

**GRANT ROAD REVERSIBLE LANE
TRAFFIC FLOW AND CRASH ANALYSIS
WITH AN UPDATE OF THE
BROADWAY REVERSIBLE LANE STUDY**

Prepared for
City of Tucson

Prepared by
The logo for TRANSCORE, featuring the word "TRANSCORE" in a blue, sans-serif font with a blue swoosh above the "O".

September 2005

TABLE OF CONTENTS

	<u>Page</u>
1. PURPOSE AND BACKGROUND	1-1
2. EVALUATION OF THE TRAFFIC IMPACTS OF REVERSIBLE LANE REMOVAL	2-1
2.1 STUDY METHODOLOGY	2-1
2.2 TRAFFIC ANALYSIS RESULTS	2-2
2.2.1 Daily Traffic Analysis	2-2
2.2.2 Peak-Period Traffic Analysis	2-4
2.3 CONCLUSIONS FROM THE TRAFFIC ANALYSIS	2-5
3. EVALUATION OF THE CRASH HISTORY BEFORE AND AFTER REMOVAL OF THE REVERSIBLE LANE	3-1
3.1 STUDY METHODOLOGY	3-1
3.2 SUMMARY OF BEFORE AND AFTER CRASH HISTORY	3-2
3.2.1 Crashes Involving Attempted Illegal Left-Turns	3-4
3.2.2 Before and After Crash Rate	3-4
3.2.3 Crash Location	3-5
3.2.4 Crashes by Month	3-6
3.3 CONCLUSIONS FROM THE CRASH ANALYSIS	3-6
4. UPDATE OF THE BROADWAY BOULEVARD REVERSIBLE LANE ANALYSIS	4-1
4.1 INTRODUCTION AND PURPOSE	4-1
4.2 STUDY METHODOLOGY	4-1
4.3 SUMMARY OF BEFORE AND AFTER CRASH HISTORY	4-1
4.4 CONCLUSIONS	4-3