



Central Indiana Suburban Transportation & Mobility Study

Final Report

**CENTRAL INDIANA SUBURBAN
TRANSPORTATION & MOBILITY STUDY
FINAL REPORT**

TABLE OF CONTENTS

1.0	INTRODUCTION	
1.1	Purpose	1-1
1.2	Study Area	1-2
1.3	Study Goals.....	1-3
1.4	Organization of Report.....	1-3
1.5	CISTMS Project Reports.....	1-4
1.6	Agency Coordination	1-5
2.0	OVERVIEW OF STUDY AREA	
2.1	Regional Demographics	2-1
2.2	Regional Transportation Systems	2-3
2.3	Regional Commuting Patterns	2-5
2.4	Roadway & Travel Characteristics Review.....	2-5
2.5	Functional Classifications.....	2-9
3.0	SYSTEMWIDE SCENARIO DEVELOPMENT AND EVALUATION	
3.1	Base Conditions Data	3-1
3.2	Potential Strategies to Maximize System Efficiency	3-2
3.3	Overview of Base Conditions by Corridor	3-3
3.4	Forecasts of Future Conditions	3-4
3.5	Scenario Development	3-5
3.6	Consideration of Alternate Routes.....	3-7
3.7	Scenario Evaluation.....	3-8
4.0	SYSTEM-LEVEL ANALYSIS AND RECOMMENDATIONS	
4.1	Introduction.....	4-1
4.2	An Outer Belt for Indianapolis	4-1
4.3	North-South Mobility Corridor.....	4-8
4.4	I-69 through Central Indiana.....	4-11
5.0	NORTH CORRIDOR ANALYSIS AND RECOMMENDATIONS	
5.1	Land Use/Developed Areas	5-1
5.2	Demographic Characteristics/Trends	5-1
5.3	Existing Transportation System.....	5-2
5.4	Overview of Parallel Arterials	5-2
5.5	Overview of State and Local Plans	5-2
5.6	SR 32 Traffic Review	5-5

TABLE OF CONTENTS CONTINUED

5.7	Detailed Route Review – SR 32	5-6
5.8	Planning Recommendations for SR 32	5-14
5.9	Strategies to Maximize System Efficiency (SR 32).....	5-23
5.10	SR 38 Traffic Review	5-29
5.11	Detailed Route Review – SR 38	5-29
5.12	Planning Recommendations for SR 38	5-35
5.13	Strategies to Maximize System Efficiency (SR 38).....	5-38

6.0 EAST CORRIDOR ANALYSIS AND RECOMMENDATIONS

6.1	Land Use/Developed Areas	6-1
6.2	Demographic Characteristics/Trends	6-1
6.3	Existing Transportation System.....	6-1
6.4	Overview of Parallel Arterials	6-3
6.5	Overview of State and Local Plans	6-3
6.6	SR 9 Traffic Review	6-6
6.7	Detailed Route Review – SR 9	6-5
6.8	Planning Recommendations for SR 9	6-15
6.9	Strategies to Maximize System Efficiency (SR 9).....	6-20

7.0 SOUTH CORRIDOR ANALYSIS AND RECOMMENDATIONS

7.1	Land Use/Developed Areas	7-1
7.2	Demographic Characteristics/Trends	7-1
7.3	Existing Transportation System.....	7-3
7.4	Overview of Parallel Arterials	7-3
7.5	Overview of State and Local Plans	7-4
7.6	SR 44 Traffic Review	7-6
7.7	Detailed Route Review – SR 44	7-7
7.8	Planning Recommendations for SR 44	7-18
7.9	Strategies to Maximize System Efficiency (SR 44).....	7-23
7.10	SR 144 Traffic Review	7-24
7.11	Detailed Route Review – SR 144	7-25
7.12	SR 42 Route Review	7-32
7.13	Planning Recommendations for SR 144 and SR 42.....	7-36
7.14	Strategies to Maximize System Efficiency (SR 144 and SR 42).....	7-39

8.0 WEST CORRIDOR ANALYSIS AND RECOMMENDATIONS

8.1	Land Use/Developed Areas	8-1
8.2	Demographic Characteristics/Trends	8-1
8.3	Existing Transportation System.....	8-1
8.4	Overview of Parallel Arterials	8-3
8.5	Overview of State and Local Plans	8-3

TABLE OF CONTENTS CONTINUED

8.6	SR 267 Traffic Review	8-10
8.7	Detailed Route Review – SR 267	8-12
8.8	Planning Recommendations for SR 267.....	8-16
8.9	Strategies to Maximize System Efficiency (SR 267).....	8-20
8.10	SR 39 Traffic Review.....	8-21
8.11	Detailed Route Review – SR 39	8-21
8.12	Planning Recommendations for SR 39	8-32
8.13	Strategies to Maximize System Efficiency (SR 39).....	8-36

LIST OF FIGURES

1-1	Project Study Area	1-2
2-1	County to County Workflows for the 8 Ring Counties, East-West	2-7
2-2	County to County Workflows for the 8 Ring Counties, North-South.....	2-8
2-3	CISTMS Corridors – State Route Functional Class Map.....	2-9
4-1	2025 Current Plan Traffic Forecast.....	4-3
4-2	2025 Outer Belt Traffic Forecast	4-3
4-3	2025 Urbanization, Current Plan Alternative	4-5
4-4	2025 Urbanization, Outer Belt Alternative.....	4-5
4.5	2025 Northeast Traffic Volumes, with & without I-69/I-70 Link	4-7
4-6	North-South Mobility Corridor.....	4-8
4-7	North-South Corridor Modeling Area.....	4-9
4-8	New Terrain Traffic Forecast with I-69 Extension to Evansville	4-12
5-1	North Corridor Location Map.....	5-3
5-2	Physical Features - SR 32, Boone County.....	5-7
5-3	Traffic Operations - SR 32, Boone County	5-8
5-4	Physical Features - SR 32, Hamilton County	5-11
5-5	Traffic Operations - SR 32, Hamilton County.....	5-12
5-6	Physical Features- SR 32, Madison County	5-15
5-7	Traffic Operations – SR 32, Madison County	5-16
5-8	SR 32 Add Lanes in Westfield – Current Plan	5-21
5-9	Noblesville Thoroughfare Plan	5-22
5-10	161 st Street to Pleasant Street Improvements – Noblesville.....	5-24
5-11	Lebanon Urban Area Detail.....	5-26
5-12	Noblesville Urban Area Detail.....	5-27
5-13	Physical Features – SR 38, Hamilton County.....	5-31
5-14	Traffic Operations – SR 38, Hamilton County	5-32
5-15	Physical Features – SR 38, Madison County.....	5-34
5-16	Traffic Operations – SR 38, Madison County	5-36
5-17	North Corridor Recommended Improvements	5-40
6-1	East Corridor Location Map	6-2
6-2	Physical Features – SR 9, Madison County	6-6
6-3	Traffic Operations – SR 9, Madison County	6-8
6-4	Physical Features – SR 9, Hancock County	6-10
6-5	Traffic Operations – SR 9, Hancock County.....	6-11
6-6	Physical Features – SR 9, Shelby County	6-13
6-7	Traffic Operations – SR 9, Shelby County	6-14
6-8	SR 9 Potential Local Greenfield Bypass Route Improvements	6-19
6-9	East Corridor Recommended Improvements.....	6-22

LIST OF FIGURES CONTINUED

7-1	South Corridor Location Map.....	7-2
7-2	Proposed East-West Corridor	7-5
7-3	Physical Features – SR 44, Morgan County	7-8
7-4	Traffic Operations – SR 44, Morgan County	7-9
7-5	SR 44 and SR 144 at Franklin	7-11
7-6	Physical Features – SR 44, Johnson County	7-13
7-7	Traffic Operations – SR 44, Johnson County	7-14
7-8	Physical Features – SR 44, Shelby County	7-16
7-9	Traffic Operations – SR 44, Shelby County.....	7-17
7-10	SR 44 Potential Local Franklin Bypass Route Improvements	7-22
7-11	Physical Features – SR 144, Morgan County	7-27
7-12	Traffic Operations – SR 144, Morgan County	7-28
7-13	Physical Features – SR 144, Johnson County.....	7-30
7-14	Traffic Operations – SR 144, Johnson County	7-31
7-15	SR 42, Mooresville to Monrovia.....	7-33
7-16	Physical Features – SR 42, Morgan County	7-34
7-17	Traffic Operations – SR 42, Morgan County	7-35
7-18	South Corridor Recommended Improvements	7-41
8-1	West Corridor Location Map.....	8-2
8-2	Danville Transportation Plan	8-5
8-3	Brownsburg Transportation Plan	8-6
8-4	Ronald Reagan Parkway, Corridor Location Map.....	8-8
8-5	Ronald Reagan Parkway, Proposed Boone County Extension.....	8-9
8-6	Plainfield Transportation Plan	8-11
8-7	Physical Features – SR 267, Hendricks County	8-14
8-8	Traffic Operations – SR 267, Hendricks County.....	8-15
8-9	Environmentally Sensitive Areas–Potential SR 267 Relocation Area...	8-19
8-10	Physical Features – SR 39, Boone County	8-24
8-11	Traffic Operations – SR 39, Boone County.....	8-25
8-12	Physical Features – SR 39, Hendricks County	8-27
8-13	Traffic Operations – SR 39, Hendricks County.....	8-28
8-14	Physical Features – SR 39, Morgan County	8-30
8-15	Traffic Operations – SR 39, Morgan County	8-31
8-16	West Corridor Recommended Improvements	8-38

LIST OF TABLES

2A	County Statistics	2-2
2B	Population	2-3
2C	Employment	2-3
2D	Selected City/Town Population & Household Statistics	2-4
2E	County-to-County Commuter Flows	2-6
3A	Corridor Travel Characteristics – Existing Conditions	3-4
3B	Systemwide Model Statistics	3-9
4A	Forecasted Travel Growth, 2000 – 2025 (Current Plan Alternative)	4-2
4B	2025 Regional Travel Conditions, With & Without Outer Belt	4-3
4C	Urban Growth by County, 2000 - 2025	4-5
4D	Study Area Travel Characteristics – with and without North-South Mobility Corridor	4-10
5A	Key Operational Features – SR 32, Boone County	5-6
5B	Key Operational Features – SR 32, Hamilton County	5-10
5C	Key Operational Features – SR 32, Madison County	5-14
5D	Estimated 2025 Conditions, Base Scenario – SR 32	5-18
5E	Estimated 2025 Conditions, Recommended Improvements – SR 32	5-19
5F	Key Operational Features – SR 38, Hamilton County	5-30
5G	Key Operational Features – SR 38, Madison County	5-33
5H	Estimated 2025 Conditions, Base Scenario – SR 38	5-37
5I	Estimated 2025 Conditions, Recommended Improvements – SR 38	5-38
6A	Key Operational Features – SR 9, Madison County	6-7
6B	Key Operational Features – SR 9, Hancock County	6-9
6C	Key Operational Features – SR 9, Shelby County	6-12
6D	Estimated 2025 Conditions, Base Scenario – SR 38	6-16
6E	Estimated 2025 Conditions, Recommended Improvements – SR 38	6-17
7A	Key Operational Features – SR 44, Morgan County	7-7
7B	Key Operational Features – SR 44, Johnson County	7-12
7C	Key Operational Features – SR 44, Shelby County	7-15
7D	Estimated 2025 Conditions, Base Scenario – SR 44	7-19
7E	Estimated 2025 Conditions, Recommended Improvements – SR 44	7-21
7F	Key Operational Features – SR 144, Morgan County	7-25
7G	Key Operational Features – SR 144, Johnson County	7-29
7H	Key Operational Features – SR 42, Morgan County	7-32
7I	Estimated 2025 Conditions, Base Scenario – SR 144 & SR 42	7-37
7J	Estimated 2025 Conditions, Recommended Impr. – SR 144 & SR 42	7-38

LIST OF TABLES CONTINUED

8A	Key Operational Features – SR 267, Hendricks County.....	8-13
8B	Estimated 2025 Conditions, Base Scenario – SR 267.....	8-17
8C	Estimated 2025 Conditions, Recommended Improvements – SR 267 ..	8-17
8D	Key Operational Features – SR 39, Boone County.....	8-22
8E	Key Operational Features – SR 39, Hendricks County.....	8-26
8F	Key Operational Features – SR 39, Morgan County	8-29
8G	Estimated 2025 Conditions, Base Scenario – SR 39.....	8-33
8H	Estimated 2025 Conditions, Recommended Improvements – SR 39	8-35