

FINAL
FEASIBILITY STUDY

For

MARTIN LUTHER KING, JR. DRIVE EXTENSION

Winston-Salem, North Carolina

Prepared For:



Winston-Salem

**CITY OF WINSTON-SALEM
DEPARTMENT OF TRANSPORTATION**

Prepared By:



4135 Mendenhall Oaks Parkway, Suite 160
High Point, North Carolina 27265
(336) 819-4200

November 2009

(WSA Project No. 102359)

Table of Contents

	<u>Page No.</u>
I. Introduction	1
II. Background Information	3
III. Purpose and Need	3
IV. Preliminary Environmental Findings	4
A. Wetlands	4
B. Floodplains	4
C. Historic Properties	4
D. Contaminated Properties	7
E. Archeological Sites	7
F. Cultural / Community Resources	7
G. Threatened / Endangered Species	7
V. Development of Concepts	9
VI. Projected Traffic Volumes / Levels of Service	9
A. Traffic Projections	9
B. Level of Service Calculations	16
VII. Corridor Alternatives Description	25
VIII. Public Involvement Summary	29
A. Steering Committee Meeting #1	29
B. Steering Committee Meeting #2	29
C. Public Workshop #1	29
D. Steering Committee Meeting #3	30
E. Steering Committee Meeting #4	30
F. Steering Committee Meeting #5	31
G. Public Workshop #2	32
H. Steering Committee Meeting #6	33
IX. Cost Estimates	33
X. Recommendations	34
XI. Conclusions	35
XII. References	35

Table of Contents

LIST OF TABLES

<u>No.</u>	<u>Title</u>	<u>Page No.</u>
1	Level of Service Criteria	17
2	Existing Conditions Level of Service Summary	18
3	2015 Opening Year Level of Service Summary	19
4	2035 Level of Service Summary	21
5	Preliminary Cost Estimates.....	33

LIST OF FIGURES

<u>No.</u>	<u>Title</u>	<u>Page No.</u>
1	Study Location Map.....	2
2	Winston-Salem Urban Area Thoroughfare Map	4
3	Environmental Screening Map.....	8
4	Existing AM & PM Peak Hour Traffic Counts.....	11
5	2015 Opening Year AM & PM Peak Hour Traffic Counts (No-Build).....	12
6	2035 AM & PM Peak Hour Traffic Counts (Alternative A)	13
7	2035 AM & PM Peak Hour Traffic Counts (Alternative B).....	14
8	2035 AM & PM Peak Hour Traffic Counts (Alternative C).....	15
9	Recommended Lane Configuration and Traffic Control (Alternative A).....	22
10	Recommended Lane Configuration and Traffic Control (Alternative B).....	23
11	Recommended Lane Configuration and Traffic Control (Alternative C)	24
12	Conceptual Design (Alternative A)	26
13	Conceptual Design (Alternative B)	27
14	Conceptual Design (Alternative C).....	28
15A-15E	Preliminary Preferred Alternative.....	36A-36E

APPENDICES

Appendix A	Background Data
Appendix B	Capacity Software Output
Appendix C	Public Involvement Information