



## TRANSPORTATION CABINET

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Frankfort, Kentucky 40622  
[www.kentucky.gov](http://www.kentucky.gov)

**Bill Nighbert**  
Acting Secretary

**Marc Williams**  
Commissioner of Highways

September 29, 2005

«Mailing\_Title» «First\_Name» «Last\_Name»«Suffix»  
«Title»  
«Organization»  
«Address1»  
«Address2»  
«City» «State» «Zip»

Dear «Letter\_Title» «Last\_Name»:

Subject: Planning Study  
Boone and Kenton Counties  
Mary Grubbs Highway Extension

We are requesting your agency's input and comments on a planning study to determine the need and potential impacts for a proposed highway project. The Kentucky Transportation Cabinet has assembled a study team to evaluate the proposed extension of the Mary Grubbs Highway (KY 14) in Boone County. The proposed route would extend from the Mary Grubbs Highway to the KY 16/ KY 17 intersection near Nicholson in Kenton County. The study is currently in the initial data-gathering stage.

We ask that you identify specific issues or concerns of your agency that could affect the development of the project. This planning study will include a scoping process for the early identification of potential alternatives, environmental issues, and impacts related to the proposed project. We believe that early identification of issues or concerns can help us develop highway project alternatives to avoid or minimize negative impacts.

We respectfully ask that you provide us with your comments by November 1, 2005, to ensure timely progress in this planning effort.

During the development of this planning study, comments will be solicited from federal, state, and local agencies, as well as other interested persons and the general public, in accordance with principles set forth in the National Environmental Policy Act (NEPA) of 1969. The Federal Highway Administration is partnering with us in these efforts.

«Mailing\_Title» «First\_Name» «Last\_Name»«Suffix»

Page 2

September 29, 2005

Other Transportation Cabinet offices or consultants working on behalf of the Transportation Cabinet may also contact you seeking more detailed data or information to assist them in completing their environmental studies for this phase of the project.

We have enclosed the following project information for your review and comment:

- A draft statement of Study Purpose and Project Goals
- Project Location Map
- Year 2005 Traffic and Level of Service
- Year 2030 Traffic and Level of Service
- Crash Information
- Topographic Environmental Footprint showing possible corridors

We appreciate any input you can provide concerning this project. Please direct any comments, questions, or requests for additional information to Joe Tucker of the Division of Planning at (502) 564-7183 or at [joseph.tucker@ky.gov](mailto:joseph.tucker@ky.gov). Please address all written correspondence to Annette Coffey, P.E., Director, Division of Planning, Kentucky Transportation Cabinet, 200 Mero Street, Mail Code W5-05-01, Frankfort, KY 40622.

Sincerely,



Annette Coffey, P.E.  
Director  
Division of Planning

AC/JLT/NH

Enclosures

c: Anthony Goodman (w/enc)  
Michael Loyselle (w/enc)  
Tom Schomaker  
Jim Brannon (w/enc)  
Mike Bezold  
Brad Eldridge  
Dave Harmon

# **STUDY PURPOSE, ISSUES, AND PROJECT GOALS**

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## **MARY GRUBBS HIGHWAY EXTENSION BOONE AND KENTON COUNTIES**

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### **STUDY PURPOSE**

The purpose of the Mary Grubbs Highway Extension Scoping Study is to identify and evaluate potential corridors for construction of a new route from Walton to Nicholson. The study is intended to help define the location and purpose of the project and better meet Federal requirements regarding consideration of environmental issues, as defined in the National Environmental Policy Act (NEPA). Items involved with this study include:

- Discuss project needs and issues with the Project Team,
- Define project goals, needs, and issues,
- Define the beginning and ending points of the project corridor,
- Identify any known environmental concerns, and
- Identify and evaluate alternate corridors.

### **ISSUES**

Major issues and concerns have been identified within the study area that will be addressed in the Scoping Study. These include:

- Lack of adequate east-west connectors in Kenton County;
- Currently, no good alternatives to I-75 in the event of a shutdown.
- A combination of the rapid growth of Northern Kentucky expanding farther south and a desire to improve economic opportunities in Boone and Kenton Counties, and
- Poor geometrics, including narrow lane widths, narrow shoulders, substandard horizontal/vertical alignments, poor sight distance (no passing lanes).

### **DRAFT PROJECT GOALS**

For the Mary Grubbs Highway Extension project, several goals and objectives were identified. These include:

- Improve east-west connectivity and access between KY 17 and I-75 in southern Kenton County,
- Provide an alternative route during incidents or closures on I-75,
- Address highway capacity and growth needs in southern Kenton County, and
- Improve safety by providing an improved route that complies with current design standards.

### **CONTACTS**

Address written comments to:

Annette Coffey, P.E.  
Director  
Kentucky Transportation Cabinet  
Division of Planning  
Station W5-05-01  
200 Mero Street  
Frankfort, KY 40622

Or, you may contact by phone or e-mail:

Joe Tucker  
Project Engineer  
Kentucky Transportation Cabinet  
Division of Planning  
(502) 564-7118  
[joseph.tucker@ky.gov](mailto:joseph.tucker@ky.gov)

Visit our web page at: <http://www.transportation.ky.gov/planning/index2.asp>

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## TRANSPORTATION CABINET

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**Dan Druen**  
Commissioner of  
Administrative Services

**Paul Steely**  
Commissioner of Aviation

**Roy Mundy**  
Commissioner of  
Vehicle Regulation

**TO:** Bruce Siria  
Division of Planning

**ATTN:** Joe Tucker

**FROM:** Lynn Soporowski *LJS*  
Division of Planning

**DATE:** October 18, 2005

**SUBJECT:** Boone and Kenton Counties Traffic Forecasts  
Mary Grubbs Extension Study

This is to supplement our August 12, 2005 traffic forecasts on the subject project study. We are providing ADTs, and DHVs for Alternatives 1, 2 and 3 in the attached report.

If you have any questions, please call Scott Thomson or Kong Ee.

LJS:ST:KE  
Attachment  
c: Kong Ee w/attachment  
Bob Koehler w/attachment: OKI

# **Boone and Kenton Counties Traffic Forecasts Mary Grubbs Extension Study**



**Division of Planning**

## **Table of Contents**

**Executive Summary**

**Vicinity Map**

**Traffic Forecast Summary**

# Executive Summary

## Volumes

### Current Year (2005) Volumes

The current year volumes for this forecast were taken from recent counts from the CTS program.

### Future Year (2030) Volumes

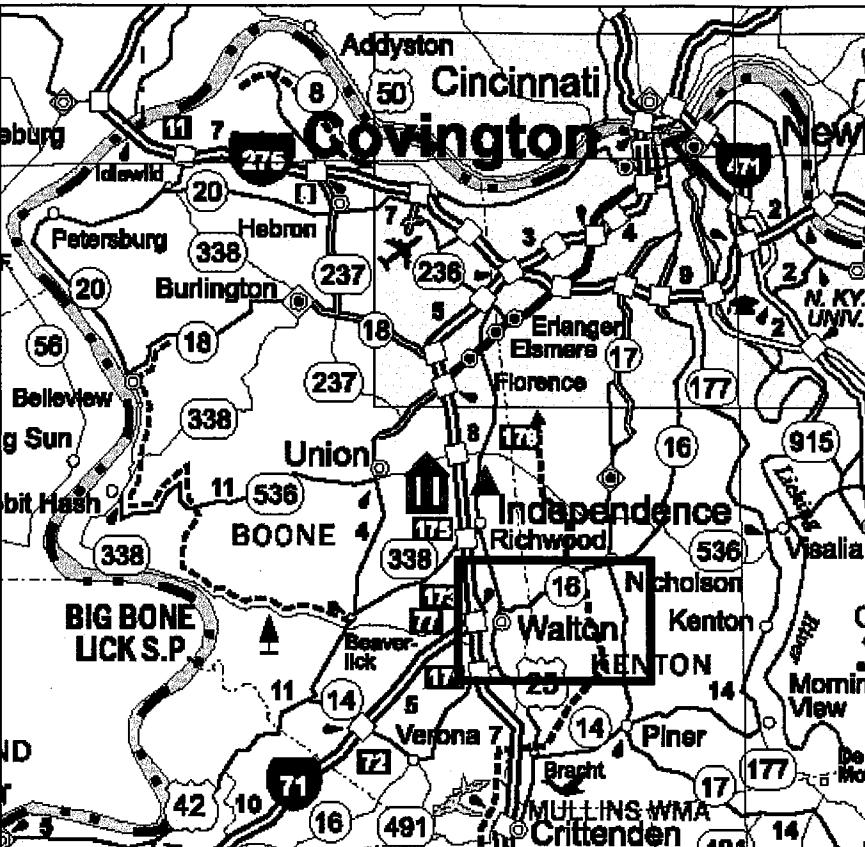
The future year volumes were computed from various growth rates projected by the OKI models.

## K Factor

An average K Factor Used = 11%

K Factors were computed and averaged from the PTR reports in the traffic forecast vicinity area.

**Boone and Kenton Counties  
Mary Grubbs Extension  
Vicinity Map**

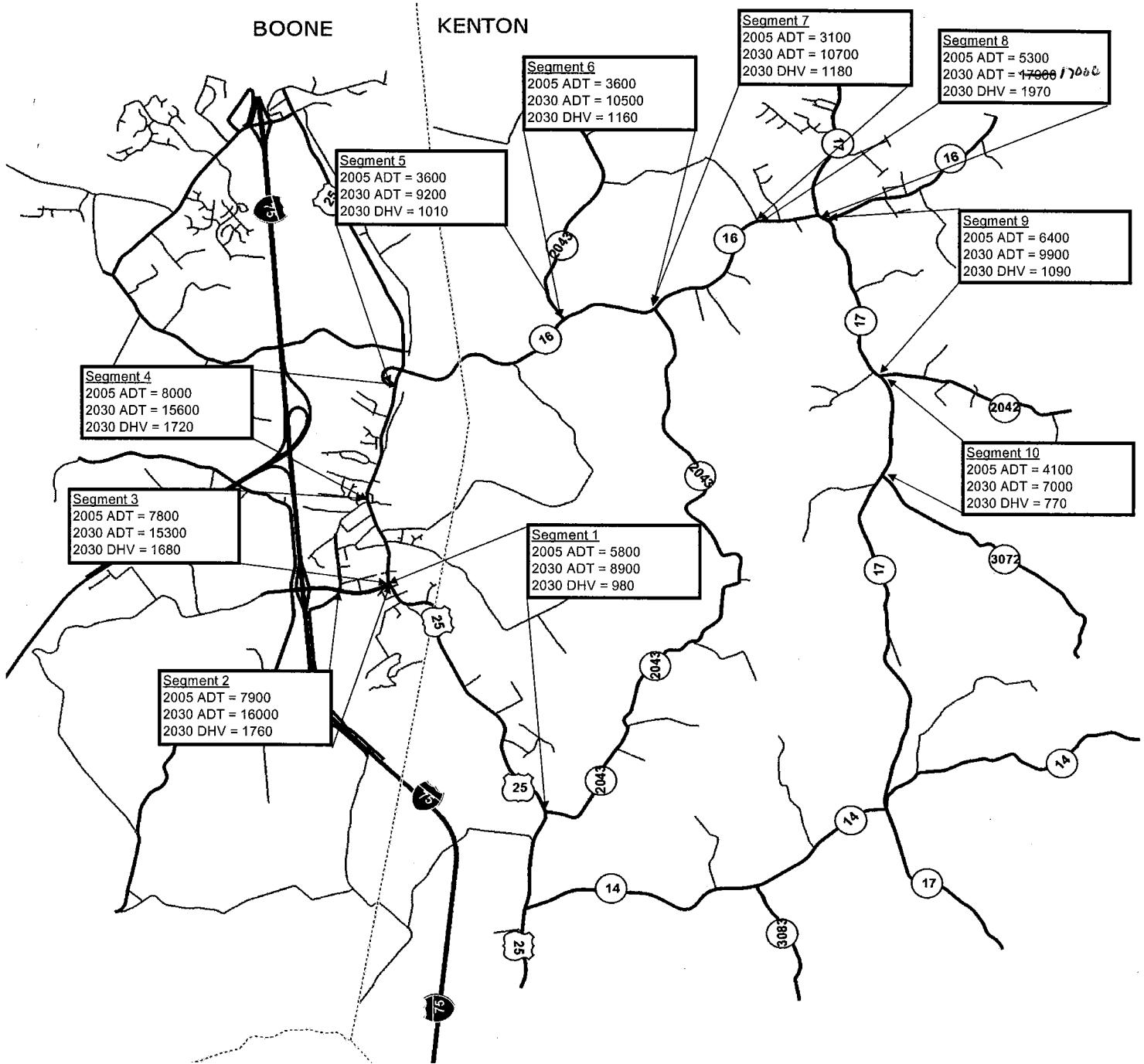


# Traffic Forecast Summary

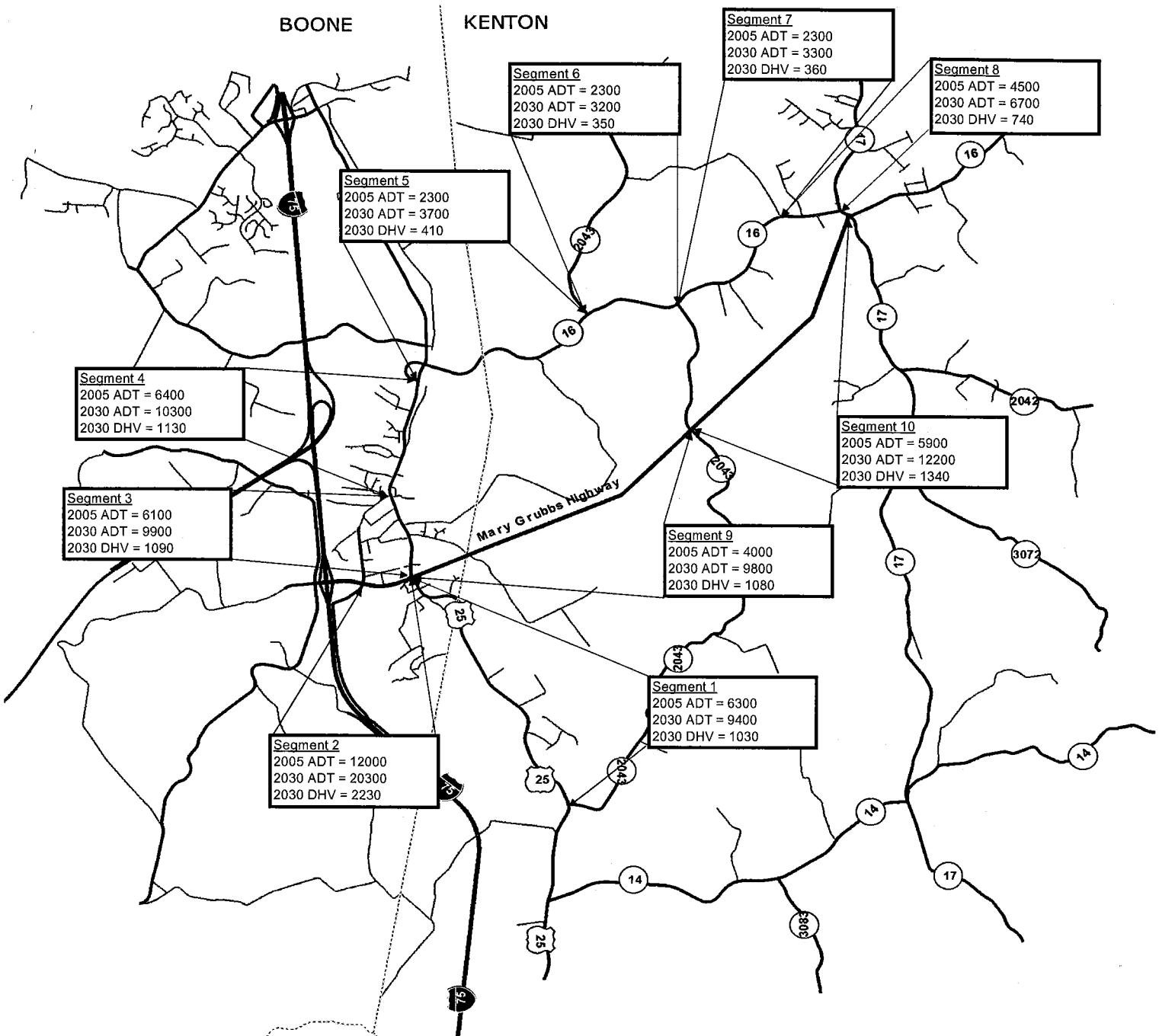
## Boone and Kenton Counties

### Mary Grubbs Extension

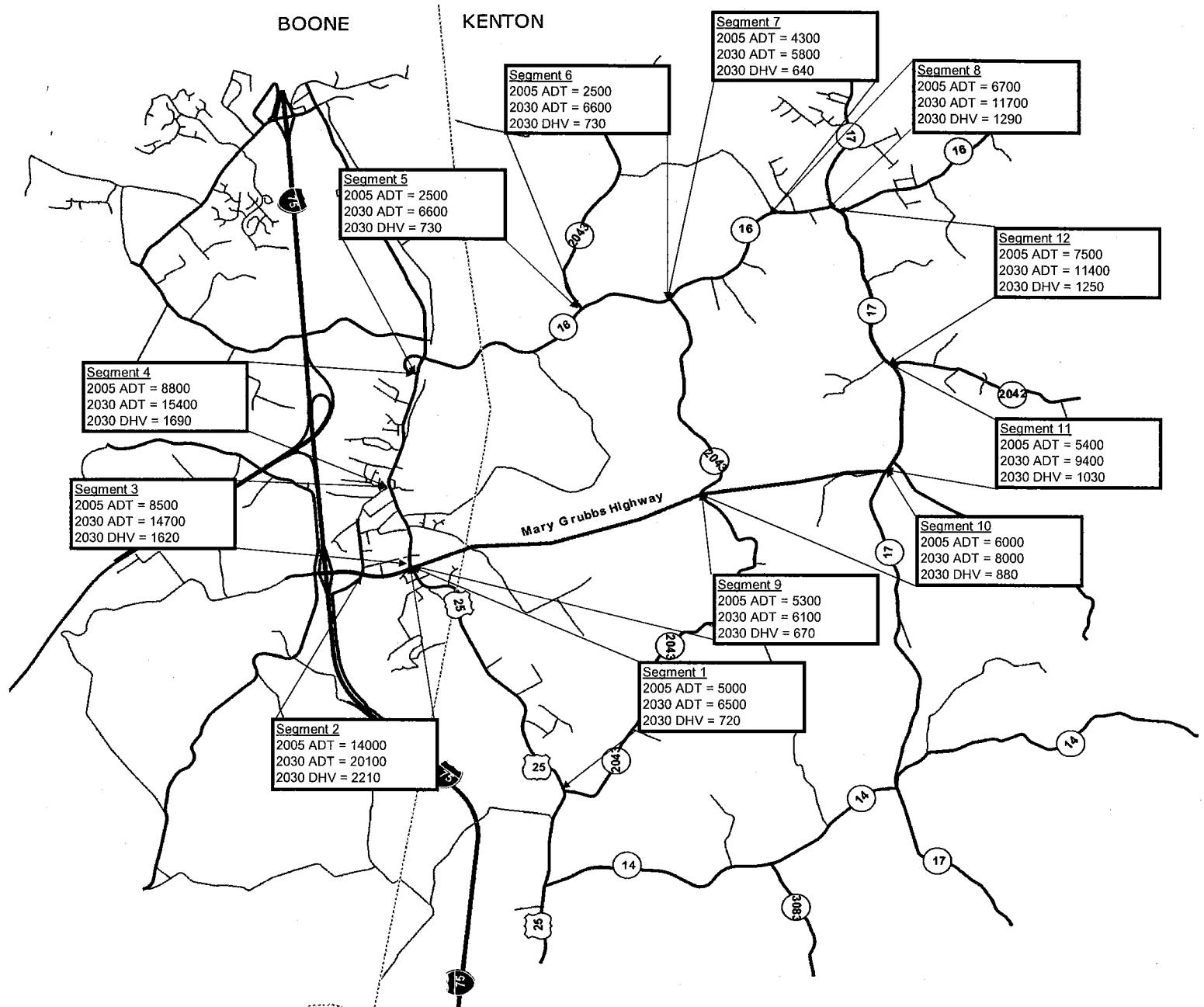
#### No Build



**Traffic Forecast Summary**  
**Boone and Kenton Counties**  
**Mary Grubbs Extension**  
**Alternative 1**

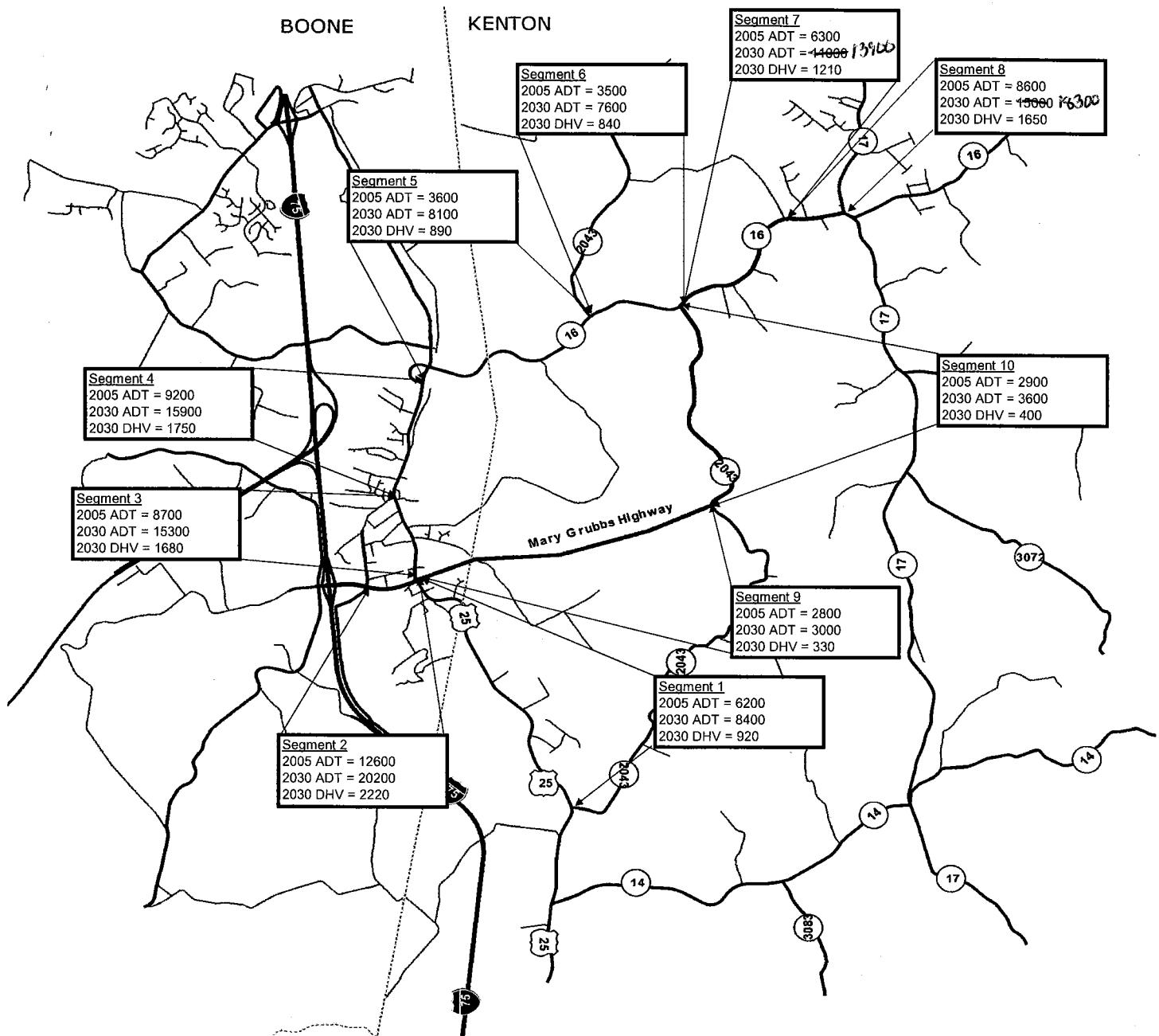


# Traffic Forecast Summary Boone and Kenton Counties Mary Grubbs Extension Alternative 2



**Traffic Forecast Summary**  
**Boone and Kenton Counties**  
**Mary Grubbs Extension**  
**Alternative 3**

K = 117.





DIV OF PLANNING

2005 OCT -3 A 11:46

**Ohio • Kentucky • Indiana**  
Regional Council of Governments

September 30, 2005

Ms. Annette Coffey, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, MC 5-1  
Frankfort, Kentucky 40622

**RE: Mary Grubbs Highway Traffic Forecast**

Dear Ms. Coffey:

Attached are traffic forecasts for the three alternatives for the extension of Mary Grubbs Highway in Boone and Kenton counties as requested in your letter dated August 29, 2005. The figures represent daily volumes for 2005 no-build, 2005 build, 2030 no-build and 2030 build scenarios. The forecasts were developed through application of the OKI Travel Demand Model version 6.3.

If you have any questions please feel free contact me.

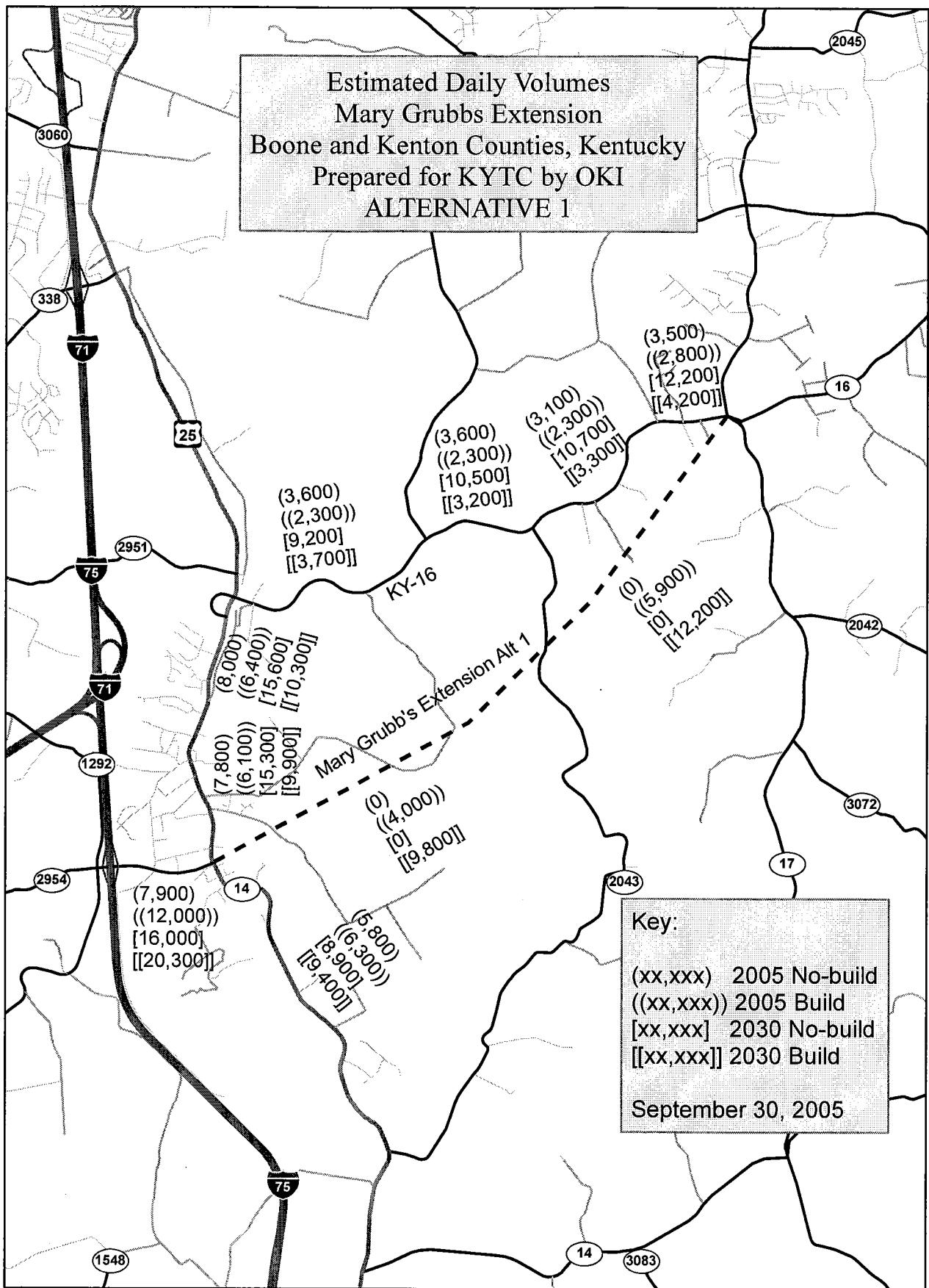
Sincerely,

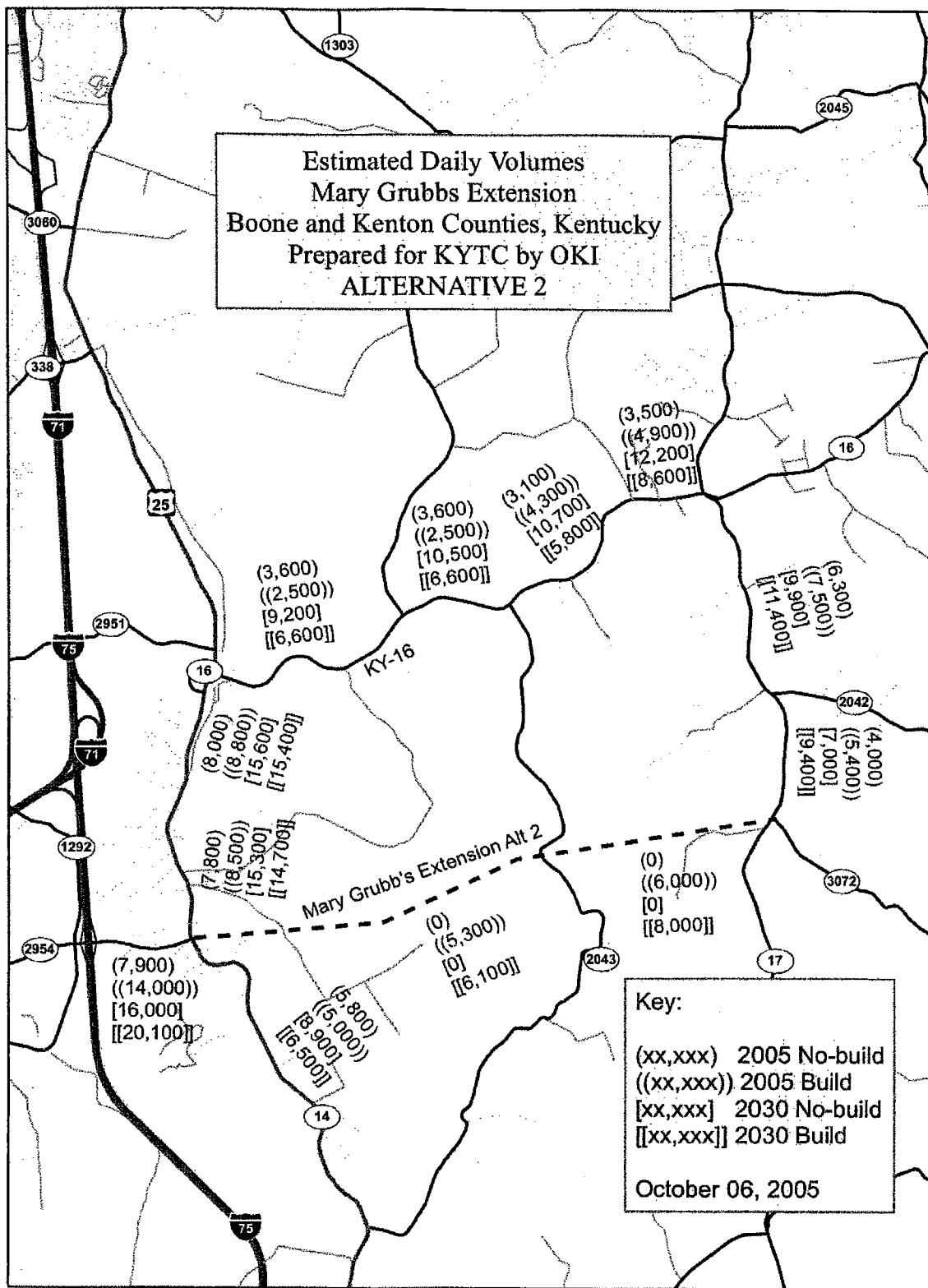
Robert W. Koehler, P.E.  
Director of Transportation Planning

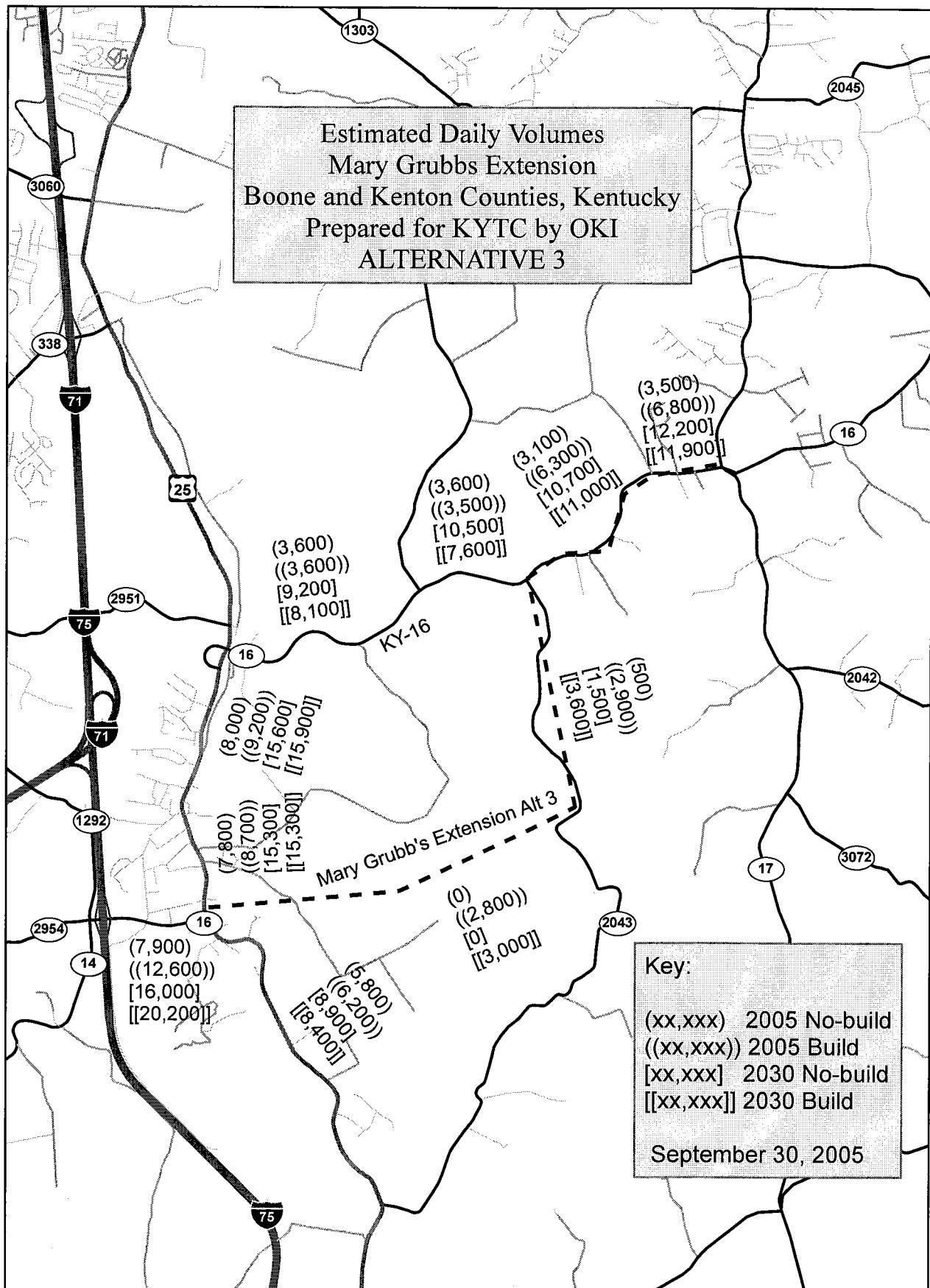
RWK/rmb  
Enclosures

Gary W. Moore  
President

Mark R. Policinski  
Executive Director









DIV OF PLANNING

2005 MAY 26 A 10:44

**Ohio • Kentucky • Indiana**  
Regional Council of Governments

May 25, 2005

Ms. Annette Coffey, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, MC 5-1  
Frankfort, Kentucky 40622

**RE: Mary Grubbs Highway Traffic  
Forecast**

Dear Ms. Coffey:

Attached are traffic forecasts for the Mary Grubbs Highway in Boone and Kenton counties as requested in your letter dated May 16, 2005. The figures represent daily volumes for 2005 no-build, 2005 build, 2030 no-build and 2030 build scenarios. The forecasts were developed through application of the OKI Travel Demand Model version 6.3. Also included are Traffic Analysis Zone (TAZ) employment and household information for your reference. If you have any questions please feel contact me.

Sincerely,

Robert W. Koehler, P.E.  
Director of Transportation Planning

RWK/rmb  
Enclosures

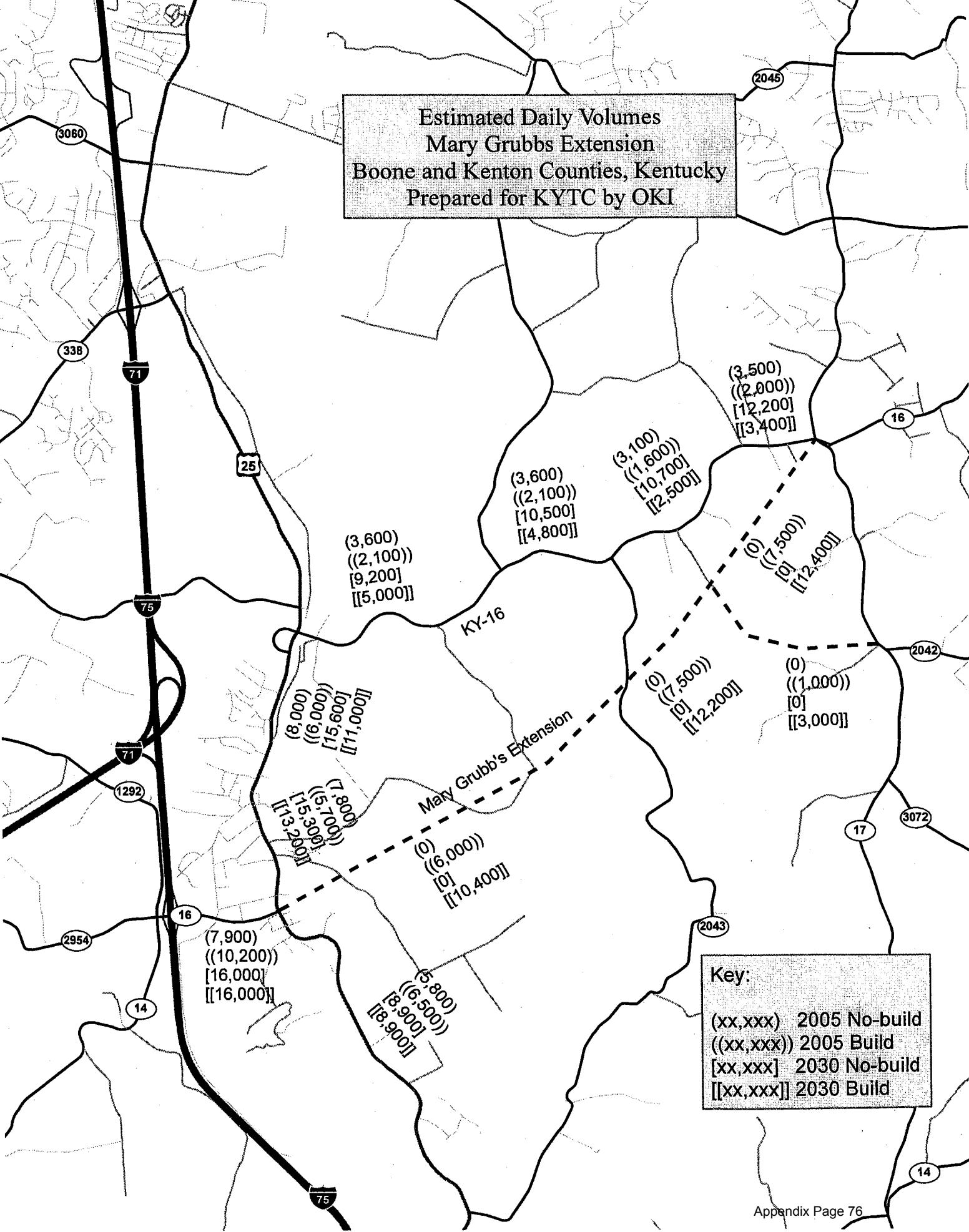
*Gary W. Moore*  
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*Mark R. Policinski*  
Executive Director

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*Serving the Counties of: Boone • Butler • Campbell • Clermont • Dearborn • Hamilton • Kenton • Warren*

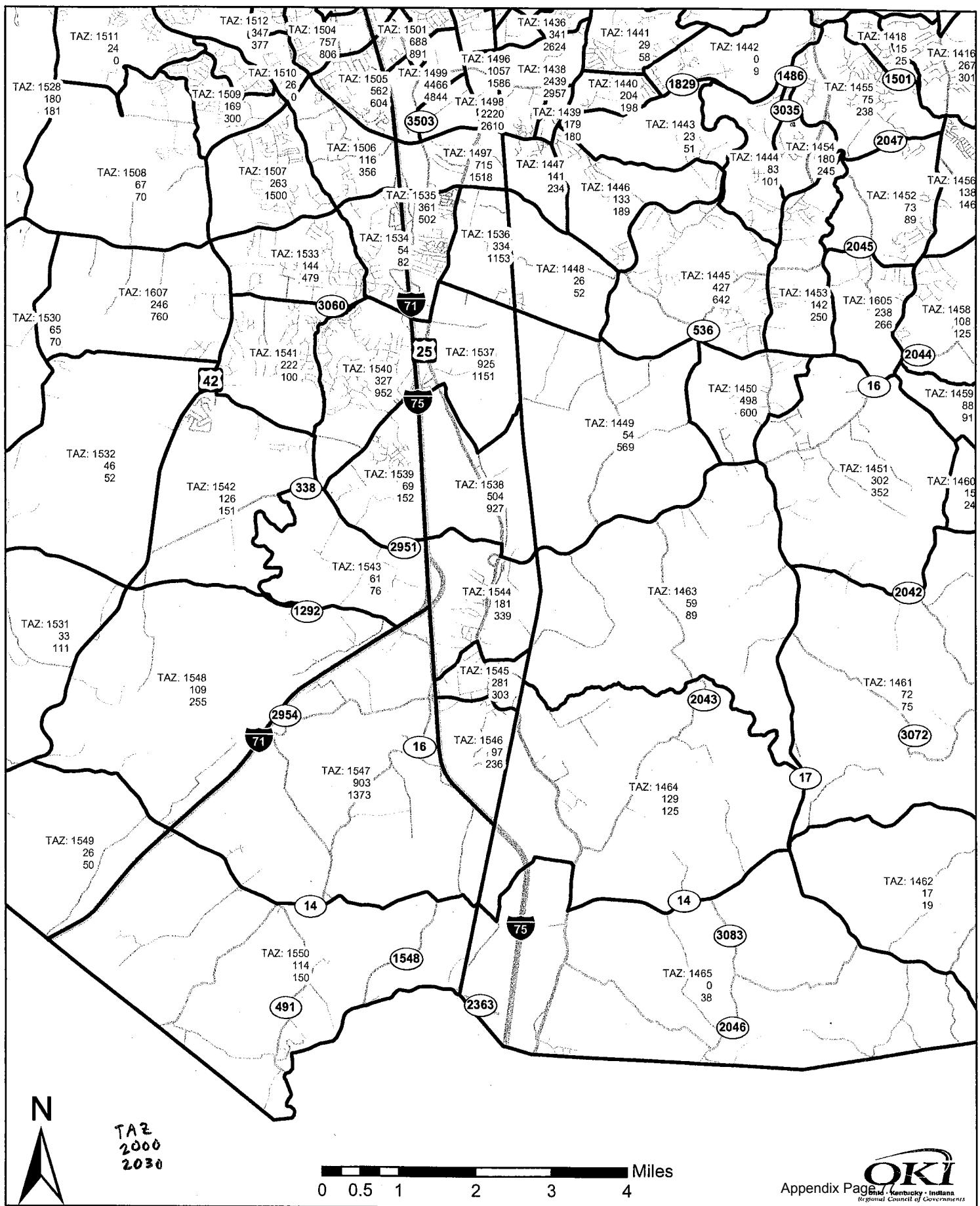
**Estimated Daily Volumes**  
**Mary Grubbs Extension**  
**Boone and Kenton Counties, Kentucky**  
**Prepared for KYTC by OKI**



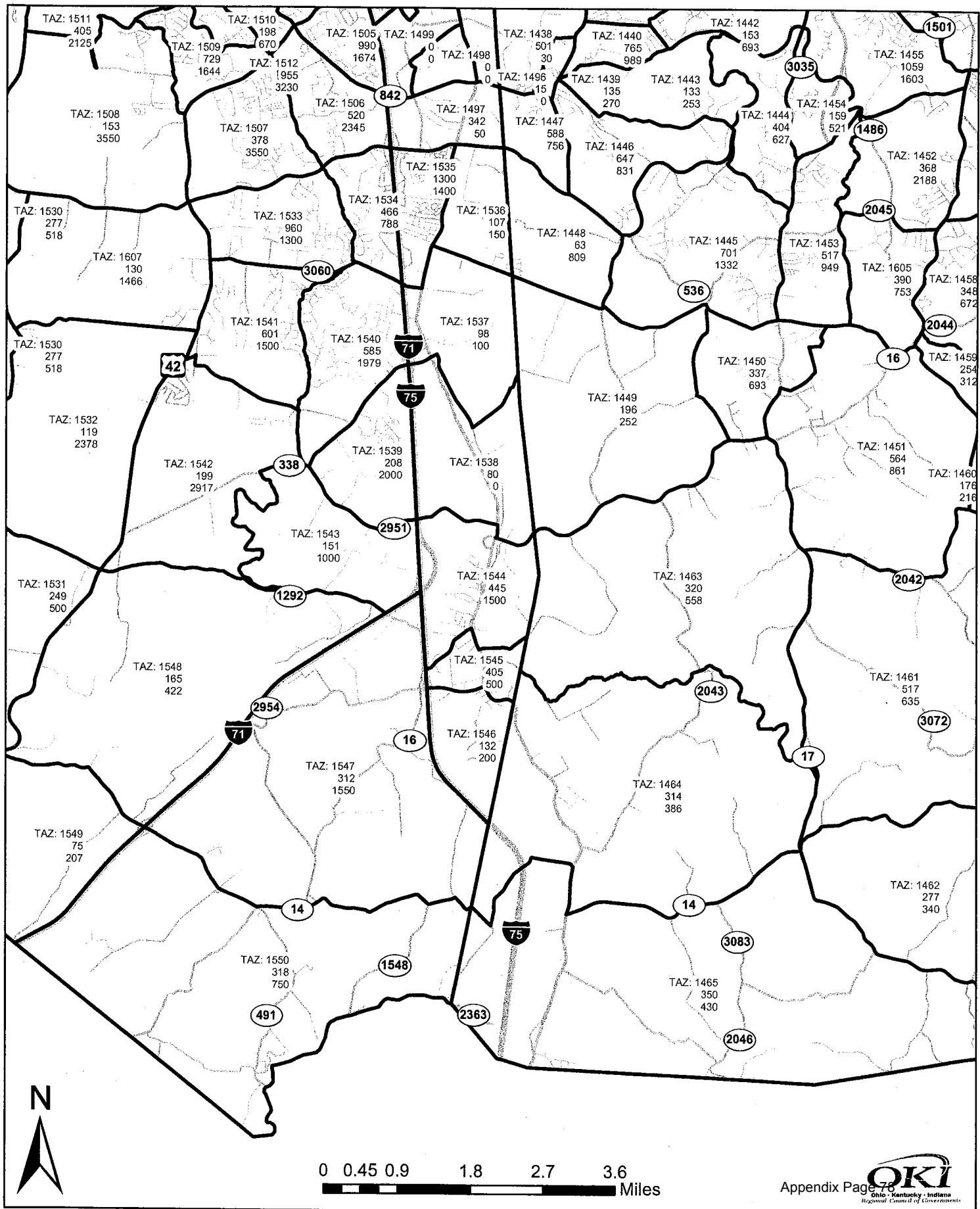
**Key:**

- (xx,xxx) 2005 No-build
- ((xx,xxx)) 2005 Build
- [xx,xxx] 2030 No-build
- [[xx,xxx]] 2030 Build

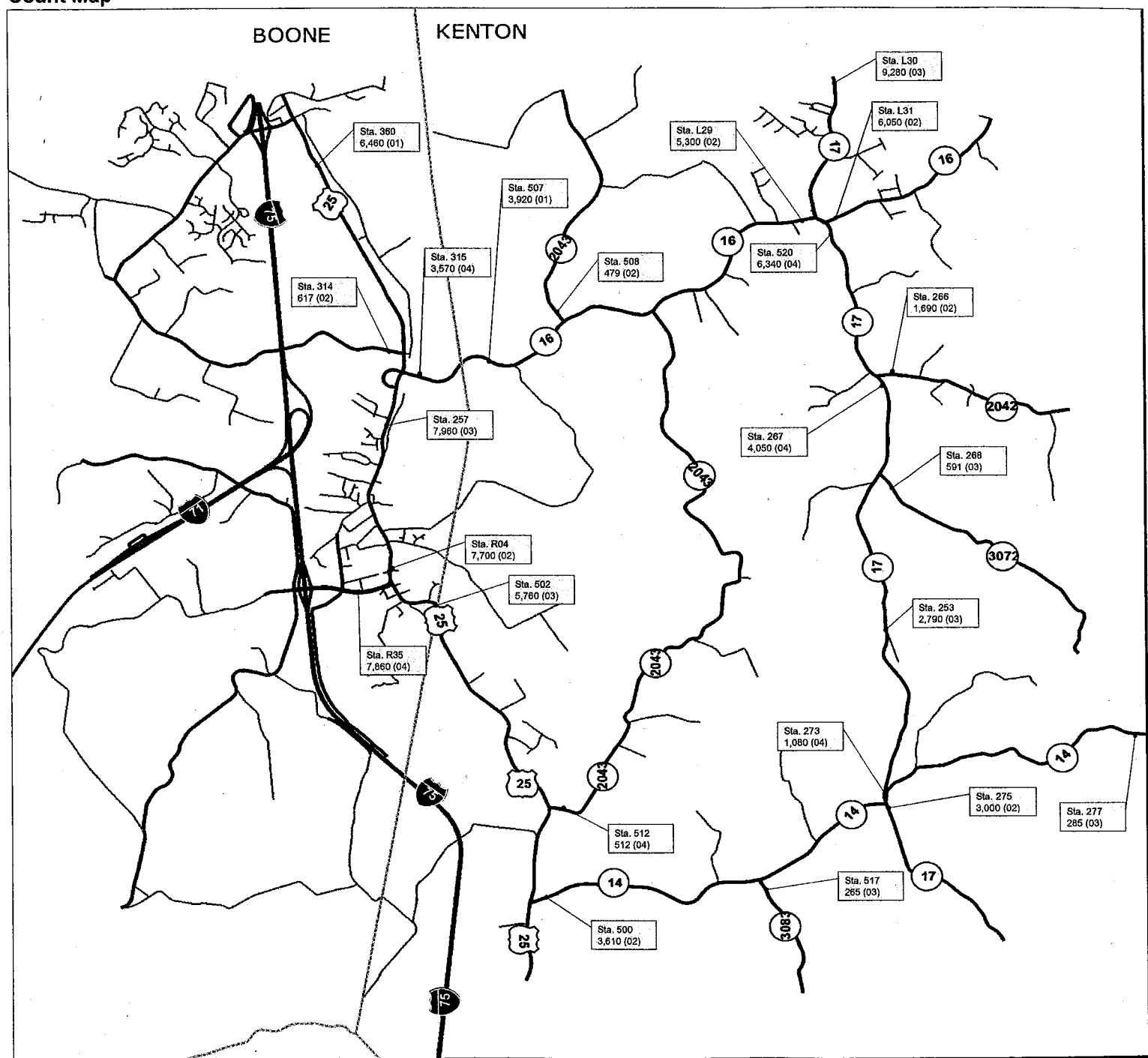
## 2000 and 2030 Employment in TAZs Surrounding I-71/I-75 Split



## 2000 and 2030 Households in TAZs Surrounding I-71/I-75 Split



## **Count Map**





## TRANSPORTATION CABINET

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Commissioner of Highways

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Commissioner of  
Administrative Services

**Paul Steely**  
Commissioner of Aviation

**Roy Mundy**  
Commissioner of  
Vehicle Regulation

**TO:** Daryl Greer  
Division of Planning

**ATTN:** Joe Tucker

**FROM:** Lynn Soporowski  
Division of Planning *DS*

**DATE:** August 12, 2005

**SUBJECT:** Boone and Kenton Counties Traffic Forecasts  
Mary Grubbs Extension Study

This is in response to your April 26, 2005 request for traffic forecasts on the subject project study. We are providing ADTs, and truck percentages in the attached report.

If you have any questions, please call Lynn Soporowski or Kong Ee.

LJS:KE  
Attachment  
c: Kong Ee w/attachment  
Bob Koehler w/attachment: OKI

# **Boone and Kenton Counties Traffic Forecasts Mary Grubbs Extension Study**



**Division of Planning**

**August 12, 2005**

## **Table of Contents**

Executive Summary  
Vicinity Map  
Traffic Forecast Summary  
Turning Movements

# **Executive Summary**

## **Project Description**

### **Volumes**

#### **Current Year (2005) Volumes**

The current year volumes for this forecast were taken from recent counts from the CTS program.

#### **Future Year (2030) Volumes**

The future year volumes were computed from various growth rates projected by the OKI model.

### **Growth Rates**

- Growth Rates for the No-Build Scenario Used = 1.7% - 5.1% provided by OKI
- Growth Rates for the Build Scenario Used = 1.3% - 4.5% provided by OKI
- Population data from the Census and population estimates made by the State Data Center are reliable indicators of travel growth. As can be seen from Boone and Kenton Counties' population growth rates and projected growth rates, it is acceptable that there is potential growth between 2% - 5% per year used in these forecasts.

Area	1990 (Census)	2000 (Census)	90-00 GR	2030 (Est.)	00-30 GR
KY	3,686,891	4,041,769	0.96%/year	5,006,885	0.72%/year
Boone	57,589	85,991	4.1%/year	249,143	3.6%/year
Kenton	142,031	151,464	0.65%/year	167,873	0.3%/year

### **Directional Factor**

Assume Mary Grubbs Highway belongs to Functional Classification # 7 (Rural Major Collector). According to Table 4A from Traffic Forecasting Report 2004, it indicates a 64/36 directional split for FC#7. The peak flow moves towards the city of Walton and the I-75 exit in the morning. The flow reverses in the evening.

### **K Factor**

An average K Factor Used = 11%

K Factors were computed and averaged from the PTR reports in the traffic forecast vicinity area.

### **Truck Percentages**

#### No Build

- Truck Percentage on KY 16 Used = 8.6%

The truck percentage was obtained from the 2005 vehicle classification count at station L29 on KY 16.

- Truck Percentage on US 25 Used = 12.1%

The truck percentage was obtained from the 2005 vehicle classification count at station K25 on US 25.

#### Build

- Truck Percentage on Mary Grubbs Highway Used = 11.8%

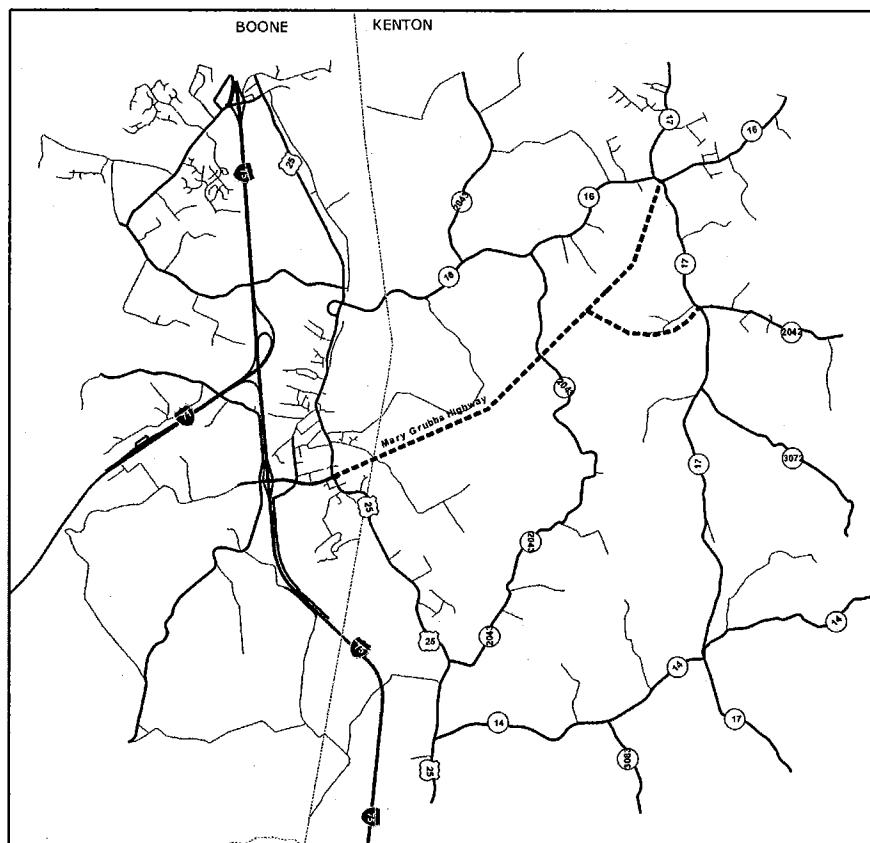
The truck percentage was used based on the 2003 Aggregated ESAL in Table 4C in Traffic Forecasting Report 2004. The truck percentage produces approximately 700 trucks.

#### Residual

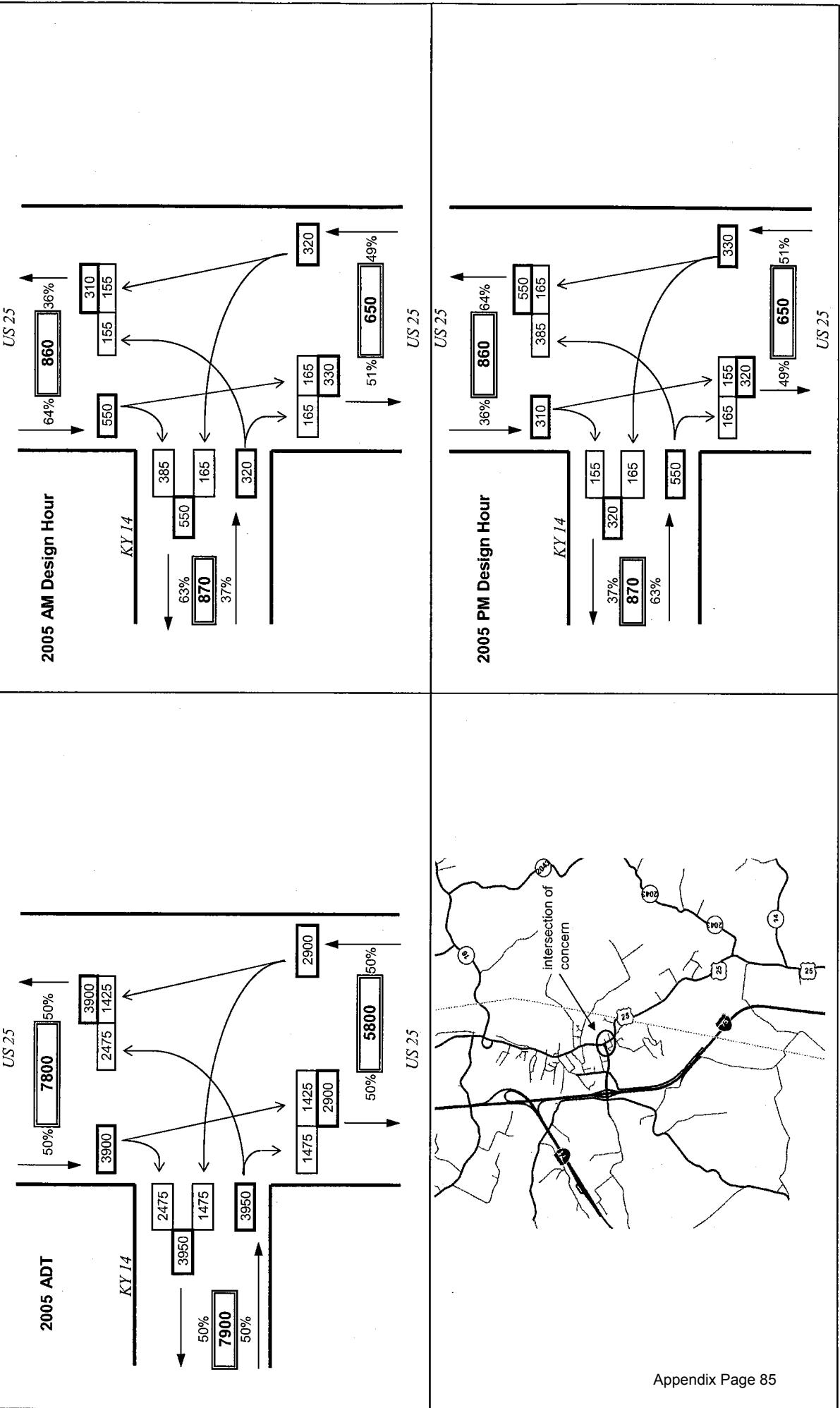
- Truck Percentage on KY 16 Used = 2% - 4%

It is assumed that only 60 trucks remain on KY 16 after traffic diversion.

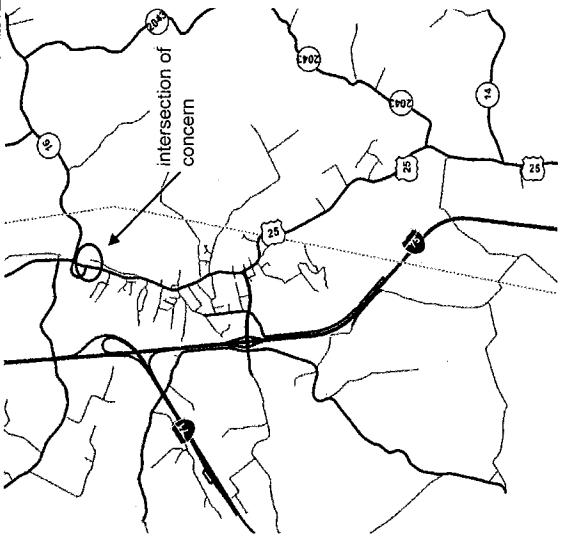
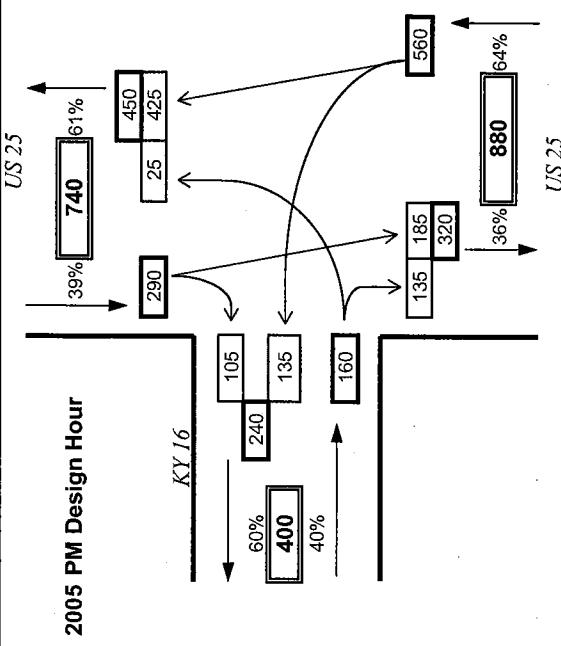
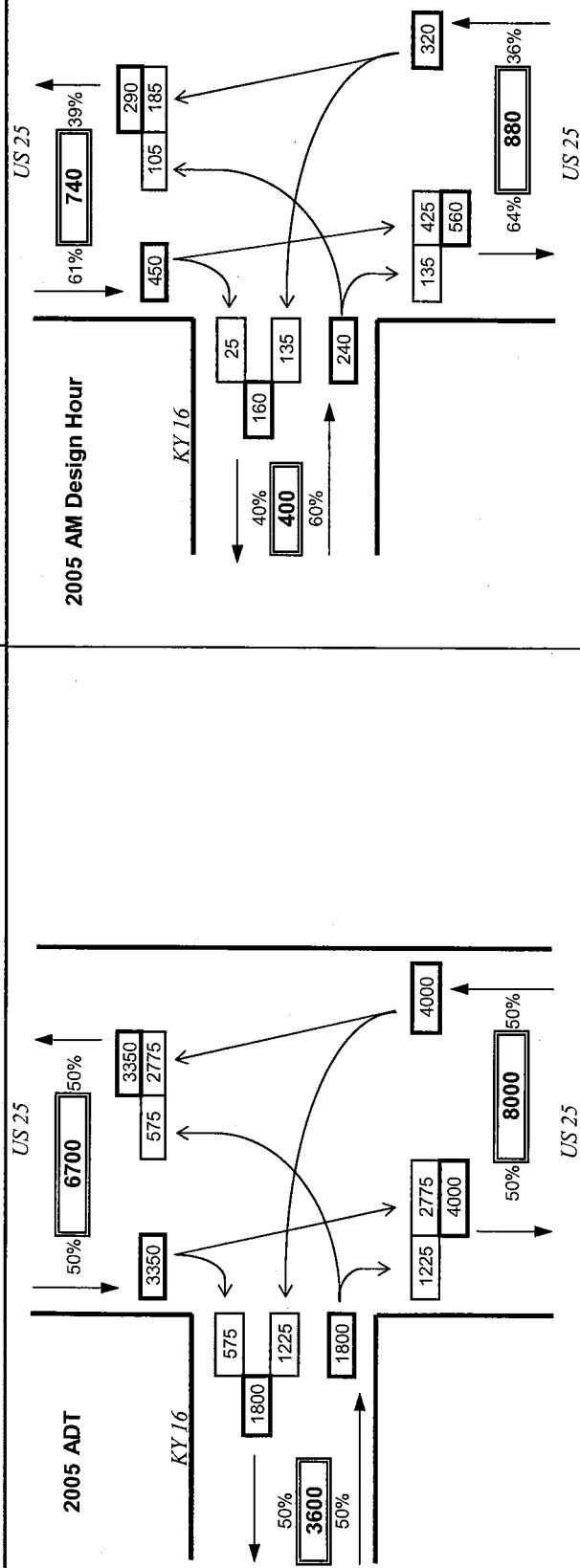
**Boone and Kenton Counties  
Mary Grubbs Extension  
Vicinity Map**



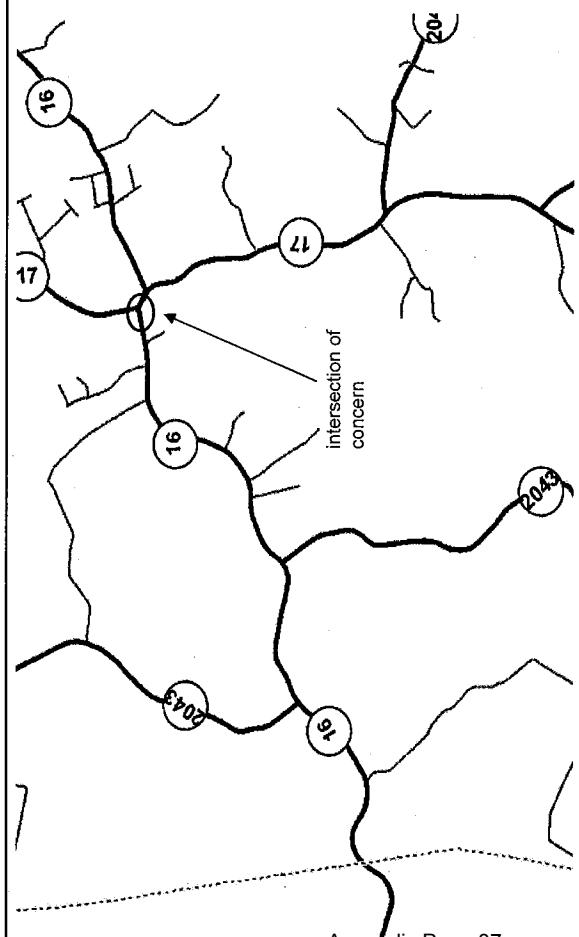
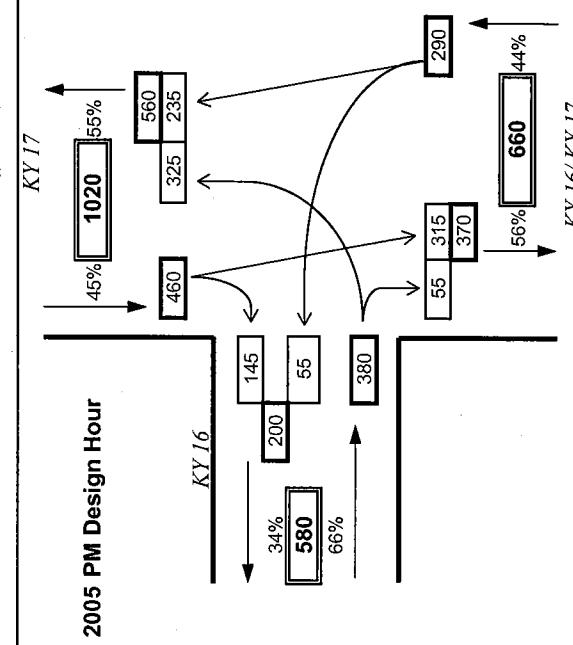
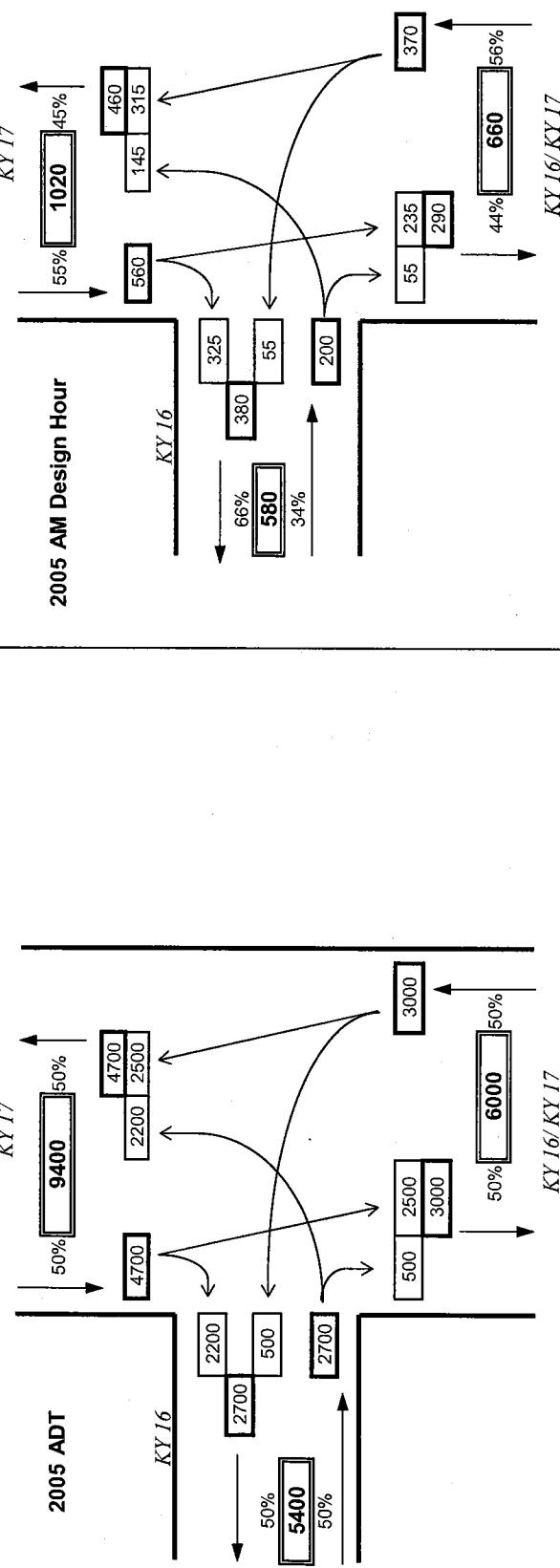
PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2005 ADT and Design Hour Volumes  
 INTERSECTION : KY 14 at US 25 (TM1; No Build)



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2005 ADT and Design Hour Volumes  
 INTERSECTION : KY 16 at US 25 (TM2; No Build)



<b>PROJECT</b>	: Boone and Kenton Counties, Mary Grubbs Highway
<b>ITEM NUMBER</b>	:
<b>MARS NUMBER</b>	:
<b>DATE</b>	: 7/22/2005
<b>ANALYST</b>	: Kong Ee
<b>SCENARIO</b>	: 2005 ADT and Design Hour Volumes
<b>INTERSECTION</b>	: KY 16 at KY 17 (TM3; No Build)



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway

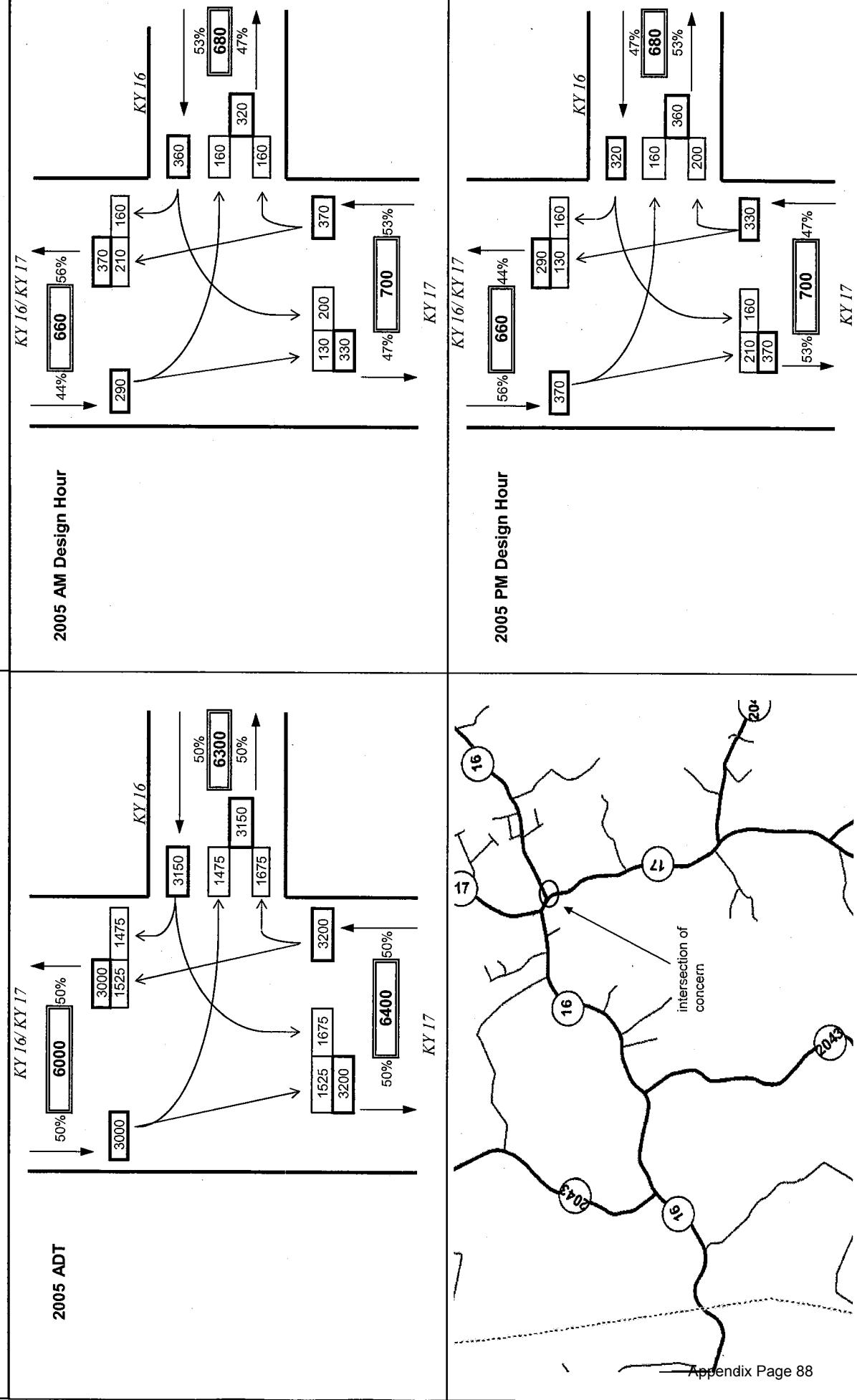
ITEM NUMBER : MARS NUMBER :

DATE : 7/22/2005

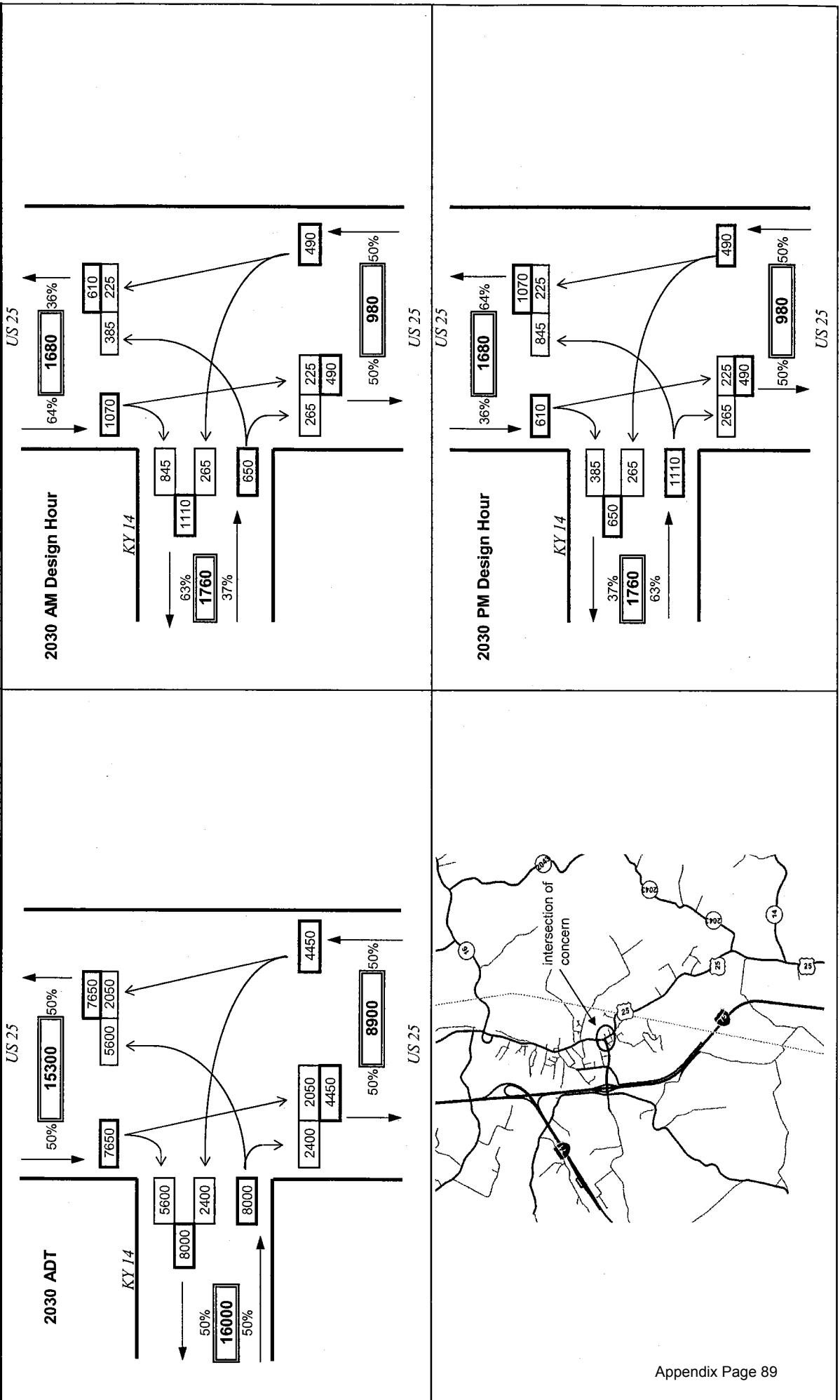
ANALYST : Kong Ee

SCENARIO : 2005 ADT and Design Hour Volumes

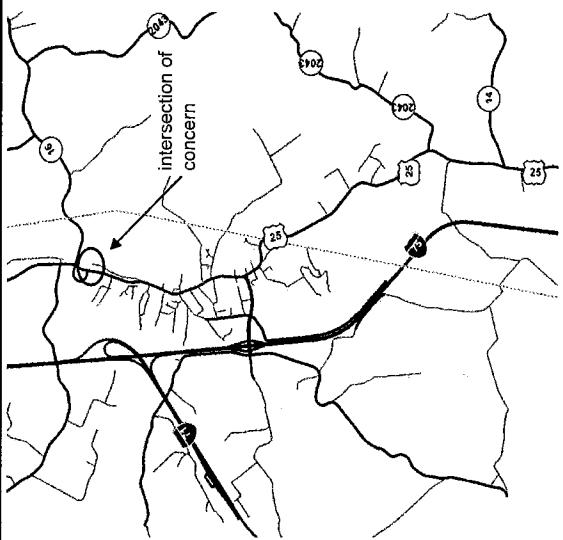
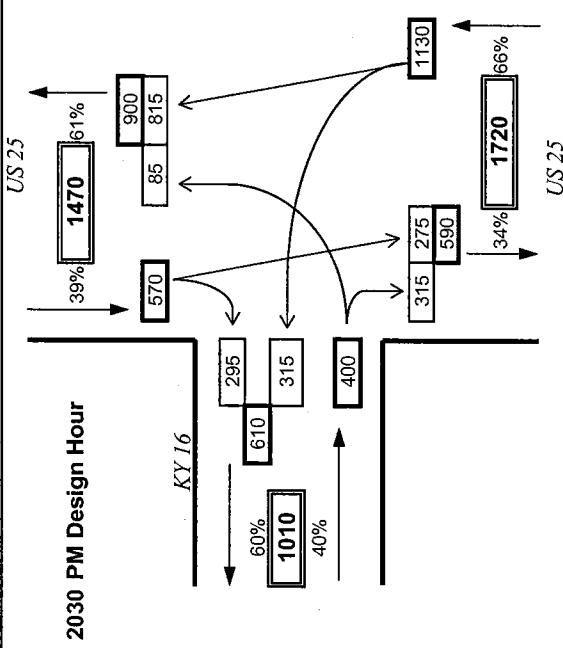
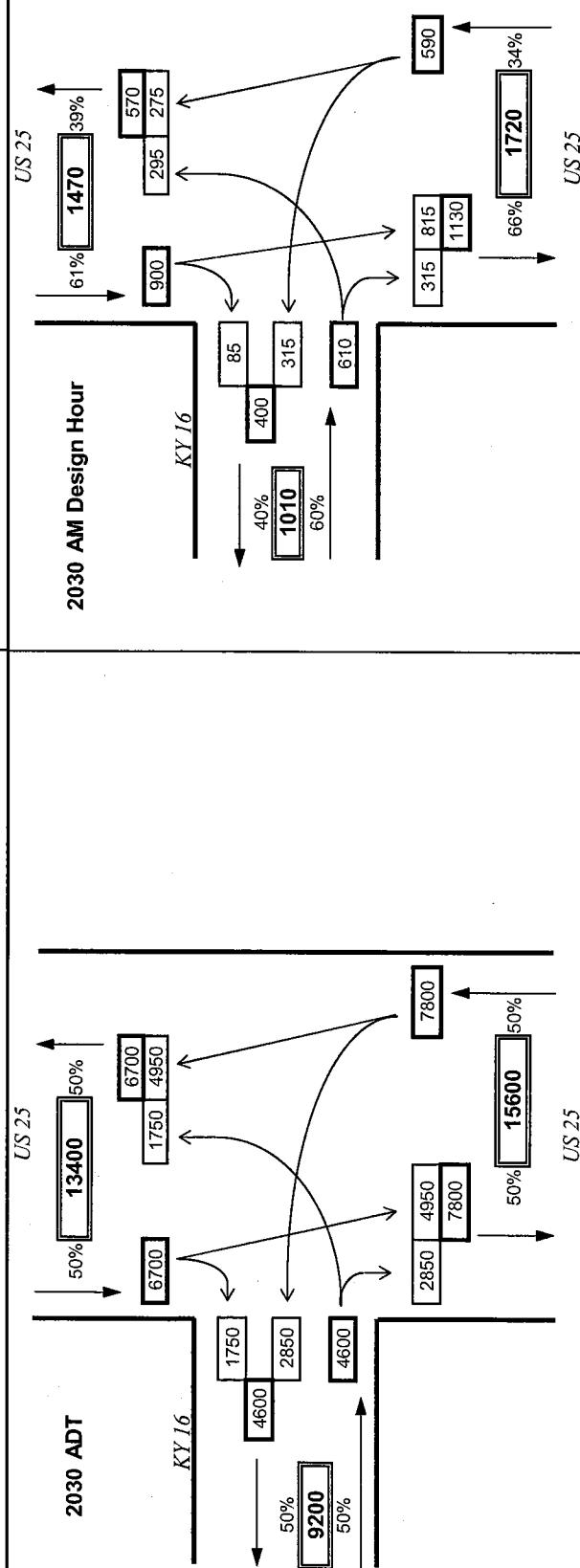
INTERSECTION : KY 16 at KY 17 (TM4; No Build)



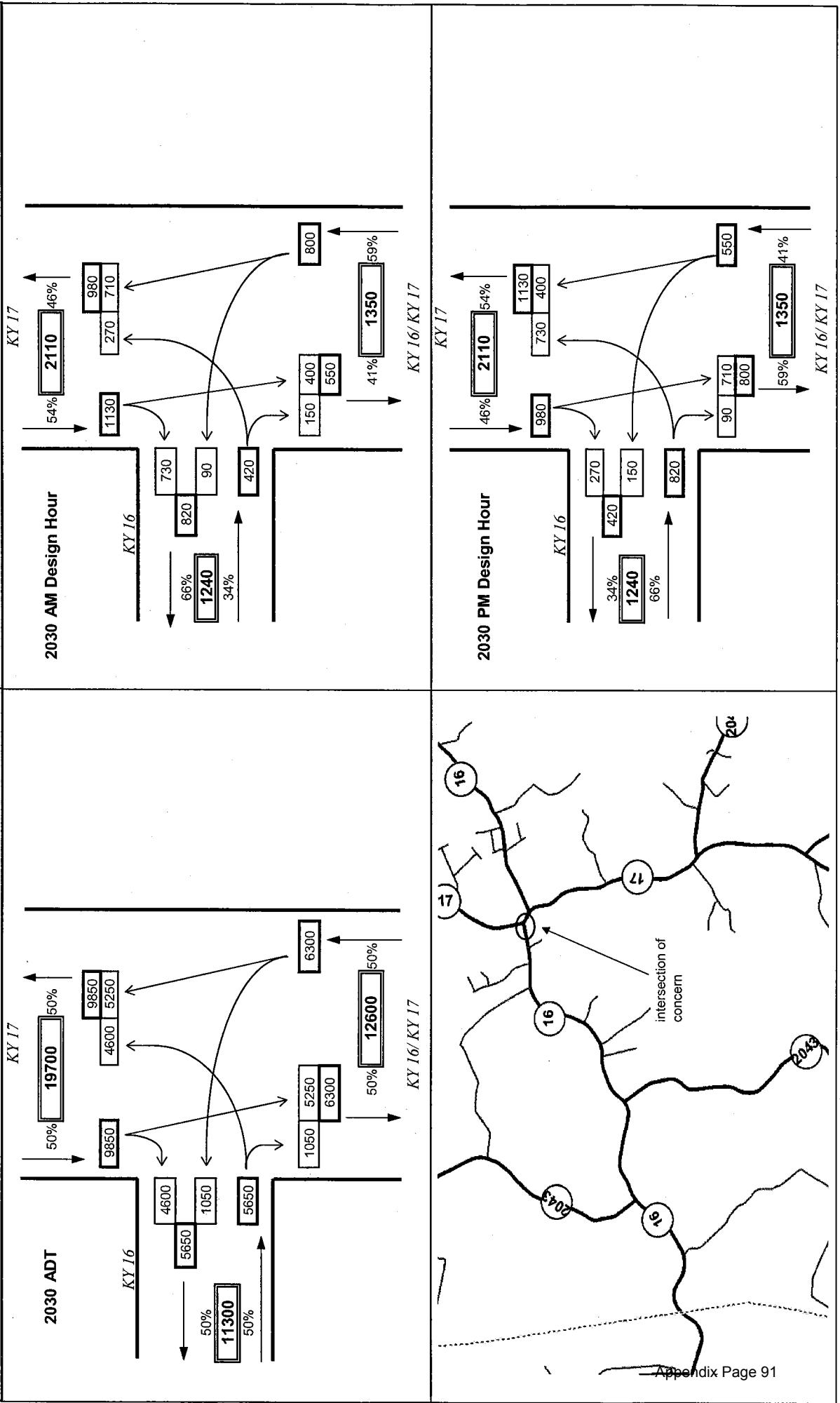
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ITEM NUMBER :  
MARS NUMBER :  
DATE : 7/25/2005  
ANALYST : Kong Ee  
SCENARIO : 2030 ADT and Design Hour Volumes  
INTERSECTION : KY 14 at US 25 (TM1; No Build)



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2030 ADT and Design Hour Volumes  
 INTERSECTION : KY 16 at US 25 (TM2; No Build)



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2030 ADT and Design Hour Volumes  
 INTERSECTION : KY 16 at KY 17 (TM3; No Build)

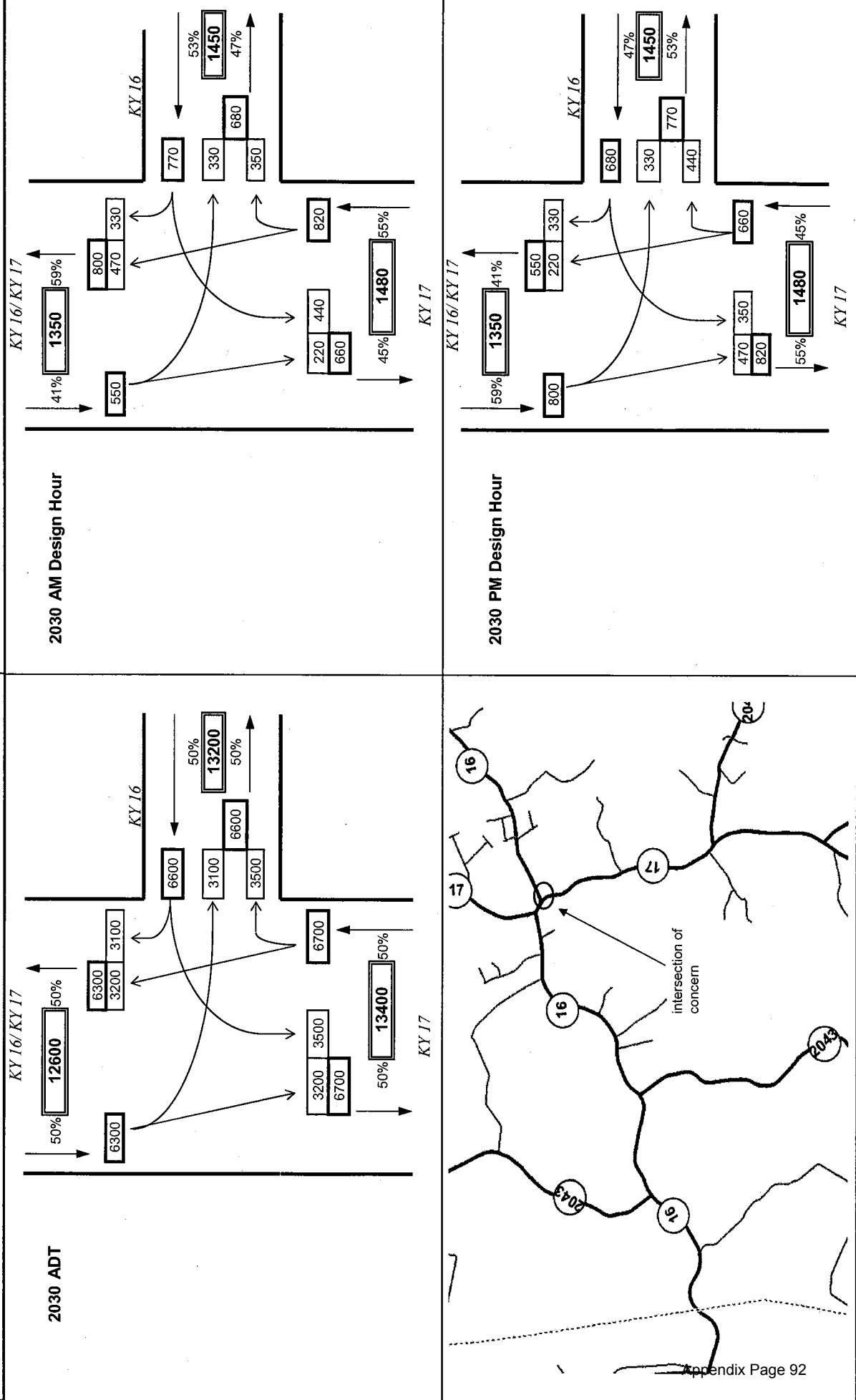


PROJECT : Boone and Kenton Counties, Mary Grubbs Highway

ITEM NUMBER : 6201

MARS NUMBER : 7/22/2005  
DATE : 7/22/2005  
ANALYST : Kong Ee

SCENARIO : 2030 ADT and Design Hour Volumes  
INTERSECTION : KY 16 at KY 17 (TM4; No Build)



PROJECT: Boone and Kenton Counties, Mary Grubbs Highway

ITEM NUMBER:

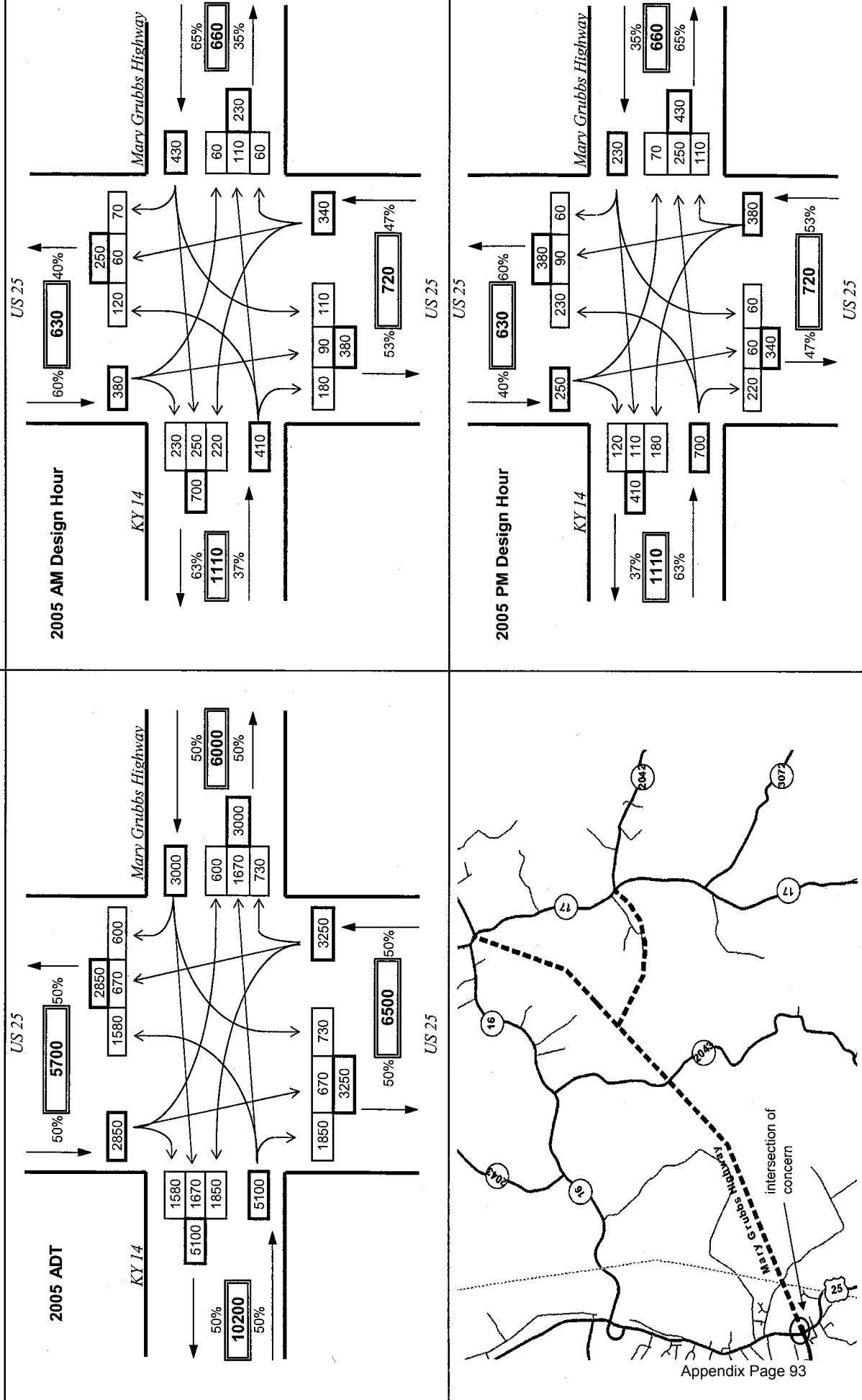
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DATE: 7/22/2005

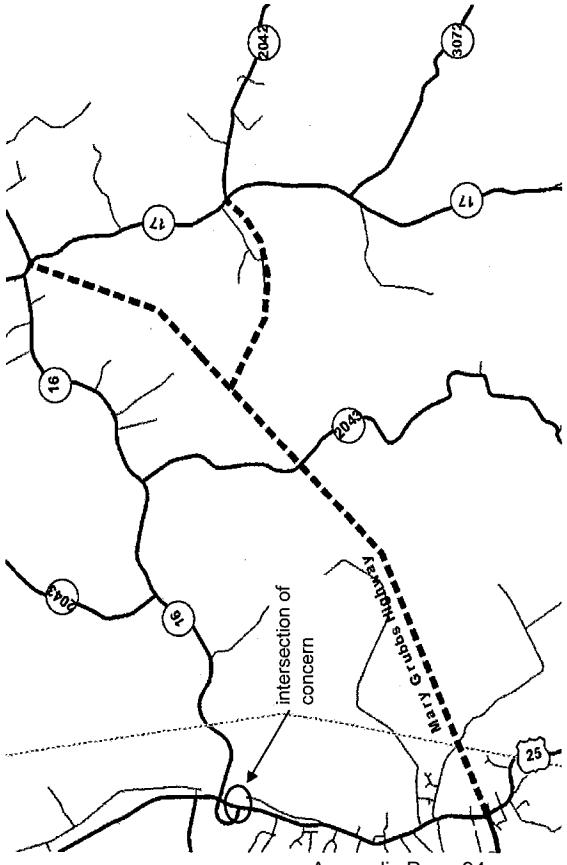
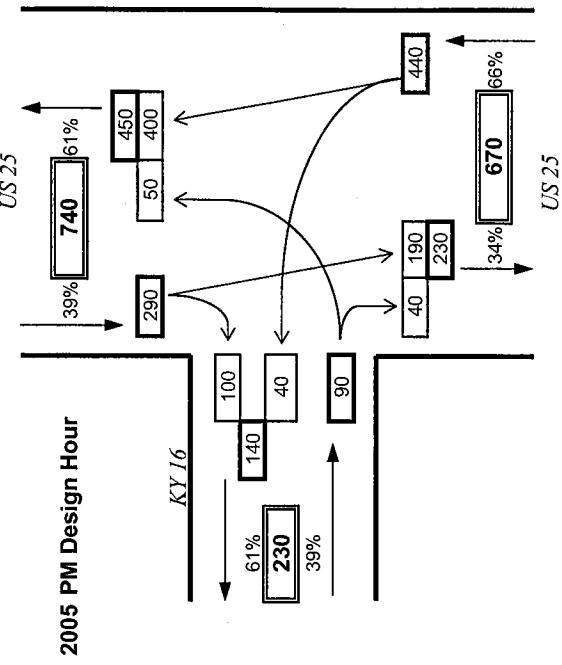
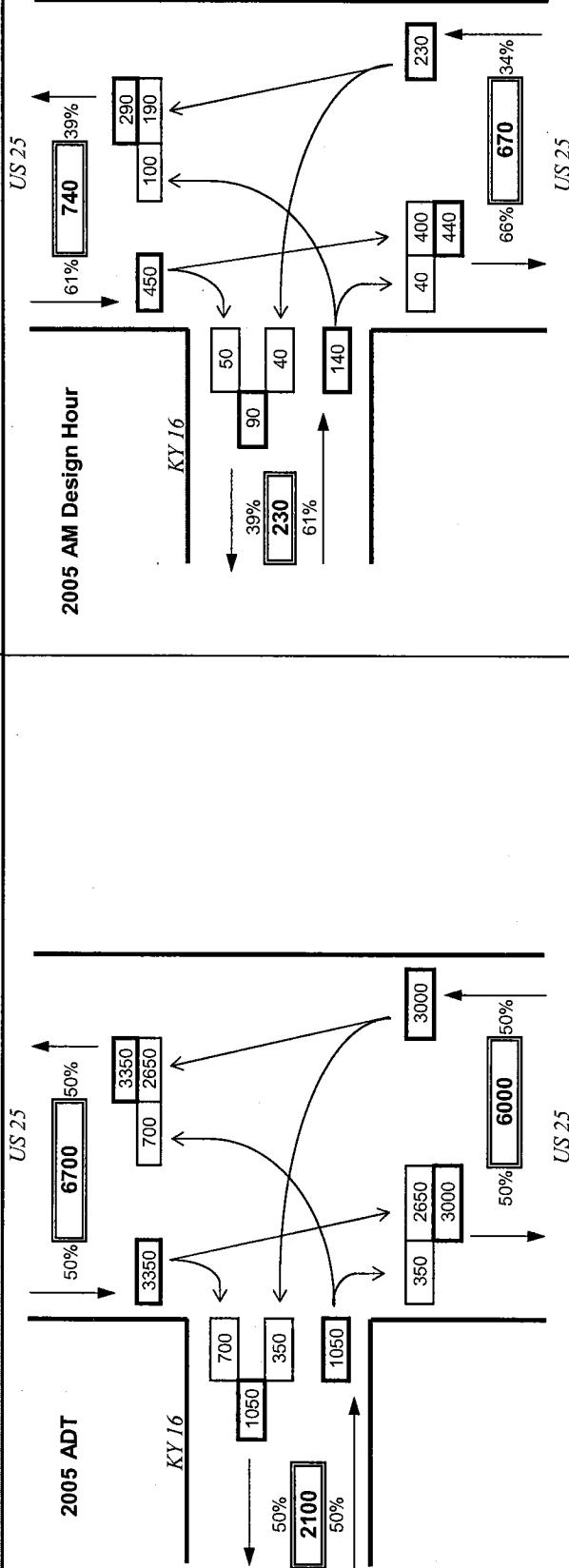
ANALYST: Kong Ee

SCENARIO: 2005 ADT and Design Hour Volumes

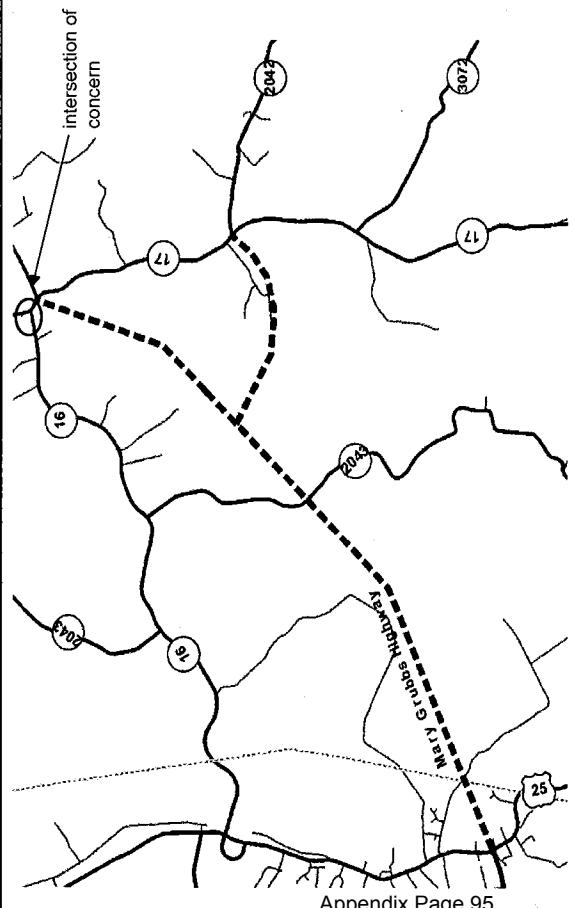
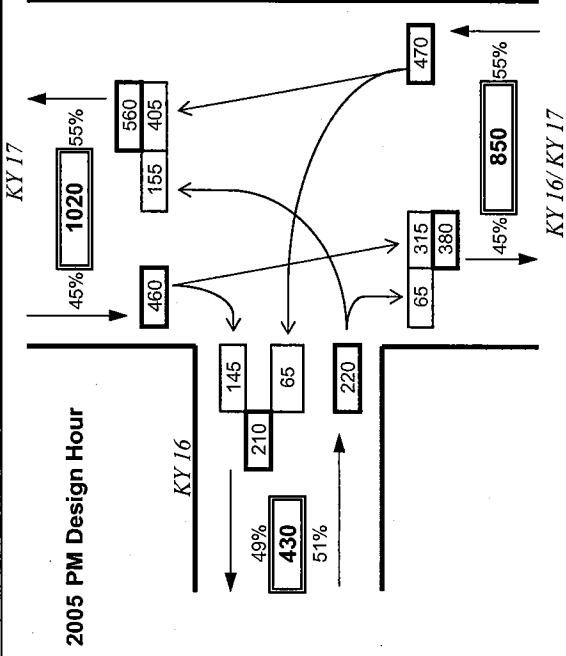
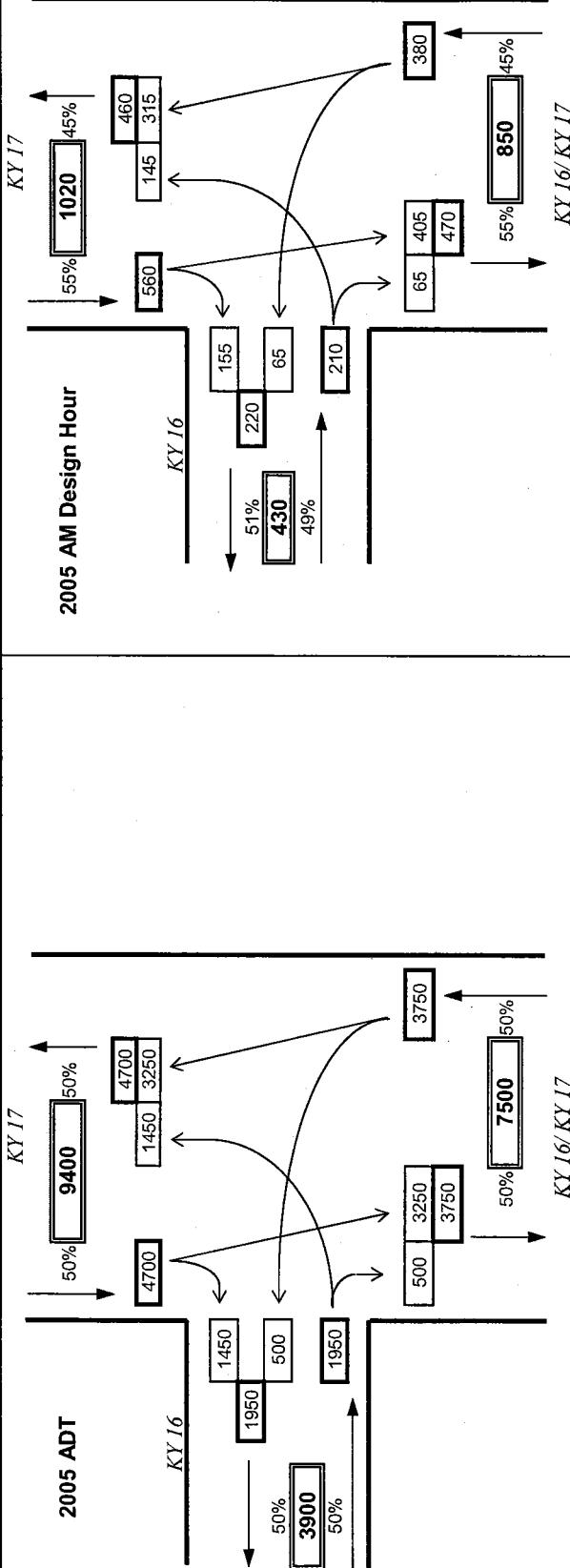
INTERSECTION: US 25 at KY 14/ Mary Grubbs Highway (TM1; Build)



PROJECT	:	Boone and Kenton Counties, Mary Grubbs Highway
ITEM NUMBER	:	
MARS NUMBER	:	
DATE	:	7/22/2005
ANALYST	:	Kong Ee
SCENARIO	:	2005 ADT and Design Hour Volumes
INTERSECTION	:	KY 16 at US 25 (TM2; Build)



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2005 ADT and Design Hour Volumes  
 INTERSECTION : KY 16 at KY 17 (TM3; Build)



PROJECT: Boone and Kenton Counties, Mary Grubbs Highway

ITEM NUMBER:

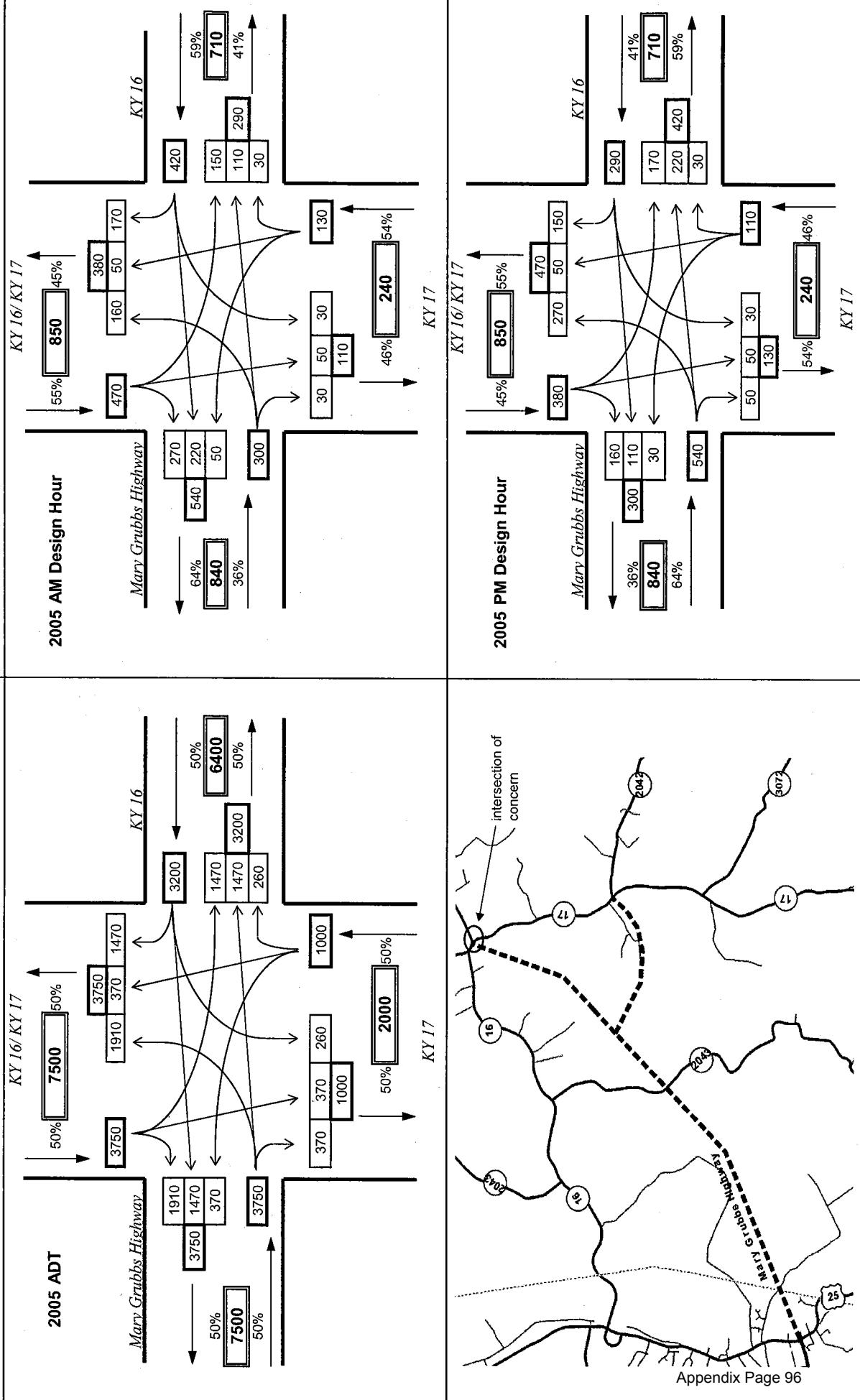
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DATE: 7/22/2005

ANALYST: Kong Ee

SCENARIO: 2005 ADT and Design Hour Volumes

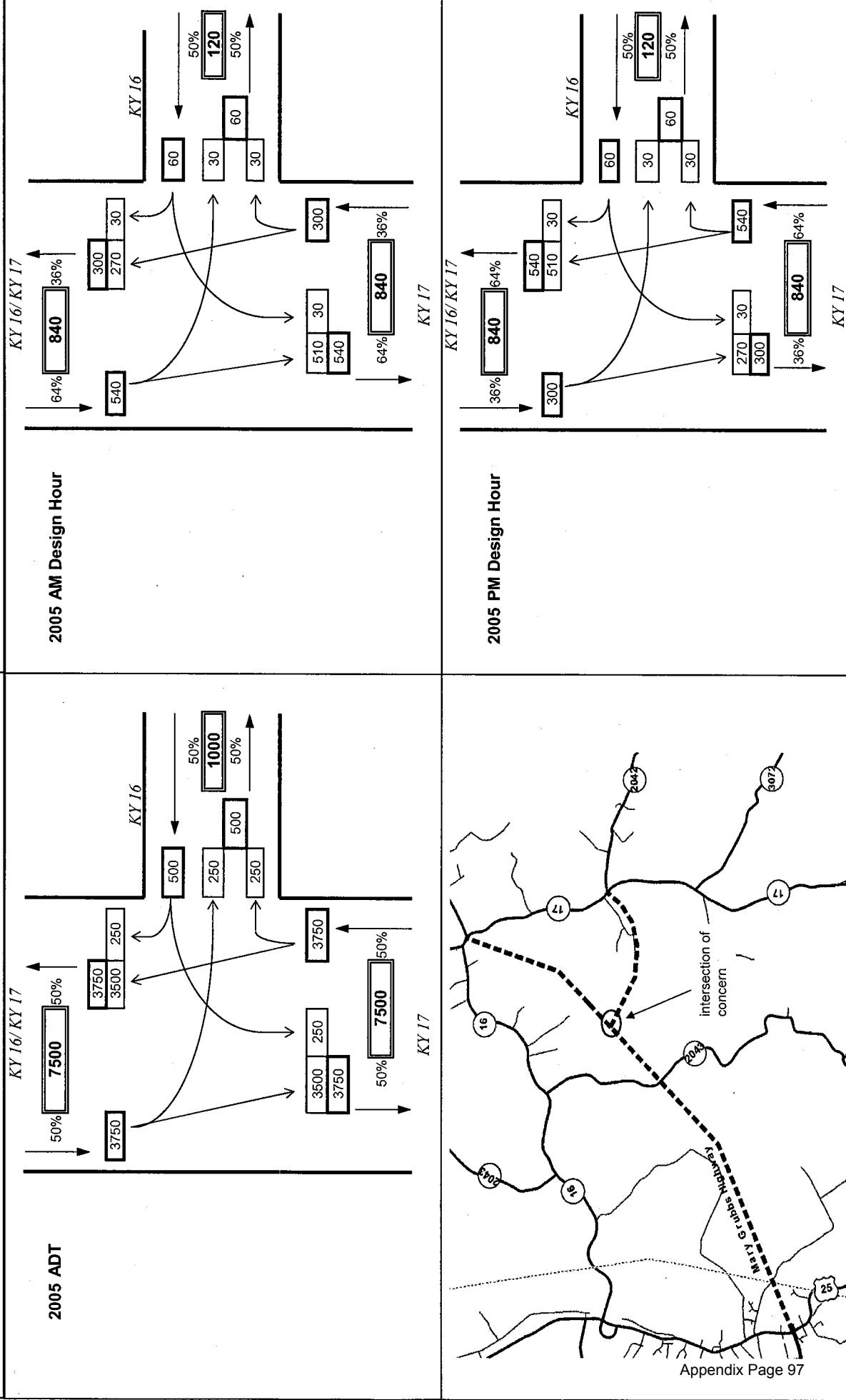
INTERSECTION: KY 16 at KY 17/ Mary Grubbs Highway (TM4; Build)



**PROJECT :** Boone and Kenton Counties, Mary Grubbs Highway

16

PROJECT	:	Boone and
ITEM NUMBER	:	
MARS NUMBER	:	
DATE	:	7/22/2005
ANALYST	:	Kong Ee
SCENARIO	:	2005 ADT
INTERSECTION	:	<b>Mary Grub</b>



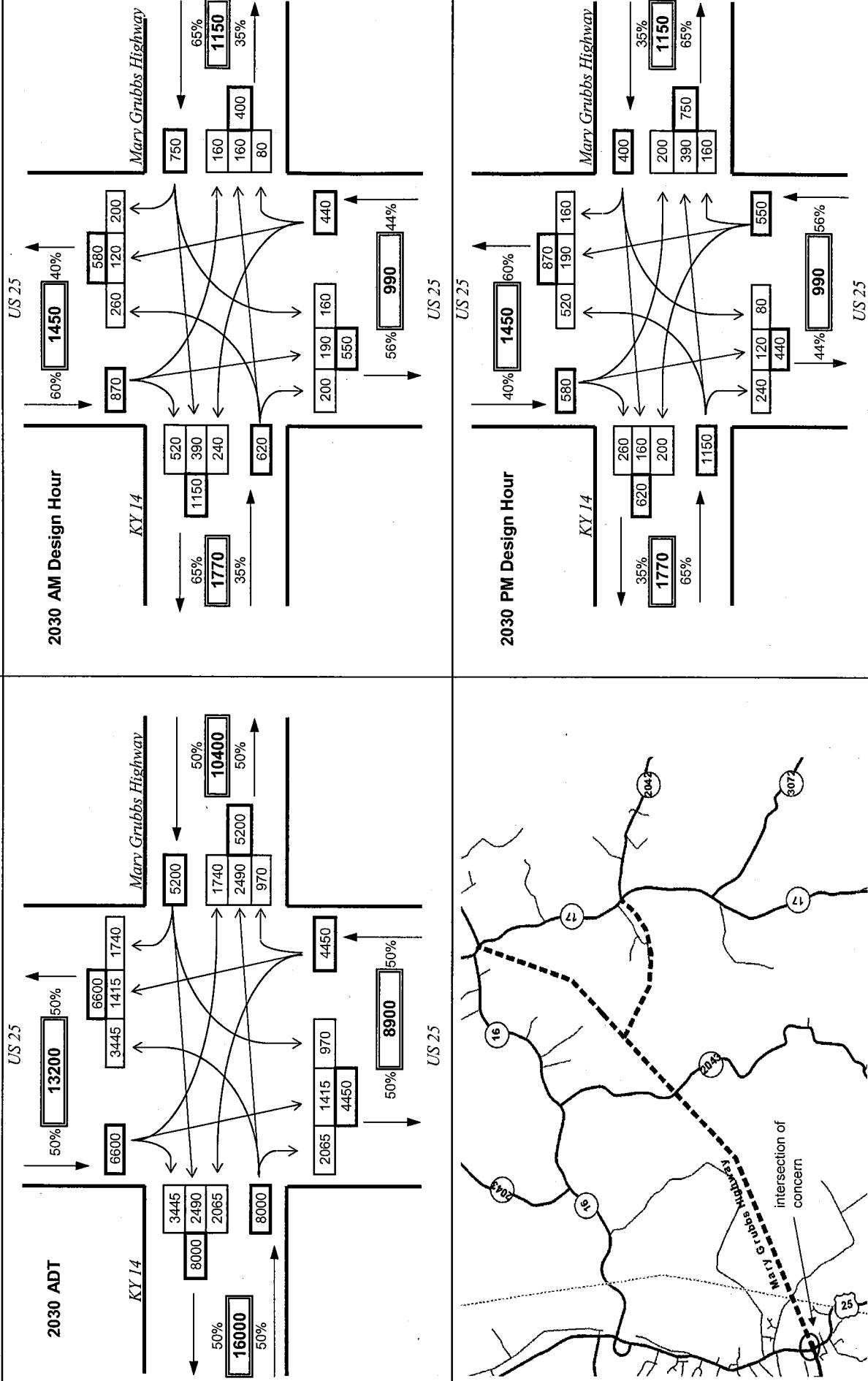
PROJECT: Boone and Kenton Counties, Mary Grubbs Highway

ITEM NUMBER:  
MARS NUMBER:

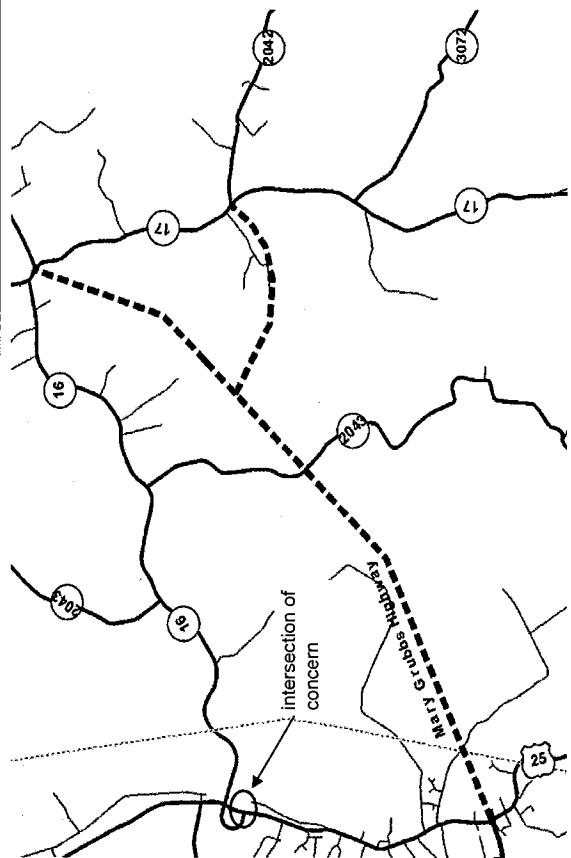
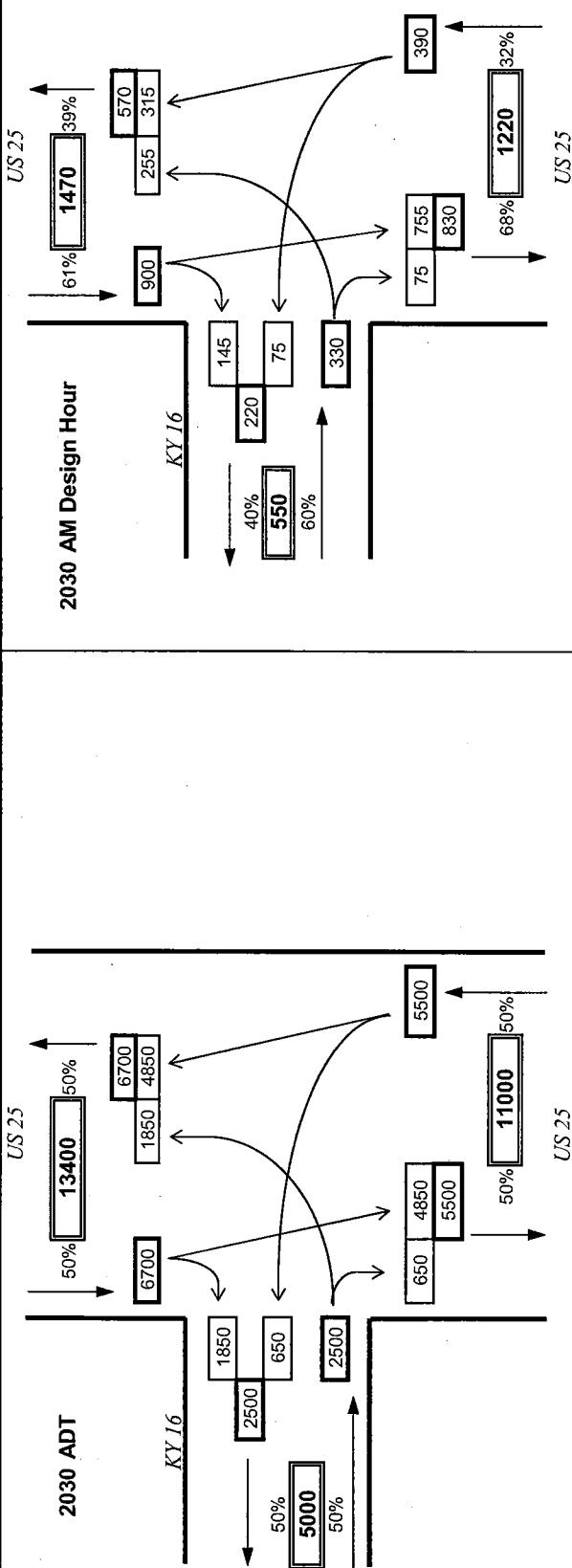
DATE: 7/22/2005  
ANALYST: Kong Ee

**SCENARIO: 2030 ADT and Design Hour Volumes**  
**INTERSECTION: US 25 at KY 14/ Mary Grubbs Highway**

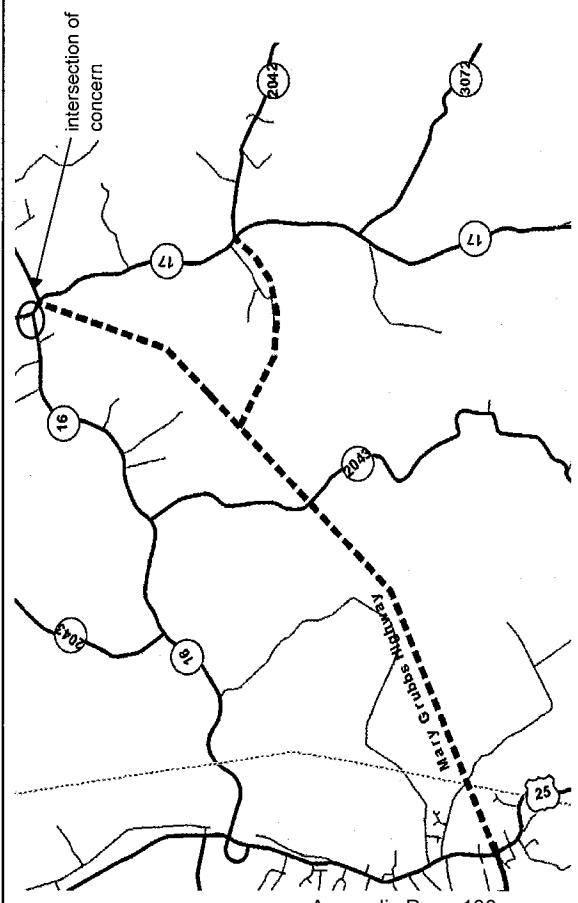
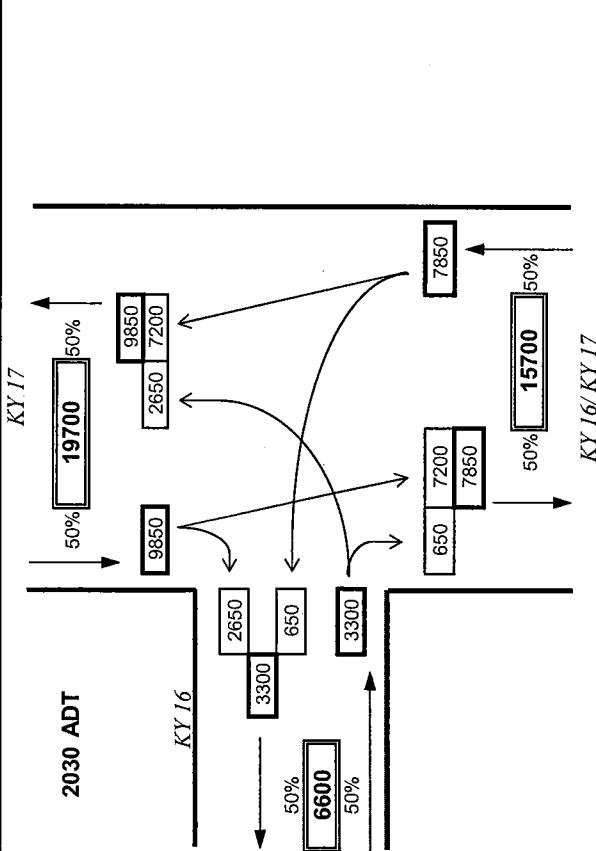
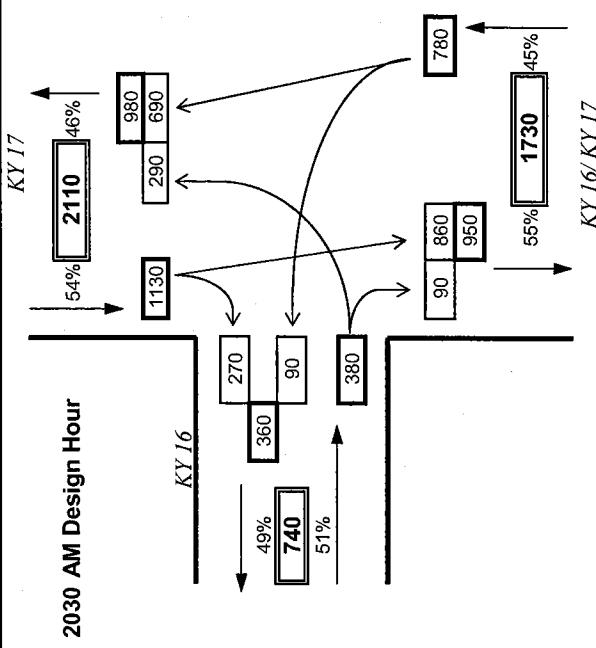
**INTERSECTION: US 25 at KY 14/ Mary Grubbs Highway (TM1; Build)**



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2030 ADT and Design Hour Volumes  
 INTERSECTION : KY 16 at US 25 (TM2; Build)



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
 ITEM NUMBER :  
 MARS NUMBER :  
 DATE : 7/22/2005  
 ANALYST : Kong Ee  
 SCENARIO : 2030 ADT and Design Hour Volumes  
 INTERSECTION : KY 16 at KY 17 (TM3; Build)



**PROJECT:** Boone and Kenton Counties, Mary Grubbs Highway

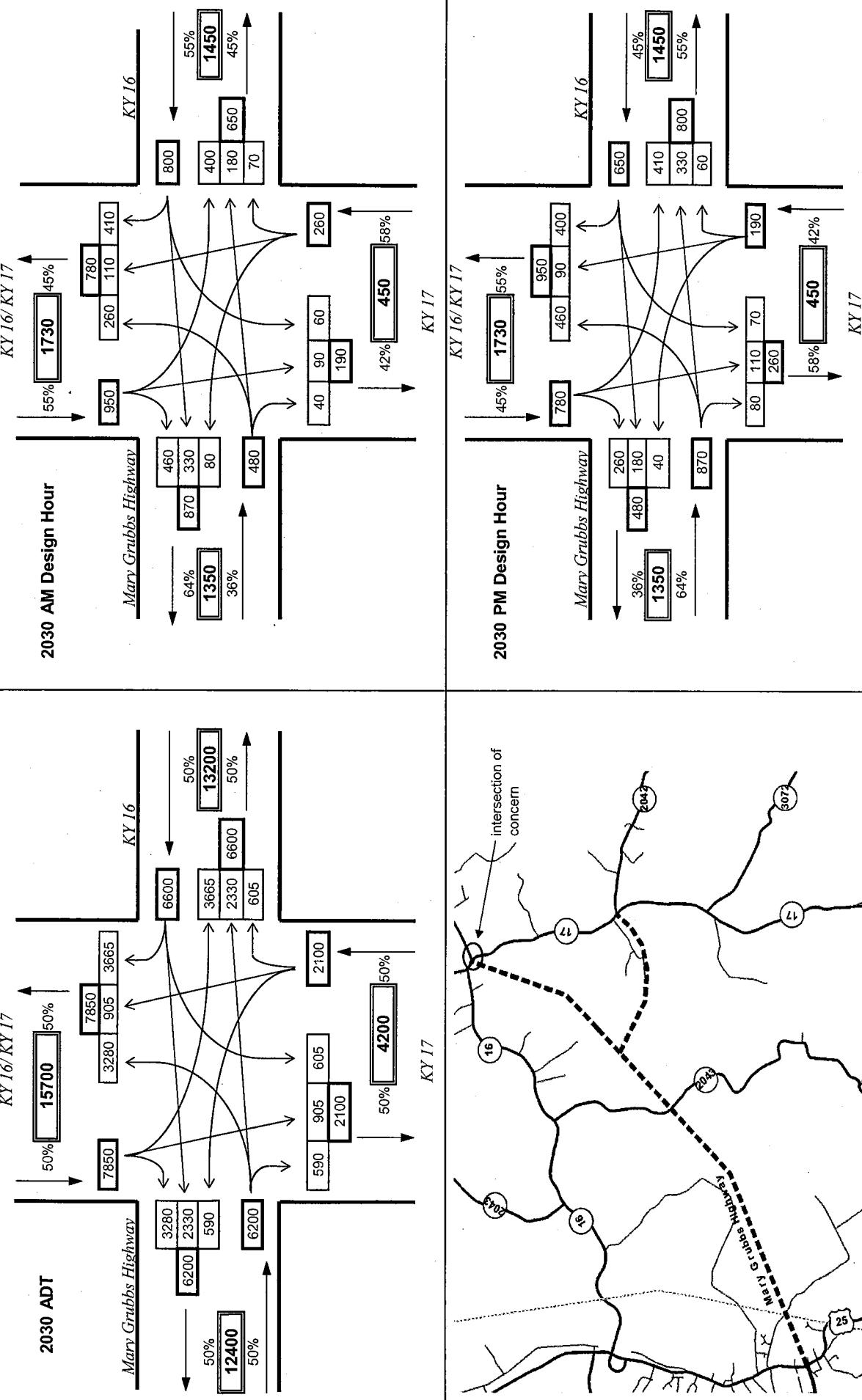
ITEM NUMBER:

MARS NUMBER:

DATE: 7/22/2005  
ANALYST: Kong Fei

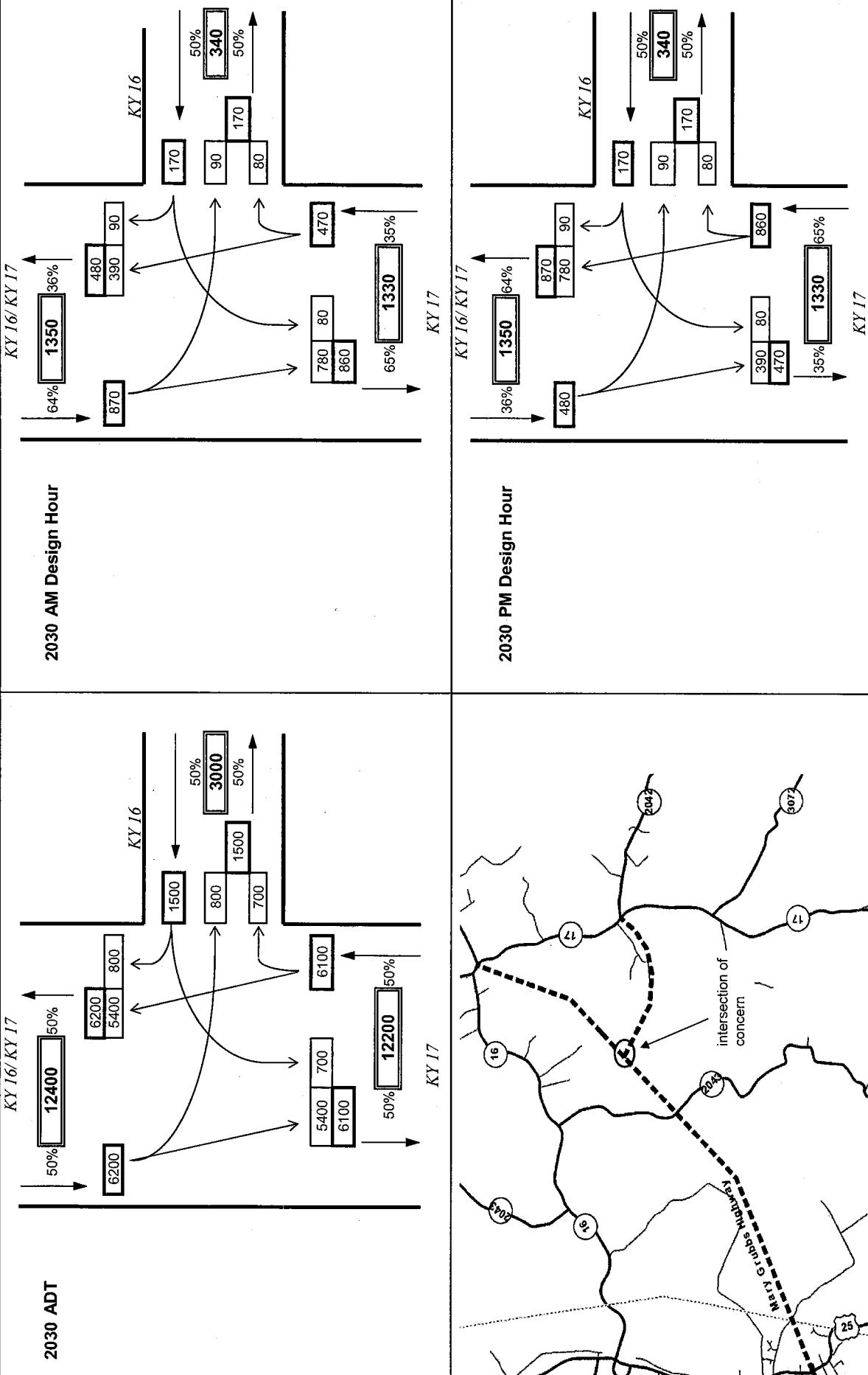
FINALIST: Kong Le  
SCENARIO: 2030 ADT and Design Hour Volumes  
INTERSECTION: KY 1611 KY 177 N  
CITY: WILMINGTON

**INTERSECTION: KY 16 at KY 17 / Mary Grubbs Highway (TM4; Build)**



PROJECT : Boone and Kenton Counties, Mary Grubbs Highway  
ITEM NUMBER :

MARS NUMBER : 7/22/2005  
 DATE : Kong Ee  
 ANALYST : 2030 ADT and Design Hour Volumes  
 SCENARIO : Mary Grubbs Highway (TM5; Build)  
 INTERSECTION :





DIV OF PLANNING

2005 OCT -3 A 11:46

Ohio • Kentucky • Indiana  
Regional Council of Governments

September 30, 2005

Ms. Annette Coffey, P.E.  
Director, Division of Planning  
Kentucky Transportation Cabinet  
200 Mero Street, MC 5-1  
Frankfort, Kentucky 40622

**RE: Mary Grubbs Highway Traffic Forecast**

Dear Ms. Coffey:

Attached are traffic forecasts for the three alternatives for the extension of Mary Grubbs Highway in Boone and Kenton counties as requested in your letter dated August 29, 2005. The figures represent daily volumes for 2005 no-build, 2005 build, 2030 no-build and 2030 build scenarios. The forecasts were developed through application of the OKI Travel Demand Model version 6.3.

If you have any questions please feel free contact me.

Sincerely,

*Robert W. Koehler*

Robert W. Koehler, P.E.  
Director of Transportation Planning

RWK/rmb  
Enclosures

Gary W. Moore  
President

Mark R. Policinski  
Executive Director

C: (TRANSMISSION STAFF) DBOB/MaryGrubbs@citylink.net

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**Estimated Daily Volumes**  
**Mary Grubbs Extension**  
**Boone and Kenton Counties, Kentucky**  
**Prepared for KYTC by OKI**  
**ALTERNATIVE 1**

