# D'IBERVILLE CIRCULATION STUDY Interstate Commerce Area



## Final Report April 2012

Prepared by:







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#### **Appendix**

Figure A-1 – Interstate Commercial Circulation Concepts 2012 Existing Traffic Volumes Year 2012 SYNCHRO Analysis Year 2035 SYNCHRO Analysis – No Build Year 2035 SYNCHRO Analysis - Proposed

#### Section 1 Introduction

This report summarizes the findings of the traffic analysis performed by Neel-Schaffer, Inc. for the City of D'Iberville and Gulf Regional Planning Commission. The primary focus of this analysis is the core circulation area around the proposed interchange at I-110 and Big Ridge Road, including the intersections of D'Iberville Boulevard at Popp's Ferry Road, D'Iberville Boulevard at Big Ridge Road, Lamey Bridge Road at Big Ridge Road West, and Lamey Bridge Road at Big Ridge Road East. The core circulation area is limited to D'Iberville Boulevard from the limits of the Mississippi Department of Transportation (MDOT) proposed improvements to the north to Popp's Ferry Road, Big Ridge Road east and west of MDOT's proposed improvements to the north to Big Ridge Road. (See Figure A-1 for map of MDOT's proposed improvements)

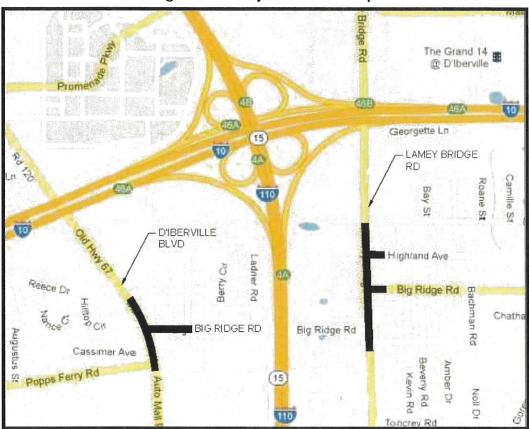


Figure 1.1 - Project Location Map

The purpose of this analysis is to address the traffic impacts within the core circulation area due to the proposed new interchange improvements. Alternatives include: (1) No Build Scenario, (2) widening the existing roadways to five-lane sections, as identified in MDOT's Environmental Assessment, and (3) the extension of Popp's Ferry Road to tie into Big Ridge Road, thereby eliminating the offset intersections.

#### **Section 2 Existing Conditions**

The study area is comprised of the eastern termini of Popp's Ferry Road, D'Iberville Boulevard, Big Ridge Road, and Lamey Bridge Road in the vicinity of the new interchange. The existing conditions of the street network are illustrated in Figure 2.1 and Figure 2.2.

#### 2.1 Popp's Ferry Road

Popp's Ferry Road is an east-west roadway that provides access from Biloxi to D'Iberville. It is classified as an Urban Minor Arterial. The roadway is bordered on each side by commercial and residential developments. The posted speed limit is 30 mph. In 2009, the Gulf Regional Planning Commission reported the average annual daily traffic to be 13,000 vehicles per day at a portable traffic count located on the east side of Gay Road.

Popp's Ferry Road is an undivided three-lane roadway with one westbound through lane, one eastbound through lane, and a two-way center left turn lane. The intersection of Popp's Ferry Road and D'Iberville Boulevard is the only signalized intersection along Popp's Ferry Road in the City of D'Iberville. At the intersection, Popp's Ferry Road includes a right turn lane and an exclusive left turn lane. The intersection is not equipped with pedestrian features. All other intermediate intersections are stop-controlled for the minor streets.

#### 2.2 D'Iberville Boulevard

D'Iberville Boulevard is primarily a north-south roadway that extends from the intersection with Lamey Bridge Road to Old Hwy 67. It is an undivided three-lane roadway with one northbound through lane, one southbound through lane, and a two-way center left turn lane between Lamey Bridge Road and Big Ridge Road. It is an undivided two-lane roadway north of Big Ridge Road. At the intersection with Popp's Ferry Road, D'Iberville Boulevard widens to include an exclusive right turn lane, one through lane, and an exclusive left turn lane southbound. At the intersection with Big Ridge Road, D'Iberville Boulevard widens to include a northbound channelized right turn lane. The posted speed limit is 30 mph. It is classified as an Urban Minor Arterial south of Popp's Ferry Road and an Urban Collector north of Popp's Ferry Road. In 2009, the Gulf Regional Planning Commission reported the average annual daily traffic to be 14,000 vehicles per day at a portable traffic count located south of Popp's Ferry Road and 4,600 vehicles per day at a portable traffic count located north of Big Ridge Road.

#### 2.3 Big Ridge Road

Big Ridge Road is an east-west roadway that extends from D'Iberville Boulevard to Lamey Bridge Road. The intersection with Lamey Bridge Road is offset then Big Ridge Road continues from Lamey Bridge Road to MS Highway 609 in Jackson County. Big Ridge Road is a two-lane roadway and is classified as an Urban Collector. Big Ridge Road widens to provide an exclusive westbound right turn lane at the intersection with D'Iberville Boulevard. In 2009, the Gulf Regional Planning Commission reported the average annual daily traffic to be 7,800 vehicles per day at a portable traffic count located east of D'Iberville Boulevard and 5,500 vehicles per day at a portable traffic count located west of Gorenflo Road.