

APPENDIX B:

Traffic Forecast

Traffic Forecast Report

Owensboro Outer Loop Feasibility Study

Daviess County

Item No. N/A

Prepared for:

Kentucky Transportation Cabinet



Prepared by:

HMB Professional Engineers



September 2021

Revised November 2021

Table of Contents

INTRODUCTION AND STUDY AREA	1
EXISTING TRAFFIC VOLUMES	3
FUTURE TRAFFIC VOLUMES	3
CORRIDOR AND SEGMENT FORECASTS	3
DESIGN FACTORS	6
TRUCK VOLUMES	6
POPULATION	6

Table of Figures

Figure 1. Study Area	2
Figure 2. Preliminary Corridors	5

Table of Tables

Table 1. Identified and Committed Projects Included in Owensboro MPO Regional Travel Demand Model.....	3
Table 2. Preliminary Corridor 2045 AADT.....	4
Table 3. Additional Segments of Analysis 2045.....	4
Table 4. Historical Population Growth.....	6
Table 5. Population Forecasts.....	6

Appendices

Appendix A: Traffic Count Data, 2020, and 2045 Volumes

Appendix B: Preliminary Corridor Model Output

COMMONLY USED ABBREVIATIONS

AADT	Average Annual Daily Traffic	Adjusted for seasonal and monthly factors
AADTT	Average Annual Daily Truck Traffic	Total truck volume for a year
DHV	Design Hour Volume	30 th highest hour of a year
%T	Truck Percentage	Percentage of trucks to total volume
FC	Functional Class	Street or highway’s group based on service
GR	Growth Rate	Calculated value to estimate future volumes
PHF	Peak Hour Factor	Considers 15 min. spike in an hourly count
K-Factor	30 th Highest Hour Factor	DHV divided by ADT (DHV/ADT)
D-Factor	Directional Factor	Percentage of dominant flow to total
MP	Mile Point	Miles increase easterly and northerly
ATR	Automatic Traffic Recorder	Permanent and continuous recording station
KYSTM	Kentucky Statewide Model	Computerized representation of KY roads

INTRODUCTION AND STUDY AREA

The Owensboro Outer Loop Feasibility Study was initiated by the Kentucky Transportation Cabinet (KYTC) in coordination with the Owensboro Metropolitan Planning Organization (MPO) and the Green River Area Development District (GRADD). The objective of the study is to evaluate the feasibility of an “outer loop” around Owensboro in Daviess County, Kentucky. This includes identification and evaluation of potential connections that would enhance the transportation network around Owensboro. The current project phase is a feasibility study. Traffic impacts will be evaluated for the base year (2020) and future year (2045).

The study area encompasses the surrounding area of Owensboro in Daviess County, Kentucky as shown in **Figure 1**. This includes US 60 from the intersection with US 231 in the east to the intersection with KY 1554 in the west. It extends into the county south to the area where I-165 intersects with KY 142. All state-maintained routes within this boundary are included for consideration of this study.

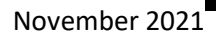
This document summarizes the traffic forecast procedure and presents the following types of forecasts:

- 2020 Base Year Mainline Volumes (AADT)
- 2045 Future Year Mainline Volumes (AADT)
- Identified Corridor Future Year (2045) Volumes (AADT)
- Identified Segment Future Year (2045) Volumes (AADT)

The Owensboro MPO Regional Travel Demand Model provides the basis of information for these forecasts. In conjunction with this feasibility study, the model was updated from years 2010/2040 to 2018/2045 in TransCAD 8 version 22330. This includes updating socioeconomic data and committed and identified projects. The new number of traffic analysis zones (TAZs) was 589. For information regarding the model update, please refer to the model documentation provided to KYTC.

The following sections provide the information relative to the development and presentation of the traffic forecast numbers for this study.

Traffic Forecast Report, Owensboro Outer Loop Feasibility Study



EXISTING TRAFFIC VOLUMES

The most recent Average Daily Traffic (ADT) volumes on the state-maintained routes within the study area were obtained from the KYTC traffic count reporting system (CTS). The station numbers, last year of count, and traffic volumes (ADT) are shown in **Appendix A**.

FUTURE TRAFFIC VOLUMES

The proposed growth rates for this study area were based on the Owensboro MPO Regional Travel Demand Model. Model runs were completed for the base year 2018 and 2045 and compared to determine a per year growth rate. The 2045 model run included identified and committed projects (**Table 1**) that would either affect capacity or travel time within the study area. These were determined by the Project Team and discussed during the second Project Team Meeting on March 3, 2021.

Table 1. Identified and Committed Projects Included in Owensboro MPO Regional Travel Demand Model

County	Item No.	Route	Type	Description
Daviess	2-8300	KY 54	Major Widening	Convert section to 5 lanes
Daviess	2-8854	KY 3143	Minor Widening	Convert section to 3 lanes
Daviess	N/A	Fairview Dr.	Extension	Extend Fairview Dr. to Pleasant Valley Rd.
Daviess / Henderson	N/A	Audubon Pkwy.	Conversion	Convert to interstate facility
Henderson	N/A	I-69	New River Crossing	New route across the Ohio River

Applying the growth rates to existing counts, AADT forecasts were developed for 2020 and 2045. Growth rate percentages and volumes are shown in **Appendix A**.

CORRIDOR AND SEGMENT FORECASTS

The Owensboro MPO Regional Travel Demand Model was also used to help determine traffic volumes / usage of the preliminary corridors identified through the feasibility study. The preliminary corridors included:

- No Build – no “Outer Loop” construction; routine maintenance and rehabilitation of existing infrastructure in study area.
- Green – At an approximate length of 35 miles, this is the longest of all corridors that provides full connectivity between US 60 east and west of Owensboro. It is the farthest option from / outside the city and is comprised of Segments A, B, C, D, E, F, G, H, I, J, K, L, W, and X. From the

scoring perspective, this option is the lowest ranked outer corridor based on the comparative technical analysis.

- Red – At an approximate length of 22 miles, this is the shortest of all corridors that provides full connectivity between US 60 east and west of Owensboro. It is the closest option to the city and is comprised of Segments Z, AA, AB, AC, AD, AE, AF, AG, AH.
- Blue – This corridor is a hybrid option of the Red and Green corridors and has an approximate length of 31 miles. It is comprised of Segments Z, AA, AB, P, D, E, F, G, H, I, J, K, L, W, and X. This corridor ranked the highest meaning it would have less impacts and more benefits compared to the other routes.

Figure 2 shows the preliminary corridors in the context of the study area. The resulting traffic volumes for 2045 are shown in **Table 2**. A 4-lane typical section was analyzed, and all corridors are assumed to connect to major intersecting roadways including new interchanges with I-165. As this is a high-level feasibility study, no additional adjustment / calibration was performed on the model results except rounding. Volumes provided should be used for comparative purposes and not as an indication of absolute future usage. For a breakdown of volumes by segment and changes from the No Build, please refer to **Appendix B**.

Table 2. Preliminary Corridors 2045 AADT

Corridor	Lowest Volume AADT		Highest Volume AADT		Corridor Weighted Average AADT
Green	340	Audubon Pky to US 60	11,670	US 231 to I-165	2,370
Blue	790	Near KY 81 / KY 2698	11,770	US 231 to I-165	2,240
Red	790	US 60 to W 5 th St Rd	16,220	KY 144 to KY 1456	8,490

As part of the feasibility study, the Project Team also determined there was merit in evaluating three segments that have the potential to be independent projects with consideration to go into the CHAF Database. The segments include AE, AF, G, and a combination of AE and AF. Using the Owensboro MPO Regional Travel Demand Model, **Table 3** displays the resulting volumes.

Table 3. Additional Segments of Analysis 2045 AADT

Segment	2045 AADT
G	12,580
AE	5,580
AF	10,680
AE + AF	12,130

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DESIGN FACTORS

Level of Service analysis utilized AADT volumes for the spreadsheet analysis. Hourly factors (K-Factor) directional factors (D-Factor) were not required for this analysis.

TRUCK VOLUMES

Truck percentages were derived from count information where available through the KYTC Traffic Count Reporting System and the KYTC Vehicle Classification spreadsheet.

The same growth rate used for overall traffic growth per year is recommended to be applied for the truck volumes.

Truck percentages are shown in **Appendix A** by segment.

POPULATION

Population data was obtained from the Kentucky State Data Center for Kentucky and all Daviess County for additional information. **Table 4** provides historical population growth by decade. **Table 5** displays population projections by decade.

Table 4. Historical Population Growth

Area	1990	2000	2010	% Growth (2000 – 2010)
Kentucky	3,685,296	4,041,769	4,339,367	7.4%
Daviess County	87,189	91,545	96,656	5.6%

Source: Kentucky State Data Center (Vintage 2016)

Table 5. Population Forecasts

Area	2010 Census	2015 Estimate	2020 Projection	2030 Projection	2040 Projection	% Growth (2010 – 2040)
Kentucky	4,339,367	4,425,092	4,533,464	4,762,382	4,886,381	12.6%
Daviess County	96,656	99,259	102,033	106,676	110,129	13.9%

Source: Kentucky State Data Center (Vintage 2016)

Historically population growth is slightly less than that for the state. Population forecasts show a slightly higher growth in population numbers between 2010 and 2040 for Daviess County compared to Kentucky.

APPENDIX A

Route Description	Route #	Beginning Description	End Description	Begin MP	End MP	Last Count (ADT)	Last Count Year2	Count Station ID	Growth Rate	2020 AADT	2045 AADT	Truck %
AUDUBON PKWY	AU 9005	HENDERSON COUNTY LINE	US 608 BRIDGE	15.883	23.441	9601	2019	030822	0.6%	9660	11220	20.77
WRIGHTS LANDING RD	CR 1079	KY 2830	US 60	0	0.441	764	2018	030103	0.0%	760	760	0
GRAHAM LN	CR 1081	KY 1456 (REID ROAD)	KY 144	0	1.228	2552	2017	030053	1.8%	2690	4210	0
HAYDEN RD	CR 1089	PLEASANT VALLEY RD NO. 2	CITY LIMITS	1.647	1.809	5282	2018	030C88	3.8%	5690	14460	0
HAYDEN RD	CR 1089	KY 1456	PLEASANT VALLEY RD NO 1	0	1.647	1669	2019	030E31	4.7%	1750	5510	0
HAYDEN RD	CR 1089	KY 1456	PLEASANT VALLEY RD NO 1	0	1.647	1669	2019	030E31	4.7%	1750	5510	0
DANIELS LN	CR 1090	KY 144	HAYDEN ROAD	0	1.299	2200	2019	030C87	0.5%	2210	2500	0
PLEASANT VALLEY RD - 2	CR 1099	KY-1456		6.54	7.883	2767	2018	030068	2.5%	2910	5390	0
VEACH RD	CR 1215	ARBOR GATE ROAD-BEG CS1646	SUTHERLAND RD/SALEM DRIVE	0	1.327	5587	2019	030C05	0.0%	5590	5590	0
BITTEL RD	CR 1332	KY 2118 (AIRPORT ROAD)	END COUNTY MAIN-BEGIN CS1236	0.216	0.564	953	2019	030C37	0.5%	960	1080	0
WORTHINGTON RD	CR 1336	KY 56	WEST 5TH STREET ROAD	0	1.419	2216	2019	030C84	1.1%	2240	2950	0
WORTHINGTON RD	CR 1336	KY 56	WEST 5TH STREET ROAD	0	1.419	2216	2019	030C84	1.1%	2240	2950	0
WORTHINGTON RD	CR 1336	WEST FIFTH STREET	LEE RUDY ROAD	0	1.419	3070	2019	030D08	1.7%	3120	4760	0
WEST 5TH ST RD	CR 1339	LYDANNE BRIDGE ROAD	END OF COUNTY MAINTENANCE	2.465	4.402	186	2019	030C92	2.2%	190	330	0
WEST 5TH ST RD	CR 1339	LYDANNE BRIDGE ROAD	END OF COUNTY MAINTENANCE	4.402	5.229	186	2019	030C92	2.2%	190	330	0
LYDANNE BRIDGE RD	CR 1394	KY 56	WEST FIFTH STREET	0	0.661	645	2019	030786	0.9%	650	810	0
WEST 5TH ST RD	CS 1101	CARTER ROAD	KY 2701 (WEST FIFTH STREET RD)	0	0.794	1375	2019	030A62	1.4%	1390	1970	0
BITTEL RD	CS 1235	END COUNTY MAINTENANCE	KY 2698 (CARTER ROAD)	0	1.229	953	2019	030C37	0.5%	960	1080	0
J R MILLER BLVD	CS 1262	KY 2155 (EAST FIFTH STREET)	SOUTHTOWN BOULEVARD	0.079	3.18	9072	2018	030E26	0.0%	9070	9070	0
SOUTHTOWN BLVD	CS 1263	US 431 (FREDERICA STREET)	MARTIN LUTHER KING JR LOOP	0.243	0.823	7509	2018	030E20	0.0%	7510	7510	0
SALEM DR	CS 1264	US 421	J R MILLER BOULEVARD	0	0.918	4714	2019	030E11	0.3%	4730	5100	0
SALEM DR	CS 1264	J R MILLER BOULEVARD	SUTHERLAND RD/VEACH ROAD	0	0.918	5587	2019	030C05	0.3%	5600	6040	0
GEMINI DR	CS 1280	KY 2121 (SOUTHTOWN BOULEVARD)	TAMARACK ROAD	0	0.599	3890	2017	030E30	1.0%	4010	5140	0
GEMINI DR	CS 1280	KY 2121 (SOUTHTOWN BOULEVARD)	TAMARACK ROAD	0	0.599	3890	2017	030E30	1.0%	4010	5140	0
GEMINI DR	CS 1280	KY 2121 (SOUTHTOWN BOULEVARD)	TAMARACK ROAD	0	0.599	3890	2017	030E30	1.0%	4010	5140	0
TAMARACK RD	CS 1330	LOVELL DRIVE	US 431 (FREDERICA STREET)	1.084	2.205	8033	2018	030824	1.2%	8230	11090	0
TAMARACK RD	CS 1330	LOVELL DRIVE	US 431 (FREDERICA STREET)	1.084	2.205	8033	2018	030824	1.2%	8230	11090	0
TAMARACK RD	CS 1330	KY 2698 (CARTER ROAD)	GEMINI DR/ARLINGTON DR	0.483	1.084	8583	2019	030C08	0.9%	8660	10830	0
SCHERM RD	CS 1439	SOUTH GRIFFITH AVENUE	KY 2707 (BARRON DRIVE)	0	1.611	5164	2018	030829	1.4%	5310	7520	0
EAST BYERS AVE	CS 1574	KY 2155 (NEW HARTFORD ROAD)	VEACH ROAD	1.095	2.205	4945	2019	030E16	0.0%	4950	4950	0
VEACH RD	CS 1646	ARBOR GATE RD-END CR1215	US 231	1.574	1.878	5587	2019	030C05	0.0%	5590	5590	0
MARTIN LUTHER KING JR LOOP	CS 1783	US 431	SOUTHTOWN BOULEVARD	1.231	2.418	1774	2013	030E45	0.1%	1790	1830	0
RAGU DR	CS 1030	KY 54	GRIMES AVENUE	0	0.903	4519	2018	030G21	3.2%	4810	10580	0
I-165	1165	OHIO COUNTY LINE	US 60	59.474	70.185	10178	2019	092782	0.0%	10180	10180	29.915
I-165	1165	OHIO COUNTY LINE	US 60	59.474	70.185	10178	2019	092782	0.0%	10180	10180	29.915
I-165	1165	OHIO COUNTY LINE	US 60	59.474	70.185	10178	2019	092782	0.0%	10180	10180	29.915
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-56	KY 56	KY 279	KY 81	10.731	14.088	7631	2018	030753	0.0%	7630	7630	11.603
KY-142	KY 142	KY 54 DEPARTURE	PLEASANT VALLEY ROAD NO 2 & 3	5.98	10.146	1560	2018	030062	0.8%	1590	1930	0
KY-142	KY 142	KY 762	KY 54 JUNCTION	0	5.98	627	2017	030308	0.4%	630	700	0
KY-142	KY 142	KY 762	KY 54 JUNCTION	0	5.98	627	2017	030308	0.4%	630	700	0
KY-142	KY 142	KY 762	KY 54 JUNCTION	0	5.98	627	2017	030308	0.4%	630	700	0
KY-142	KY 142	US 231	KY 762	0	5.98	693	2019	030254	0.9%	700	870	0
KY-142	KY 142	US 231	KY 762	0	5.98	693	2019	030254	0.9%	700	870	0
EAST PARRISH AVE+KY-54	KY 54	LEITCHFIELD ROAD	US 60 OVERPASS	0	2.566	15533	2012	030A26	0.5%	16170	18310	8.993
EAST PARRISH AVE+KY-54	KY 54	LEITCHFIELD ROAD	US 60 OVERPASS	0	2.566	15533	2012	030A26	0.5%	16170	18310	8.993
KY-142	KY 142	PLEASANT VALLEY ROAD NO 2 & 3	KY 144	5.98	10.146	574	2019	030061	0.8%	580	710	0
KY-144	KY 144	DANIELS LANE/RIVERSIDE DRIVE	US 60	0	4.966	13241	2018	030843	1.3%	13590	18770	6.92
KY-144	KY 144	DANIELS LANE/RIVERSIDE DRIVE	US 60	0	4.966	13241	2018	030843	1.3%	13590	18770	6.92
KY-144	KY 144	DANIELS LANE/RIVERSIDE DRIVE	US 60	0	4.966	13241	2018	030843	1.3%	13590	18770	6.92
KY-144	KY 144	KY 405	JONES ROAD/KY 1389	0	4.966	4961	2017	030052	0.1%	4980	5100	20.844
KY-144	KY 144	KY 405	JONES ROAD/KY 1389	0	4.966	4961	2017	030052	0.1%	4980	5100	20.844
KY-144	KY 144	KY 405	JONES ROAD/KY 1389	0	4.966	4961	2017	030052	0.1%	4980	5100	20.844
KY-144	KY 144	US 60	KY 405	0	4.966	9098	2018	030007	0.6%	9210	10690	0
KY-144	KY 144	US 60	KY 405	0	4.966	9098	2018	030007	0.6%	9210	10690	0
KY-144	KY 144	US 60	KY 405	0	4.966	9098	2018	030007	0.6%	9210	10690	0
KY-144	KY 144	US 60	KY 405	0	4.966	9098	2018	030007	0.6%	9210	10690	0
KY-144	KY 144	US 60	KY 405	0	4.966	9098	2018	030007	0.6%	9210	10690	0
KY-54	KY 54	ED FOSTER RD/KY 142	DITTO ROAD	5.491	17.619	8812	2017	030251	0.4%	8920	9850	8.663
KY-54	KY 54	ED FOSTER RD/KY 142	DITTO ROAD	5.491	17.619	8812	2017	030251	0.4%	8920	9850	8.663
KY-54	KY 54	US 60 OVERPASS	KY 3143/FAIRVIEW DRIVE	2.566	5.491	13147	2018	030091	0.3%	32670	33720	8.663
KY-54	KY 54	KY 3143/FAIRVIEW DRIVE	KY 1456	2.566	5.491	17018	2018	030294	0.5%	17190	19470	8.663
KY-54	KY 54	KY 3143/FAIRVIEW DRIVE	KY 1456	2.566	5.491	17018	2018	030294	0.5%	17190	19470	8.663
KY-81	KY 81	KY 554	HAYCRAFT ROAD	8.625	11.891	5145	2017	030551	0.3%	5190	5600	10.896
KY-81	KY 81	KY 554	HAYCRAFT ROAD	0	8.625	5145	2017	030551	0.3%	5190	5600	10.896
WEST PARRISH AVE	KY 81	US 60 OVERPASS	BOSLEY ROAD	11.891	14.493	15013	2019	030A47	0.4%	15070	16650	7.527
KY-81+WEST PARRISH AVE	KY 81	HAYCRAFT ROAD	KY 56	8.625	11.891	3915	2019	030C89	0.4%	3930	4340	15.478
KY-81+WEST PARRISH AVE	KY 81	HAYCRAFT ROAD	KY 56	8.625	11.891	3915	2019	030C89	0.4%	3930	4340	15.478
KY-81+WEST PARRISH AVE	KY 81	HAYCRAFT ROAD	KY 56	8.625	11.891	3915	2019	030C89	0.4%	3930	4340	15.478
KY-54	KY 54	KY 1456	ED FOSTER RD/KY 142	5.491	17.619	9967	2018	030289	0.4%	10050	11100	8.663
KY-54	KY 54	KY 1456	ED FOSTER RD/KY 142	5.491	17.619	9967	2018	030289	0.4%	10050	11100	8.663
KY-54	KY 54	KY 1456	ED FOSTER RD/KY 142	2.566	5.491	9967	2018	030289	0.4%	10050	11100	8.663
KY-54	KY 54	KY 1456	ED FOSTER RD/KY 142	2.566	5.491	9967	2018	030289	0.4%	10050	11100	8.663
KY-56	KY 56	KY 456	HAYDEN BRIDGE ROAD/KY 279	10.731	14.088	2888	2018	030510	0.1%	2890	2970	11.603
KY-56	KY 56	KY 456	HAYDEN BRIDGE ROAD/KY 279	0	10.731	2888	2018	030510	0.1%	2890	2970	11.603
KY-56	KY 56	KY 456	HAYDEN BRIDGE ROAD/KY 279	0	10.731	2888	2018	030510	0.1%	2890	2970	11.603
KY-56	KY 56	KY 456	HAYDEN BRIDGE ROAD/KY 279	0	10.731	2888	2018	030510	0.1%	2890	2970	11.603
WEST PARRISH AVE	KY 81	KY 56	US 60 OVERPASS	8.625	11.891	13750	2019	030C86	0.3%	13790	14860	7.527
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WEST PARRISH AVE	KY 81	KY 56	US 60 OVERPASS	8.625	11.891	13750	2019	030C86	0.3%	13790	14860	7.527
KY-279 SOUTH	KY 279	KY 815	ALVEY BRIDGE ROAD	7.415	13.071	215	2018	030762	0.0%	220	220	0
KY-279 NORTH	KY 279	US 60	FRENCH ISLAND RD/WIMSATT ROAD	0	7.016	672	2017	030				

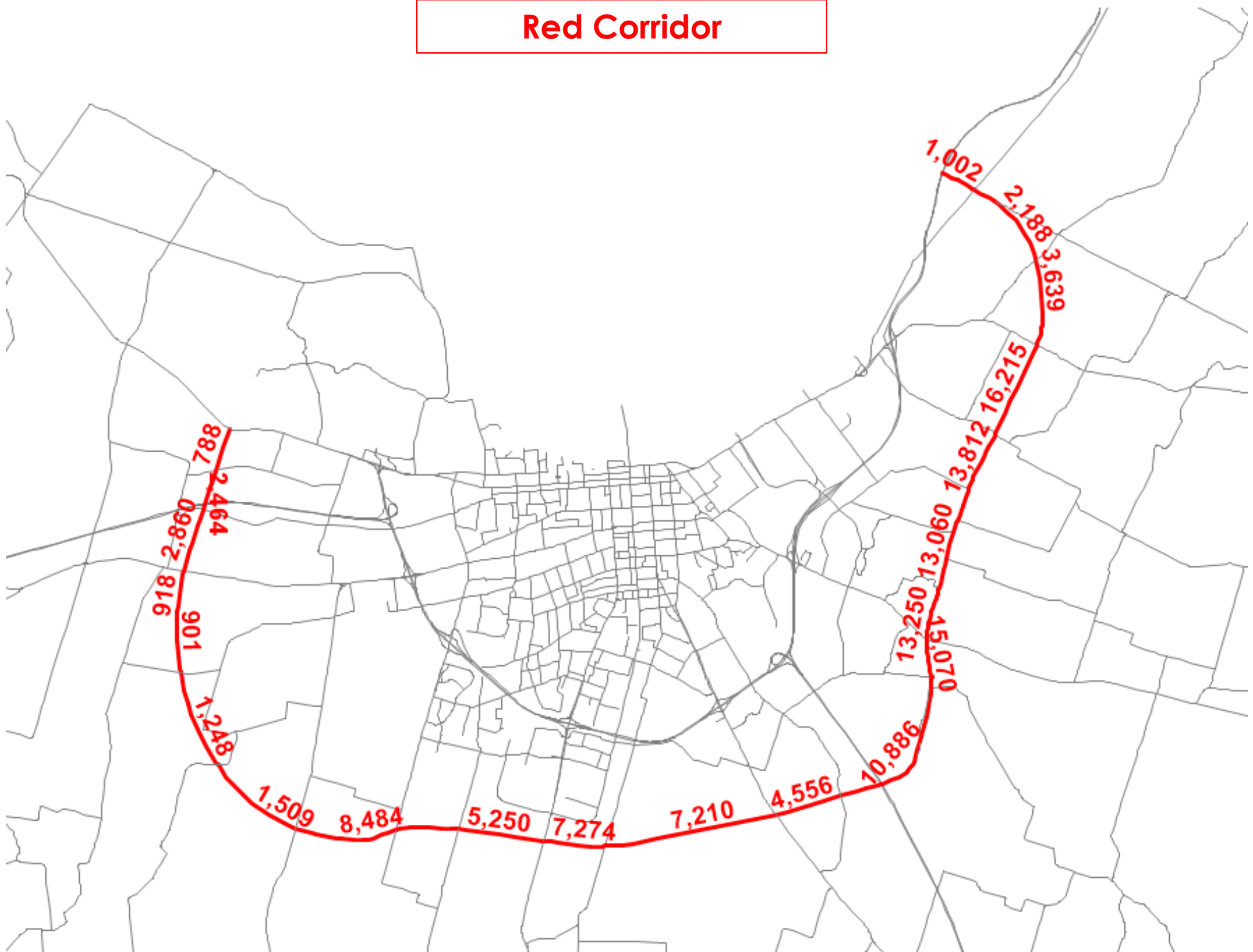
Route Description	Route #	Beginning Description	End Description	Begin MP	End MP	Last Count (ADT)	Last Count Year	Count Station ID	Growth Rate	2020 AADT	2045 AADT	Truck %
WRIGHTS LANDING RD+KY-1389	KY 1389	KY 1831	KY 657	0	10.71	708	2017	030030	1.4%	740	1040	0
WRIGHTS LANDING RD+KY-1389	KY 1389	KY 1831	KY 657	0	10.71	708	2017	030030	1.4%	740	1040	0
KY-1389	KY 1389	KY 144	KY 1831	0	10.71	885	2018	030054	1.5%	910	1320	0
MILLERS MILL RD	KY 1456	MILLERS MILL ROAD	KY 54	2.289	7.308	4986	2018	030292	0.4%	5030	5550	5.959
MILLERS MILL RD	KY 1456	MILLERS MILL ROAD	KY 54	0	2.289	4986	2018	030292	0.4%	5030	5550	5.959
THRUSTON-DERMONT RD+REID RD	KY 1456	FIELDS ROAD	KY 144	2.289	7.308	3633	2019	030065	1.2%	3680	4950	5.959
THRUSTON-DERMONT RD+REID RD	KY 1456	FIELDS ROAD	KY 144	2.289	7.308	3633	2019	030065	1.2%	3680	4950	5.959
THRUSTON-DERMONT RD+REID RD	KY 1456	FIELDS ROAD	KY 144	2.289	7.308	3633	2019	030065	1.2%	3680	4950	5.959
THRUSTON-DERMONT RD	KY 1456	KY 54	FIELDS ROAD	2.289	7.308	4565	2018	030290	1.3%	4680	6470	5.959
NEWBOLT RD	KY 1456	KY 298	MILLERS MILL ROAD	0	2.289	542	2017	030293	0.8%	560	680	5.959
NEWBOLT RD	KY 1456	KY 298	MILLERS MILL ROAD	0	2.289	542	2017	030293	0.8%	560	680	5.959
NEWBOLT RD	KY 1456	KY 298	MILLERS MILL ROAD	0	2.289	542	2017	030293	0.8%	560	680	5.959
KY-1554	KY 1554	KY 960	US 60	0	5.769	332	2018	030798	0.0%	330	330	0
KY-1554	KY 1554	KY 960	US 60	0	5.769	332	2018	030798	0.0%	330	330	0
KY-1554	KY 1554	CURDSVILLE-DELAWARE ROAD	KY 960	0	5.769	542	2019	030791	0.8%	550	670	0
KY-1554	KY 1554	CURDSVILLE-DELAWARE ROAD	KY 960	0	5.769	542	2019	030791	0.8%	550	670	0
KY-1554	KY 1554	KY 56	CURDSVILLE-DELAWARE ROAD	0	5.769	1523	2018	030792	0.6%	1540	1790	0
KY-1554	KY 1554	KY 56	CURDSVILLE-DELAWARE ROAD	0	5.769	1523	2018	030792	0.6%	1540	1790	0
KY-1554	KY 1554	KY 56	CURDSVILLE-DELAWARE ROAD	0	5.769	1523	2018	030792	0.6%	1540	1790	0
WRIGHTS LANDING RD	KY 1831	KY 405	KY 1389 JUNCTION	0	2.798	1323	2019	030047	0.6%	1330	1550	0
WRIGHTS LANDING RD+KNOTTSSVILLE-MOUNT ZION RD	KY 1831	KY 1389 DEPARTURE	KY 144	2.798	5.64	358	2017	030015	0.7%	370	440	0
WRIGHTS LANDING RD	KY 1831	KY 2830	KY 405	0	2.798	964	2018	030050	0.0%	960	960	0
KINGFISHER LAKE RD	KY 2116	KY 405	KY 405	0	0.667	130	2017	030094	0.0%	130	130	0
SOUTHEASTERN PKWY	KY 2117	US 231	KY 298	0	0.61	4676	2018	030822	0.2%	4690	4940	8.927
AIRPORT RD	KY 2118	AIRPORT PARKING LOT	KY 81	0	0.083	911	2017	030006	0.0%	910	910	0
AIRPORT RD	KY 2118	AIRPORT PARKING LOT	KY 81	0.083	0.482	911	2017	030006	0.0%	910	910	0
WORTHINGTON RD	KY 2120	WORTHINGTON RD/LEE RUDY ROAD	US 60	0	0.381	3070	2019	030008	1.1%	3100	4080	0
SOUTHTOWN BLVD	KY 2121	KY 2127/GEMINI DRIVE	US 431 IN OWENSBORO	0	1.78	11967	2017	030C34	0.0%	11970	11970	6.464
SOUTHTOWN BLVD	KY 2121	KY 2127/GEMINI DRIVE	US 431 IN OWENSBORO	0	1.78	11967	2017	030C34	0.0%	11970	11970	6.464
SOUTHTOWN BLVD	KY 2121	KY 2127/GEMINI DRIVE	US 431 IN OWENSBORO	0	1.78	11967	2017	030C34	0.0%	11970	11970	6.464
SOUTHTOWN BLVD	KY 2121	KY 2127/GEMINI DRIVE	US 431 IN OWENSBORO	0	1.78	11967	2017	030C34	0.0%	11970	11970	6.464
SOUTHTOWN BLVD	KY 2121	KY 2698	KY 2127/GEMINI DRIVE	0	1.78	9257	2018	030A78	0.0%	9260	9260	6.464
ROY CLARK RD	KY 2122	KY 144	KY 1389	0	0.29	104	2019	030095	0.0%	100	100	0
TODD BRIDGE RD	KY 2127	KY 1207	KY 554	0	5.762	786	2017	030546	0.0%	790	790	0
TODD BRIDGE RD	KY 2127	KY 554	KY 2121	5.762	6.757	825	2018	030625	0.6%	830	970	0
TODD BRIDGE RD	KY 2127	KY 554	KY 2121	5.762	6.757	825	2018	030625	0.6%	830	970	0
TODD BRIDGE RD	KY 2127	KY 554	KY 2121	5.762	6.757	825	2018	030625	0.6%	830	970	0
NEW HARTFORD RD	KY 2155	US 231	KY 1432	0	2.46	16103	2017	030A56	0.1%	16150	16560	11.76
NEW HARTFORD RD	KY 2155	US 231	KY 1432	0	2.46	16103	2017	030A56	0.1%	16150	16560	11.76
CARTER RD	KY 2698	TAMARACK ROAD	US 608 OVERPASS	1.2	3.449	14295	2017	030A31	2.0%	15170	24890	9.313
CARTER RD	KY 2698	TAMARACK ROAD	US 608 OVERPASS	1.2	3.449	14295	2017	030A31	2.0%	15170	24890	9.313
CARTER RD	KY 2698	TAMARACK ROAD	US 608 OVERPASS	1.2	3.449	14295	2017	030A31	2.0%	15170	24890	9.313
CARTER RD	KY 2698	TAMARACK ROAD	US 608 OVERPASS	1.2	3.449	14295	2017	030A31	2.0%	15170	24890	9.313
CARTER RD	KY 2698	TAMARACK ROAD	US 608 OVERPASS	1.2	3.449	14295	2017	030A31	2.0%	15170	24890	9.313
CARTER RD	KY 2698	KY 2121	TAMARACK ROAD	1.2	3.449	11112	2018	030C07	0.0%	11110	11110	9.313
CARTER RD	KY 2698	KELLER ROAD/CARTER ROAD	KY 2121	0.249	1.2	3067	2018	030536	0.6%	3100	3600	9.313
CARTER RD	KY 2698	KELLER ROAD/CARTER ROAD	KY 2121	0.249	1.2	3067	2018	030536	0.6%	3100	3600	9.313
CARTER RD	KY 2698	KELLER ROAD/CARTER ROAD	KY 2121	0.249	1.2	3067	2018	030536	0.6%	3100	3600	9.313
CARTER RD	KY 2698	US 608 OVERPASS	KY 81	1.2	3.449	16258	2017	030A32	0.3%	16400	17680	13.66
CARTER RD	KY 2698	US 608 OVERPASS	KY 81	1.2	3.449	16258	2017	030A32	0.3%	16400	17680	13.66
CARTER RD	KY 2698	US 608 OVERPASS	KY 81	1.2	3.449	16258	2017	030A32	0.3%	16400	17680	13.66
CARTER RD	KY 2698	US 608 OVERPASS	KY 81	1.2	3.449	16258	2017	030A32	0.3%	16400	17680	13.66
GOETZ DR	KY 2699	KY 2121	US 431	0	0.741	3190	2019	030D84	0.0%	3190	3190	0
GOETZ DR	KY 2699	KY 2121	US 431	0	0.741	3190	2019	030D84	0.0%	3190	3190	0
GOETZ DR	KY 2699	KY 2121	US 431	0	0.741	3190	2019	030D84	0.0%	3190	3190	0
BARRON DR	KY 2707	SCHERM ROAD	KY 2698	0	1.11	4180	2019	030C32	1.3%	4230	5850	3.796
BARRON DR	KY 2707	TAMARACK ROAD	SCHERM ROAD	0	1.11	2428	2017	030C33	0.5%	2460	2790	3.796
FRONTAGE RD NO. 4+PARRISH PLAZA DR	KY 2708	0.107 MI SW KY 81 E OF US 608	KY 81	0	0.107	612	2016	030823	0.0%	610	610	0
KY-2830+JULIA AVE+KY-2830	KY 2830	KY 144	KY 1831/WRIGHTS LANDING ROAD	0	3.79	2866	2018	030097	0.2%	2880	3020	0
KY-2830+JULIA AVE+KY-2830	KY 2830	KY 144	KY 1831/WRIGHTS LANDING ROAD	0	3.79	2866	2018	030097	0.2%	2880	3020	0
KY-2830+JULIA AVE+KY-2830	KY 2830	KY 144	KY 1831/WRIGHTS LANDING ROAD	0	3.79	2866	2018	030097	0.2%	2880	3020	0
KY-2830+JULIA AVE+KY-2830	KY 2830	KY 144	KY 1831/WRIGHTS LANDING ROAD	0	3.79	2866	2018	030097	0.2%	2880	3020	0
KY-2830	KY 2830	KY 1831/WRIGHTS LANDING ROAD	KY 405/ROCKPORT FERRY ROAD	3.79	6.745	2670	2017	030098	1.0%	2750	3530	0
KY-2830	KY 2830	KY 1831/WRIGHTS LANDING ROAD	KY 405/ROCKPORT FERRY ROAD	0	3.79	2670	2017	030098	1.0%	2750	3530	0
KY-2830	KY 2830	KY 405/ROCKPORT FERRY ROAD	KY 334	3.79	6.745	1705	2018	030100	0.2%	1710	1800	0
FREDERICA ST	KY 2831	US 431	KY 54/KY 81	0	2.511	20130	2018	030A29	0.0%	20130	20130	42.303
FREDERICA ST	KY 2831	US 431	KY 54/KY 81	0	2.511	20130	2018	030A29	0.0%	20130	20130	42.303
BOOTH FIELD RD	KY 3067	US 60	MEDLEY ROAD	0	0.572	1626	2019	030C81	0.0%	1630	1630	5.024
FAIRVIEW DR	KY 3143	KY 298	I-165 OVERPASS	0	2.958	9302	2018	030897	0.3%	9360	10090	7.307
FAIRVIEW DR	KY 3143	KY 298	I-165 OVERPASS	0	2.958	9302	2018	030897	0.3%	9360	10090	7.307
FAIRVIEW DR	KY 3143	I-165 OVERPASS	KY 54	0	2.958	6721	2019	030D95	0.8%	6770	8270	7.307
FAIRVIEW DR	KY 3143	I-165 OVERPASS	KY 54	0	2.958	6721	2019	030D95	0.8%	6770	8270	7.307
FAIRVIEW DR	KY 3143	I-165 OVERPASS	KY 54	0	2.958	6721	2019	030D95	0.8%	6770	8270	7.307
FOORS LN	KY 3143	US 231	KY 298	0	2.958	3774	2017	030C00	0.0%	3770	3770	7.307
KY-144	KY 144	JONES ROAD/KY 1389	KY 142	4.966	16.2	3519	2017	030055	2.8%	3820	7620	20.844
KY-144	KY 144	JONES ROAD/KY 1389	KY 142	4.966	16.2	3519	2017	030055	2.8%	3820	7620	20.844
KY-144	KY 144	KY 142	KY 951	4.966	16.2	2724	2019	030008	3.1%	2810	6020	20.844
KY-144	KY 144	KY 142	KY 951	4.966	16.2	2724	2019	030008	3.1%	2810	6020	20.844
KY-279 SOUTH	KY 279	KY 56 DEPARTURE	US 60	7.016	7.415	549	2018	030752	0.1%	550	560	0
KY-279 SOUTH	KY 279	KY 56 DEPARTURE	US 60	7.415	13.071	549	2018	030752	0.1%	550	560	0
KY-279 SOUTH	KY 279	KY 56 DEPARTURE	US 60	7.415	13.071	549	2018	030752	0.1%	550	560	0
OLD HARTFORD RD	KY 298	KY 3143	KY 1432	7.042	10.181	6852	2016	030A27	0.1%	6880	7050	5.046
OLD HARTFORD RD	KY 298	KY 3143	KY 1432	7.042	10.181	6852	2016	030A27	0.1%	6880	7050	5.046
OLD HARTFORD RD	KY 298	KY 1456	KY 3143	5.261	7.042	447	2019	030298	1.8%	460	710	5.046
OLD HARTFORD RD	KY 298	KY 1456	KY 3143	5.261	7.042	447	2019	030298	1.8%	460	710	5.046
OLD HARTFORD RD	KY 298	KY 1456	KY 3143	5.261	7.042	447	2019	030298	1.8%	460	710	5.046
OLD HARTFORD RD	KY 298	US 231 DEPARTURE	KY 1456	5.261	7.042	905	2018	030300	1.7%	940	1430	0
OLD HARTFORD RD	KY 298	US 231 DEPARTURE	KY 1456	5.261	7.042	905	2018	030300	1.7%	940	1430	0
KY-405	KY 405	KY 144	KY 1831	0	6.729	4885	2017	030004	1.1%	5050	6640	0
KY-405	KY 405	KY 144	KY 1831	0	6.729	4885	2017	030004	1.1%	5050	6640	0
KY-405	KY 405	KY 144	KY 1831	0	6.729	4885	2017	030004	1.1%	5050	6640	0
KY-405	KY 405	KY 144	KY 1831	0	6.729	4885	2017	030004	1.1%	5050	6640	0
KY-405	KY 405	KY 1831	GRAVES LANE	0	6.729	2547	2018	030046	2.1%	2660	4460	0
KY-405	KY 405	GRAVES LANE	KY 662	0	6.729	1660	2018	030085	2.4%	1740	3150	0
KY-405	KY 405	GRAVES LANE	KY 662	0	6.729	1660	2018	030085	2.4%	1740	3150	0
KY-405												

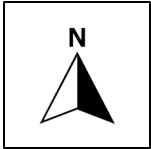
Route Description	Route #	Beginning Description	End Description	Begin MP	End MP	Last Count (ADT)	Last Count Year2	Last Count Station ID	Count Growth Rate	2020 AADT	2045 AADT	Truck %
US-60	US 60	US 231-ROCKPORT FERRY ROAD	KY 334	27.71	33.178	9169	2017	030001	1.0%	9450	12110	24
US-60	US 60	OAKFORD ROAD	KY 279	0	8.955	3429	2018	030763	0.0%	3430	3430	14.439
WENDELL FORD EXPY+US-60	US 60	I-165	KY 54	10.179	23.606	37427	2019	030032	0.3%	37540	40460	7.618
WENDELL FORD EXPY+US-60	US 60	I-165	KY 54	10.179	23.606	37427	2019	030032	0.3%	37540	40460	7.618
US-60	US 60	WRIGHTS LANDING ROAD	US 231-ROCKPORT FERRY ROAD	23.606	25.457	10042	2014	030049	0.0%	10040	10040	24
US-60	US 60	WRIGHTS LANDING ROAD	US 231-ROCKPORT FERRY ROAD	25.457	27.71	10042	2014	030049	0.0%	10040	10040	24
US-60	US 60	KY 603	KY 144	10.179	23.606	15619	2018	030662	0.3%	15710	16930	18.833
US-60	US 60	MURPHY ROAD-STEAMBOAT ROAD	OAKFORD ROAD	0	8.955	2003	2018	030800	0.0%	2000	2000	14.439
US-60	US 60	MURPHY ROAD-STEAMBOAT ROAD	OAKFORD ROAD	0	8.955	2003	2018	030800	0.0%	2000	2000	14.439
US-60	US 60	MURPHY ROAD-STEAMBOAT ROAD	OAKFORD ROAD	0	8.955	2003	2018	030800	0.0%	2000	2000	14.439
NEW HARTFORD RD	US 231	KY 298	KY 3143/VEACH ROAD	9.936	11.294	9208	2016	030253	0.0%	9210	9210	8.7
NEW HARTFORD RD	US 231	KY 298	KY 3143/VEACH ROAD	9.936	11.294	9208	2016	030253	0.0%	9210	9210	8.7
NEW HARTFORD RD	US 231	KY 298	KY 3143/VEACH ROAD	0	9.936	9208	2016	030253	0.0%	9210	9210	8.7
NEW HARTFORD RD	US 231	KY 298	KY 3143/VEACH ROAD	0	9.936	9208	2016	030253	0.0%	9210	9210	8.7
NEW HARTFORD RD	US 231	KY 298	KY 3143/VEACH ROAD	0	9.936	9208	2016	030253	0.0%	9210	9210	8.7
US-231	US 231	US 60 DEPARTURE	NW END OF W H NATCHER BRIDGE	11.294	14.851	8254	2018	030A99	0.5%	8340	9440	39.123
US-231	US 231	OHIO COUNTY LINE	KY 142	0	9.936	4402	2018	030317	0.2%	4420	4650	7.207
US-231	US 231	KY 142	KY 298	0	9.936	6700	2018	030305	0.3%	6740	7260	0
US-231	US 231	KY 142	KY 298	0	9.936	6700	2018	030305	0.3%	6740	7260	0
US-231	US 231	KY 142	KY 298	0	9.936	6700	2018	030305	0.3%	6740	7260	0
NEW HARTFORD RD	US 231	KY 3143/VEACH ROAD	KY 2155 JUNCTION	9.936	11.294	12002	2017	030A57	0.0%	12000	12000	8.7
NEW HARTFORD RD	US 231	KY 3143/VEACH ROAD	KY 2155 JUNCTION	9.936	11.294	12002	2017	030A57	0.0%	12000	12000	8.7
NEW HARTFORD RD	US 231	KY 3143/VEACH ROAD	KY 2155 JUNCTION	9.936	11.294	12002	2017	030A57	0.0%	12000	12000	8.7
US-431	US 431	KY 140	KY 298/SHARP ROAD	0	10.246	7266	2017	030526	0.1%	7290	7470	11.337
US-431	US 431	KY 140	KY 298/SHARP ROAD	0	10.246	7266	2017	030526	0.1%	7290	7470	11.337
FREDERICA ST	US 431	SOUTHTOWN BOULEVARD	KY 2831	10.246	11.389	23864	2018	030C09	0.0%	23860	23860	11.337
FREDERICA ST	US 431	SOUTHTOWN BOULEVARD	KY 2831	10.246	11.389	23864	2018	030C09	0.0%	23860	23860	11.337
US-431+FREDERICA ST	US 431	MARTIN LUTHER KING JR LOOP	SOUTHTOWN BOULEVARD	10.246	11.389	9831	2018	030E01	0.0%	9830	9830	11.337
US-431+FREDERICA ST	US 431	MARTIN LUTHER KING JR LOOP	SOUTHTOWN BOULEVARD	10.246	11.389	9831	2018	030E01	0.0%	9830	9830	11.337
US-431+FREDERICA ST	US 431	MARTIN LUTHER KING JR LOOP	SOUTHTOWN BOULEVARD	10.246	11.389	9831	2018	030E01	0.0%	9830	9830	11.337
US-431	US 431	KY 554	MARTIN LUTHER KING JR LOOP	0	10.246	10628	2019	030532	0.1%	10640	10910	5.657
US-431	US 431	KY 554	MARTIN LUTHER KING JR LOOP	0	10.246	10628	2019	030532	0.1%	10640	10910	5.657
US-431	US 431	KY 554	MARTIN LUTHER KING JR LOOP	0	10.246	10628	2019	030532	0.1%	10640	10910	5.657
US-431	US 431	KY 298/SHARP ROAD	KY 554	0	10.246	9274	2018	030507	0.1%	9290	9530	11.337

APPENDIX B

RED CORRIDOR

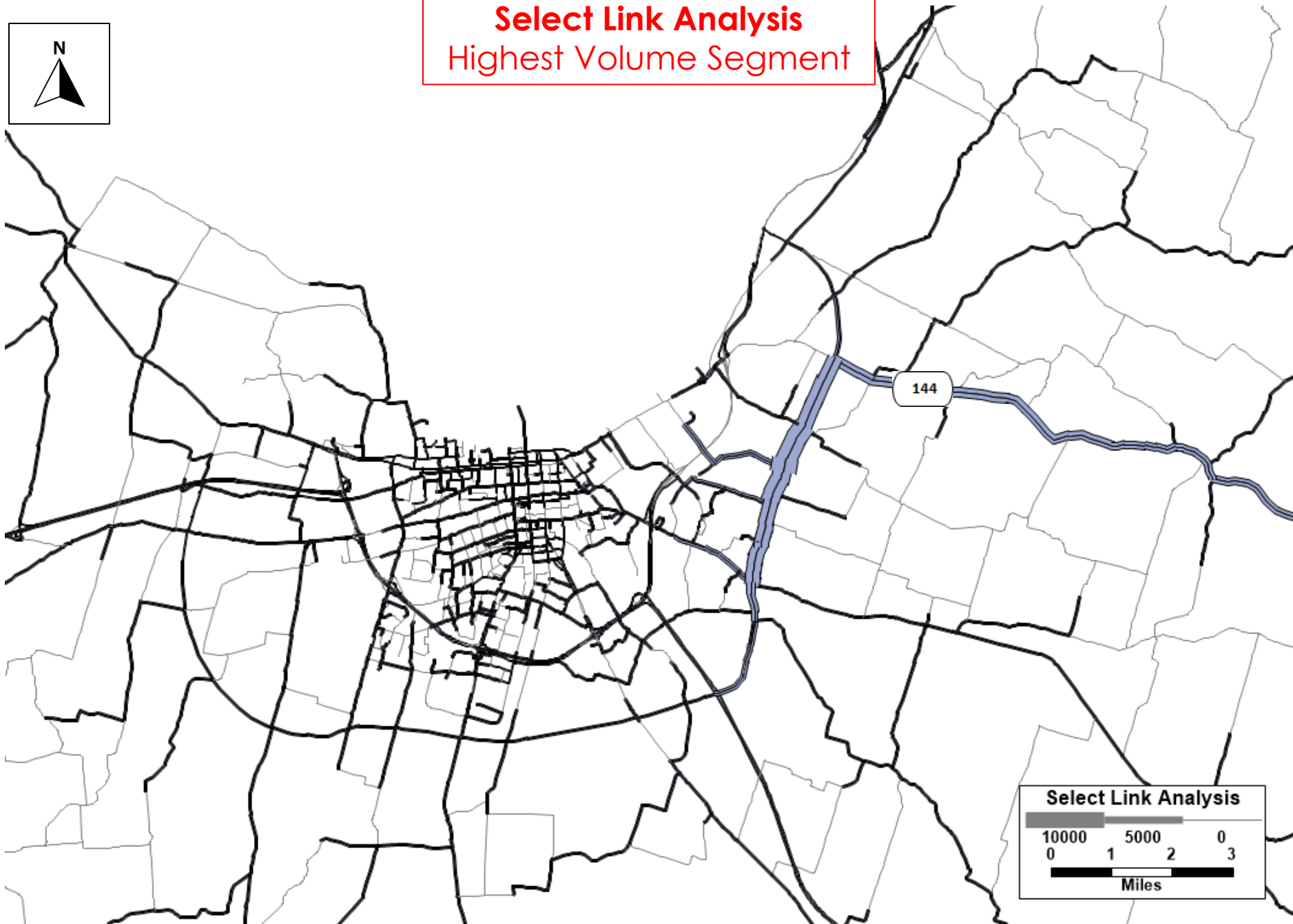
Red Corridor





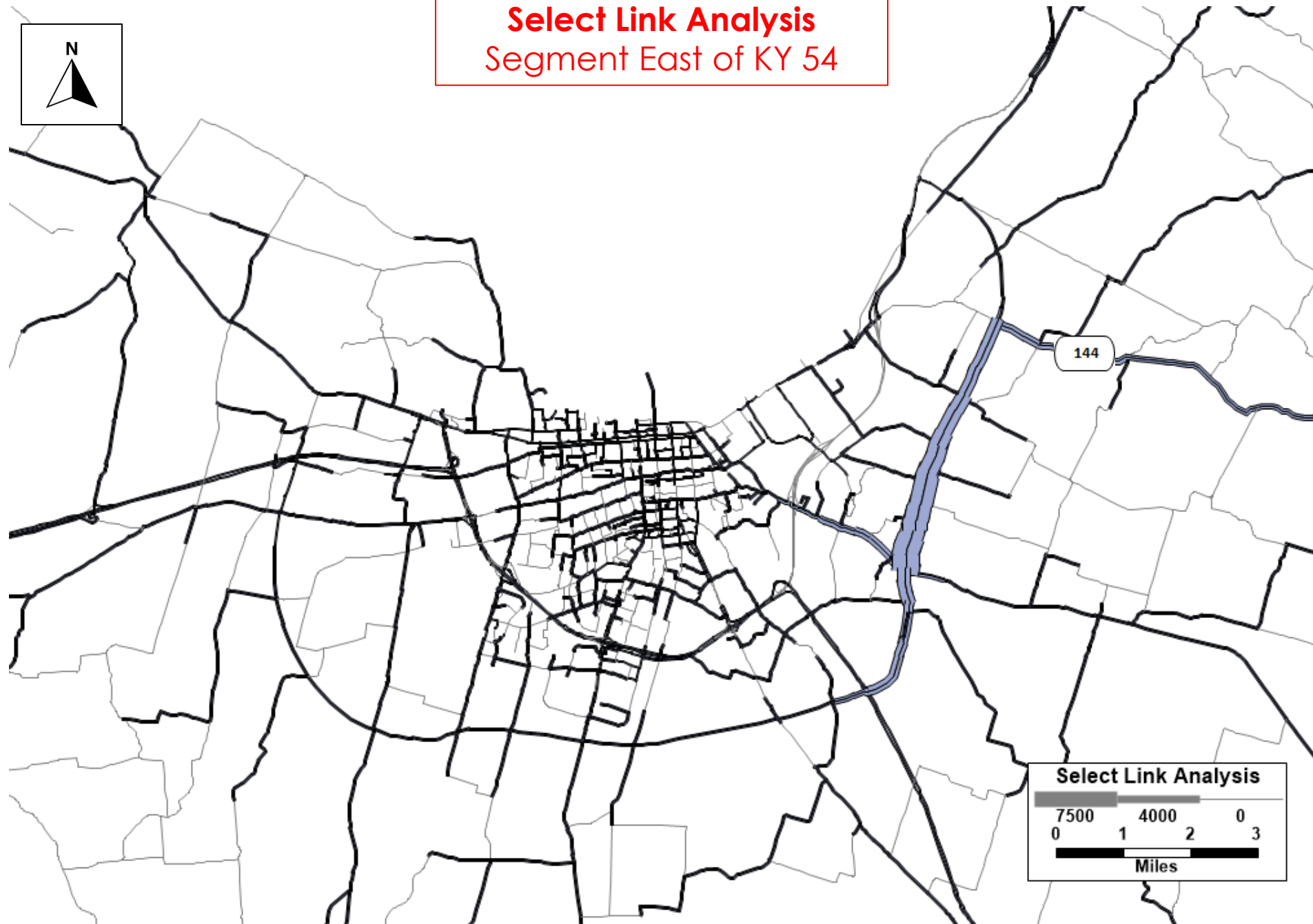
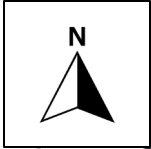
Select Link Analysis

Highest Volume Segment



Select Link Analysis

Segment East of KY 54

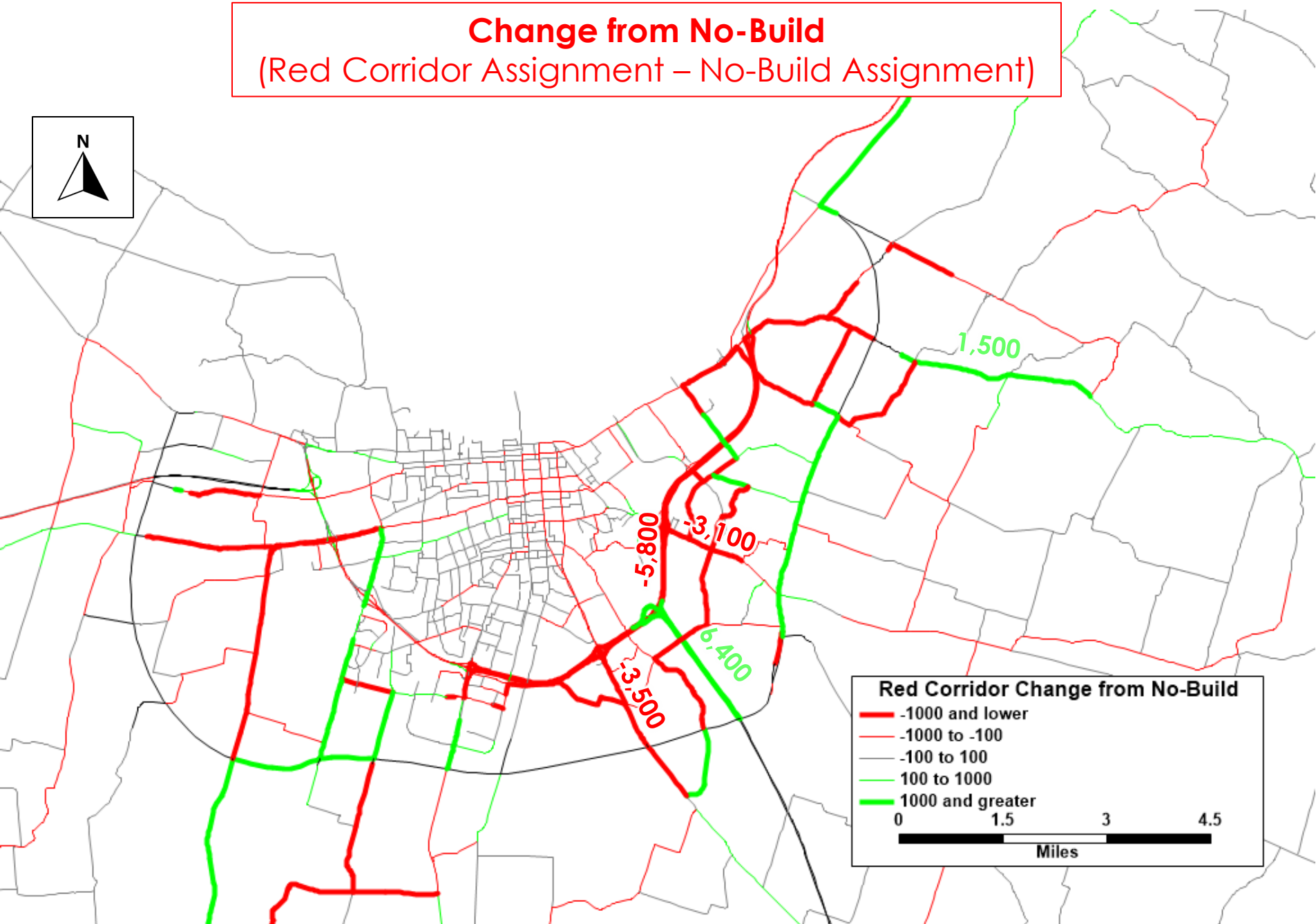
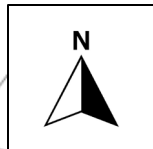


Select Link Analysis

7500 4000 0
0 1 2 3

Miles

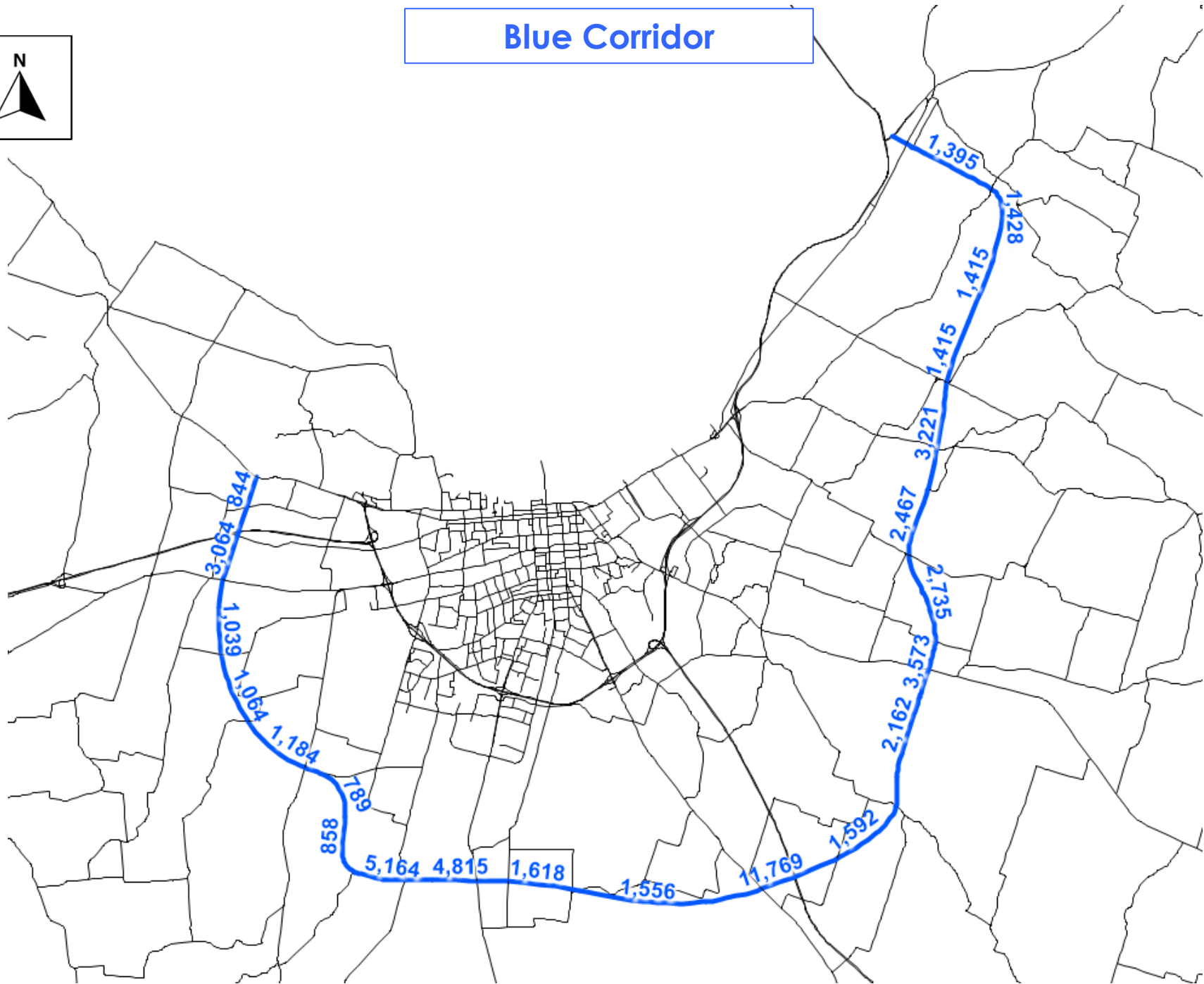
Change from No-Build (Red Corridor Assignment – No-Build Assignment)



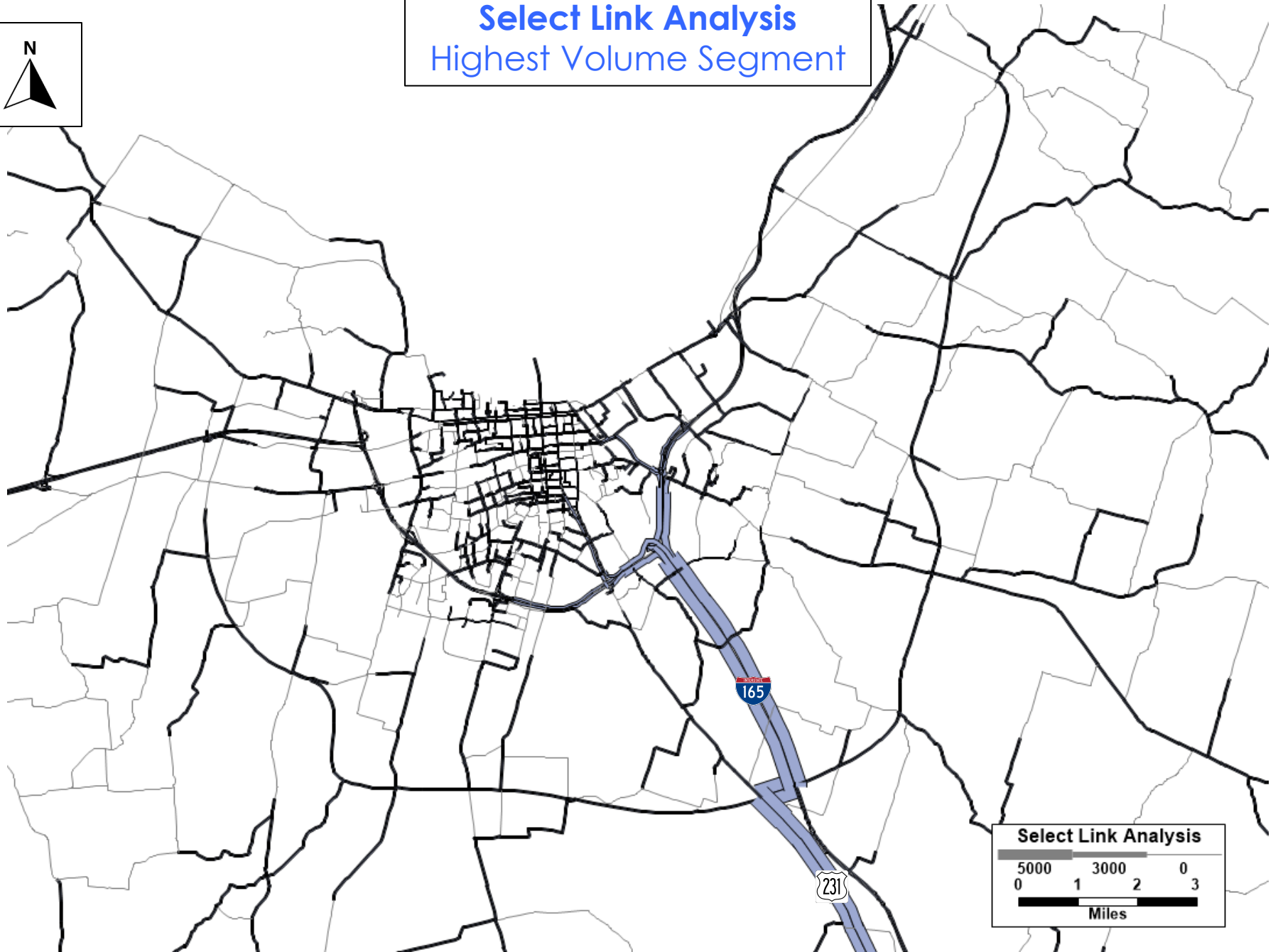
BLUE CORRIDOR



Blue Corridor



Select Link Analysis Highest Volume Segment

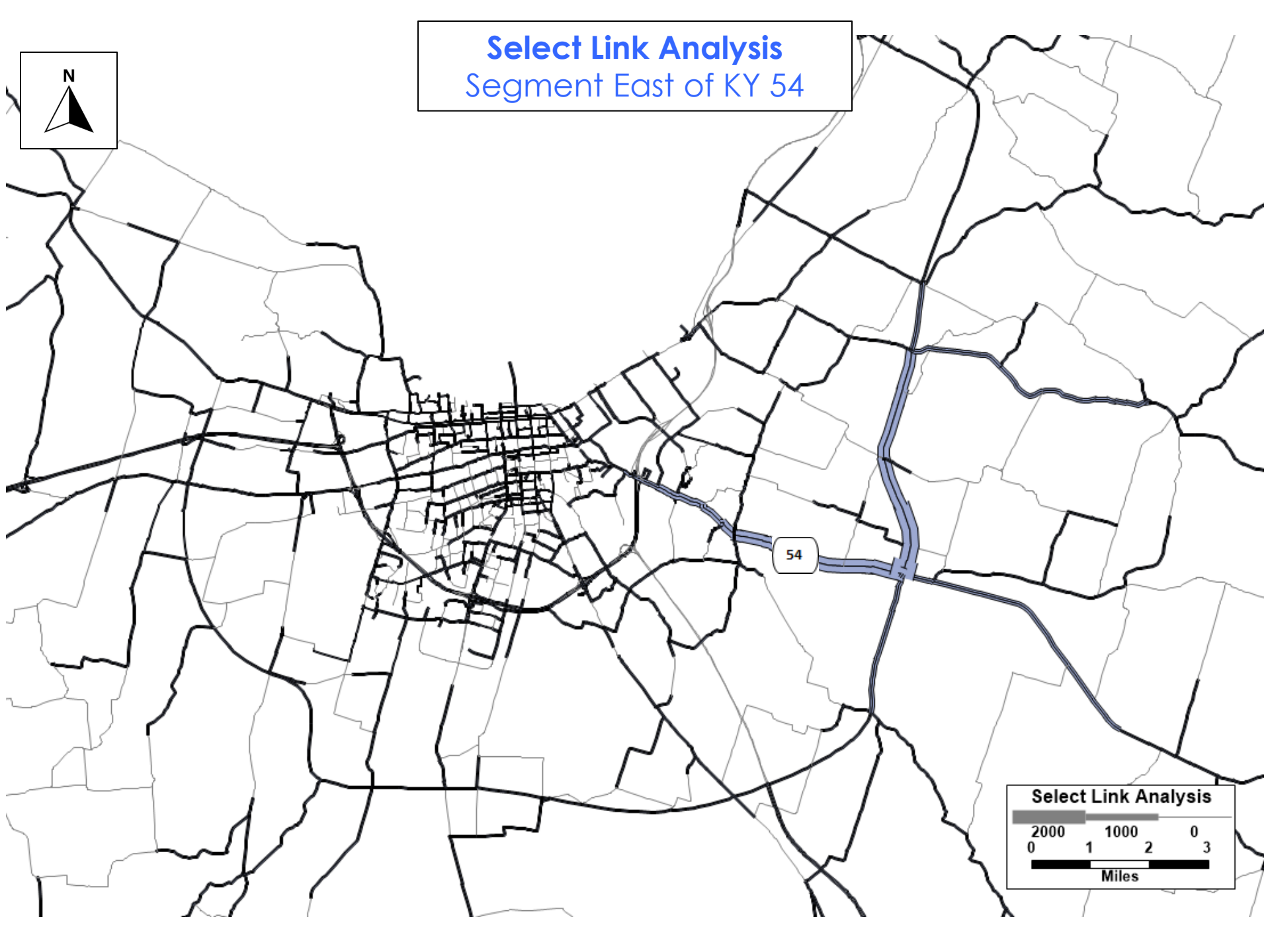


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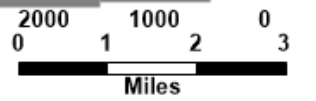


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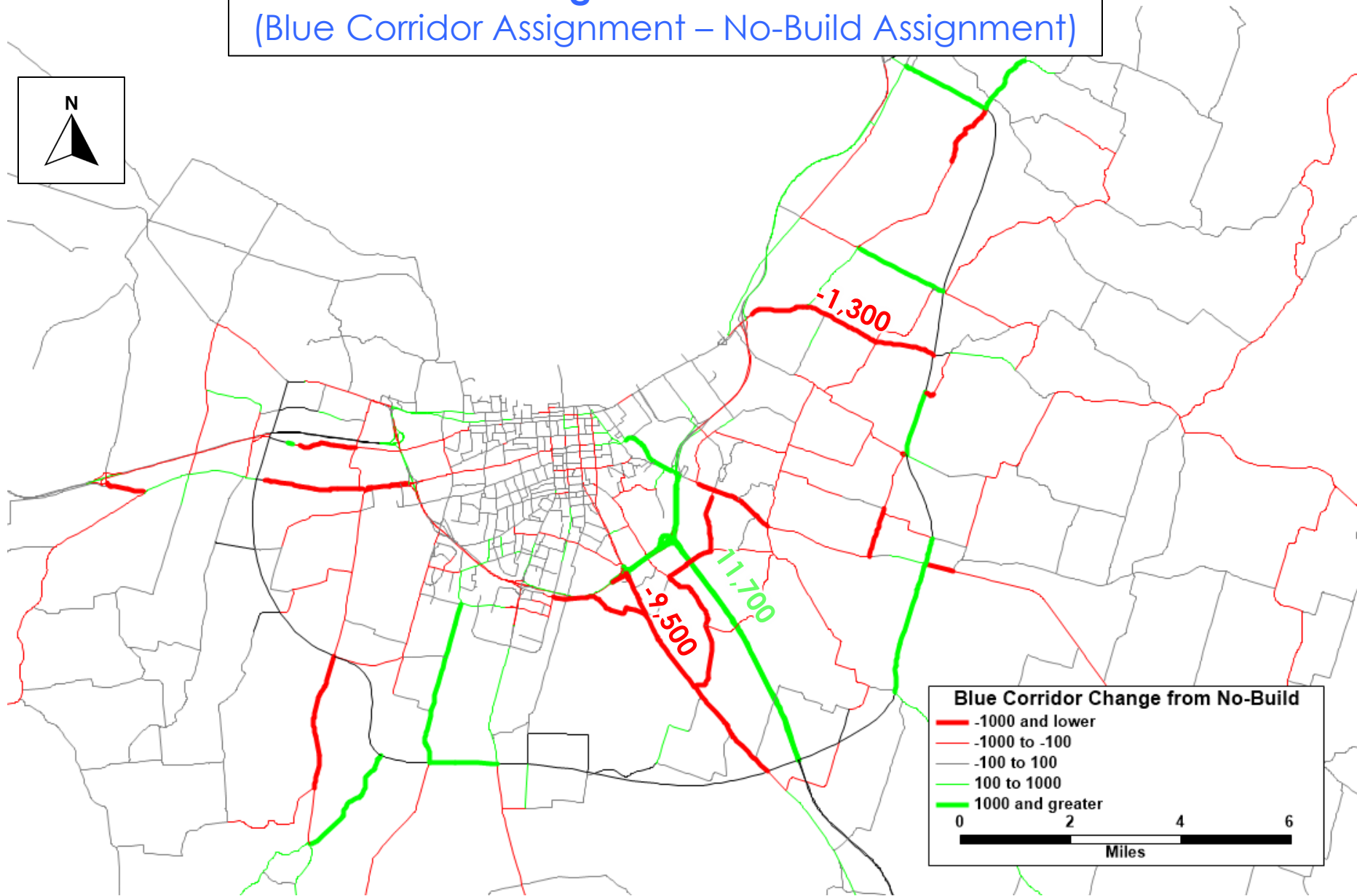
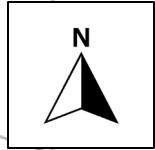
Segment East of KY 54



Select Link Analysis



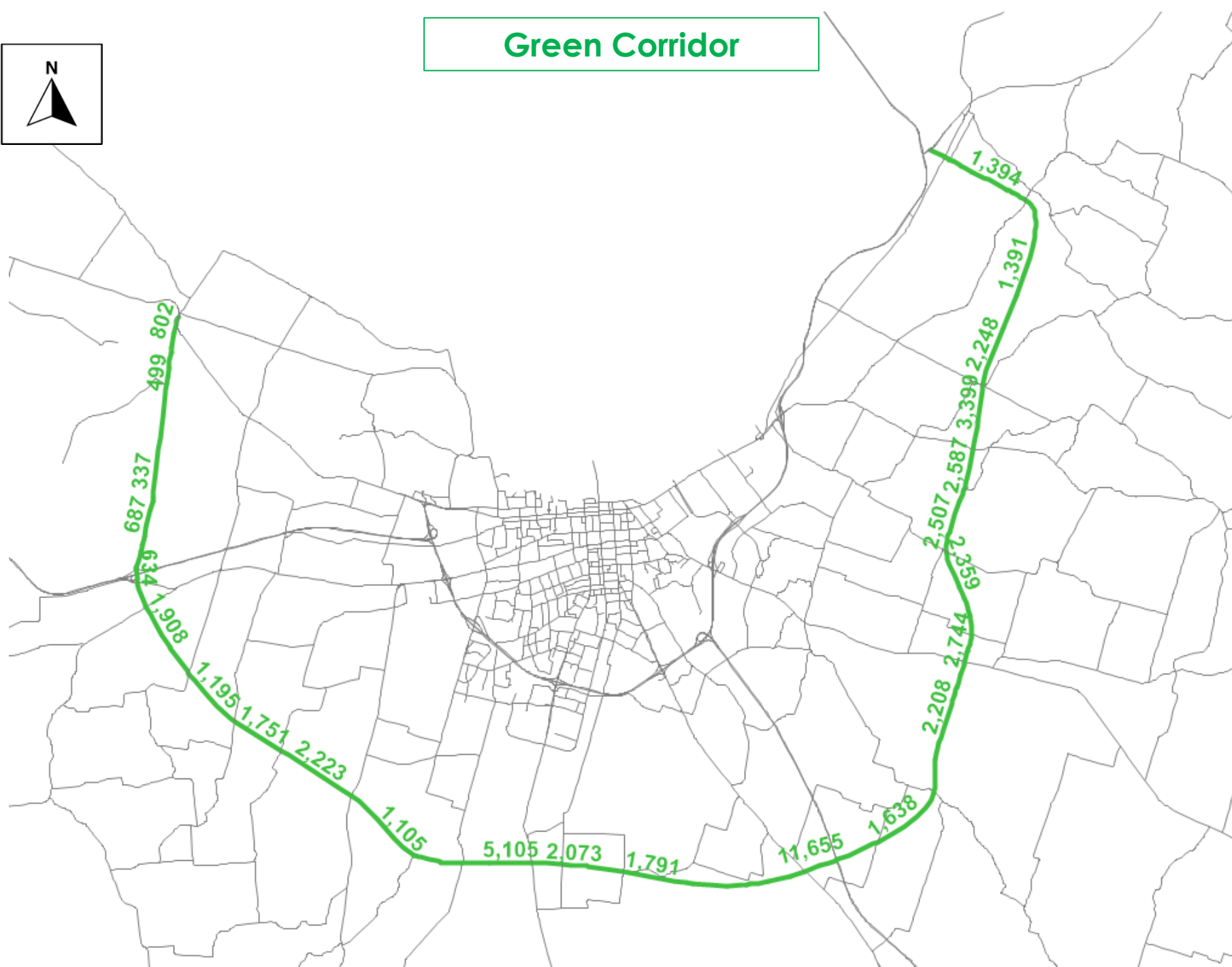
Change from No-Build (Blue Corridor Assignment – No-Build Assignment)



GREEN CORRIDOR

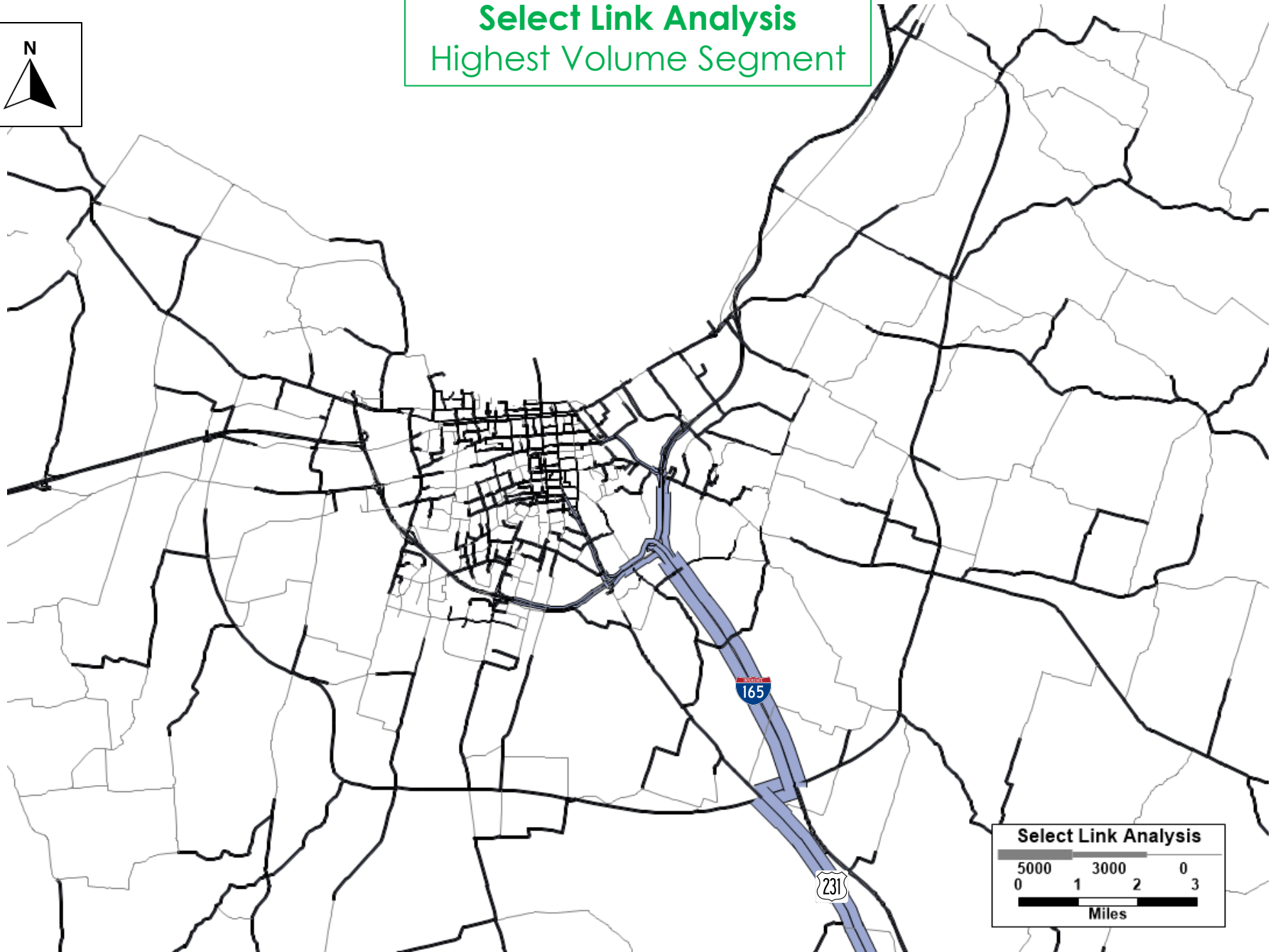


Green Corridor



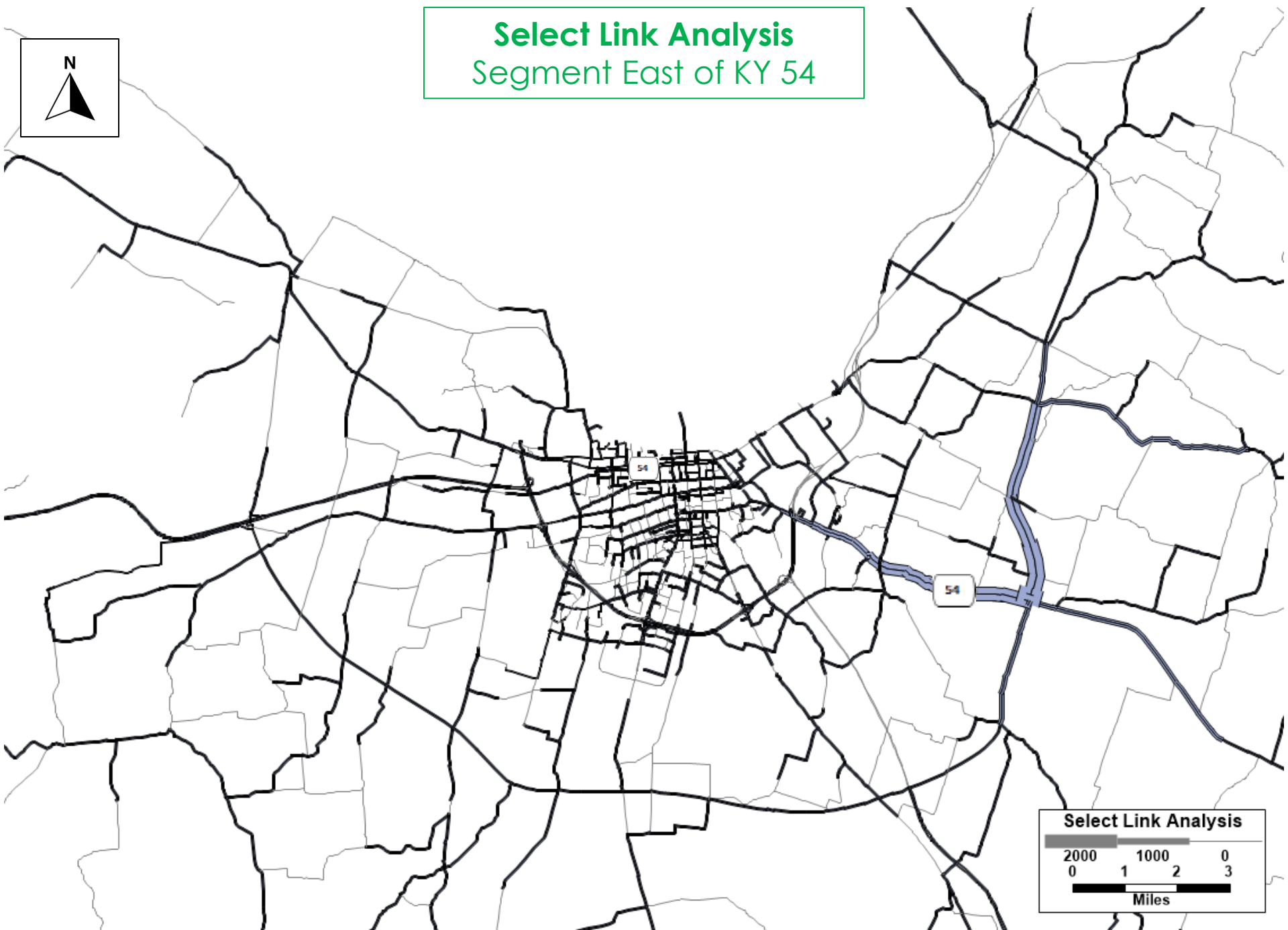
Select Link Analysis

Highest Volume Segment



Select Link Analysis

Segment East of KY 54



Select Link Analysis

2000 1000 0
0 1 2 3
Miles

Change from No-Build (Green Corridor Assignment – No-Build Assignment)

