

CONTENTS

1. INTRODUCTION.....	1
2. STUDY AREA DESCRIPTION.....	2
2.1 Overview	2
2.2 Corridor Description.....	4
2.2.1 Principal Arterials	4
<i>Georgia Avenue, NW</i>	8
<i>Florida Avenue, NW</i>	8
2.2.2 Minor Arterials	9
<i>New Hampshire Avenue, NW</i>	9
<i>Sherman Avenue, NW</i>	9
<i>Columbia Road, NW</i>	10
<i>Harvard Street, NW</i>	10
<i>Irving Street, NW</i>	11
<i>Kenyon Street, NW</i>	11
2.2.3 Collector Roads	12
2.3 Study Intersections	12
3. DATA COLLECTION AND ANALYSES	18
3.1 Turning Movement Volumes.....	18
3.2 Automatic Traffic Record (ATR)	25
3.2.1 Average Daily Traffic Volume	25
3.2.2 Vehicle Classification	27
3.2.3 Speed.....	27
3.3 Level of Service	29
3.4 Intersection Approach Queue Length.....	33

3.5 Parking	35
3.5.1 Parking Inventory	35
3.5.2 Parking Demand	35
3.6 Transit Facilities.....	42
3.7 Bicycle Facilities	43
<i>Bicycle Level of Service</i>	44
3.8 Pedestrian Facilities	46
3.9 Crash Data	47

TABLES

Table 1. % of Heavy Vehicles	27
Table 2. Speed Limits	27
Table 3. Speed Data.....	28
Table 4. Intersection Level of Service Criteria	29
Table 5. Peak Hour Vehicle Level of Service	30
Table 6. 50 th Percentile Queue Length (in feet).....	33
Table 7. 2006 Georgia Avenue, NW West Side Parking Inventory and Demand.....	37
Table 8. 2006 Georgia Avenue, NW East Side Parking Inventory and Demand.....	38
Table 9. 2006 Sherman Avenue, NW West Side Parking Inventory and Demand	39
Table 10. 2006 Sherman Avenue, NW East Side Parking Inventory and Demand	40
Table 11. Weekday Bus Routes 70, 71 Travel Time	42

Figure 38. 2003-2005 Georgia Avenue, NW Accidents and Injuries Comparison.....	48
Figure 39. 2003-2005 Georgia Avenue, NW Accident Type Summary	48
Figure 40. 2003-2005 Sherman Avenue, NW Accidents and Injuries Comparison.....	48
Figure 41. 2003-2005 Sherman Avenue, NW Accident Type Summary	48
Figure 42. Data from DDOT Accident Summary Report (R-7) 2005 .52	

Table 12. Weekday Bus Route 68 Travel Time	43
Table 13. Bicycle Level of Service Criteria	45
Table 14. Georgia Avenue, NW Crash Data 2003-2005	47
Table 15. Sherman Avenue, NW Crash Data 2003-2005	49
Table 16. 2003-2005 Georgia Avenue, NW Peak Hour Crash Data..	50
Table 17. 2003-2005 Sherman Avenue, NW Peak Hour Crash Data.	51

FIGURES

Figure 1. Howard University Hospital	2
Figure 2. Lower Georgia Avenue Transportation and Streetscape Study Area.....	3
Figure 3. Georgia Avenue, NW Facing North.....	8
Figure 4. Florida Avenue, NW Facing West	8
Figure 5. New Hampshire Avenue, NW Facing Northeast	9
Figure 6. Sherman Avenue, NW Facing North.....	9
Figure 7. Sherman Avenue Southbound Utility Construction	10
Figure 8. Columbia Road, NW Facing West	10
Figure 9. Harvard Street, NW Facing East.....	11
Figure 10. Irving Street, NW Facing West	11
Figure 11. Kenyon Street, NW.....	12
Figure 12.1. Existing Traffic Control	15
Figure 12.2. Existing Traffic Control (Continuous).....	16
Figure 12.3. Existing Traffic Control (Continuous).....	17
Figure 13.1. Peak Hour Turning Movement Volume	19
Figure 13.2. Peak Hour Turning Movement Volume (Continuous) ..	20

Figure 13.3. Peak Hour Turning Movement Volume (Continuous)..	21
Figure 14. Midday Peak Hour Intersection Volume	22
Figure 15. Midday Peak Hour Intersection Pedestrian Volume	22
Figure 16. 2006 MD Peak Hour Intersection Bicycle Volume	22
Figure 17. PM Peak Hour Intersection Volume	23
Figure 18. PM Peak Hour Intersection Pedestrian Volume	23
Figure 19. PM Peak Hour Intersection Bicycle Volume.....	23
Figure 20. Saturday Peak Hour Intersection Volume	24
Figure 21. Saturday Peak Hour Intersection Pedestrian Volume ...	24
Figure 22. Saturday Peak Hour Intersection Bicycle Volume	24
Figure 23. Daily Traffic Volume	25
Figure 24. 4 th Street, NW Hourly Traffic Volume	26
Figure 25. Sherman Avenue, NW Hourly Volume	26
Figure 26. Georgia Avenue, NW Southern Section Hourly Volume .	26
Figure 27. Georgia Avenue, NW Northern Section Hourly Volume .	26
Figure 28. Existing Condition Intersection Level of Service.....	32
Figure 29. Queue Length Comparison in the Study Area for Existing Condition.....	34
Figure 30. Parking Inventory	36
Figure 31. Georgia Avenue, NW Parking Demand vs. Capacity	41
Figure 32. Sherman Avenue, NW Parking Demand vs. Capacity....	41
Figure 33. Metro Map	42
Figure 34. Bicycle Facilities.....	44
Figure 35. Percentage of Bicycle Commuters	44
Figure 36. Bicycle Level of Service	45
Figure 37. Sidewalk Widths	46