

CITY OF HARDINSBURG WATER MASTER PLAN APRIL 2008

PURPOSE OF MASTER PLAN

The City of Hardinsburg water system serves customers in the City of Hardinsburg and throughout Breckinridge County. It is the City's desire to extend water service to areas of Breckinridge County that do not currently have water service. The purpose of this master plan is to provide the City with a guide to effectively and efficiently plan for the future expansion of the water system and to communicate with citizens and elected officials about future expansions. The Master Plan will provide tools that will enable the City to make decisions in the future as to where and when service is extended. The Master Plan has identified the number of potential customers in unserved areas, the amount of water lines needed, whether water storage tanks, pump stations, or water plant expansions are possibly needed, and the construction cost of the various extensions.

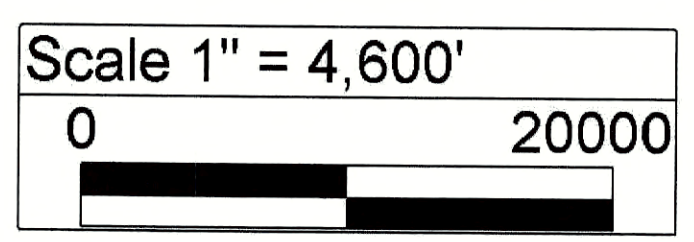
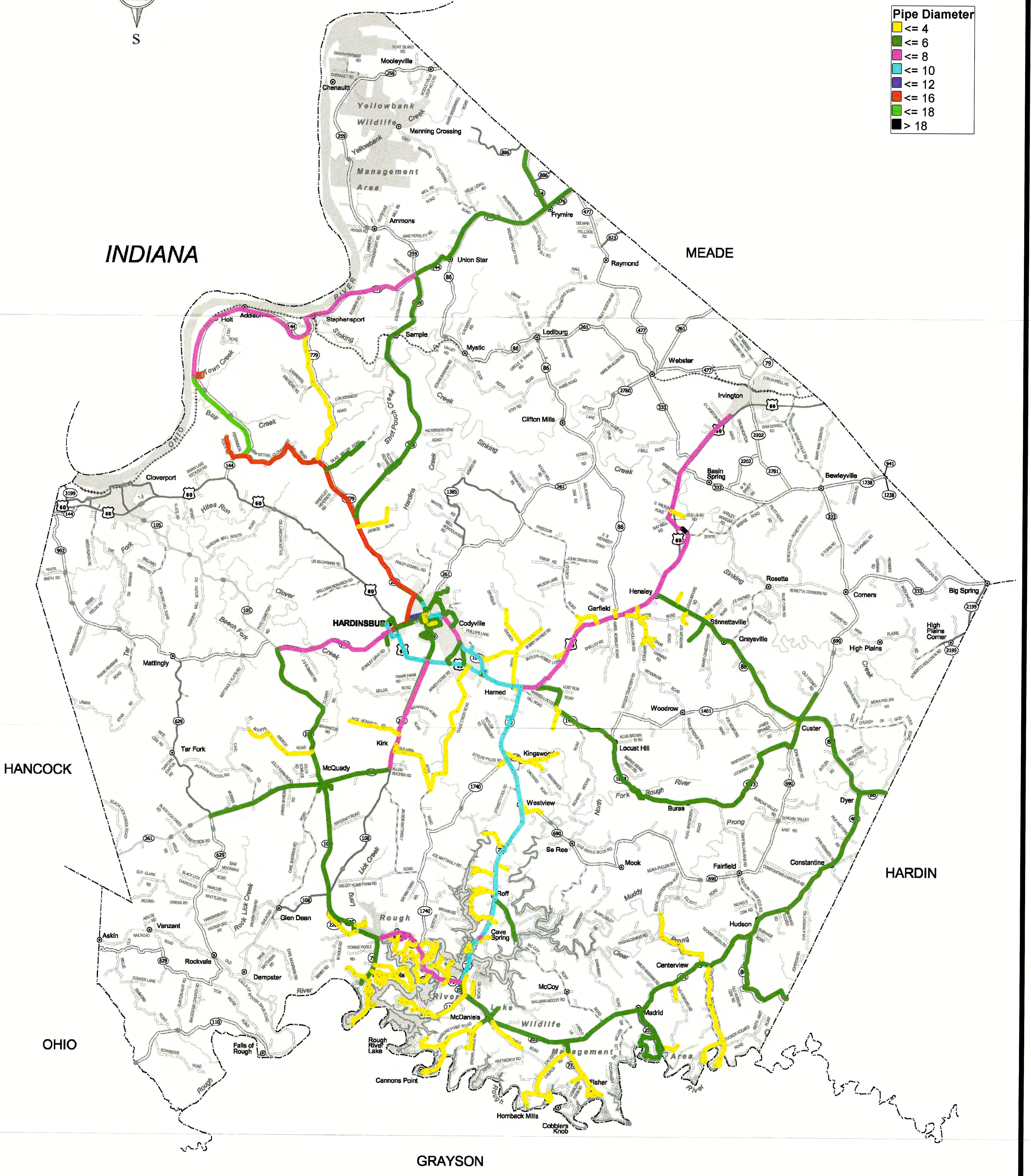
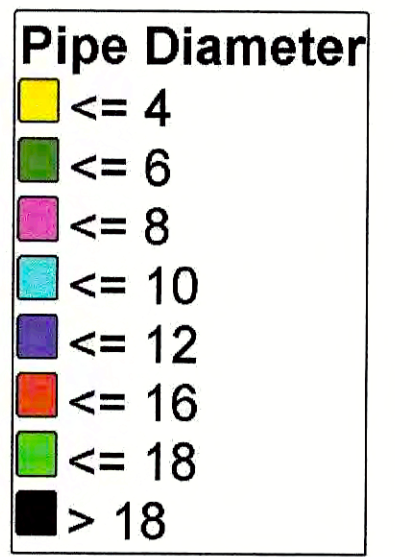
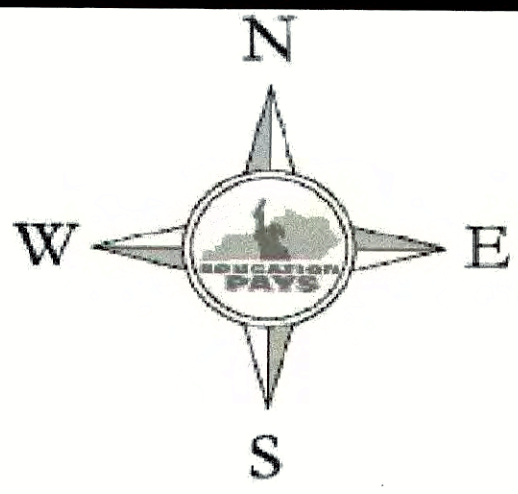
The City's water system is a dynamic system. It is constantly evolving and growing to meet the demands made of it. It is not possible to anticipate all development trends that may occur in the City and Breckinridge County, but the Master Plan will provide a framework that will help the City determine where its next projects should be located.

INTRODUCTION

The City of Hardinsburg provides drinking water to the residents and businesses in the City and throughout portions of Breckinridge County. The City also sells water wholesale to the City of Irvington. The City is open to the possibility of selling water to the City of Cloverport and the Meade County Water District. In the future, the City would also consider selling water to other surrounding communities including Hancock County, Hawesville, Grayson County and Ohio County should the need arise.

The City has a long history of looking beyond the city boundaries to offer water service to persons and businesses in the county. Since the 1970's the City has undertaken numerous projects that have extended water service to areas outside the City limits. At this time the City serves more customers outside the City limits than inside the City. Exhibit 1 is a map showing the extent of the existing water service area.

The City has completed the construction of a new water treatment plant. When this project was planned, the City took into consideration the need to extend water service to additional areas of Breckinridge County. Approximately 36 percent of the county population are still unserved by a public water system. Table MP-1 shows how this number was achieved.



Hardinsburg Water Master Plan Breckinridge County, Kentucky

EXISTING WATER DISTRIBUTION SYSTEM



Exhibit 1

TABLE MP-1		
AREA	POPULATION	PERCENTAGE
Breckinridge County	18,991	
Hardinsburg/All Customers	9,330	49.1%
City of Irvington	1,404	7.4%
City of Cloverport	1,248	6.5%
Ohio County Water District	138	1%
Total Served	12,120	64%
Total Unserved	6,871	36%

Source: Kentucky State Data Center July 1, 2006 Population Estimates

Breckinridge County is projected to grow over the next two decades. The Kentucky State Data Center has projected the county's population to increase 27% by the year 2030. Table MP-2 illustrates the population growth projected by the Kentucky State Data Center. The City should expect that as growth occurs in presently unserved areas, demand for public water service would increase.

TABLE MP-2						
BRECKINRIDGE COUNTY - POPULATION						
CENSUS	PROJECTIONS - YEAR					
2000	2005	2010	2015	2020	2025	2030
18,648	19,276	20,459	21,452	22,340	23,114	23,764

The purpose of this Water Master Plan is to identify the areas presently without public water service, estimate the number of potential customers in these areas, and develop a cost estimate for serving these areas. It is anticipated that the City will undertake future projects that will result in water service being available to nearly all of Breckinridge County.

EXISTING SYSTEM

The City of Hardinsburg began providing public water service in the 1940s. Since that time, the City has constructed three water treatment plants with the latest plant completed in June 2007. This plant located at Holts Bottom in northern Breckinridge County is a state of the art reverse osmosis (R/O) treatment plant; the first R/O plant for a public water system to be built in the State of Kentucky. The City's distribution system includes seven water storage tanks, four pump stations and approximately 161 miles of water line ranging in size from 4 inch to 18 inch. There are presently about 4,100 customers served by the City. The City of Hardinsburg sells an average of 3.8 million gallons per month to the City of Irvington.

The City of Hardinsburg contracts with Veolia Water North America to operate and manage the water treatment and distribution system.

METHODOLOGY

The first step in completing this Plan was to identify all areas that were unserved as of 2006 by all the water systems in Breckinridge County: the Cities of Hardinsburg, Cloverport, and Irvington and the Ohio County Water District. All roads within the County that do not have public water service were identified. Once the roads were identified, O'Brien & Gere worked with the Property Valuation Administration office and the 911 program to determine the number of residences and other structures on each of these roads.

The second step was to develop cost estimates for serving each road. Roads were then grouped into potential project areas. The City will need financial assistance from Federal and/or state programs in extending water service; therefore, roads were grouped together into reasonably sized projects in the range of \$1,000,000 to \$3,000,000.

A standard of \$12.00 per linear foot was used to determine the cost of the water line extensions. The \$12.00 figure was based on an average of recent construction bids in the area. The proposed water lines were added to the hydraulic model of the City's water system to determine which areas would require pump stations and water storage tanks. If a road's cost per household was greater than \$15,000 per household, or if it was more than a mile from another water line, it was eliminated from the project. This decision was made primarily due to the fact that most of the state and/or Federal financing that the City will use to construct these extensions will be loan funds. If there are less than ten customers per mile or if the cost to construct a line is greater than \$10,000 to \$15,000 per household, the rates charged to these customers would have to rise greatly to pay back the loans. While clean drinking water is necessary, it must also be affordable to the customer base. Without sufficient customers, the cost per household would be excessive and a burden.

UNSERVED AREAS

Sixteen areas have been identified as unserved by a publicly owned water utility. These areas are shown on Exhibit 2. These areas cover approximately 481.80 miles and are home to approximately 4,325 potential customers. Exhibit 3 shows the additional water lines that would be added to the City's system when these areas are served. Table MP-3 list each area, the amount of line required to serve the area, number of customers, and costs.

Hardinsburg Water Master Plan Breckinridge County, Kentucky Exhibit 2

Project Areas

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

INDIANA

MEADE

HANCOCK

HARDIN

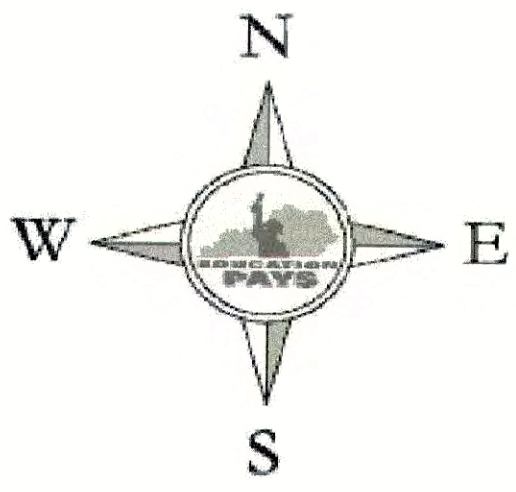
OHIO

GRAYSON



O'BRIEN & GERE





Pipe Diameter	
Yellow	<= 4
Light Green	<= 6
Pink	<= 8
Light Blue	<= 10
Red	<= 12
Dark Green	<= 16
Dark Green	<= 18
Black	> 18

INDIANA

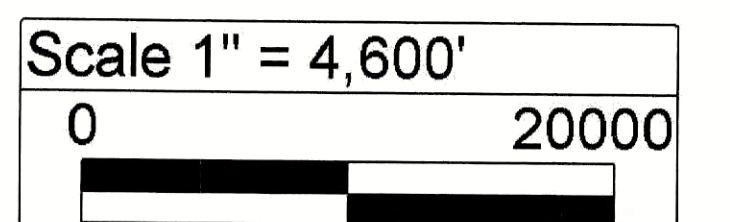
MEADE

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HARDIN

OHIO

GRAYSON



Hardinsburg Water Master Plan Breckinridge County, Kentucky

Exhibit 3

MASTER PLAN WATER DISTRIBUTION SYSTEM



O'BRIEN & GERE
www.obg.com

TABLE MP-3

Area	Miles of Pipe Required	No. of Potential Customers	No. of Potential Customers Per Mile	Cost to Serve Area in 2007/2008 Dollars
1	26.76	186	7	\$1,695,228
2	36.87	255	7	\$2,336,064
3	22.61	123	5	\$1,432,692
4	38.26	315	8	\$2,424,420
5	35.03	315	9	\$2,219,556
6	21.87	231	11	\$1,385,712
7	29.29	252	9	\$1,856,076
8	33.00	333	10	\$2,090,880
9	26.95	304	11	\$1,707,312
10	21.82	194	9	\$1,382,748
11	31.55	273	9	\$1,998,996
12	24.15	203	8	\$1,530,072
13	29.51	543	18	\$1,869,780
14	27.60	234	8	\$1,748,736
15	27.35	250	9	\$1,732,704
16	32.20	170	5	\$2,040,192
TOTALS	481.80	4,325	9	\$30,526,896

Exhibits 6 through 21 located at the end of the Master Plan are detailed tables and maps showing each area and the roads that are located in the sixteen areas. In addition to the information listed above, the tables also list the cost per household, customers per mile, and the potential water usage. The Exhibits also list the roads that were excluded from the project areas. Roads that had less than 5 customers per mile or had costs per customer greater than \$15,000 per customer were not included in the project areas.

The total cost shown in the Table MP-3 and the tables at the end of the Master Plan are construction estimates for planning purposes only. Non-construction costs are not included in the cost estimates. The construction cost will be adjusted in the future based on the design of individual projects. The construction cost for planning purposes is for waterline, customer services, and related appurtenances. The cost is based on design of a rural water system for the purpose of providing potable water - not fire protection.

IMPLEMENTATION

The amount of water line to be extended in the currently unserved areas of Breckinridge County is enormous. It is too much to consider constructing at one time. Also, the willingness of potential customers must be taken into consideration when developing projects. Funding agencies use benchmarks of ten customers per mile and \$10,000 per customer as a way to define cost-effective projects. That is not to say those projects with less than ten customers per mile and/or greater than \$10,000 per customer cannot be constructed. However, if the potential customers are not willing to sign up for water service, it would be prudent financially for the City

to construct water lines first in areas where the interest and desire for public water service is greater.

A hydraulic analysis of the water system was completed to determine where water storage tanks and pump stations would be needed as the City extends water lines. Three areas of the county were identified as potentially having low pressure. These three areas may require water storage tanks and pump stations. The hydraulic model also identified a number of areas that had high pressures. At this time O'Brien and Gere is not making any recommendation on dealing with the high-pressure areas. As projects are developed, funded, and constructed, the hydraulic analysis will be updated with current water system information. At that future time, decisions can be made about how to handle areas that have either high or low water pressure. Exhibit 4 shows the potential low-pressure areas based on a daily-average demand. Exhibit 5 shows the potential low-pressure areas and on a daily-peak demand.

The Kentucky Division of Water requires a water system to begin planning treatment plant expansions when the production capacity of its water treatment plant reaches 70 to 75 percent. Actual construction must begin when a plant's capacity reaches 90 percent. At the present time the Holts Bottom Water Treatment Plant is operating at an average daily capacity of 43-45 percent. The plant's capacity is 2.0 million gallons per day.

With minimal costs, compared with constructing a new water treatment plant, the Holts Bottom water treatment plant can be expanded by:

- 300,000 gallons by adding additional reverse osmosis vessels on top of the existing R/O skids;
- 1,000,000 gallons by adding an additional R/O skid. The piping necessary to install the additional skid was included with the original construction.

During the original plant construction piping for an additional fourth high-service pump was installed along with the piping for a third pump at the Flood Road pump station.

The City's management company, Veolia Water NA, provides the Council monthly data on the plant production. It is recommended that Veolia add to its report the percentage of capacity used each month. This will enable the Council to know at a glance where it stands in regards to plant capacity and the need for expansion.

During the next decade or two, as water lines are extended and as growth continues in already served areas, it will be necessary to expand the water treatment plant. It is not possible at this date to determine the exact time in the future that a plant expansion will be necessary.

The City should refer back to this plan periodically when determining where to extend water in the future, but the main force behind where to go next should be driven by customer desires. There have been projects where the percentage of signers has been large and other projects where the number of people signing up for water have been disappointingly low. Because each project brings with it the possibility of more debt, it would be in the best interest of the City and all water customers to go where the number of potential customers is highest and/or the interest is greater. In order to ensure that the interest and desire of people is real, the City should

consider requiring a percentage of the meter tap fee be paid upfront before the City gets too far along in the funding application process.

Future rate increases cannot be avoided entirely but can be kept to a minimum if the water system is expanded into areas where the desire for public water is real and the majority of people in the area sign up for water service.

EXHIBIT 6

Project Area No. 1

Road Name	Length in LF	Households	Households Per Mile	Cost at \$12.00 per LF	Cost per Household
HWY 992	73,920	101	7.2	\$887,040.00	\$8,782.57
LAMAR RYAN ROAD	8,448	7	4.4	\$101,376.00	\$14,482.29
FRANK NEWMAN ROAD	1,156	1	4.6	\$13,872.00	\$13,872.00
HOOK-NEWMAN-LIGHTFOOT LN	960	10	55.0	\$11,520.00	\$1,152.00
BRIER FIELDS LANE	6,811	6	4.7	\$81,732.00	\$13,622.00
SHELBY MATTINGLY ROAD	1,283	1	4.1	\$15,396.00	\$15,396.00
HINTON ROAD	460	2	23.0	\$5,520.00	\$2,760.00
N KY 105 From HWY 992 to US 60	29,045	30	5.5	\$348,540.00	\$11,618.00
SHERMAN TAUL ROAD	1,129	1	4.7	\$13,548.00	\$13,548.00
WILLIAM TAUL ROAD	1,937	2	5.5	\$23,244.00	\$11,622.00
JOHN TAUL LANE	1,552	2	6.8	\$18,624.00	\$9,312.00
JACKSON RIVE	2,529	4	8.4	\$30,348.00	\$7,587.00
CLOVER CREEK COVE	4,067	12	15.6	\$48,804.00	\$4,067.00
WHITE ROAD	264	1	20.0	\$3,168.00	\$3,168.00
SIMPSON HARP LANE	559	3	28.3	\$6,708.00	\$2,236.00
STANLEY GRAY ROAD	6,336	12	10.0	\$76,032.00	\$6,336.00
TIVITT ROAD	3,696	14	20.0	\$44,352.00	\$3,168.00
O'REILLY TATE ROAD	2,640	4	8.0	\$31,680.00	\$7,920.00
ARMES PAYNE ROAD	3,696	7	10.0	\$44,352.00	\$6,336.00
RUPERT ASKINS ROAD	1,584	5	16.7	\$19,008.00	\$3,801.00
PHILLIPS LANE	2,640	4	8.0	\$19,008.00	\$3,801.00
Total/Average	152,072	225	7.8	\$1,824,864.00	\$8,112.67

Excluded From Project Area No. 1

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
JSG SMART LN	5,544	1	\$66,528.00	\$66,528.00
KEG BRANCH RD	8,448	1	\$101,376.00	\$101,376.00
BRIER FIELDS SPUR RD	538	0	\$6,456.00	N/A
MIKE SMITH RD	1,721	0	\$20,652.00	N/A
RONNIE MATTINGLY RD	765	0	\$9,180.00	N/A
T. SMITH LN	934	0	\$11,208.00	N/A
PATE CEMETERY RD	2,983	0	\$35,796.00	N/A
Total	20,933	2	\$251,196.00	\$125,598.00

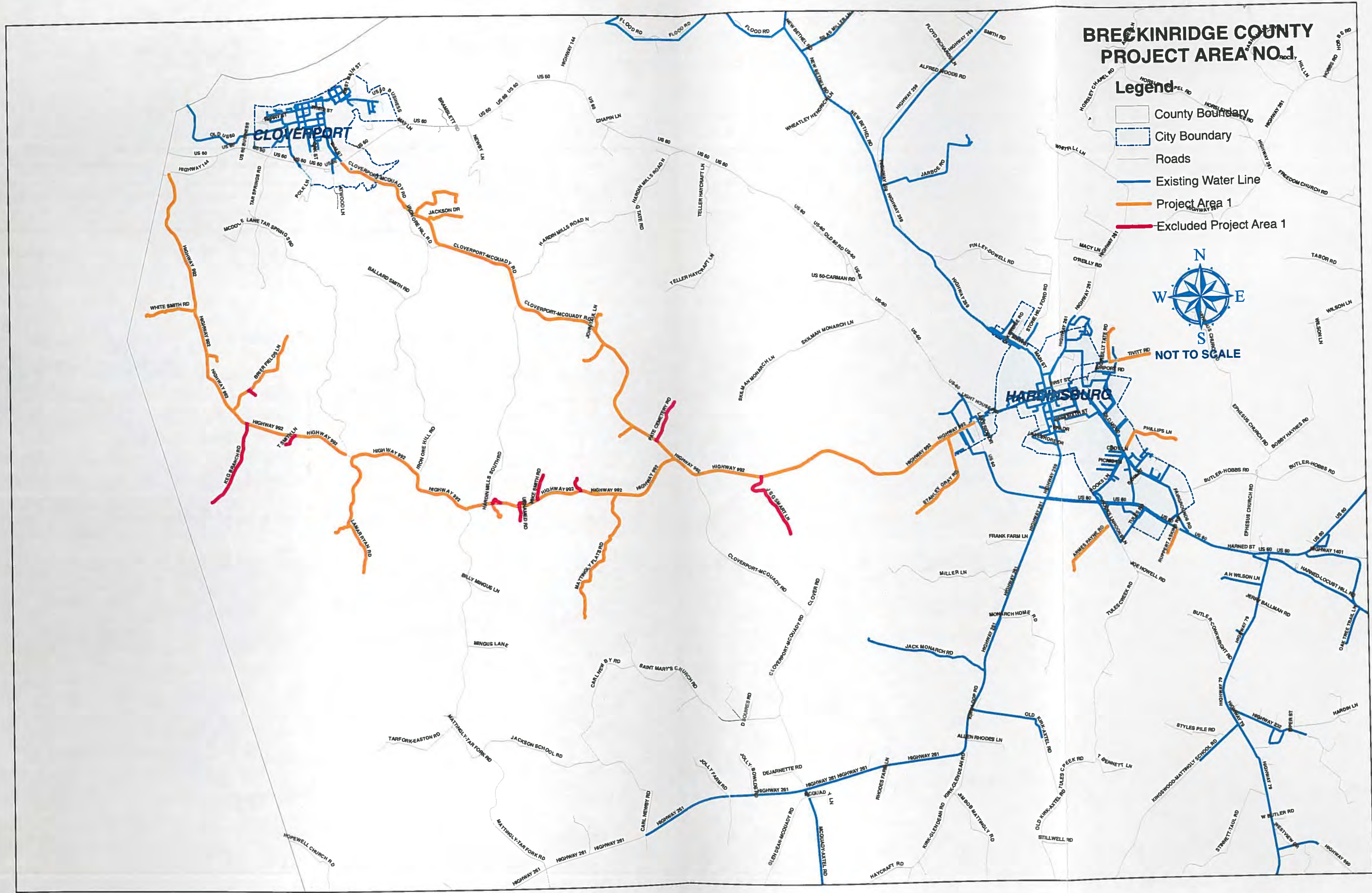
BRECKINRIDGE COUNTY PROJECT AREA NO.1

Legend

- County Boundary
- City Boundary
- Roads
- Existing Water Line
- Project Area 1
- Excluded Project Area 1



NOT TO SCALE



BRECKINRIDGE COUNTY PROJECT AREA NO.2

Legend

- City Boundary
- Roads
- County Boundary
- Existing Water Line
- Excluded Project Area 2
- Project Area 2



NOT TO SCALE

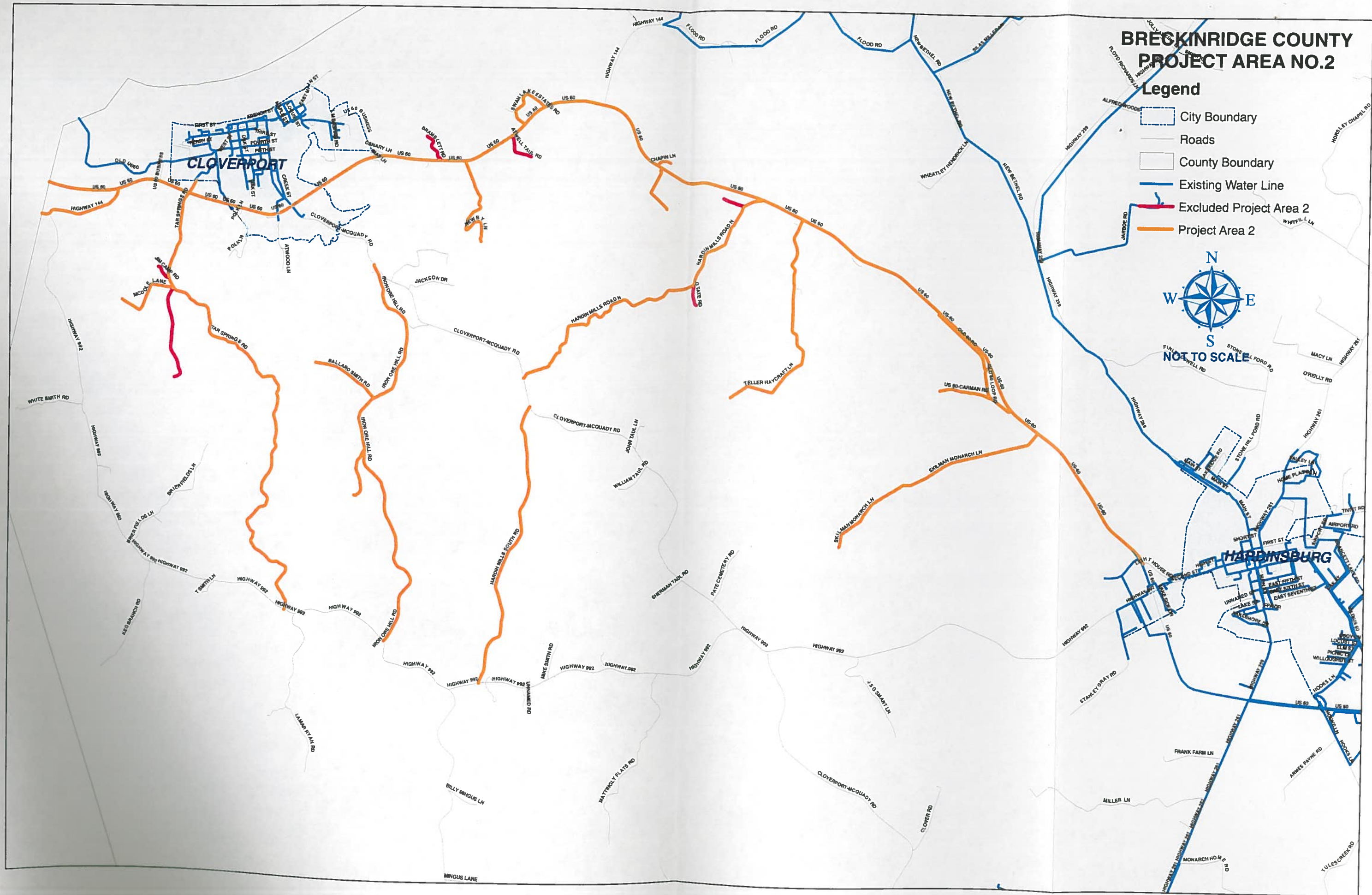


EXHIBIT 8

Project Area No. 3







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
HWY 259	52,800	33	3.3	\$633,600.00	\$19,200.00
RANDALL SWINK RD	2,761	2	3.8	\$33,132.00	\$16,566.00
CART MANNING CROSSING	19,008	16	4.4	\$228,096.00	\$14,256.00
LULA MAE POOLE LN	422	2	25.0	\$5,064.00	\$2,532.00
DUTSCHIKE MILL RD	4,208	8	10.0	\$50,496.00	\$6,312.00
AMMONS CHURCH RD	1,647	6	19.2	\$19,764.00	\$3,294.00
OLD AMMONS STEPHENSPORT RD	4,197	4	5.0	\$50,364.00	\$12,591.00
CARMEN RD	1,916	3	8.3	\$22,992.00	\$7,664.00
MOOLEYVILLE LOOP NO. 1&2/HILLBROOK LOOP	6,336	10	8.3	\$76,032.00	\$7,603.20
BARR GREENWELL/BURCH HILL	4,741	5	5.6	\$56,892.00	\$11,378.40
FLINT RUN RD	2,618	5	10.1	\$31,416.00	\$6,283.20
FLINT ISLAND	3,051	4	6.9	\$36,612.00	\$9,153.00
KY 886 (FROM COUNTY LINE)	12,144	21	9.1	\$145,728.00	\$6,939.43
L SWINK RD	3,542	4	6.0	\$42,504.00	\$10,626.00
Total	119,391	123	5.4	\$1,432,692.00	\$11,649.92

Excluded From Project Area No. 3

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
BRUMFIELD RD	1,293	0	\$15,516.00	N/A
HELMS LEWIS RD	4,868	2	\$58,416.00	\$29,208.00
SHELMAN CEMETERY RD	6,959	5	\$228,096.00	\$45,619.20
CHENAULT SCHOOL RD	0	0	\$0.00	\$0.00
JAKE HORSLEY RD	6,959	3	\$83,508.00	\$27,836.00
HOOKS RD	3,632	1	\$43,584.00	\$43,584.00
CHENAULT RD	3,447	3	\$41,364.00	\$13,788.00
GRADY FRYMINE RD	6,864	3	\$82,368.00	\$27,456.00
Total	34,022	17	\$408,264.00	\$24,015.53

BRECKINRIDGE COUNTY PROJECT AREA NO.3

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 3
-  Excluded Project Area 3

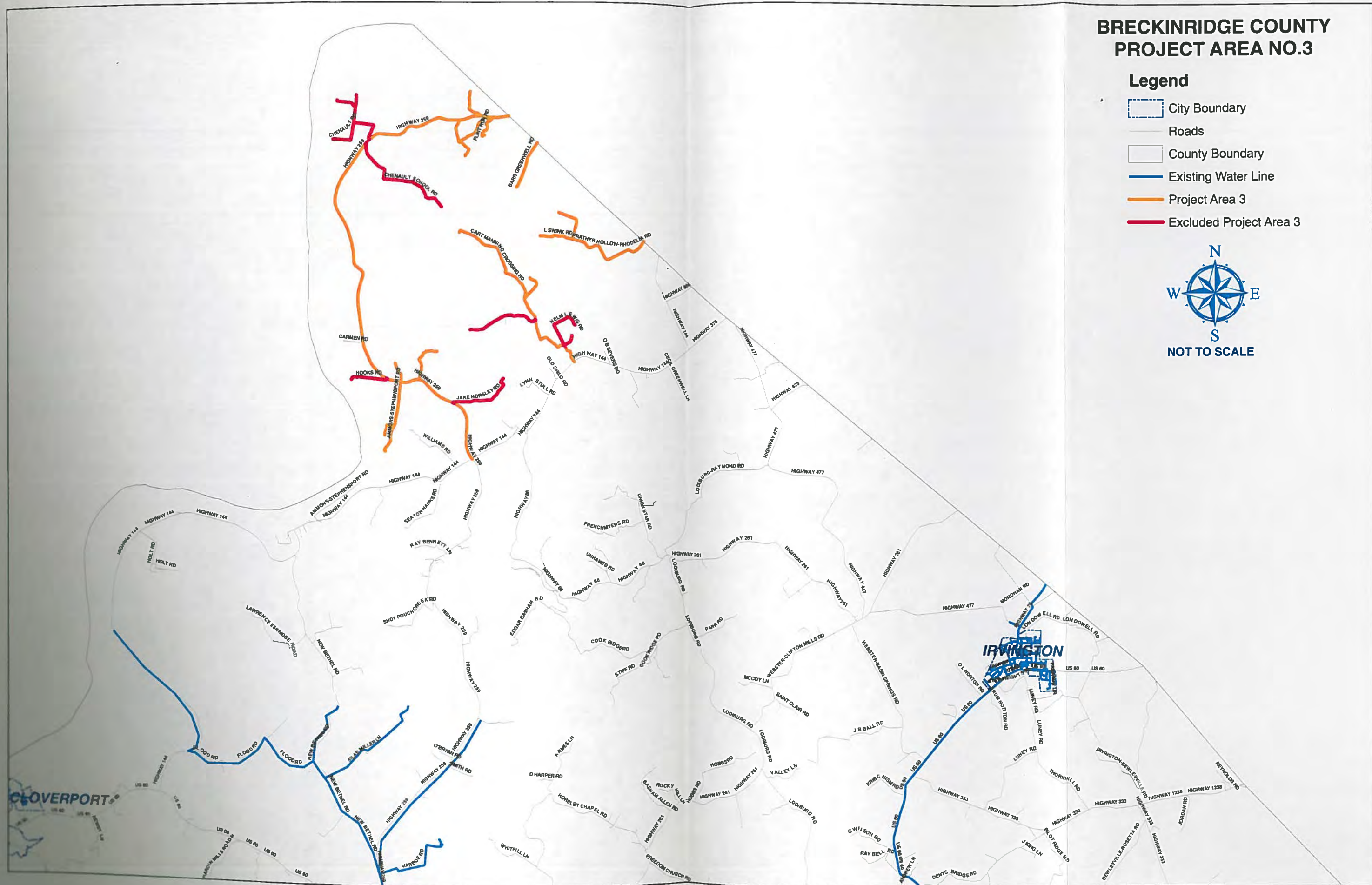


EXHIBIT 9

Project Area No. 4







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
E HWY 144 FROM NEW WTP	89,760	136	8.0	\$1,077,120.00	\$7,920.00
CEDAR HILL CEMETERY RD	1,393	6	22.7	\$16,716.00	\$2,786.00
SCHOOL RD	865	8	48.8	\$10,380.00	\$1,297.50
SHORT RD	237	11	245.1	\$2,844.00	\$258.55
BRIDGE RD	211	3	75.1	\$2,532.00	\$844.00
AMMONS-STEPHENSPORT RD (FROM HWY 144)	6,336	19	15.8	\$76,032.00	\$4,001.68
WILLIAMS RD	6,336	17	14.2	\$76,032.00	\$4,472.47
OLD UNION STAR RD	3,000	4	7.0	\$36,000.00	\$9,000.00
OLD SHILO RD	1,270	4	16.6	\$15,240.00	\$3,810.00
O B SEVERS	1,488	2	7.1	\$17,856.00	\$8,928.00
NEW BETHEL RD	18,480	19	5.4	\$221,760.00	\$11,671.58
TUCKER SCHOOL RD	2,175	5	12.1	\$26,100.00	\$5,220.00
LAWRENCE ESKRIDGE RD	5,491	6	5.8	\$65,892.00	\$10,982.00
LUM KENNEDY RD	3,717	6	8.5	\$44,604.00	\$7,434.00
HOLT RD	6,864	5	3.8	\$82,368.00	\$16,473.60
ASARCO RD	1,504	2	7.0	\$18,048.00	\$9,024.00
KY 259 (TO EXISTING LINE)	29,325	35	6.3	\$351,900.00	\$10,054.29
SEATON HANKS RD	6,336	5	4.2	\$76,032.00	\$15,206.40
D ADKINS	1,404	2	7.5	\$16,848.00	\$8,424.00
RAY BENNETT LN	3,648	4	5.8	\$43,776.00	\$10,944.00
OMER ADKINS RD	517	5	51.1	\$6,204.00	\$1,240.80
JOLLY CEMETERY RD	1,050	3	15.1	\$12,600.00	\$4,200.00
SHOUT POUCH CREEK RD	6,705	5	3.9	\$80,460.00	\$16,092.00
SEMINOLE ESTATES RD	3,923	3	4.0	\$47,076.00	\$15,692.00
Total	202,035	315	8.2	\$2,424,420.00	\$7,699.48

Excluded From Project Area No. 4

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
BEAUCHAMP SPUR RD	1,071	1	\$12,852.00	\$12,852.00
BEAUCHAMP ALEXANDER RD	3,880	1	\$46,560.00	\$46,560.00
BRUNER CEMETERY RD	0	0	\$0.00	N/A
BRUNDER VALLEY RD	3,996	1	\$47,952.00	\$47,952.00
CECIL GREENWELL LN	2,750	2	\$33,000.00	\$16,500.00
DITO RD	459	0	\$5,508.00	N/A
HARSLEY LN	812	1	\$9,744.00	\$9,744.00
LYNN STULL LN	2,877	1	\$34,524.00	\$34,524.00
STEVENSPOUR LOOP RD	1,071	1	\$12,852.00	\$12,852.00
THOMAS ROBERTS RD	3,300	1	\$39,600.00	\$39,600.00
ROBBINS LN	4,007	1	\$48,084.00	\$48,084.00
OLD RAIL ROAD ST W	1,003	0	\$12,036.00	N/A
HICKERSON CEMETERY	3,669	1	\$44,028.00	\$44,028.00
Total	28,895	11	\$346,740.00	\$31,521.82

BRECKINRIDGE COUNTY PROJECT AREA NO.4

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 4
-  Excluded Project Area 4

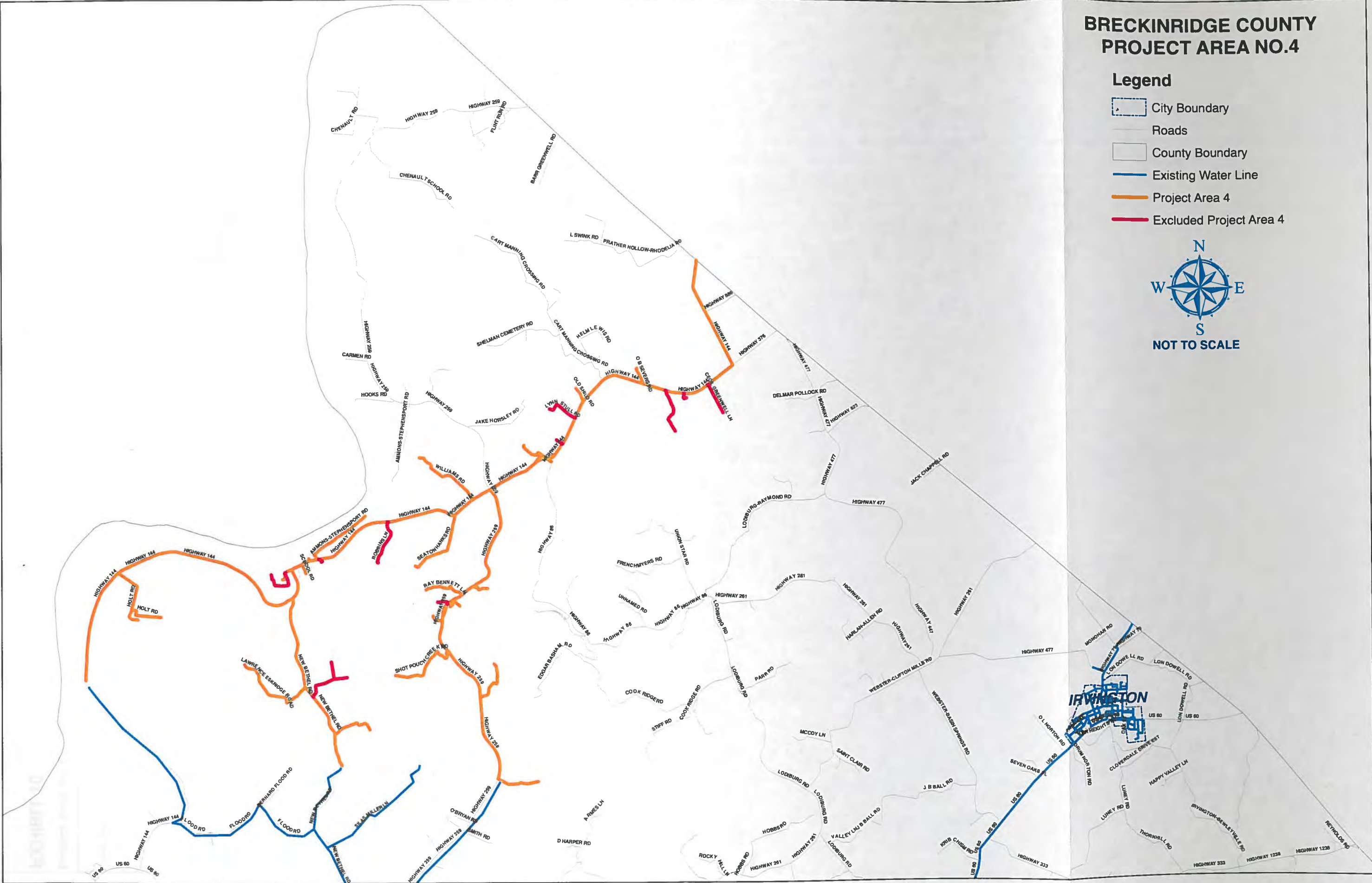


EXHIBIT 10

Project Area No. 5







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
KY - 86	36,432	47	6.8	\$437,184.00	\$9,301.79
KY - 261	37,635	77	10.8	\$451,620.00	\$5,865.19
KY - 477	49,992	68	7.2	\$599,904.00	\$8,822.12
RALPH ROSE RD	1,510	5	17.5	\$18,120.00	\$3,624.00
UNION STAR RD	8,976	15	8.8	\$107,712.00	\$7,180.80
HERMON CLAYTON/EMMANUEL WAY	1,531	2	6.9	\$18,372.00	\$9,186.00
JACK CHAPPELL LN	1,850	10	28.5	\$22,200.00	\$2,220.00
MOUNT MERINO CEMETERY RD	7,392	16	11.4	\$88,704.00	\$5,544.00
MONAHAN RD/CARMEN LUCAS RD	1,219	2	8.7	\$14,628.00	\$7,314.00
KY 79 (FROM IRVINGTON TO COUNTY LINE)	2,365	21	46.9	\$28,380.00	\$1,351.43
HARLIN ALLEN RD	5,248	14	14.1	\$62,976.00	\$4,498.29
DEWAYNE NORTON	654	2	16.1	\$7,848.00	\$3,924.00
COOK RIDGE RD	19,008	22	6.1	\$228,096.00	\$10,368.00
STIFF RD/SOUTH RIDGE	6,864	9	6.9	\$82,368.00	\$9,152.00
CIRCLE K RANCH RD	4,287	5	6.2	\$51,444.00	\$10,288.80
Total	184,963	315	9.0	\$2,219,556.00	\$7,047.85

Excluded From Project Area No. 5

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
LODIBURG RAYMOND RD	15,840	6	\$190,080.00	\$31,680.00
GROVER BIDDLE	3,379	1	\$40,548.00	\$40,548.00
GORDON ROBERTS	4,160	1	\$49,920.00	\$49,920.00
JASPER BRUCE RD	2,133	0	\$25,596.00	#DIV/0!
FRENCH MEYERS	5,105	1	\$61,260.00	\$61,260.00
DELMAR POLLOCK RD	2,830	1	\$33,960.00	\$33,960.00
HWY 823	4,419	1	\$53,028.00	\$53,028.00
JR HAYCRAFT RD	1,092	1	\$13,104.00	\$13,104.00
DRY VALLY CHURCH RD	5,280	2	\$63,360.00	\$31,680.00
CHEROKEE VALLEY LN	4,271	4	\$51,252.00	\$12,813.00
EDGAR BASHAM RD	7,392	4	\$88,704.00	\$22,176.00
Total	55,901	22	\$670,812.00	\$30,491.45

BRECKINRIDGE COUNTY PROJECT AREA NO.5

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Excluded Project Area 5
-  Project Area 5

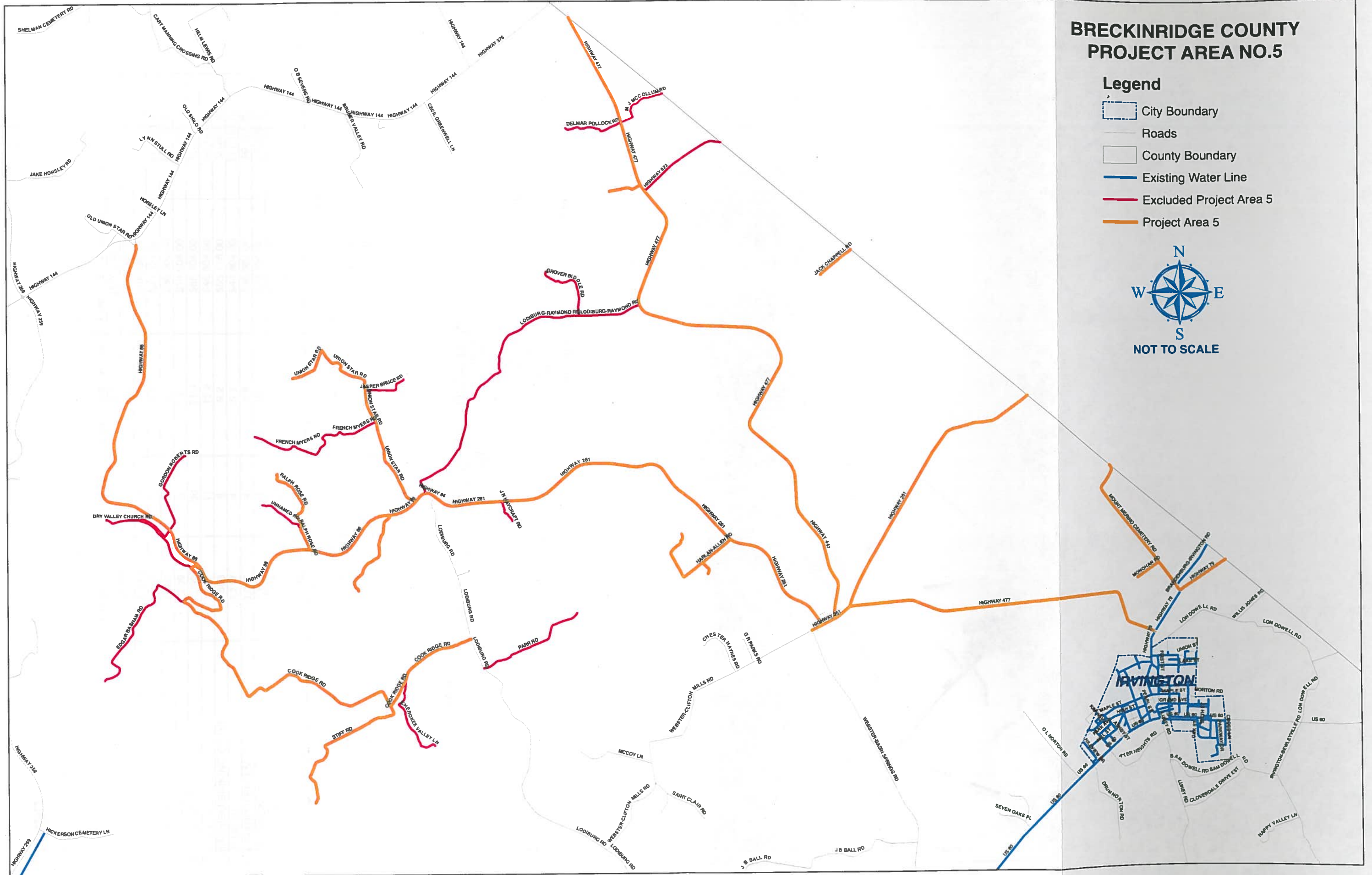


EXHIBIT 11

Project Area No. 6







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
KY - 86	47,520	75	8.3	\$570,240.00	\$7,603.20
KY - 2780/WEBSTER CLIFTON MILL	15,840	24	8.0	\$190,080.00	\$7,920.00
KY - 333/WEBSTER BASIN SPRINGS	15,840	41	13.7	\$190,080.00	\$4,636.10
McCOY LN	3,627	4	5.8	\$43,524.00	\$10,881.00
ST. CLAIR RD	3,000	3	5.3	\$36,000.00	\$12,000.00
GR PARKS RD	1,209	3	13.1	\$14,508.00	\$4,836.00
JB BALL RD	7,392	30	21.4	\$88,704.00	\$2,956.80
VALLEY LN	3,817	11	15.2	\$45,804.00	\$4,164.00
KRIBCHISM/SINKING CREEK	4,593	8	9.2	\$55,116.00	\$6,889.50
OLD US 60	3,717	4	5.7	\$44,604.00	\$11,151.00
ORCHARD VIEW LN	3,057	4	6.9	\$36,684.00	\$9,171.00
DICKERSON LN	1,103	4	19.1	\$13,236.00	\$3,309.00
SEVEN OAKS PL	1,784	12	35.5	\$21,408.00	\$1,784.00
KENTUCKY HOLLOW RD	2,977	8	14.2	\$35,724.00	\$4,465.50
ANSLEY HORSLEY RD	10,560	18	9.0	\$126,720.00	\$7,040.00
HOMESTEAD LN	5,808	7	6.4	\$69,696.00	\$9,956.57
DRAKE LN	2,112	2	5.0	\$25,344.00	\$12,672.00
FOGGY BOTTOM	1,056	4	20.0	\$12,672.00	\$3,168.00
ARMSTRONG LN	1,056	2	10.0	\$12,672.00	\$6,336.00
ALEX ACRES	528	1	10.0	\$6,336.00	\$6,336.00
BLACK HILLS LN	1,585	2	6.7	\$19,020.00	\$9,510.00
Total	138,181	267	10.2	\$1,658,172.00	\$6,212.31

Excluded From Project Area No. 6

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
PARR RD	5,280	1	\$63,360.00	\$63,360.00
SAINT CLAIR SOUR	1,029	1	\$12,348.00	\$12,348.00
CHESTER HAYNES	2,634	2	\$31,608.00	\$15,804.00
OLD HARDINBURG IRVINGTON RD	1,605	1	\$19,260.00	\$19,260.00
G WILSON / RAY BELL RD	1,473	1	\$17,676.00	\$17,676.00
HAYNES DUGAN RD	3,189	1	\$38,268.00	\$38,268.00
Total	15,210	7	\$182,520.00	\$26,075.29

BRECKINRIDGE COUNTY PROJECT AREA NO.6

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 6
-  Excluded Project Area

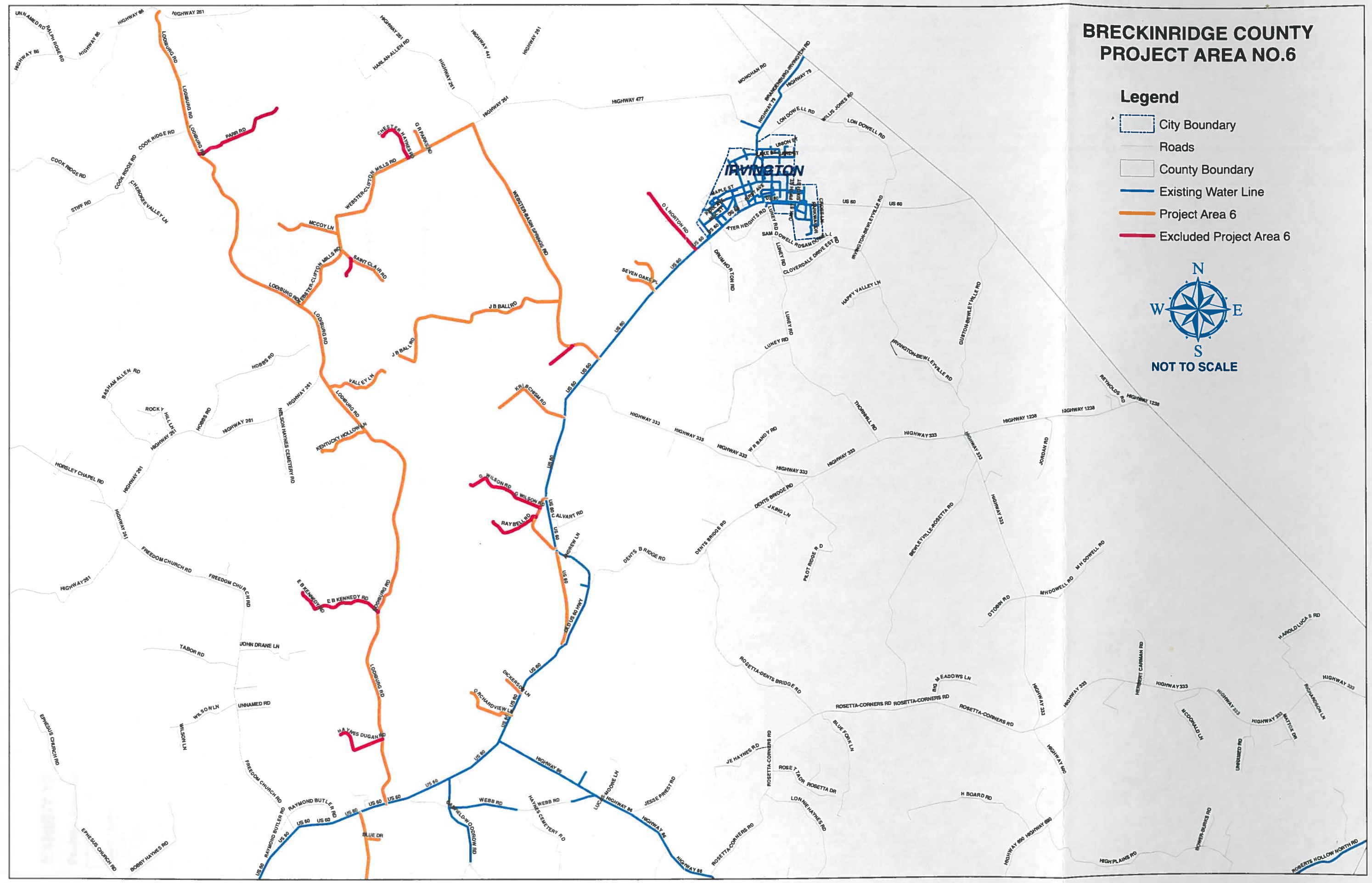


EXHIBIT 12

Project Area No. 7







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
KY-261	37,002	58	8.3	\$444,024.00	\$7,655.59
KY 1385/HORSLEY CHAPEL RD	25,879	36	7.3	\$310,548.00	\$8,626.33
BURTON DOWELL RD	987	4	21.4	\$11,844.00	\$2,961.00
COLEMAN DOWELL LN	1,309	2	8.1	\$15,708.00	\$7,854.00
CARTER BASHAM LN	512	2	20.6	\$6,144.00	\$3,072.00
JOLLY LN	538	1	9.8	\$6,456.00	\$6,456.00
ROBBINS SCHOOL HOUSE LN	855	2	12.4	\$10,260.00	\$5,130.00
FREEDOM CHURCH RD	22,200	30	7.1	\$266,400.00	\$8,880.00
EPHESUS CHURCH RD	20,100	26	6.8	\$241,200.00	\$9,276.92
BUTLER HOBBS RD	13,200	30	12.0	\$158,400.00	\$5,280.00
BOBBY HAYNES RD	6,336	8	6.7	\$76,032.00	\$9,504.00
FINLEY-DOWELL RD	9,000	22	12.9	\$108,000.00	\$4,909.09
STONE HILL FORD RD	7,920	10	6.7	\$95,040.00	\$9,504.00
BELL SCHOOL HOUSE LN	3,555	5	7.4	\$42,660.00	\$8,532.00
RAYMOND BUTLER RD	5,280	16	16.0	\$63,360.00	\$3,960.00
HOBBS RD	8,976	12	7.1	\$107,712.00	\$8,976.00
WILSON LN	3,722	5	7.1	\$44,664.00	\$8,932.80
Total	167,371	269	8.5	\$2,008,452.00	\$7,468.02

Excluded From Project Area No. 7

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
ROCKY HILL LN	3,099	1	\$37,188.00	\$37,188.00
O'REILY RD	1,309	1	\$15,708.00	\$15,708.00
MACY LN	5,280	3	\$63,360.00	\$21,120.00
TABOR RD	5,544	3	\$66,528.00	\$22,176.00
GARFIELD CEMETERY RD	1,320	1	\$15,840.00	\$15,840.00
Total	16,552	9	\$198,624.00	\$22,070.33

BRECKINRIDGE COUNTY PROJECT AREA NO.7

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Excluded Project Area 7
-  Project Area 7

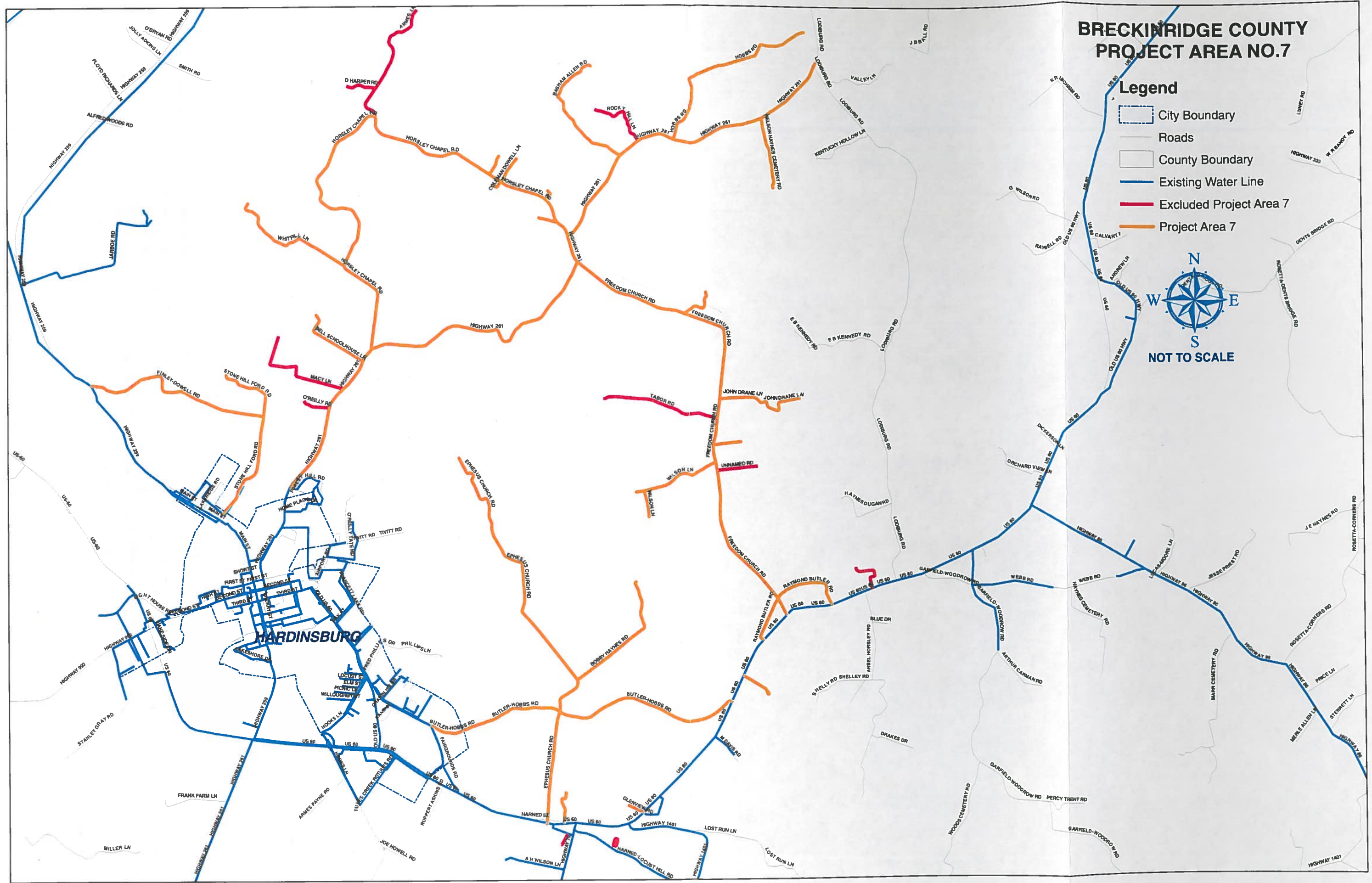


EXHIBIT 13

Project Area No. 8

Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
KY-333 (FROM US 60 TO COUNTY LINE)	63,360	158	13.2	\$760,320.00	\$4,812.15
KY-1238 (FROM KY-333 TO COUNTY LINE)	10,560	18	9.0	\$126,720.00	\$7,040.00
KY-690	100,320	157	8.3	\$1,203,840.00	\$7,667.77
Total	174,240	333	10.1	\$2,090,880.00	\$6,280.01

NONE EXCLUDED

BRECKINRIDGE COUNTY PROJECT AREA NO.8

Legend






-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 8



EXHIBIT 14

Project Area No. 9







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
LUNEY RD (KY-2202)	16,900	36	11.2	\$202,800.00	\$5,633.33
LON DOWELL RD	12,144	20	8.7	\$145,728.00	\$7,286.40
WILLIS JONES/LONG VALLEY RD	1,953	6	16.2	\$23,436.00	\$3,906.00
LONG VALLEY RD/IRVINGTON-GUSTON RD	1,320	5	20.0	\$15,840.00	\$3,168.00
US 60 (FROM IRVINGTON TO COUNTY LINE)	5,280	10	10.0	\$63,360.00	\$6,336.00
IRVINGTON-BEWLEYVILLE	15,840	36	12.0	\$190,080.00	\$5,280.00
ORUM NORTON RD	3,928	13	17.5	\$47,136.00	\$3,625.85
SIM DOWELL/SAM DOWELL	3,854	10	13.7	\$46,248.00	\$4,624.80
AFTER HEIGHT/ATER HEIGHT	3,696	11	15.7	\$44,352.00	\$4,032.00
CLOVERDALE DRIVE	3,484	15	22.7	\$41,808.00	\$2,787.20
GUSTON-BEWLEYVILLE RD	10,560	22	11.0	\$126,720.00	\$5,760.00
KY-2781/THORNHILL RD	7,920	11	7.3	\$95,040.00	\$8,640.00
WR BANDY RD	2,376	4	8.9	\$28,512.00	\$7,128.00
REYNOLDS RD	2,376	4	8.9	\$28,512.00	\$7,128.00
NELSON BOARD RD	1,483	2	7.1	\$17,796.00	\$8,898.00
HAROLD LUCAS RD	5,808	9	8.2	\$69,696.00	\$7,744.00
WILDFLOWER LN	712	6	44.5	\$8,544.00	\$1,424.00
MEADOW SPRINGS LN	2,101	6	15.1	\$25,212.00	\$4,202.00
CAVE RUN RD	586	1	9.0	\$7,032.00	\$7,032.00
MADDOX DR	2,492	7	14.8	\$29,904.00	\$4,272.00
RICHARDSON LN	1,283	8	32.9	\$15,396.00	\$1,924.50
BEWLEY/ROSETTA	15,840	26	8.7	\$190,080.00	\$7,310.77
HIGH PLANS <i>UNSERVED AREA</i>	15,840	28	9.3	\$190,080.00	\$6,788.57
POWERS-BURKE RD	2,000	3	7.9	\$24,000.00	\$8,000.00
MINTER LN	2,500	5	10.6	\$30,000.00	\$6,000.00
Total	142,276	304	11.3	\$1,707,312.00	\$5,618.32

Excluded from Project Area No. 9

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
BASIN SPRINGS FARM RD	1,346	1	\$16,152.00	\$16,152.00
JORDAN RD	3,854	4	\$46,248.00	\$11,562.00
MH DOWELL RD	4,065	4	\$48,780.00	\$12,195.00
HERBERT CARMEN RD	3,268	4	\$39,216.00	\$9,804.00
D TOBLIN	3,326	3	\$39,912.00	\$13,304.00
NANNIE AMMONS RD	2,988	3	\$35,856.00	\$11,952.00
MCDONALD LN	4,952	13	\$59,424.00	\$4,571.08
CHARLES LUCAS LN	2,323	2	\$27,876.00	\$13,938.00
LEE LUCAS	3,975	2	\$47,700.00	\$23,850.00
Total	30,097	36	\$361,164.00	\$10,033.33

BRECKINRIDGE COUNTY PROJECT AREA NO.9

Legend

-  City Boundary
-  Project Area 9
-  Excluded Project Area 9
-  Roads
-  County Boundary
-  Existing Water Line

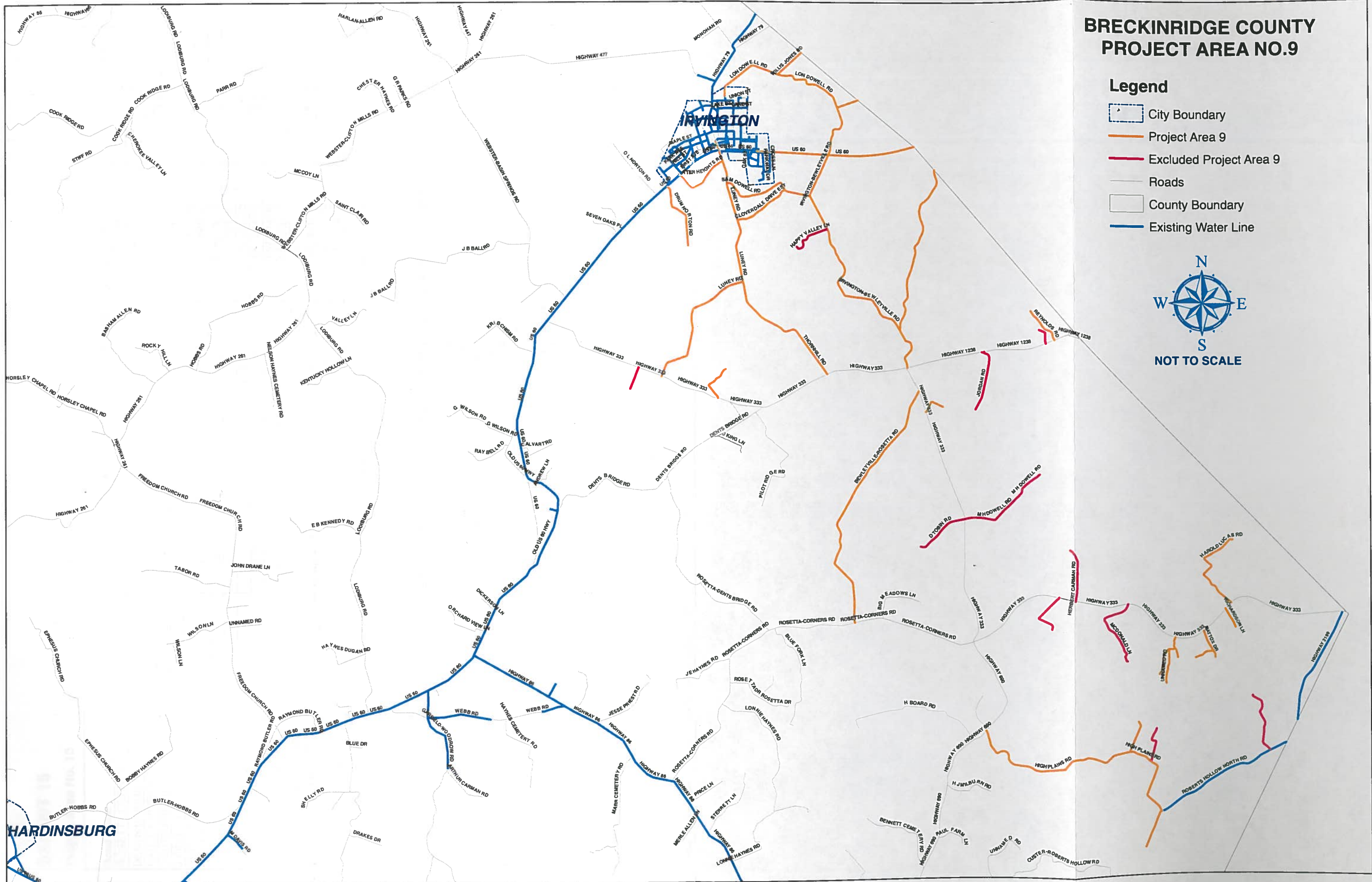


EXHIBIT 15

Project Area No. 10

Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
ROSETTA CORNERS	24,288	42	9.1	\$291,456.00	\$6,939.43
DENTS BRIDGE RD	15,840	25	8.3	\$190,080.00	\$7,603.20
HARLEY MORGAN RD	1,393	3	11.4	\$16,716.00	\$5,572.00
DENTS BRIDGE- ROSETTA RD	13,200	11	4.4	\$158,400.00	\$14,400.00
J KING LN	1,953	3	8.1	\$23,436.00	\$7,812.00
BIG MEADOWS LN	3,430	7	10.8	\$41,160.00	\$5,880.00
ROSETTA DR	4,224	8	10.0	\$50,688.00	\$6,336.00
LONNIE HAYNES	15,840	24	8.0	\$190,080.00	\$7,920.00
STREET LN	4,752	11	12.2	\$57,024.00	\$5,184.00
LUCAS-MOORE LN	3,170	4	6.7	\$38,040.00	\$9,510.00
JESSE PRIEST	4,752	10	11.1	\$57,024.00	\$5,702.40
JE HAYNES	4,752	10	11.1	\$57,024.00	\$5,702.40
OLD STONEY FORK	6,864	16	12.3	\$82,368.00	\$5,148.00
BENNETT CEMETERY RD	5,280	8	8.0	\$63,360.00	\$7,920.00
TERRY BOARD LN	2,323	4	9.1	\$27,876.00	\$6,969.00
HJ MILBURN	3,168	8	13.3	\$38,016.00	\$4,752.00
ROSETTA FORK/ABBY LN	1,647	2	6.4	\$19,764.00	\$9,882.00







Total	116,876	196	8.9	\$1,402,512.00	\$7,157.49
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Excluded from Project Area No. 10

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
PRICE LN	2,481	2	\$29,772.00	\$14,886.00
PILOTS RIDGE RD	7,392	3	\$88,704.00	\$29,568.00
BLUE FORK	6,864	6	\$82,368.00	\$13,728.00
H BOARD RD	8,976	4	\$107,712.00	\$26,928.00
PAUL FARM LN	1,900	2	\$22,800.00	\$11,400.00
MARR CEMETERY RD	7,392	2	\$88,704.00	\$44,352.00
MERLE ALLAN LN	1,742	2	\$20,904.00	\$10,452.00
Total	36,747	21	\$440,964.00	\$20,999.29

BRECKINRIDGE COUNTY PROJECT AREA NO.10

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Excluded Project Area 10
-  Project Area 10

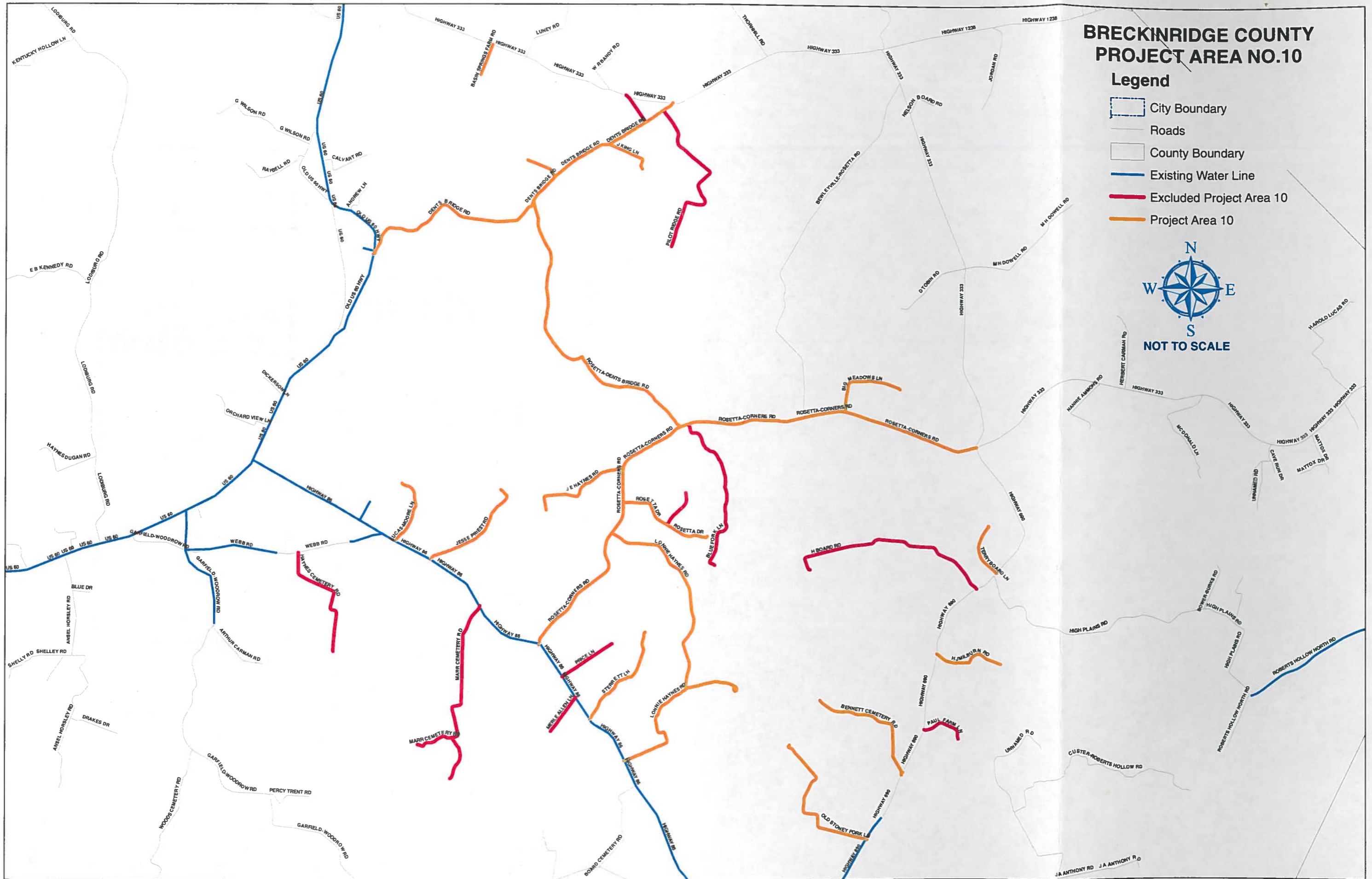


EXHIBIT 16

Project Area No. 11

Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
WEBB RD	4,697	12	13.5	\$56,364.00	\$4,697.00
HAYNES CEMETERY RD	4,752	20	22.2	\$57,024.00	\$2,851.20
GARFIELD-WOODROW RD	23,232	31	7.0	\$278,784.00	\$8,993.03
ARTHUR CARMEN RD	2,851	4	7.4	\$34,212.00	\$8,553.00
KY-1401	52,800	89	8.9	\$633,600.00	\$7,119.10
KY-1073	41,184	51	6.5	\$494,208.00	\$9,690.35
MARK RIDGE RD	11,616	12	5.5	\$139,392.00	\$11,616.00
ALLIE BROWN RD	2,851	4	7.4	\$34,212.00	\$8,553.00
OVA DRANE RD	3,432	9	13.8	\$41,184.00	\$4,576.00
SOMERSET KNOB	2,481	3	6.4	\$29,772.00	\$9,924.00
BOARD CEMETERY RD	4,224	7	8.8	\$50,688.00	\$7,241.14
IVORY LN	4,752	13	14.4	\$57,024.00	\$4,386.46
ELZA TUCKER RD	2,112	3	7.5	\$25,344.00	\$8,448.00
VERNON-CARMEN RD	1,848	3	8.6	\$22,176.00	\$7,392.00







Total	162,832	261	8.5	\$1,953,984.00	\$7,488.06
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Excluded from Project Area No. 11

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
PERRY TRENT RD	2,127	1	\$25,524.00	\$25,524.00
ALLIE BROWN EAST RD	2,904	3	\$34,848.00	\$11,616.00
JOE MEADORS RD	5,280	2	\$63,360.00	\$31,680.00
JAMES BURNER RD	3,168	1	\$38,016.00	\$38,016.00
WILLARD DUPIN RD	1,584	0	\$19,008.00	N/A
CUSTER CEMETERY RD	684	0	\$8,208.00	N/A
HARRIS RD	1,056	1	\$12,672.00	\$12,672.00
WHITWORTH-LOCKARD LN	4,224	4	\$50,688.00	\$12,672.00
WHITWORTH LN	2,640	1	\$31,680.00	\$31,680.00
LOST RUN RD	6,336	1	\$76,032.00	\$76,032.00
WOODS CEMETERY	7,920	1	\$95,040.00	\$95,040.00
TRIPLET HORSLEY	2,112	1	\$25,344.00	\$25,344.00
DRANE HOCKENBERRY LN	1,214	1	\$14,568.00	\$14,568.00
FAIR FIELD-BURAS RD	12,144	3	\$145,728.00	\$48,576.00
KENNY SMALLWOOD LN	2,112	2	\$25,344.00	\$12,672.00
DUNCAN VALLEY	4,224	1	\$50,688.00	\$50,688.00
ANNIE WHITWORTH RD	2,112	1	\$25,344.00	\$25,344.00
ELLIOTT CEMETERY RD	2,640	0	\$31,680.00	N/A
TUCKER RD	1,584	1	\$19,008.00	\$19,008.00
Total	66,065	25	\$792,780.00	\$31,712.20

BRECKINRIDGE COUNTY PROJECT AREA NO.11

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 11
-  Excluded Project Area 11



NOT TO SCALE
CHURCH OF GOD-DYER RD

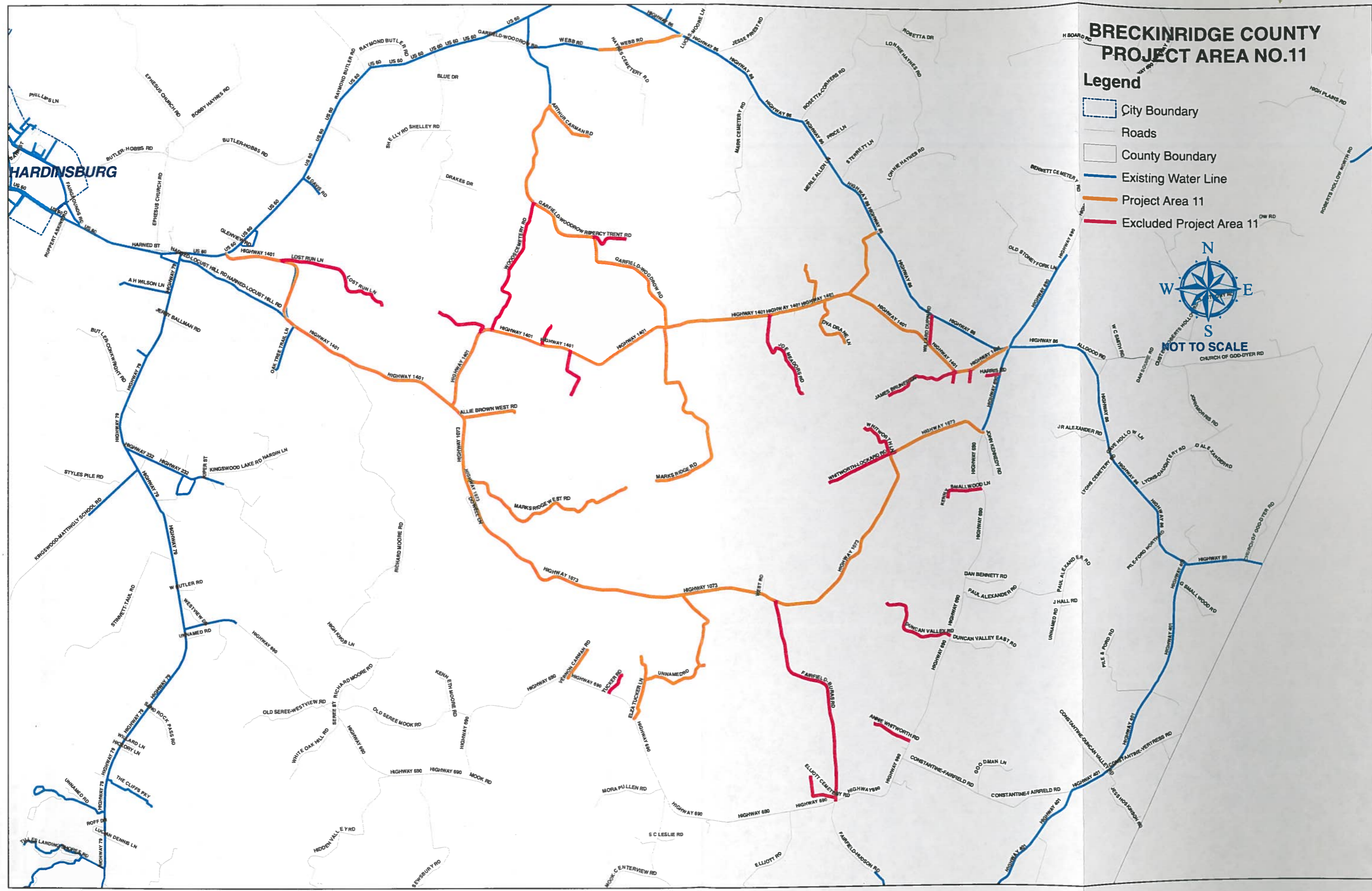


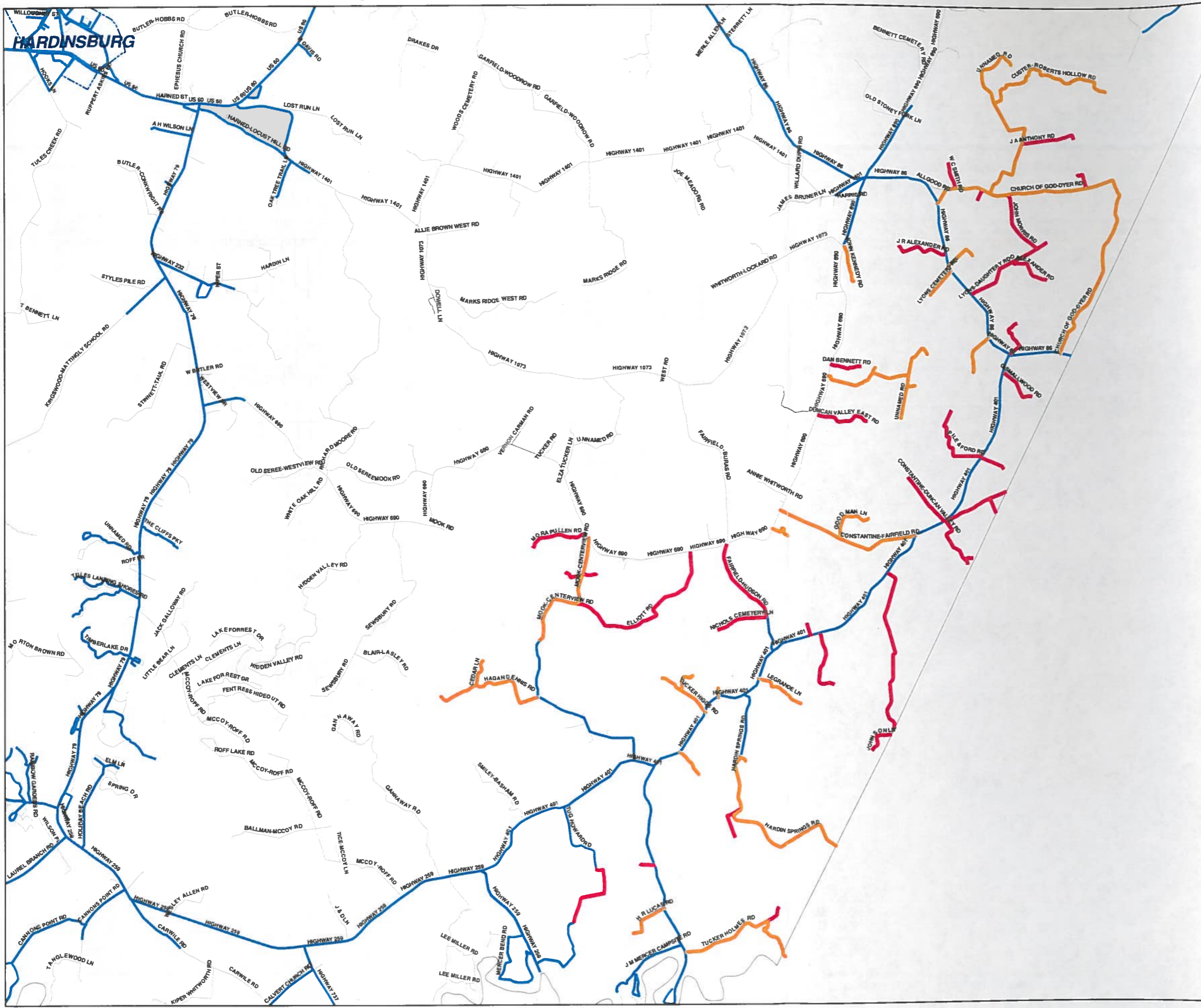
EXHIBIT 17

Project Area No. 12

Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
CHURCH OF GOD-DYER RD	26,400	41	8.2	\$316,800.00	\$7,726.83
CUSTER ROBERTS HOLLOW	8,448	11	6.9	\$101,376.00	\$9,216.00
CHEROKEE TRAIL	5,121	8	8.2	\$61,452.00	\$7,681.50
CAVE HOLLOW RD	2,112	6	15.0	\$25,344.00	\$4,224.00
LYONS CEMETERY/BUTLER LN	2,112	4	10.0	\$25,344.00	\$6,336.00
PILE FORD/REDFERN RD	1,584	8	26.7	\$19,008.00	\$2,376.00
JOHN KENNEDY RD	2,640	5	10.0	\$31,680.00	\$6,336.00
PAUL ALEXANDER RD	8,448	12	7.5	\$101,376.00	\$8,448.00
QUIGGINS RD	369	1	14.3	\$4,428.00	\$4,428.00
CAMERON RD	2,164	6	14.6	\$25,968.00	\$4,328.00
J HALL RD	1,052	4	20.1	\$12,624.00	\$3,156.00
CONSTANTINE FAIRFIELD	9,504	9	5.0	\$114,048.00	\$12,672.00
GOODMAN LN	3,168	4	6.7	\$38,016.00	\$9,504.00
KY-84/HARDIN SPRINGS RD	9,504	20	11.1	\$114,048.00	\$5,702.40
ALLEN BALLMAN LN	475	2	22.2	\$5,700.00	\$2,850.00
LEGRANDE LN	3,696	6	8.6	\$44,352.00	\$7,392.00
D. LUCAS RD	581	1	9.1	\$6,972.00	\$6,972.00
TUCKER HIGGS RD	3,696	6	8.6	\$44,352.00	\$7,392.00
TUCKER HIGGS SPUR RD	1,584	4	13.3	\$19,008.00	\$4,752.00
HAYDEN FENTRESS RD	2,112	4	10.0	\$25,344.00	\$6,336.00
HR LUCAS RD	3,168	5	8.3	\$38,016.00	\$7,603.20
HENRY DOTSON	1,584	4	13.3	\$19,008.00	\$4,752.00
HAGEN DENNIS RD	7,920	11	7.3	\$95,040.00	\$8,640.00
CEDAR LN	1,584	3	10.0	\$19,008.00	\$6,336.00
MOOK CEMETERY RD (UNSERVED AREA)	8,976	8	4.7	\$107,712.00	\$13,464.00
Total	118,002	193	8.6	\$1,416,024.00	\$7,339.36







Excluded from Project Area No. 12

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
JA ANTHONY RD	2,270	1	\$27,240.00	\$27,240.00
CUSTER ROBERTS HOLLOW	8,448	11	\$101,376.00	\$9,216.00
CHEROKEE TRAIL	5,121	8	\$61,452.00	\$7,681.50
CAVE HOLLOW RD	2,112	6	\$25,344.00	\$4,224.00
LYONS CEMETERY/BUTLER LN	2,112	4	\$25,344.00	\$6,336.00
PILE FORD/REDFERN RD	1,584	8	\$19,008.00	\$2,376.00
JOHN KENNEDY RD	2,640	5	\$31,680.00	\$6,336.00
PAUL ALEXANDER RD	8,448	12	\$101,376.00	\$8,448.00
QUIGGINS RD	369	1	\$4,428.00	\$4,428.00
CAMERON RD	2,164	6	\$25,968.00	\$4,328.00
J HALL RD	1,052	4	\$12,624.00	\$3,156.00
CONSTANTINE FAIRFIELD	9,504	9	\$114,048.00	\$12,672.00
GOODMAN LN	3,168	4	\$38,016.00	\$9,504.00
KY-84/HARDIN SPRINGS RD	9,504	20	\$114,048.00	\$5,702.40
ALLEN BALLMAN LN	475	2	\$5,700.00	\$2,850.00
LEGRANDE LN	3,696	6	\$44,352.00	\$7,392.00
D. LUCAS RD	581	1	\$6,972.00	\$6,972.00
TUCKER HIGGS RD	3,696	6	\$44,352.00	\$7,392.00
TUCKER HIGGS SPUR RD	1,584	4	\$19,008.00	\$4,752.00
HAYDEN FENTRESS RD	2,112	4	\$25,344.00	\$6,336.00
TUCKER-HOLMES RD	9,504	10	\$114,048.00	\$11,404.80
HR LUCAS RD	3,168	5	\$38,016.00	\$7,603.20
HENRY DOTSON	1,584	4	\$19,008.00	\$4,752.00
HAGEN DENNIS RD	7,920	11	\$95,040.00	\$8,640.00
CEDAR LN	1,584	3	\$19,008.00	\$6,336.00
MOOK CEMETERY RD (UNSERVED AREA)	8,976	8	\$107,712.00	\$13,464.00
Total	103,376	163	\$1,240,512.00	\$3,607.26



BRECKINRIDGE COUNTY PROJECT AREA NO.12







Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Excluded Project Area 12
-  Project Area 12



BRECKINRIDGE COUNTY PROJECT AREA NO.13

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 13
-  Excluded Project Area 13

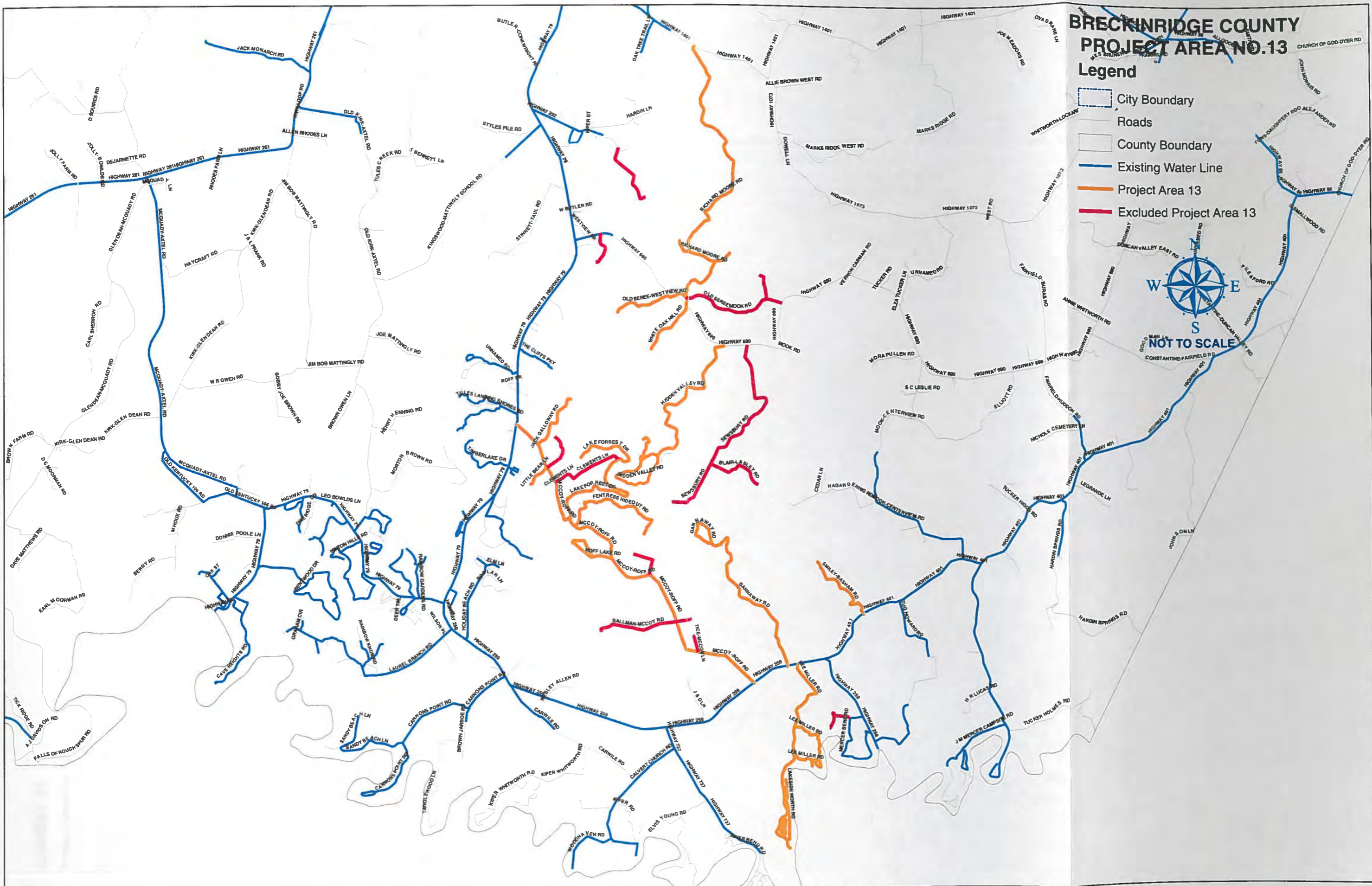


EXHIBIT 19

Project Area No. 14

Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
KY 1740 / KINGSWOOD-MATTINGLY SCHOOL RD	36,960	42	6.0	\$443,520.00	\$10,560.00
OLD KIRK AXTEL RD	17,424	15	4.5	\$209,088.00	\$13,939.20
TULES CREEK RD	21,120	25	6.3	\$253,440.00	\$10,137.60
KIRK-GLEN DEAN RD	31,680	36	6.0	\$380,160.00	\$10,560.00
JIM BOB MATTINGLY RD	18,480	16	4.6	\$221,760.00	\$13,860.00
MORTON BROWN RD	10,560	51	25.5	\$126,720.00	\$2,484.71
BROWNS HIDEAWAY	2,112	31	77.5	\$25,344.00	\$817.55
MONARCH HOME RD	7,392	8	5.7	\$88,704.00	\$11,088.00
M. HOUK RD	5,280	4	4.0	\$63,360.00	\$15,840.00
CLINTON HOUK RD	967	1	5.5	\$11,604.00	\$11,604.00
BERRY RD	5,280	8	8.0	\$63,360.00	\$7,920.00
OLD KIRK AXTEL GLENN DEAN RD	3,669	6	8.6	\$44,028.00	\$7,338.00
T. BENNETT LN	2,640	4	8.0	\$31,680.00	\$7,920.00
BUTTLER CONKWRIGHT RD	5,280	6	6.0	\$63,360.00	\$10,560.00
HENRY HENNING RD	3,696	9	12.9	\$44,352.00	\$4,928.00
KINGSWOOD LAKE RD	5,280	19	19.0	\$63,360.00	\$3,334.74
KINGSWOOD ORCHARD	2,640	7	14.0	\$31,680.00	\$4,525.71
KIPER ST	1,056	11	55.0	\$12,672.00	\$1,152.00
TOM CRITCHELOW	1,056	2	10.0	\$12,672.00	\$6,336.00
O'DONAGHUE-GLENN LN	1,056	4	20.0	\$12,672.00	\$3,168.00
OWEN BASHAM RD	528	3	30.0	\$6,336.00	\$2,112.00
HERSHEL ACRES	528	5	50.0	\$6,336.00	\$1,267.20







Total **184,684** **313** **8.9** **\$2,216,208.00** **\$7,082.77**

Excluded from Project Area No. 14

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
KY 1740 / KINGSWOOD-MATTINGLY SCHOOL RD	36,960	42	\$443,520.00	\$10,560.00
OLD KIRK AXTEL RD	17,424	25	\$209,088.00	\$8,363.52
TULES CREEK RD	21,120	25	\$253,440.00	\$10,137.60
KIRK-GLEN DEAN RD	31,680	36	\$380,160.00	\$10,560.00
JIM BOB MATTINGLY RD	18,480	16	\$221,760.00	\$13,860.00
MORTON BROWN RD	10,560	51	\$126,720.00	\$2,484.71
BROWNS HIDEAWAY	2,112	31	\$25,344.00	\$817.55
MONARCH HOME RD	7,392	8	\$88,704.00	\$11,088.00

BRECKINRIDGE COUNTY PROJECT AREA NO 14

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 14
-  Excluded Project Area 14



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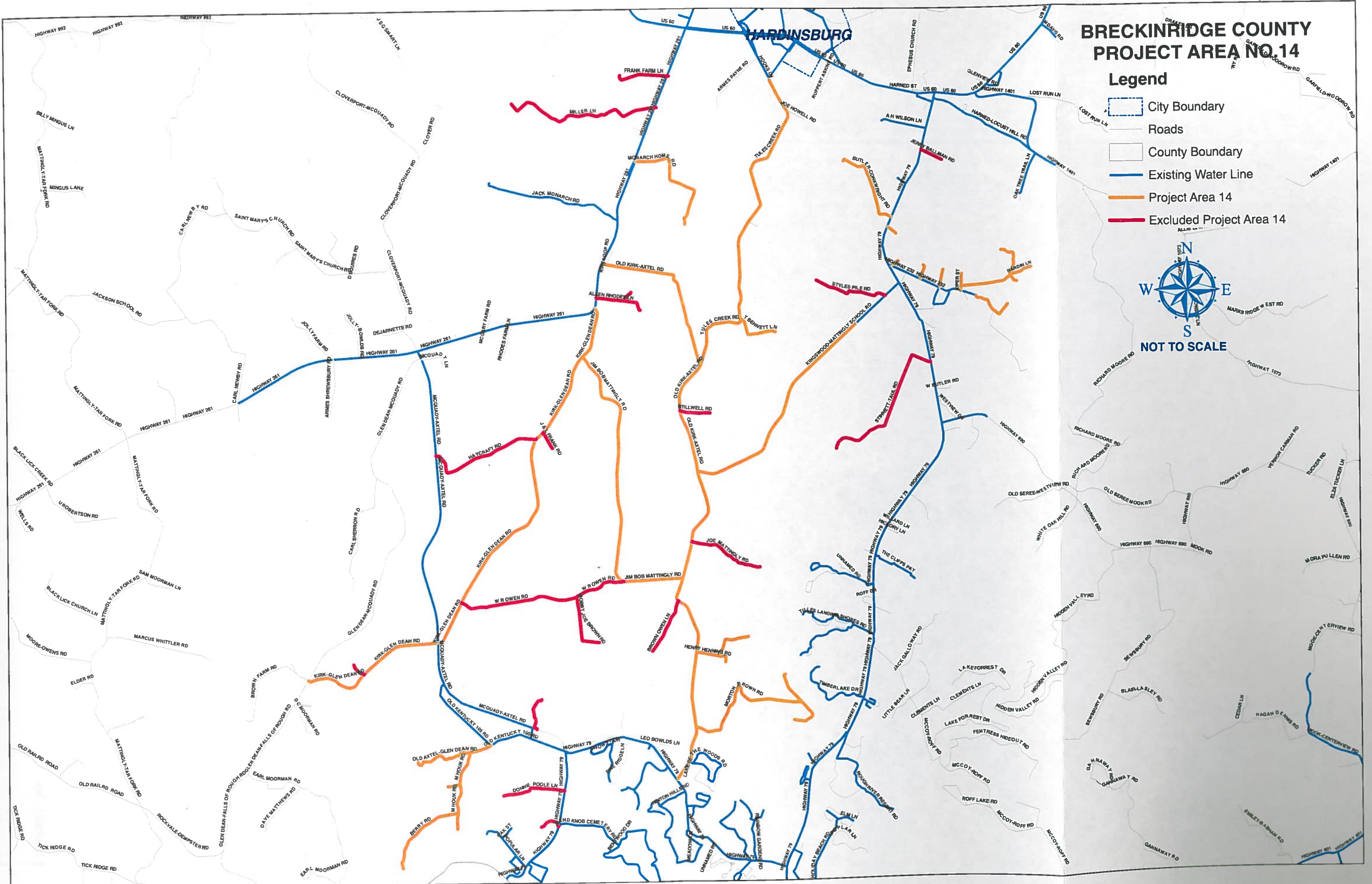


EXHIBIT 20

Project Area No. 15







Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
OLD RAIL ROAD RD	33,792	40	6.3	\$405,504.00	\$10,137.60
CARL SHERRON RD	7,392	9	6.4	\$88,704.00	\$9,856.00
ST MARY'S CHURCH RD	14,784	18	6.4	\$177,408.00	\$9,856.00
KY 105 (UNSERVED AREA)	26,400	31	6.2	\$316,800.00	\$10,219.35
JOLLY BOWLDS RD	3,168	4	6.7	\$38,016.00	\$9,504.00
DEJARNETTE RD	1,584	2	6.7	\$19,008.00	\$9,504.00
McQUADY LN	1,584	11	36.7	\$19,008.00	\$1,728.00
HARTFORD CROSSING	2,112	3	7.5	\$25,344.00	\$8,448.00
AD COX RD	2,112	3	7.5	\$25,344.00	\$8,448.00
TANGLEWOOD LN	10,032	35	18.4	\$120,384.00	\$3,439.54
WESLEY ALLEN RD	3,168	5	8.3	\$38,016.00	\$7,603.20
WILSON PL	2,640	8	16.0	\$31,680.00	\$3,960.00
MAPLE LN	2,112	6	15.0	\$25,344.00	\$4,224.00
SPOTTED FAWN LN	2,112	3	7.5	\$25,344.00	\$8,448.00
DOE RUN	1,056	3	15.0	\$12,672.00	\$4,224.00
WEBSTER WAY	1,056	5	25.0	\$12,672.00	\$2,534.40
SPRING DR	3,168	5	8.3	\$38,016.00	\$7,603.20
CLORA KIPER RD	1,584	4	13.3	\$19,008.00	\$4,752.00
J & D LN	3,696	8	11.4	\$44,352.00	\$5,544.00
CARWILL RD	5,000	5	5.3	\$60,000.00	\$12,000.00
KIPER WHITWORTH RD	15,840	42	14.0	\$190,080.00	\$4,525.71
ROLLINGS STONE ACRES				\$0.00	#DIV/0!
Total	144,392	250	9.1	\$1,732,704.00	\$6,932.81

Excluded from Project Area No. 15

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
OLD RAIL ROAD RD	33,792	40	\$405,504.00	\$10,137.60
Total	33,792	40	\$405,504.00	\$10,138.60

BRECKINRIDGE COUNTY PROJECT AREA NO.15

Legend

-  City Boundary
-  Roads
-  County Boundary
-  Existing Water Line
-  Project Area 15
-  Excluded Project Area 15

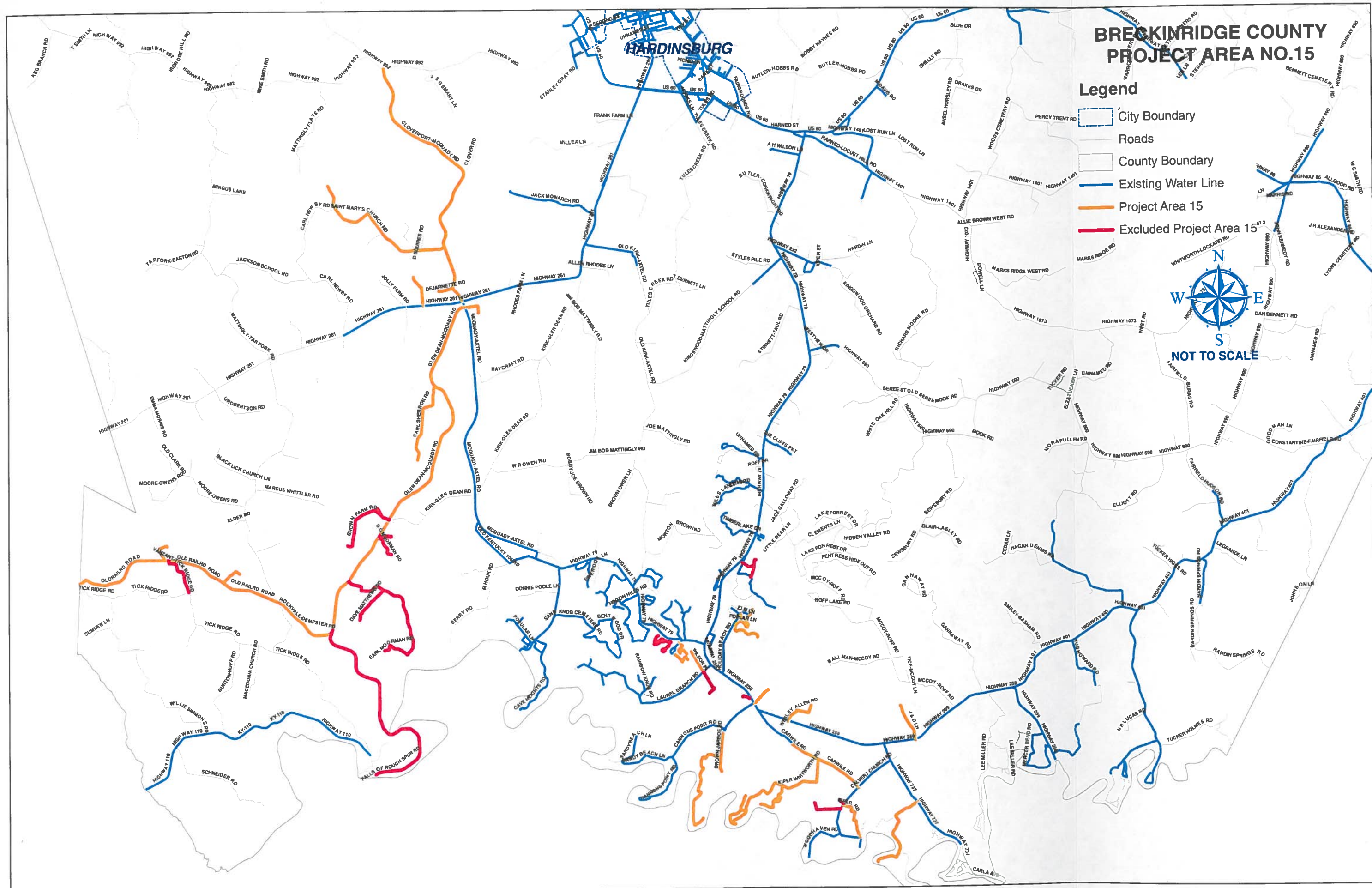


EXHIBIT 21

Project Area No. 16

Road Name	Length in LF	House Holds	House Hold Per Mile	Cost at \$12.00 per LF	Cost per House Hold
KY 261 (UNSERVED AREA)	34,848	42	6.4	\$418,176.00	\$9,956.57
KY 269	84,480	66	4.1	\$1,013,760.00	\$15,360.00
WILLIE SIMMIONS RD	19,536	18	4.9	\$234,432.00	\$13,024.00
BLACK LICK CHURCH RD	5,280	6	6.0	\$63,360.00	\$10,560.00
BURCH-BURNETTE RD	2,112	4	10.0	\$25,344.00	\$6,336.00
SUMNER LN	2,112	4	10.0	\$25,344.00	\$6,336.00
BLACK LICK CREEK RD	2,640	3	6.0	\$31,680.00	\$10,560.00
U ROBERTSON RD	5,280	6	6.0	\$63,360.00	\$10,560.00
WELLS RD	2,112	3	7.5	\$25,344.00	\$8,448.00
EMMA MORRIS	2,112	3	7.5	\$25,344.00	\$8,448.00
HOPEWELL CHURCH RD	9,504	15	8.3	\$114,048.00	\$7,603.20
Total	170,016	170	5.3	\$2,040,192.00	\$12,002.58

Excluded from Project Area No. 16

Road Name	Length in LF	House Holds	Cost at \$12.00 per LF	Cost per House Hold
KY 261 (To County Line) Unserv	34,848	42	\$418,176.00	\$9,956.57
KY 269	84,480	66	\$1,013,760.00	\$15,360.00
KY 105 Cloverport-McQuady Rd	26,400	31	\$316,800.00	\$10,219.35
St. Mary's Church Rd	14,784	18	\$177,408.00	\$9,856.00
Total	160,512	157	\$1,926,144.00	\$12,269.43

