0.49	\$1,869.41	\$6,485.70
BFO24D&	23461	\$1.89	\$44,341.76	\$0.57	\$13,372.91	\$57,714.67
BFO24D	21964	\$1.21	\$26,576.10	\$0.57	\$12,519.32	\$39,095.42
BFO72D&	11167	\$1.89	\$21,106.21	\$0.86	\$9,603.88	\$30,710.09
BFO24D	10455	\$1.21	\$12,649.95	\$0.57	\$5,959.07	\$18,609.01
BFO96D&	6718	\$1.89	\$12,697.00	\$1.08	\$7,255.43	\$19,952.42
BFO24D	6289	\$1.21	\$7,609.91	\$0.57	\$3,584.83	\$11,194.74
BFO144D&	9924	\$2.84	\$28,184.30	\$1.46	\$14,489.11	\$42,673.42
BFO24D	9291	\$1.06	\$9,848.04	\$0.86	\$7,989.92	\$17,837.95
BFO144D&	3367	\$2.84	\$9,561.42	\$1.46	\$4,915.38	\$14,476.79
BFO72D	3152	\$1.06	\$3,340.91	\$0.86	\$2,710.55	\$6,051.46
BFO12	109092	\$2.18	\$237,820.42	\$0.49	\$53,455.05	\$291,275.47
BFO24	54682	\$2.21	\$120,848.09	\$0.57	\$31,168.97	\$152,017.06
BFO48	87195	\$2.25	\$196,189.23	\$0.71	\$61,908.60	\$258,097.83
BFO48I	328	\$0.55	\$180.33	\$0.69	\$226.23	\$406.56
BFO72	11204	\$2.44	\$27,336.82	\$0.86	\$9,635.11	\$36,971.93
BFO72I	2908	\$0.60	\$1,744.74	\$0.83	\$2,413.56	\$4,158.30
BFO96	25886	\$2.47	\$63,938.78	\$1.08	\$27,957.04	\$91,895.82
BFO96I	2395	\$0.62	\$1,485.02	\$1.05	\$2,514.95	\$3,999.98
BFO144	13766	\$2.52	\$34,690.43	\$1.46	\$20,098.42	\$54,788.85
BFO144I	4520	\$0.62	\$2,802.23	\$1.43	\$6,463.22	\$9,265.45
BFO288I	4903	\$0.70	\$3,431.83	\$2.42	\$11,864.32	\$15,296.15

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 TOTAL

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H	1520	\$10.57	\$16,069.36	\$1.79	\$2,721.30	\$18,790.66
BFOV(5x1.25)H	369	\$12.50	\$4,609.25	\$2.20	\$811.23	\$5,420.48
BFOV(6x1.25)H	526	\$14.50	\$7,631.79	\$2.59	\$1,363.19	\$8,994.98
BFOV(9x1.25)H	183	\$24.90	\$4,565.17	\$3.81	\$698.53	\$5,263.69
BFOV(11x1.25)H	124	\$30.00	\$3,708.00	\$4.50	\$556.20	\$4,264.20
SUBTOTAL SECTION BFO			\$1,167,542.50		\$444,267.27	\$1,611,809.76
BHF(LCC)	6	\$1,075.00	\$6,450.00	\$2,144.98	\$12,869.88	\$19,319.88
BHF(17x30x24)T	126	\$408.75	\$51,382.33	\$571.27	\$71,812.07	\$123,194.39
BHF(24x36x24)T	36	\$519.58	\$18,661.24	\$879.41	\$31,584.89	\$50,246.12
BHF(30x48x30)T	18	\$568.13	\$10,202.48	\$1,526.12	\$27,406.06	\$37,608.54
SUBTOTAL SECTION BH			\$86,696.04		\$143,672.90	\$230,368.94
BM17	1524	\$14.44	\$22,006.56	\$16.25	\$24,765.00	\$46,771.56
BM2	435	\$18.75	\$8,160.75	\$30.28	\$13,179.07	\$21,339.82
BM21	1	\$2,483.33	\$2,483.33	\$2,501.74	\$2,501.74	\$4,985.07
BM2A	301	\$15.00	\$4,519.80	\$11.25	\$3,389.85	\$7,909.65
BM53	511	\$25.13	\$12,830.62	\$35.79	\$18,273.30	\$31,103.92
BM60(1.25)	100138	\$7.18	\$718,990.84	\$0.45	\$45,062.10	\$764,052.94
BM60(2)	7335	\$7.18	\$52,666.74	\$1.31	\$9,609.11	\$62,275.85
BM60(2x1.25)	18901	\$7.55	\$142,704.06	\$0.92	\$17,389.10	\$160,093.16
BM60(3)	2633	\$11.00	\$28,960.80	\$1.68	\$4,423.10	\$33,383.90
BM60(3x1.25)	10227	\$11.03	\$112,800.50	\$1.35	\$13,806.05	\$126,606.55
BM60(6)	5266	\$20.26	\$106,681.06	\$10.14	\$53,393.18	\$160,074.24
BM61(1)	3150	\$7.18	\$22,614.13	\$0.36	\$1,133.88	\$23,747.98
BM73	102	\$90.13	\$9,157.21	\$39.45	\$4,008.12	\$13,165.33
BM83	508	\$18.00	\$9,144.00	\$5.15	\$2,616.20	\$11,760.20
SUBTOTAL SECTION BM			\$1,253,720.39		\$213,549.78	\$1,467,270.18
HBFOM	186	\$235.00	\$43,611.30	\$403.99	\$74,972.46	\$118,583.76
SUBTOTAL SECTION HBF			\$43,611.30		\$74,972.46	\$118,583.76
HO1	7620	\$26.00	\$198,120.00	\$0.44	\$3,352.80	\$201,472.80
SUBTOTAL SECTION HO			\$198,120.00		\$3,352.80	\$201,472.80
ONT3	417	\$130.94	\$54,601.98	\$64.59	\$26,934.03	\$81,536.01
ONT7	91	\$210.00	\$19,110.00	\$177.06	\$16,112.46	\$35,222.46
SUBTOTAL SECTION NID			\$73,711.98		\$43,046.49	\$116,758.47
SEBO6	157480	\$1.81	\$285,038.80	\$0.31	\$48,818.80	\$333,857.60
SUBTOTAL SECTION SE			\$285,038.80		\$48,818.80	\$333,857.60
GRAND TOTAL			\$3,219,619.85		\$1,157,204.42	\$4,383,485.06
Drops	508					
Route Miles	83.70				Per Route Mile:	\$46,242.51
Drop Miles	29.83				Per Drop Mile:	\$17,197.03
Total Miles	113.53				Per Total Miles:	\$38,610.81

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 BETHLEHEM

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	28	\$236.03	\$6,510.89	\$293.33	\$8,091.51	\$14,602.40
BDO5(1)	9	\$237.63	\$2,185.01	\$347.47	\$3,194.99	\$5,379.99
SUBTOTAL SECTION BDO			\$8,695.90		\$11,286.49	\$19,982.39
BDOS(LCC)	1	\$1,110.13	\$1,110.13	\$6,870.62	\$6,870.62	\$7,980.75
SUBTOTAL SECTION BDS					\$6,870.62	\$7,980.75
4)BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
4A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
15)BFO96D&		\$2.40	\$0.00	\$1.08	\$0.00	\$0.00
15A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
11)BFO96D&		\$2.79	\$0.00	\$1.08	\$0.00	\$0.00
11A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
11B)BFO24D		\$1.02	\$0.00	\$0.57	\$0.00	\$0.00
12)BFO72D&		\$2.79	\$0.00	\$0.86	\$0.00	\$0.00
12A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
12B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
14)BFO144D&		\$2.79	\$0.00	\$1.46	\$0.00	\$0.00
14A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
14B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
16)BFO48D&		\$2.79	\$0.00	\$0.71	\$0.00	\$0.00
16A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
16B)BFO288D		\$1.12	\$0.00	\$2.42	\$0.00	\$0.00
20)BFO48D&		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
20A)BFO144D		\$1.06	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D&	3618	\$1.89	\$6,837.16	\$0.57	\$2,062.00	\$8,899.17
BFO12D	3387	\$1.21	\$4,097.83	\$0.49	\$1,659.45	\$5,757.29
BFO48D&		\$1.89	\$0.00	\$0.71	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO96D&	6388	\$1.89	\$12,073.17	\$1.08	\$6,898.95	\$18,972.12
BFO12D	5980	\$1.21	\$7,236.02	\$0.49	\$2,930.29	\$10,166.31
BFO144D&		\$1.89	\$0.00	\$1.46	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO72D&		\$1.89	\$0.00	\$0.86	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO72D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO12	11405	\$2.18	\$24,862.80	\$0.49	\$5,588.43	\$30,451.23
BFO24	4878	\$2.21	\$10,781.28	\$0.57	\$2,780.69	\$13,561.97
BFO48	6058	\$2.25	\$13,630.17	\$0.71	\$4,301.07	\$17,931.24
BFO48I		\$0.55	\$0.00	\$0.69	\$0.00	\$0.00
BFO72		\$2.44	\$0.00	\$0.86	\$0.00	\$0.00
BFO72I		\$0.60	\$0.00	\$0.83	\$0.00	\$0.00
BFO96		\$2.47	\$0.00	\$1.08	\$0.00	\$0.00
BFO96I		\$0.62	\$0.00	\$1.05	\$0.00	\$0.00
BFO144		\$2.52	\$0.00	\$1.46	\$0.00	\$0.00
BFO144I		\$0.62	\$0.00	\$1.43	\$0.00	\$0.00
BFO288I		\$0.70	\$0.00	\$2.42	\$0.00	\$0.00

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 BETHLEHEM

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H		\$10.57	\$0.00	\$1.79	\$0.00	\$0.00
BFOV(5x1.25)H		\$12.50	\$0.00	\$2.20	\$0.00	\$0.00
BFOV(6x1.25)H		\$14.50	\$0.00	\$2.59	\$0.00	\$0.00
BFOV(9x1.25)H		\$24.90	\$0.00	\$3.81	\$0.00	\$0.00
BFOV(11x1.25)H		\$30.00	\$0.00	\$4.50	\$0.00	\$0.00
SUBTOTAL SECTION BFO			\$79,518.44		\$26,220.89	\$105,739.33
BHF(LCC)	1	\$1,075.00	\$1,075.00	\$2,144.98	\$2,144.98	\$3,219.98
BHF(17x30x24)T	4	\$408.75	\$1,753.95	\$571.27	\$2,451.32	\$4,205.27
BHF(24x36x24)T	1	\$519.58	\$637.01	\$879.41	\$1,078.16	\$1,715.16
BHF(30x48x30)T	1	\$568.13	\$348.26	\$1,526.12	\$935.51	\$1,283.78
SUBTOTAL SECTION BH			\$3,814.22		\$6,609.97	\$10,424.18
BM17	87	\$14.44	\$1,256.28	\$16.25	\$1,413.75	\$2,670.03
BM2	32	\$18.75	\$597.68	\$30.28	\$965.21	\$1,562.88
BM21	0	\$2,483.33	\$0.00	\$2,501.74	\$0.00	\$0.00
BM2A	22	\$15.00	\$331.02	\$11.25	\$248.27	\$579.29
BM53	37	\$25.13	\$939.69	\$35.79	\$1,338.30	\$2,277.98
BM60(1.25)	4291	\$7.18	\$30,809.38	\$0.45	\$1,930.95	\$32,740.33
BM60(2)	490	\$7.18	\$3,521.07	\$1.31	\$642.42	\$4,163.50
BM60(2x1.25)	1103	\$7.55	\$8,330.67	\$0.92	\$1,015.13	\$9,345.80
BM60(3)	123	\$11.00	\$1,348.60	\$1.68	\$205.97	\$1,554.57
BM60(3x1.25)	644	\$11.03	\$7,099.46	\$1.35	\$868.93	\$7,968.39
BM60(6)	245	\$20.26	\$4,967.75	\$10.14	\$2,486.33	\$7,454.08
BM61(1)	180	\$7.18	\$1,290.96	\$0.36	\$64.73	\$1,355.69
BM73	6	\$90.13	\$522.75	\$39.45	\$228.81	\$751.56
BM83	29	\$18.00	\$522.00	\$5.15	\$149.35	\$671.35
SUBTOTAL SECTION BM			\$61,537.31		\$11,558.13	\$73,095.44
HBFOM	7	\$235.00	\$1,675.55	\$403.99	\$2,880.45	\$4,556.00
SUBTOTAL SECTION HBF			\$1,675.55		\$2,880.45	\$4,556.00
HO1	435	\$26.00	\$11,310.00	\$0.44	\$191.40	\$11,501.40
SUBTOTAL SECTION HO			\$11,310.00		\$191.40	\$11,501.40
ONT3	24	\$130.94	\$3,142.56	\$64.59	\$1,550.16	\$4,692.72
ONT7	5	\$210.00	\$1,050.00	\$177.06	\$885.30	\$1,935.30
SUBTOTAL SECTION NID			\$4,192.56		\$2,435.46	\$6,628.02
SEB06	8990	\$1.81	\$16,271.90	\$0.31	\$2,786.90	\$19,058.80
SUBTOTAL SECTION SE			\$16,271.90		\$2,786.90	\$19,058.80
GRAND TOTAL			\$187,015.87		\$70,840.31	\$258,966.31
Drops	29					
Route Miles	6.13				Per Route Mile:	\$37,474.54
Drop Miles	1.70				Per Drop Mile:	\$17,204.34
Total Miles	7.83				Per Total Miles:	\$33,073.60

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 CREWS

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	43	\$236.03	\$10,111.53	\$293.33	\$12,566.26	\$22,677.78
BDO5(1)	14	\$237.63	\$3,393.36	\$347.47	\$4,961.87	\$8,355.23
SUBTOTAL SECTION BDO			\$13,504.88		\$17,528.13	\$31,033.01
BDOS(LCC)	1	\$1,110.13	\$1,110.13	\$6,870.62	\$6,870.62	\$7,980.75
SUBTOTAL SECTION BDS					\$6,870.62	\$7,980.75
4)BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
4A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
15)BFO96D&		\$2.40	\$0.00	\$1.08	\$0.00	\$0.00
15A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
11)BFO96D&		\$2.79	\$0.00	\$1.08	\$0.00	\$0.00
11A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
11B)BFO24D		\$1.02	\$0.00	\$0.57	\$0.00	\$0.00
12)BFO72D&		\$2.79	\$0.00	\$0.86	\$0.00	\$0.00
12A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
12B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
14)BFO144D&		\$2.79	\$0.00	\$1.46	\$0.00	\$0.00
14A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
14B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
16)BFO48D&		\$2.79	\$0.00	\$0.71	\$0.00	\$0.00
16A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
16B)BFO288D		\$1.12	\$0.00	\$2.42	\$0.00	\$0.00
20)BFO48D&		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
20A)BFO144D		\$1.06	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D&	9873	\$1.89	\$18,660.80	\$0.57	\$5,627.86	\$24,288.66
BFO12D	9243	\$1.21	\$11,184.30	\$0.49	\$4,529.18	\$15,713.47
BFO48D&		\$1.89	\$0.00	\$0.71	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO144D&		\$1.89	\$0.00	\$1.46	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO72D&	11167	\$1.89	\$21,106.21	\$0.86	\$9,603.88	\$30,710.09
BFO24D	10455	\$1.21	\$12,649.95	\$0.57	\$5,959.07	\$18,609.01
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO72D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO12	12032	\$2.18	\$26,229.95	\$0.49	\$5,895.72	\$32,125.67
BFO24	4491	\$2.21	\$9,925.39	\$0.57	\$2,559.94	\$12,485.34
BFO48		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
BFO48I		\$0.55	\$0.00	\$0.69	\$0.00	\$0.00
BFO72	9042	\$2.44	\$22,061.67	\$0.86	\$7,775.83	\$29,837.50
BFO72I		\$0.60	\$0.00	\$0.83	\$0.00	\$0.00
BFO96	3666	\$2.47	\$9,054.91	\$1.08	\$3,959.23	\$13,014.15
BFO96I		\$0.62	\$0.00	\$1.05	\$0.00	\$0.00
BFO144		\$2.52	\$0.00	\$1.46	\$0.00	\$0.00
BFO144I		\$0.62	\$0.00	\$1.43	\$0.00	\$0.00
BFO288I		\$0.70	\$0.00	\$2.42	\$0.00	\$0.00

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 CREWS

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H		\$10.57	\$0.00	\$1.79	\$0.00	\$0.00
BFOV(5x1.25)H		\$12.50	\$0.00	\$2.20	\$0.00	\$0.00
BFOV(6x1.25)H		\$14.50	\$0.00	\$2.59	\$0.00	\$0.00
BFOV(9x1.25)H		\$24.90	\$0.00	\$3.81	\$0.00	\$0.00
BFOV(11x1.25)H		\$30.00	\$0.00	\$4.50	\$0.00	\$0.00
SUBTOTAL SECTION BFO			\$130,873.17		\$45,910.72	\$176,783.89
BHF(LCC)	1	\$1,075.00	\$1,075.00	\$2,144.98	\$2,144.98	\$3,219.98
BHF(17x30x24)T	7	\$408.75	\$2,723.91	\$571.27	\$3,806.94	\$6,530.85
BHF(24x36x24)T	2	\$519.58	\$989.28	\$879.41	\$1,674.40	\$2,663.68
BHF(30x48x30)T	1	\$568.13	\$540.86	\$1,526.12	\$1,452.87	\$1,993.73
SUBTOTAL SECTION BH			\$5,329.05		\$9,079.19	\$14,408.24
BM17	162	\$14.44	\$2,339.28	\$16.25	\$2,632.50	\$4,971.78
BM2	50	\$18.75	\$928.20	\$30.28	\$1,498.98	\$2,427.18
BM21	0	\$2,483.33	\$0.00	\$2,501.74	\$0.00	\$0.00
BM2A	34	\$15.00	\$514.08	\$11.25	\$385.56	\$899.64
BM53	58	\$25.13	\$1,459.35	\$35.79	\$2,078.40	\$3,537.75
BM60(1.25)	6664	\$7.18	\$47,847.52	\$0.45	\$2,998.80	\$50,846.32
BM60(2)	762	\$7.18	\$5,468.29	\$1.31	\$997.70	\$6,465.98
BM60(2x1.25)	1714	\$7.55	\$12,937.68	\$0.92	\$1,576.51	\$14,514.19
BM60(3)	190	\$11.00	\$2,094.40	\$1.68	\$319.87	\$2,414.27
BM60(3x1.25)	1000	\$11.03	\$11,025.59	\$1.35	\$1,349.46	\$12,375.05
BM60(6)	381	\$20.26	\$7,715.01	\$10.14	\$3,861.31	\$11,576.32
BM61(1)	335	\$7.18	\$2,403.86	\$0.36	\$120.53	\$2,524.39
BM73	11	\$90.13	\$973.40	\$39.45	\$426.06	\$1,399.46
BM83	54	\$18.00	\$972.00	\$5.15	\$278.10	\$1,250.10
SUBTOTAL SECTION BM			\$96,678.66		\$18,523.78	\$115,202.44
HBFOM	11	\$235.00	\$2,472.20	\$403.99	\$4,249.97	\$6,722.17
SUBTOTAL SECTION HBF			\$2,472.20		\$4,249.97	\$6,722.17
HO1	810	\$26.00	\$21,060.00	\$0.44	\$356.40	\$21,416.40
SUBTOTAL SECTION HO			\$21,060.00		\$356.40	\$21,416.40
ONT3	44	\$130.94	\$5,761.36	\$64.59	\$2,841.96	\$8,603.32
ONT7	10	\$210.00	\$2,100.00	\$177.06	\$1,770.60	\$3,870.60
SUBTOTAL SECTION NID			\$7,861.36		\$4,612.56	\$12,473.92
SEBO6	16740	\$1.81	\$30,299.40	\$0.31	\$5,189.40	\$35,488.80
SUBTOTAL SECTION SE			\$30,299.40		\$5,189.40	\$35,488.80
GRAND TOTAL			\$308,078.73		\$112,320.77	\$421,509.62
Drops	54					
Route Miles	9.52			Per Route Mile:		\$38,541.69
Drop Miles	3.17			Per Drop Mile:		\$17,221.68
Total Miles	12.69			Per Total Miles:		\$33,215.89

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 DEERFIELD

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	54	\$236.03	\$12,830.59	\$293.33	\$15,945.42	\$28,776.01
BDO5(1)	18	\$237.63	\$4,305.86	\$347.47	\$6,296.16	\$10,602.01
SUBTOTAL SECTION BDO			\$17,136.45		\$22,241.58	\$39,378.02
BDOS(LCC)	1	\$1,110.13	\$1,110.13	\$6,870.62	\$6,870.62	\$7,980.75
SUBTOTAL SECTION BDS					\$6,870.62	\$7,980.75
4)BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
4A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
15)BFO96D&		\$2.40	\$0.00	\$1.08	\$0.00	\$0.00
15A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
11)BFO96D&		\$2.79	\$0.00	\$1.08	\$0.00	\$0.00
11A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
11B)BFO24D		\$1.02	\$0.00	\$0.57	\$0.00	\$0.00
12)BFO72D&		\$2.79	\$0.00	\$0.86	\$0.00	\$0.00
12A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
12B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
14)BFO144D&		\$2.79	\$0.00	\$1.46	\$0.00	\$0.00
14A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
14B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
16)BFO48D&		\$2.79	\$0.00	\$0.71	\$0.00	\$0.00
16A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
16B)BFO288D		\$1.12	\$0.00	\$2.42	\$0.00	\$0.00
20)BFO48D&		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
20A)BFO144D		\$1.06	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D&	5809	\$1.89	\$10,979.39	\$0.57	\$3,311.24	\$14,290.63
BFO12D	5438	\$1.21	\$6,580.46	\$0.49	\$2,664.82	\$9,245.28
BFO48D&	5316	\$1.89	\$10,047.80	\$0.71	\$3,774.57	\$13,822.38
BFO12D	4977	\$1.21	\$6,022.12	\$0.49	\$2,438.71	\$8,460.83
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO144D&	4075	\$1.89	\$7,702.21	\$1.46	\$5,949.85	\$13,652.06
BFO12D	3815	\$1.21	\$4,616.30	\$0.49	\$1,869.41	\$6,485.70
BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO72D&		\$1.89	\$0.00	\$0.86	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO72D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO12	25534	\$2.18	\$55,664.28	\$0.49	\$12,511.70	\$68,175.98
BFO24	4788	\$2.21	\$10,581.90	\$0.57	\$2,729.27	\$13,311.17
BFO48	18286	\$2.25	\$41,143.00	\$0.71	\$12,982.90	\$54,125.90
BFO48I		\$0.55	\$0.00	\$0.69	\$0.00	\$0.00
BFO72		\$2.44	\$0.00	\$0.86	\$0.00	\$0.00
BFO72I		\$0.60	\$0.00	\$0.83	\$0.00	\$0.00
BFO96		\$2.47	\$0.00	\$1.08	\$0.00	\$0.00
BFO96I		\$0.62	\$0.00	\$1.05	\$0.00	\$0.00
BFO144		\$2.52	\$0.00	\$1.46	\$0.00	\$0.00
BFO144I		\$0.62	\$0.00	\$1.43	\$0.00	\$0.00
BFO288I		\$0.70	\$0.00	\$2.42	\$0.00	\$0.00

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 DEERFIELD

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H		\$10.57	\$0.00	\$1.79	\$0.00	\$0.00
BFOV(5x1.25)H		\$12.50	\$0.00	\$2.20	\$0.00	\$0.00
BFOV(6x1.25)H		\$14.50	\$0.00	\$2.59	\$0.00	\$0.00
BFOV(9x1.25)H		\$24.90	\$0.00	\$3.81	\$0.00	\$0.00
BFOV(11x1.25)H		\$30.00	\$0.00	\$4.50	\$0.00	\$0.00
SUBTOTAL SECTION BFO			\$153,337.46		\$48,232.47	\$201,569.93
BHF(LCC)	1	\$1,075.00	\$1,075.00	\$2,144.98	\$2,144.98	\$3,219.98
BHF(17x30x24)T	8	\$408.75	\$3,456.39	\$571.27	\$4,830.66	\$8,287.05
BHF(24x36x24)T	2	\$519.58	\$1,255.31	\$879.41	\$2,124.65	\$3,379.96
BHF(30x48x30)T	1	\$568.13	\$686.30	\$1,526.12	\$1,843.55	\$2,529.85
SUBTOTAL SECTION BH			\$6,473.00		\$10,943.85	\$17,416.84
BM17	117	\$14.44	\$1,689.48	\$16.25	\$1,901.25	\$3,590.73
BM2	63	\$18.75	\$1,177.80	\$30.28	\$1,902.07	\$3,079.87
BM21	0	\$2,483.33	\$0.00	\$2,501.74	\$0.00	\$0.00
BM2A	43	\$15.00	\$652.32	\$11.25	\$489.24	\$1,141.56
BM53	74	\$25.13	\$1,851.78	\$35.79	\$2,637.29	\$4,489.07
BM60(1.25)	8456	\$7.18	\$60,714.08	\$0.45	\$3,805.20	\$64,519.28
BM60(2)	966	\$7.18	\$6,938.75	\$1.31	\$1,265.98	\$8,204.74
BM60(2x1.25)	2174	\$7.55	\$16,416.72	\$0.92	\$2,000.45	\$18,417.17
BM60(3)	242	\$11.00	\$2,657.60	\$1.68	\$405.89	\$3,063.49
BM60(3x1.25)	1268	\$11.03	\$13,990.45	\$1.35	\$1,712.34	\$15,702.79
BM60(6)	483	\$20.26	\$9,789.63	\$10.14	\$4,899.65	\$14,689.28
BM61(1)	242	\$7.18	\$1,736.12	\$0.36	\$87.05	\$1,823.17
BM73	8	\$90.13	\$703.01	\$39.45	\$307.71	\$1,010.72
BM83	39	\$18.00	\$702.00	\$5.15	\$200.85	\$902.85
SUBTOTAL SECTION BM			\$119,019.75		\$21,614.97	\$140,634.72
HBFOM	13	\$235.00	\$3,073.80	\$403.99	\$5,284.19	\$8,357.99
SUBTOTAL SECTION HBF			\$3,073.80		\$5,284.19	\$8,357.99
HO1	585	\$26.00	\$15,210.00	\$0.44	\$257.40	\$15,467.40
SUBTOTAL SECTION HO			\$15,210.00		\$257.40	\$15,467.40
ONT3	32	\$130.94	\$4,190.08	\$64.59	\$2,066.88	\$6,256.96
ONT7	7	\$210.00	\$1,470.00	\$177.06	\$1,239.42	\$2,709.42
SUBTOTAL SECTION NID			\$5,660.08		\$3,306.30	\$8,966.38
SEB06	12090	\$1.81	\$21,882.90	\$0.31	\$3,747.90	\$25,630.80
SUBTOTAL SECTION SE			\$21,882.90		\$3,747.90	\$25,630.80
GRAND TOTAL			\$341,793.43		\$122,499.27	\$465,402.83
Drops	39					
Route Miles	12.08				Per Route Mile:	\$35,266.33
Drop Miles	2.29				Per Drop Mile:	\$17,198.92
Total Miles	14.37				Per Total Miles:	\$32,387.11

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 JONES

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	57	\$236.03	\$13,382.90	\$293.33	\$16,631.81	\$30,014.71
BDO5(1)	19	\$237.63	\$4,491.21	\$347.47	\$6,567.18	\$11,058.39
SUBTOTAL SECTION BDO			\$17,874.11		\$23,198.99	\$41,073.10
BDO5(LCC)	1	\$1,110.13	\$1,110.13	\$6,870.62	\$6,870.62	\$7,980.75
SUBTOTAL SECTION BDS					\$6,870.62	\$7,980.75
4)BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
4A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
15)BFO96D&		\$2.40	\$0.00	\$1.08	\$0.00	\$0.00
15A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
11)BFO96D&		\$2.79	\$0.00	\$1.08	\$0.00	\$0.00
11A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
11B)BFO24D		\$1.02	\$0.00	\$0.57	\$0.00	\$0.00
12)BFO72D&		\$2.79	\$0.00	\$0.86	\$0.00	\$0.00
12A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
12B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
14)BFO144D&		\$2.79	\$0.00	\$1.46	\$0.00	\$0.00
14A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
14B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
16)BFO48D&		\$2.79	\$0.00	\$0.71	\$0.00	\$0.00
16A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
16B)BFO288D		\$1.12	\$0.00	\$2.42	\$0.00	\$0.00
20)BFO48D&		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
20A)BFO144D		\$1.06	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D&	3552	\$1.89	\$6,712.40	\$0.57	\$2,024.37	\$8,736.77
BFO12D	3325	\$1.21	\$4,023.06	\$0.49	\$1,629.17	\$5,652.23
BFO48D&		\$1.89	\$0.00	\$0.71	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO96D&	3424	\$1.89	\$6,471.18	\$1.08	\$3,697.82	\$10,169.00
BFO12D	3205	\$1.21	\$3,878.49	\$0.49	\$1,570.63	\$5,449.11
BFO144D&		\$1.89	\$0.00	\$1.46	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO24D&	6958	\$1.89	\$13,150.31	\$0.57	\$3,965.97	\$17,116.28
BFO24D	6514	\$1.21	\$7,881.60	\$0.57	\$3,712.82	\$11,594.42
BFO72D&		\$1.89	\$0.00	\$0.86	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO96D&	6718	\$1.89	\$12,697.00	\$1.08	\$7,255.43	\$19,952.42
BFO24D	6289	\$1.21	\$7,609.91	\$0.57	\$3,584.83	\$11,194.74
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO72D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO12	15762	\$2.18	\$34,360.85	\$0.49	\$7,723.31	\$42,084.16
BFO24	15498	\$2.21	\$34,250.14	\$0.57	\$8,833.75	\$43,083.89
BFO48	14609	\$2.25	\$32,869.84	\$0.71	\$10,372.26	\$43,242.10
BFO48I		\$0.55	\$0.00	\$0.69	\$0.00	\$0.00
BFO72		\$2.44	\$0.00	\$0.86	\$0.00	\$0.00
BFO72I		\$0.60	\$0.00	\$0.83	\$0.00	\$0.00
BFO96		\$2.47	\$0.00	\$1.08	\$0.00	\$0.00
BFO96I		\$0.62	\$0.00	\$1.05	\$0.00	\$0.00
BFO144		\$2.52	\$0.00	\$1.46	\$0.00	\$0.00
BFO144I		\$0.62	\$0.00	\$1.43	\$0.00	\$0.00
BFO288I		\$0.70	\$0.00	\$2.42	\$0.00	\$0.00

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 JONES

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H		\$10.57	\$0.00	\$1.79	\$0.00	\$0.00
BFOV(5x1.25)H		\$12.50	\$0.00	\$2.20	\$0.00	\$0.00
BFOV(6x1.25)H		\$14.50	\$0.00	\$2.59	\$0.00	\$0.00
BFOV(9x1.25)H		\$24.90	\$0.00	\$3.81	\$0.00	\$0.00
BFOV(11x1.25)H		\$30.00	\$0.00	\$4.50	\$0.00	\$0.00
SUBTOTAL SECTION BFO			\$163,904.77		\$54,370.36	\$218,275.13
BHF(LCC)	1	\$1,075.00	\$1,075.00	\$2,144.98	\$2,144.98	\$3,219.98
BHF(17x30x24)T	9	\$408.75	\$3,605.18	\$571.27	\$5,038.60	\$8,643.78
BHF(24x36x24)T	3	\$519.58	\$1,309.34	\$879.41	\$2,216.11	\$3,525.45
BHF(30x48x30)T	1	\$568.13	\$715.84	\$1,526.12	\$1,922.91	\$2,638.76
SUBTOTAL SECTION BH			\$6,705.36		\$11,322.61	\$18,027.97
BM17	150	\$14.44	\$2,166.00	\$16.25	\$2,437.50	\$4,603.50
BM2	66	\$18.75	\$1,228.50	\$30.28	\$1,983.95	\$3,212.45
BM21	0	\$2,483.33	\$0.00	\$2,501.74	\$0.00	\$0.00
BM2A	45	\$15.00	\$680.40	\$11.25	\$510.30	\$1,190.70
BM53	77	\$25.13	\$1,931.49	\$35.79	\$2,750.82	\$4,682.31
BM60(1.25)	8820	\$7.18	\$63,327.60	\$0.45	\$3,969.00	\$67,296.60
BM60(2)	1008	\$7.18	\$7,237.44	\$1.31	\$1,320.48	\$8,557.92
BM60(2x1.25)	2268	\$7.55	\$17,123.40	\$0.92	\$2,086.56	\$19,209.96
BM60(3)	252	\$11.00	\$2,772.00	\$1.68	\$423.36	\$3,195.36
BM60(3x1.25)	1323	\$11.03	\$14,592.69	\$1.35	\$1,786.05	\$16,378.74
BM60(6)	504	\$20.26	\$10,211.04	\$10.14	\$5,110.56	\$15,321.60
BM61(1)	310	\$7.18	\$2,225.80	\$0.36	\$111.60	\$2,337.40
BM73	10	\$90.13	\$901.30	\$39.45	\$394.50	\$1,295.80
BM83	50	\$18.00	\$900.00	\$5.15	\$257.50	\$1,157.50
SUBTOTAL SECTION BM			\$125,297.66		\$23,142.18	\$148,439.84
HBFOM	14	\$235.00	\$3,196.00	\$403.99	\$5,494.26	\$8,690.26
SUBTOTAL SECTION HBF			\$3,196.00		\$5,494.26	\$8,690.26
HO1	750	\$26.00	\$19,500.00	\$0.44	\$330.00	\$19,830.00
SUBTOTAL SECTION HO			\$19,500.00		\$330.00	\$19,830.00
ONT3	41	\$130.94	\$5,368.54	\$64.59	\$2,648.19	\$8,016.73
ONT7	9	\$210.00	\$1,890.00	\$177.06	\$1,593.54	\$3,483.54
SUBTOTAL SECTION NID			\$7,258.54		\$4,241.73	\$11,500.27
SEBO6	15500	\$1.81	\$28,055.00	\$0.31	\$4,805.00	\$32,860.00
SUBTOTAL SECTION SE			\$28,055.00		\$4,805.00	\$32,860.00
GRAND TOTAL			\$371,791.44		\$133,775.74	\$506,677.32
Drops	50					
Route Miles	12.60				Per Route Mile:	\$36,204.61
Drop Miles	2.94				Per Drop Mile:	\$17,176.59
Total Miles	15.54				Per Total Miles:	\$32,604.72

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 MAIN WICKLIFFE

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	120	\$236.03	\$28,288.20	\$293.33	\$35,155.60	\$63,443.80
BDO5(1)	40	\$237.63	\$9,493.32	\$347.47	\$13,881.43	\$23,374.75
SUBTOTAL SECTION BDO			\$37,781.51		\$49,037.03	\$86,818.54
BDOS(LCC)	0	\$1,110.13	\$0.00	\$6,870.62	\$0.00	\$0.00
SUBTOTAL SECTION BDS					\$0.00	\$0.00
4)BFO24D&	1210	\$1.89	\$2,287.37	\$0.57	\$689.84	\$2,977.22
4A)BFO288D	1133	\$1.10	\$1,246.30	\$2.42	\$2,741.86	\$3,988.16
15)BFO96D&	2382	\$2.40	\$5,716.78	\$1.08	\$2,572.55	\$8,289.33
15A)BFO288D	2230	\$1.10	\$2,452.95	\$2.42	\$5,396.48	\$7,849.42
11)BFO96D&	1800	\$2.79	\$5,021.92	\$1.08	\$1,943.97	\$6,965.89
11A)BFO144D&	1685	\$1.02	\$1,718.78	\$1.46	\$2,460.22	\$4,179.00
11B)BFO24D	1685	\$1.02	\$1,718.78	\$0.57	\$960.50	\$2,679.28
12)BFO72D&	1256	\$2.79	\$3,505.52	\$0.86	\$1,080.56	\$4,586.08
12A)BFO144D&	1176	\$1.02	\$1,199.79	\$1.46	\$1,717.34	\$2,917.12
12B)BFO72D	1176	\$1.02	\$1,199.79	\$0.86	\$1,011.58	\$2,211.37
14)BFO144D&	3764	\$2.79	\$10,501.22	\$1.46	\$5,495.26	\$15,996.48
14A)BFO144D&	3524	\$1.02	\$3,594.10	\$1.46	\$5,144.50	\$8,738.60
14B)BFO72D	3524	\$1.02	\$3,594.10	\$0.86	\$3,030.32	\$6,624.42
16)BFO48D&	854	\$2.79	\$2,382.04	\$0.71	\$606.18	\$2,988.22
16A)BFO144D&	799	\$1.02	\$815.27	\$1.46	\$1,166.95	\$1,982.21
16B)BFO288D	799	\$1.12	\$895.19	\$2.42	\$1,934.26	\$2,829.45
20)BFO48D&	3140	\$2.25	\$7,065.11	\$0.71	\$2,229.43	\$9,294.54
20A)BFO144D	2940	\$1.06	\$3,116.00	\$1.46	\$4,291.85	\$7,407.84
BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO48D&	10551	\$1.89	\$19,941.73	\$0.71	\$7,491.34	\$27,433.07
BFO12D	9878	\$1.21	\$11,952.02	\$0.49	\$4,840.07	\$16,792.09
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO144D&		\$1.89	\$0.00	\$1.46	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO24D&	16503	\$1.89	\$31,191.44	\$0.57	\$9,406.94	\$40,598.39
BFO24D	15450	\$1.21	\$18,694.50	\$0.57	\$8,806.50	\$27,501.00
BFO72D&		\$1.89	\$0.00	\$0.86	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO144D&	9924	\$2.84	\$28,184.30	\$1.46	\$14,489.11	\$42,673.42
BFO24D	9291	\$1.06	\$9,848.04	\$0.86	\$7,989.92	\$17,837.95
BFO144D&	3367	\$2.84	\$9,561.42	\$1.46	\$4,915.38	\$14,476.79
BFO72D	3152	\$1.06	\$3,340.91	\$0.86	\$2,710.55	\$6,051.46
BFO12	29884	\$2.18	\$65,147.93	\$0.49	\$14,643.34	\$79,791.28
BFO24	13382	\$2.21	\$29,574.36	\$0.57	\$7,627.78	\$37,202.14
BFO48	29858	\$2.25	\$67,180.43	\$0.71	\$21,199.16	\$88,379.58
BFO48I	328	\$0.55	\$180.33	\$0.69	\$226.23	\$406.56
BFO72	2162	\$2.44	\$5,275.15	\$0.86	\$1,859.27	\$7,134.42
BFO72I	2908	\$0.60	\$1,744.74	\$0.83	\$2,413.56	\$4,158.30
BFO96	22220	\$2.47	\$54,883.87	\$1.08	\$23,997.81	\$78,881.67
BFO96I	2395	\$0.62	\$1,485.02	\$1.05	\$2,514.95	\$3,999.98
BFO144	13766	\$2.52	\$34,690.43	\$1.46	\$20,098.42	\$54,788.85
BFO144I	4520	\$0.62	\$2,802.23	\$1.43	\$6,463.22	\$9,265.45
BFO288I	4903	\$0.70	\$3,431.83	\$2.42	\$11,864.32	\$15,296.15

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 MAIN WICKLIFFE

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H	1520	\$10.57	\$16,069.36	\$1.79	\$2,721.30	\$18,790.66
BFOV(5x1.25)H	369	\$12.50	\$4,609.25	\$2.20	\$811.23	\$5,420.48
BFOV(6x1.25)H	526	\$14.50	\$7,631.79	\$2.59	\$1,363.19	\$8,994.98
BFOV(9x1.25)H	183	\$24.90	\$4,565.17	\$3.81	\$698.53	\$5,263.69
BFOV(11x1.25)H	124	\$30.00	\$3,708.00	\$4.50	\$556.20	\$4,264.20
SUBTOTAL SECTION BFO			\$493,725.24		\$224,181.96	\$717,907.20
BHF(LCC)	0	\$1,075.00	\$0.00	\$2,144.98	\$0.00	\$0.00
BHF(17x30x24)T	89	\$408.75	\$36,578.22	\$571.27	\$51,121.81	\$87,700.03
BHF(24x36x24)T	26	\$519.58	\$13,284.62	\$879.41	\$22,484.75	\$35,769.38
BHF(30x48x30)T	13	\$568.13	\$7,262.97	\$1,526.12	\$19,509.92	\$26,772.89
SUBTOTAL SECTION BH			\$57,125.82		\$93,116.48	\$150,242.30
BM17	840	\$14.44	\$12,129.60	\$16.25	\$13,650.00	\$25,779.60
BM2	166	\$18.75	\$3,116.10	\$30.28	\$5,032.29	\$8,148.39
BM21	1	\$2,483.33	\$2,483.33	\$2,501.74	\$2,501.74	\$4,985.07
BM2A	115	\$15.00	\$1,725.84	\$11.25	\$1,294.38	\$3,020.22
BM53	195	\$25.13	\$4,899.24	\$35.79	\$6,977.48	\$11,876.72
BM60(1.25)	63920	\$7.18	\$458,945.60	\$0.45	\$28,764.00	\$487,709.60
BM60(2)	3196	\$7.18	\$22,947.28	\$1.31	\$4,186.76	\$27,134.04
BM60(2x1.25)	9588	\$7.55	\$72,389.40	\$0.92	\$8,820.96	\$81,210.36
BM60(3)	1598	\$11.00	\$17,578.00	\$1.68	\$2,684.64	\$20,262.64
BM60(3x1.25)	4794	\$11.03	\$52,877.82	\$1.35	\$6,471.90	\$59,349.72
BM60(6)	3196	\$20.26	\$64,750.96	\$10.14	\$32,407.44	\$97,158.40
BM61(1)	1736	\$7.18	\$12,464.48	\$0.36	\$624.96	\$13,089.44
BM73	56	\$90.13	\$5,047.28	\$39.45	\$2,209.20	\$7,256.48
BM83	280	\$18.00	\$5,040.00	\$5.15	\$1,442.00	\$6,482.00
SUBTOTAL SECTION BM			\$736,394.93		\$117,067.75	\$853,462.68
HBFOM	128	\$235.00	\$30,042.40	\$403.99	\$51,646.08	\$81,688.48
SUBTOTAL SECTION HBF			\$30,042.40		\$51,646.08	\$81,688.48
HO1	4200	\$26.00	\$109,200.00	\$0.44	\$1,848.00	\$111,048.00
SUBTOTAL SECTION HO			\$109,200.00		\$1,848.00	\$111,048.00
ONT3	230	\$130.94	\$30,116.20	\$64.59	\$14,855.70	\$44,971.90
ONT7	50	\$210.00	\$10,500.00	\$177.06	\$8,853.00	\$19,353.00
SUBTOTAL SECTION NID			\$40,616.20		\$23,708.70	\$64,324.90
SEBO6	86800	\$1.81	\$157,108.00	\$0.31	\$26,908.00	\$184,016.00
SUBTOTAL SECTION SE			\$157,108.00		\$26,908.00	\$184,016.00
GRAND TOTAL			\$1,661,994.10		\$587,514.00	\$2,249,508.10
Drops	280					
Route Miles	31.96				Per Route Mile:	\$61,539.09
Drop Miles	16.44				Per Drop Mile:	\$17,197.00
Total Miles	48.40				Per Total Miles:	\$46,477.44

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 SLATER

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	23	\$236.03	\$5,438.13	\$293.33	\$6,758.32	\$12,196.45
BDO5(1)	8	\$237.63	\$1,825.00	\$347.47	\$2,668.57	\$4,493.57
SUBTOTAL SECTION BDO			\$7,263.13		\$9,426.89	\$16,690.02
BDOS(LCC)	1	\$1,110.13	\$1,110.13	\$6,870.62	\$6,870.62	\$7,980.75
SUBTOTAL SECTION BDS					\$6,870.62	\$7,980.75
4)BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
4A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
15)BFO96D&		\$2.40	\$0.00	\$1.08	\$0.00	\$0.00
15A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
11)BFO96D&		\$2.79	\$0.00	\$1.08	\$0.00	\$0.00
11A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
11B)BFO24D		\$1.02	\$0.00	\$0.57	\$0.00	\$0.00
12)BFO72D&		\$2.79	\$0.00	\$0.86	\$0.00	\$0.00
12A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
12B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
14)BFO144D&		\$2.79	\$0.00	\$1.46	\$0.00	\$0.00
14A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
14B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
16)BFO48D&		\$2.79	\$0.00	\$0.71	\$0.00	\$0.00
16A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
16B)BFO288D		\$1.12	\$0.00	\$2.42	\$0.00	\$0.00
20)BFO48D&		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
20A)BFO144D		\$1.06	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D&	2854	\$1.89	\$5,394.04	\$0.57	\$1,626.77	\$7,020.81
BFO12D	2672	\$1.21	\$3,232.90	\$0.49	\$1,309.19	\$4,542.09
BFO48D&		\$1.89	\$0.00	\$0.71	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO144D&		\$1.89	\$0.00	\$1.46	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO72D&		\$1.89	\$0.00	\$0.86	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO72D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO12	11951	\$2.18	\$26,052.46	\$0.49	\$5,855.83	\$31,908.29
BFO24	4403	\$2.21	\$9,730.87	\$0.57	\$2,509.77	\$12,240.64
BFO48	7820	\$2.25	\$17,595.93	\$0.71	\$5,552.49	\$23,148.43
BFO48I		\$0.55	\$0.00	\$0.69	\$0.00	\$0.00
BFO72		\$2.44	\$0.00	\$0.86	\$0.00	\$0.00
BFO72I		\$0.60	\$0.00	\$0.83	\$0.00	\$0.00
BFO96		\$2.47	\$0.00	\$1.08	\$0.00	\$0.00
BFO96I		\$0.62	\$0.00	\$1.05	\$0.00	\$0.00
BFO144		\$2.52	\$0.00	\$1.46	\$0.00	\$0.00
BFO144I		\$0.62	\$0.00	\$1.43	\$0.00	\$0.00
BFO288I		\$0.70	\$0.00	\$2.42	\$0.00	\$0.00

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 SLATER

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H		\$10.57	\$0.00	\$1.79	\$0.00	\$0.00
BFOV(5x1.25)H		\$12.50	\$0.00	\$2.20	\$0.00	\$0.00
BFOV(6x1.25)H		\$14.50	\$0.00	\$2.59	\$0.00	\$0.00
BFOV(9x1.25)H		\$24.90	\$0.00	\$3.81	\$0.00	\$0.00
BFOV(11x1.25)H		\$30.00	\$0.00	\$4.50	\$0.00	\$0.00
SUBTOTAL SECTION BFO			\$62,006.21		\$16,854.06	\$78,860.27
BHF(LCC)	1	\$1,075.00	\$1,075.00	\$2,144.98	\$2,144.98	\$3,219.98
BHF(17x30x24)T	4	\$408.75	\$1,464.96	\$571.27	\$2,047.43	\$3,512.39
BHF(24x36x24)T	1	\$519.58	\$532.05	\$879.41	\$900.52	\$1,432.57
BHF(30x48x30)T	1	\$568.13	\$290.88	\$1,526.12	\$781.37	\$1,072.26
SUBTOTAL SECTION BH			\$3,362.89		\$5,874.30	\$9,237.19
BM17	75	\$14.44	\$1,083.00	\$16.25	\$1,218.75	\$2,301.75
BM2	27	\$18.75	\$499.20	\$30.28	\$806.17	\$1,305.37
BM21	0	\$2,483.33	\$0.00	\$2,501.74	\$0.00	\$0.00
BM2A	18	\$15.00	\$276.48	\$11.25	\$207.36	\$483.84
BM53	31	\$25.13	\$784.86	\$35.79	\$1,117.79	\$1,902.65
BM60(1.25)	3584	\$7.18	\$25,733.12	\$0.45	\$1,612.80	\$27,345.92
BM60(2)	410	\$7.18	\$2,940.93	\$1.31	\$536.58	\$3,477.50
BM60(2x1.25)	922	\$7.55	\$6,958.08	\$0.92	\$847.87	\$7,805.95
BM60(3)	102	\$11.00	\$1,126.40	\$1.68	\$172.03	\$1,298.43
BM60(3x1.25)	538	\$11.03	\$5,929.73	\$1.35	\$725.76	\$6,655.49
BM60(6)	205	\$20.26	\$4,149.25	\$10.14	\$2,076.67	\$6,225.92
BM61(1)	155	\$7.18	\$1,112.90	\$0.36	\$55.80	\$1,168.70
BM73	5	\$90.13	\$450.65	\$39.45	\$197.25	\$647.90
BM83	25	\$18.00	\$450.00	\$5.15	\$128.75	\$578.75
SUBTOTAL SECTION BM			\$51,494.59		\$9,703.59	\$61,198.18
HBFOM	6	\$235.00	\$1,438.20	\$403.99	\$2,472.42	\$3,910.62
SUBTOTAL SECTION HBF			\$1,438.20		\$2,472.42	\$3,910.62
HO1	375	\$26.00	\$9,750.00	\$0.44	\$165.00	\$9,915.00
SUBTOTAL SECTION HO			\$9,750.00		\$165.00	\$9,915.00
ONT3	21	\$130.94	\$2,749.74	\$64.59	\$1,356.39	\$4,106.13
ONT7	4	\$210.00	\$840.00	\$177.06	\$708.24	\$1,548.24
SUBTOTAL SECTION NID			\$3,589.74		\$2,064.63	\$5,654.37
SEBO6	7750	\$1.81	\$14,027.50	\$0.31	\$2,402.50	\$16,430.00
SUBTOTAL SECTION SE			\$14,027.50		\$2,402.50	\$16,430.00
GRAND TOTAL			\$152,932.26		\$55,834.01	\$209,876.41
Drops	25					
Route Miles	5.12				Per Route Mile:	\$36,078.63
Drop Miles	1.47				Per Drop Mile:	\$17,111.44
Total Miles	6.59				Per Total Miles:	\$31,847.71

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 TIMBERLAND

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BDO4(1)	28	\$236.03	\$6,680.83	\$293.33	\$8,302.71	\$14,983.53
BDO5(1)	9	\$237.63	\$2,242.04	\$347.47	\$3,278.38	\$5,520.42
SUBTOTAL SECTION BDO			\$8,922.87		\$11,581.09	\$20,503.95
BDOS(LCC)	1	\$1,110.13	\$1,110.13	\$6,870.62	\$6,870.62	\$7,980.75
SUBTOTAL SECTION BDS					\$6,870.62	\$7,980.75
4)BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
4A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
15)BFO96D&		\$2.40	\$0.00	\$1.08	\$0.00	\$0.00
15A)BFO288D		\$1.10	\$0.00	\$2.42	\$0.00	\$0.00
11)BFO96D&		\$2.79	\$0.00	\$1.08	\$0.00	\$0.00
11A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
11B)BFO24D		\$1.02	\$0.00	\$0.57	\$0.00	\$0.00
12)BFO72D&		\$2.79	\$0.00	\$0.86	\$0.00	\$0.00
12A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
12B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
14)BFO144D&		\$2.79	\$0.00	\$1.46	\$0.00	\$0.00
14A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
14B)BFO72D		\$1.02	\$0.00	\$0.86	\$0.00	\$0.00
16)BFO48D&		\$2.79	\$0.00	\$0.71	\$0.00	\$0.00
16A)BFO144D&		\$1.02	\$0.00	\$1.46	\$0.00	\$0.00
16B)BFO288D		\$1.12	\$0.00	\$2.42	\$0.00	\$0.00
20)BFO48D&		\$2.25	\$0.00	\$0.71	\$0.00	\$0.00
20A)BFO144D		\$1.06	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D&	8178	\$1.89	\$15,456.40	\$0.57	\$4,661.45	\$20,117.85
BFO12D	7656	\$1.21	\$9,263.75	\$0.49	\$3,751.44	\$13,015.18
BFO48D&		\$1.89	\$0.00	\$0.71	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO96D&	4691	\$1.89	\$8,866.69	\$1.08	\$5,066.68	\$13,933.37
BFO12D	4392	\$1.21	\$5,314.22	\$0.49	\$2,152.04	\$7,466.26
BFO144D&		\$1.89	\$0.00	\$1.46	\$0.00	\$0.00
BFO12D		\$1.21	\$0.00	\$0.49	\$0.00	\$0.00
BFO24D&		\$1.89	\$0.00	\$0.57	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO72D&		\$1.89	\$0.00	\$0.86	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO96D&		\$1.89	\$0.00	\$1.08	\$0.00	\$0.00
BFO24D		\$1.21	\$0.00	\$0.57	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO24D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO144D&		\$2.84	\$0.00	\$1.46	\$0.00	\$0.00
BFO72D		\$1.06	\$0.00	\$0.86	\$0.00	\$0.00
BFO12	2524	\$2.18	\$5,502.15	\$0.49	\$1,236.72	\$6,738.87
BFO24	7242	\$2.21	\$16,004.15	\$0.57	\$4,127.77	\$20,131.91
BFO48	10564	\$2.25	\$23,769.86	\$0.71	\$7,500.71	\$31,270.57
BFO48I		\$0.55	\$0.00	\$0.69	\$0.00	\$0.00
BFO72		\$2.44	\$0.00	\$0.86	\$0.00	\$0.00
BFO72I		\$0.60	\$0.00	\$0.83	\$0.00	\$0.00
BFO96		\$2.47	\$0.00	\$1.08	\$0.00	\$0.00
BFO96I		\$0.62	\$0.00	\$1.05	\$0.00	\$0.00
BFO144		\$2.52	\$0.00	\$1.46	\$0.00	\$0.00
BFO144I		\$0.62	\$0.00	\$1.43	\$0.00	\$0.00
BFO288I		\$0.70	\$0.00	\$2.42	\$0.00	\$0.00

Ballard Rural Telephone Cooperative Corporation
 Kentucky 515
 P Loan Design
 Wickliffe Exchange Pilot Design
 TIMBERLAND

10-BR-11013

Unit	Quantity	Labor	Labor Cost	Material	Material Cost	Total Cost
BFOV(4x1.25)H		\$10.57	\$0.00	\$1.79	\$0.00	\$0.00
BFOV(5x1.25)H		\$12.50	\$0.00	\$2.20	\$0.00	\$0.00
BFOV(6x1.25)H		\$14.50	\$0.00	\$2.59	\$0.00	\$0.00
BFOV(9x1.25)H		\$24.90	\$0.00	\$3.81	\$0.00	\$0.00
BFOV(11x1.25)H		\$30.00	\$0.00	\$4.50	\$0.00	\$0.00
SUBTOTAL SECTION BFO			\$84,177.22		\$28,496.81	\$112,674.02
BHF(LCC)	1	\$1,075.00	\$1,075.00	\$2,144.98	\$2,144.98	\$3,219.98
BHF(17x30x24)T	4	\$408.75	\$1,799.73	\$571.27	\$2,515.30	\$4,315.03
BHF(24x36x24)T	1	\$519.58	\$653.63	\$879.41	\$1,106.30	\$1,759.93
BHF(30x48x30)T	1	\$568.13	\$357.35	\$1,526.12	\$959.93	\$1,317.28
SUBTOTAL SECTION BH			\$3,885.71		\$6,726.51	\$10,612.22
BM17	93	\$14.44	\$1,342.92	\$16.25	\$1,511.25	\$2,854.17
BM2	33	\$18.75	\$613.28	\$30.28	\$990.40	\$1,603.67
BM21	0	\$2,483.33	\$0.00	\$2,501.74	\$0.00	\$0.00
BM2A	23	\$15.00	\$339.66	\$11.25	\$254.75	\$594.41
BM53	38	\$25.13	\$964.21	\$35.79	\$1,373.23	\$2,337.44
BM60(1.25)	4403	\$7.18	\$31,613.54	\$0.45	\$1,981.35	\$33,594.89
BM60(2)	503	\$7.18	\$3,612.98	\$1.31	\$659.19	\$4,272.17
BM60(2x1.25)	1132	\$7.55	\$8,548.11	\$0.92	\$1,041.62	\$9,589.73
BM60(3)	126	\$11.00	\$1,383.80	\$1.68	\$211.34	\$1,595.14
BM60(3x1.25)	660	\$11.03	\$7,284.76	\$1.35	\$891.61	\$8,176.37
BM60(6)	252	\$20.26	\$5,097.42	\$10.14	\$2,551.22	\$7,648.64
BM61(1)	192	\$7.18	\$1,380.00	\$0.36	\$69.19	\$1,449.19
BM73	6	\$90.13	\$558.81	\$39.45	\$244.59	\$803.40
BM83	31	\$18.00	\$558.00	\$5.15	\$159.65	\$717.65
SUBTOTAL SECTION BM			\$63,297.48		\$11,939.39	\$75,236.87
HBFOM	7	\$235.00	\$1,713.15	\$403.99	\$2,945.09	\$4,658.24
SUBTOTAL SECTION HBF			\$1,713.15		\$2,945.09	\$4,658.24
HO1	465	\$26.00	\$12,090.00	\$0.44	\$204.60	\$12,294.60
SUBTOTAL SECTION HO			\$12,090.00		\$204.60	\$12,294.60
ONT3	25	\$130.94	\$3,273.50	\$64.59	\$1,614.75	\$4,888.25
ONT7	6	\$210.00	\$1,260.00	\$177.06	\$1,062.36	\$2,322.36
SUBTOTAL SECTION NID			\$4,533.50		\$2,677.11	\$7,210.61
SEBO6	9610	\$1.81	\$17,394.10	\$0.31	\$2,979.10	\$20,373.20
SUBTOTAL SECTION SE			\$17,394.10		\$2,979.10	\$20,373.20
GRAND TOTAL			\$196,014.02		\$74,420.31	\$271,544.46
Drops	31					
Route Miles	6.29				Per Route Mile:	\$38,180.37
Drop Miles	1.82				Per Drop Mile:	\$17,247.21
Total Miles	8.11				Per Total Miles:	\$33,482.67

Kentucky 515

P Loan Design

Outside Plant Construction Cost Summary

BANDANA EXCHANGE

Serving Area	Type	Premises Passed	Fiber Drops	Route Miles	Drop Miles	Total Miles	Cost
Main	Town	266	155	30.60	9.10	39.70	\$ 2,090,582.43
Ingleside	Rural	72	40	9.14	2.35	11.49	\$ 387,637.59
Monkey	Rural	83	40	14.94	2.35	17.29	\$ 607,352.90
Needmore	Rural	84	52	12.39	3.05	15.44	\$ 523,172.90
Oscar	Rural	132	70	16.62	4.11	20.73	\$ 702,042.00
TOTAL		637	357	83.69	20.96	104.65	\$ 4,310,787.81

Town Cost per Route Mile = \$63,077.48

Rural Cost per Route Mile = \$37,881.95

Cost per Drop Mile = \$17,626.93

BARLOW EXCHANGE

Serving Area	Type	Premises Passed	Fiber Drops	Route Miles	Drop Miles	Total Miles	Cost
Main	Town	612	281	22.99	16.50	39.49	\$ 1,784,486.08
Gum Corner	Rural	101	61	12.70	3.58	16.28	\$ 557,836.29
King	Rural	52	37	13.20	2.17	15.37	\$ 551,791.90
Sallie Crice	Rural	38	20	10.80	1.17	11.97	\$ 440,568.93
VFW	Rural	69	46	11.70	2.70	14.40	\$ 503,095.49
TOTAL		872	445	71.39	26.13	97.52	\$ 3,837,778.69

Town Cost per Route Mile = \$64,654.41

Rural Cost per Route Mile = \$38,829.00

Cost per Drop Mile = \$18,067.60

WICKLIFFE EXCHANGE

Serving Area	Type	Premises Passed	Fiber Drops	Route Miles	Drop Miles	Total Miles	Cost
Main	Town	737	280	31.96	16.44	48.40	\$ 2,422,474.18
Bethlehem	Rural	49	29	6.13	1.70	7.83	\$ 278,910.70
Crews	Rural	87	54	9.52	3.17	12.69	\$ 453,919.76
Deerfield	Rural	65	39	12.08	2.29	14.37	\$ 501,187.94
Jones	Rural	83	50	12.60	2.94	15.54	\$ 545,636.06
Slater	Rural	33	25	5.12	1.47	6.59	\$ 226,013.94
Timberland	Rural	58	31	6.29	1.82	8.11	\$ 292,423.68
TOTAL		1112	508	83.70	29.83	113.53	\$ 4,720,566.26

Town Cost per Route Mile = \$66,270.77

Rural Cost per Route Mile = \$39,799.72

Cost per Drop Mile = \$18,519.29

GAGE EXCHANGE

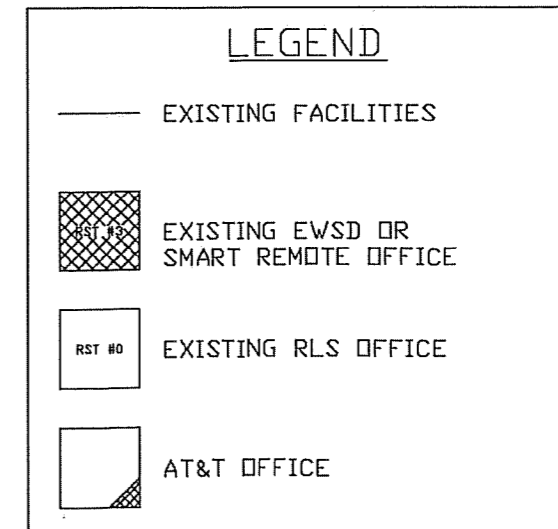
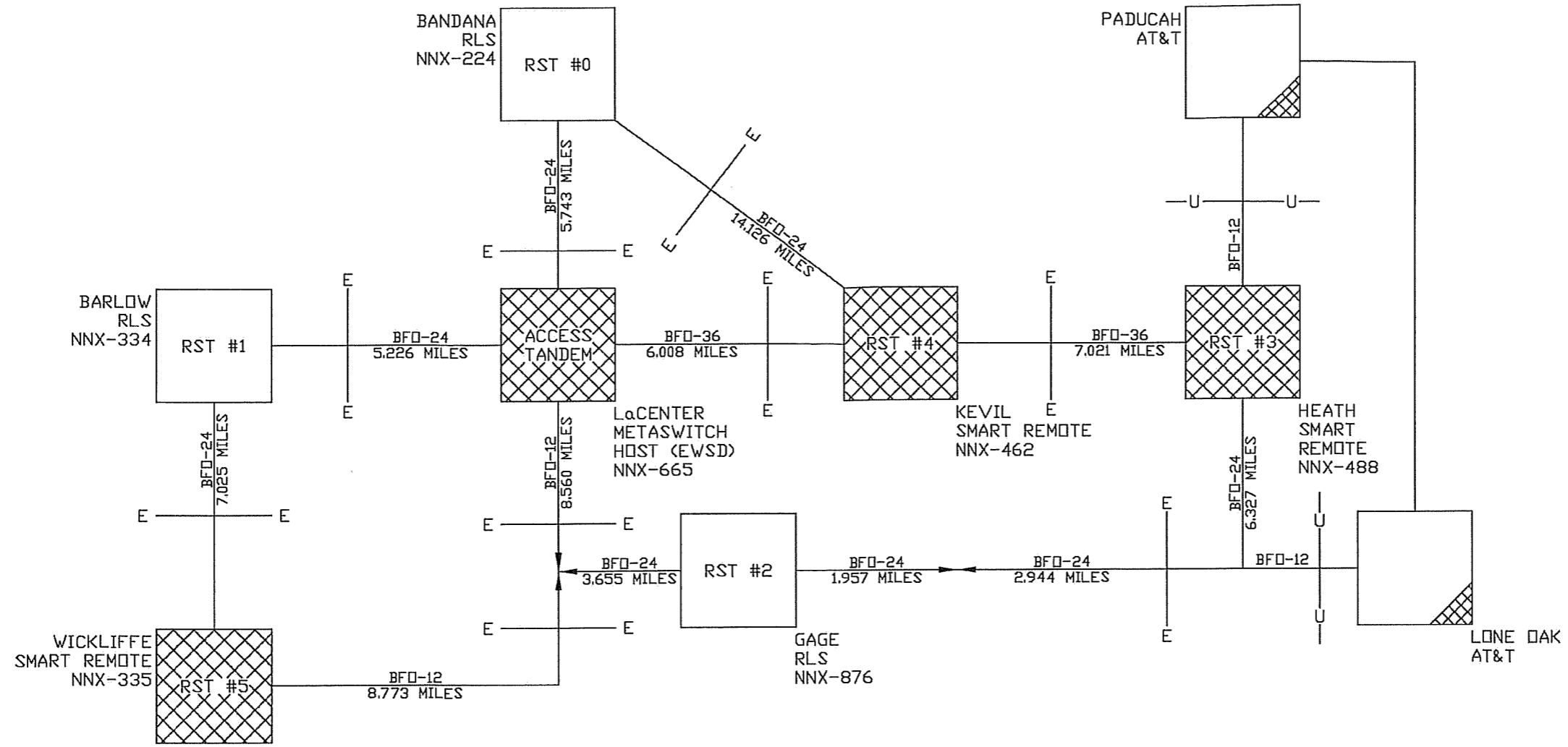
Serving Area	Type	Premises Passed	Fiber Drops	Route Miles	Drop Miles	Total Miles	Cost
Main	Town	132	82	22.24	4.81	27.05	\$ 1,602,096.65
Blandville	Rural	132	80	12.70	4.70	17.40	\$ 607,252.05
Hamburg	Rural	58	43	9.15	2.52	11.67	\$ 421,194.70
Lovelaceville	Town	140	68	8.95	3.99	12.94	\$ 683,736.77
Mosstown	Rural	50	36	7.72	2.11	9.83	\$ 355,056.83
New York	Rural	65	56	13.01	3.29	16.30	\$ 593,164.54
Ross Crossing	Rural	52	26	7.94	1.53	9.47	\$ 352,886.77
TOTAL		629	391	81.71	22.96	104.67	\$ 4,615,388.32

Town Cost per Route Mile = \$67,927.54

Rural Cost per Route Mile = \$40,794.72

Cost per Drop Mile = \$18,982.27

EXHIBIT G
TRUNKING DIAGRAM



BALLARD RTCC
 EXISTING TRUNKING DIAGRAM

BALLARD TELEPHONE COOPERATIVE
JUNE 2013

CARRIER	PIC	TRUNK GROUP	# OF TRUNKS	MF	SS7	EN#
AT&T OPERATOR	288	48	24	YES		0-15-4
	732					
AT&T D	288	101	96		YES	0-14-3 0-15-3 0-16-3 0-17-3
SPRINT D	333	105	24		YES	0-21-0
EMBARQ	5046					
WORKING ASSETS	649					
SPRINT	872					
WINSTAR	810					
MATRIX D	780	105			YES	
INTERCONTINENTAL COM	5513	BRTC NO TO ASSIGN				
BELL ATLANTIC	6963					
PRIMUS	223					
	6400					
ARCADA COM	643					
HYPERION COM	5485					
LDD	533	106	24		YES	0-19-0
BIG RIVERS						
LCI	040	119	24			0-21-2
LCI	358					
QWEST	432					
LCI	462					
LCI	537					
LCI	665					
LCI	690					
NEXTEL	6398					
MCI D	888	116	72			0-21-1
MCI	222					0-22-1
TELCOM USA	852					
WILLIAMS COMM	5158	126	24		YES	0-26-0
CHERRYCOM	270					
OCI	658					
AMERIVISION	284					
WORLD COM D	555					
	603					
ONESTAR	873					
ADVANCE TELECOM	6286					
GTE	5483					
WORLD COM	393					
UNI DIAL	5957					

ALLTEL	5253					
ECLIPSE	71					
	6112					
IXC	948					
WEST COAST TELECOM	569	128	24	YES	0-22-4	
FRONTIER	211					
ALLNET	444					
LEVEL 3	6330					
				YES	0-16-0	
SCB	5124	36	81	0-17-0	0-15-0	0-14-0
SCB-EAS		76	78	YES	5/6/2000	
CINERGY-EAS		96	24	0-26-1		
450						
OPERATOR (at&t)		37	9			
DA 411 (at&t)		43	4			
					0-20-2	
					0-32-2	
BALLARD - BLD	5186	118	72		0-32-3	
					0-30-4	
VERIZON WIRELESS (270-983-XXXX)		140	48		0-27-4	
TOTAL # OF TRUNKS			628			

EXHIBIT H
WICKLIFFE PILOT DESIGN MAPS

EXHIBIT I
SYSTEM EXCHANGE MAP



United States Department of Agriculture
Rural Development

NOV 06 2013

Mr. Michael Jones
President
Ballard Rural Telephone
Cooperative Corporation, Inc.
159 West Second Street
La Center, Kentucky 42056

Dear Mr. Jones:

We are enclosing the documents with instructions for their execution relative to your organization's "P42" loan in the amount of \$24,020,000 made by the Rural Utilities Service (RUS). We recommend that you review the enclosed documents and forward them to your attorney so that arrangements for meeting the legal requirements can be made. We indicated in our letter of September 19, 2013, announcing approval of the "P42" loan that we would specify the date by which the loan agreement is to be executed, authorized and returned to us. That date is 120 days from the date of this letter.

Please note Article V, Section 5.4(d) of the Loan Agreement which specifies that loan funds advanced to your organization are to be held in trust for the Government and promptly deposited into a special construction account. It is of the utmost importance that loan funds be used only for the purposes and in the amounts approved by RUS as set forth in the financial requirement statement.

A 20-year note in the amount of \$24,020,000 covering the RUS Cost-of-Money loan is enclosed for execution. Please proceed with the fulfillment of the loan agreement requirements so that loan funds can be released for approved loan purposes with a minimum of delay. Again, observe the above date for return of the loan agreement.

We will be pleased to answer any questions you may have concerning this loan.

Sincerely,

A handwritten signature in black ink, appearing to read "SBA", written over a light blue grid background.

SHAWN B. ARNER, Director
Southern Division
Telecommunications Program
Rural Utilities Service

Enclosures

cc: Mr. Harlon E. Parker
CEO/General Manager

1400 Independence Ave, S.W. · Washington DC 20250-0700
Web: <http://www.rurdev.usda.gov>

Exhibit D

Committed to the future of rural communities.

"USDA is an equal opportunity provider, employer and lender."
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights,
1400 Independence Avenue, S.W., Washington, DC 20250-9410 or call (800) 795-3272 (Voice) or (202) 720-6382 (TDD).

CASE NO: 2013-00418

CONTAINS

LARGE OR OVERSIZED

MAP(S)

RECEIVED ON: November 26, 2013