

APPENDIX D

HOT SPOT ANALYSIS

Appendix D

“Hot Spot” Analysis

Location 1: Route 85 and Outer Ring Merge

Route 85 Southbound curves around and merges, along with traffic from Washington Avenue, onto Outer Ring Road westbound. Vehicles from Verizon offices also turn onto Outer Ring westbound.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
85 SB to Outer Ring WB	Right	1	N
Outer Ring NB Thru to Outer Ring WB	Thru	3	N
Washington Ave WB to Outer Ring WB		1	N
Verizon Driveway to Outer Ring WB	Right	1	N

TRANSIT

CDTA Route 12 Westbound - Route travels along Washington Avenue and loops around the Outer and Inner Ring Roads.

No transit service in Location 1 – CDTA 12 does not stop in this location

Closest stops (via current roads):

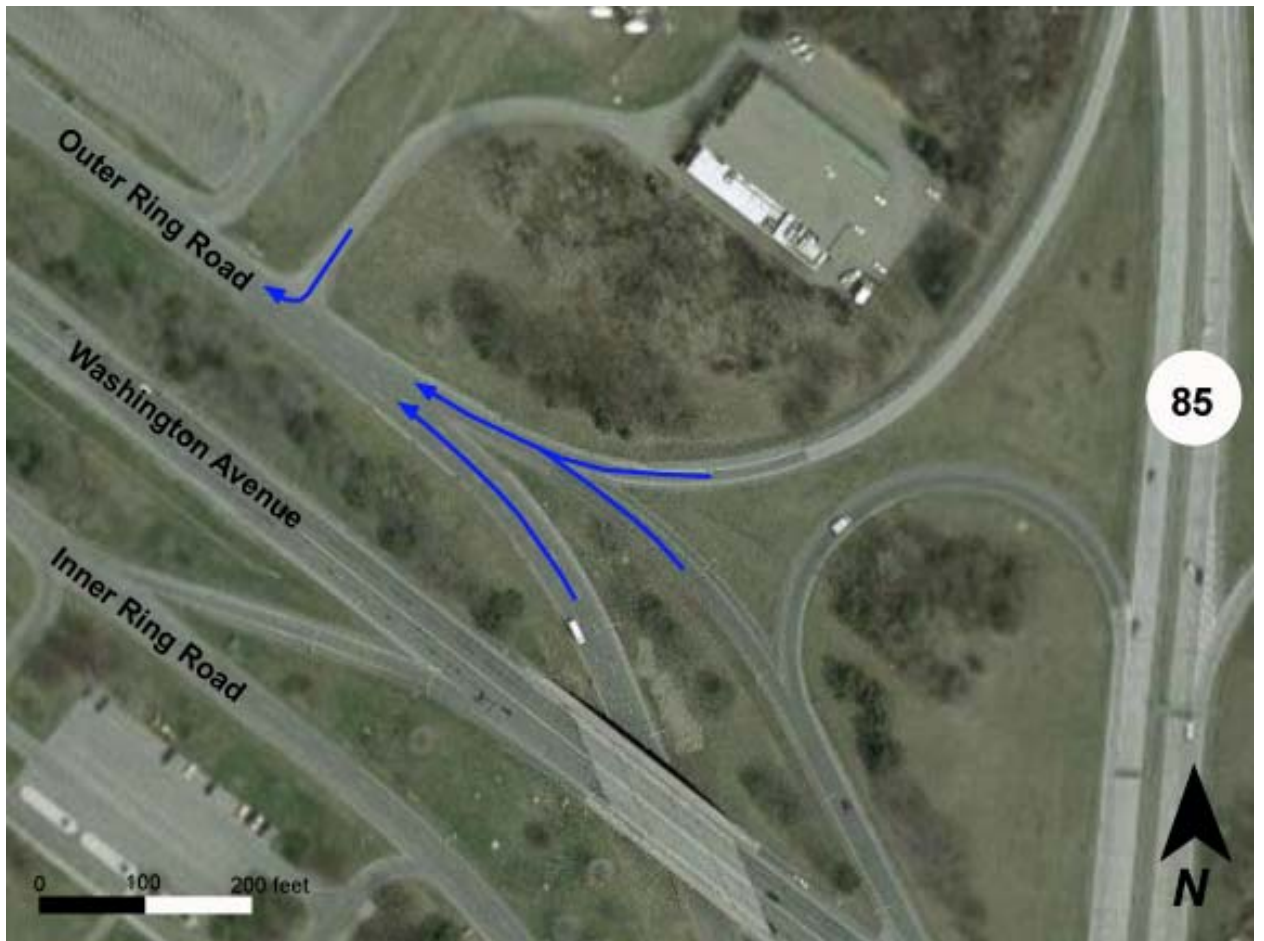
- Washington between Victor and Jermain (approximately .29 miles east)
- Washington at Patroon Creek Office Park (approximately 130 feet west)

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
85 SB to Outer Ring WB	Right	N
Outer Ring NB Thru to Outer Ring WB	Thru	N
Washington Ave WB to Outer Ring WB		N
Verizon Driveway to Outer Ring WB	Right	N

PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source	Date
					Daily	AM Peak per Hour	PM Peak per Hour		
1, 2, 3	500 Patroon Creek Blvd (CDPHP)	Office	180,000	900	2,097	300	280	Rich Rosen, Columbia Development Corporation	2006
1, 2, 3	400 Patroon Creek Blvd (New Building)	Medical	161,000	685	6,368	567	714		2006
1, 2, 3	Patroon Creek Developments	Office	410,000	----	3,577	580	538	State Campus Development Traffic Analysis	2000
1, 2, 3	1225 Washington Ave	Office	166,900-251,000	----	1,979 - 2,710	283-392	265-360	Hershberg Engineer's Report	2004
1, 2, 3	SEFCU	Office	101,710	318	1,351	190	193	Harriman Research and Technology Development Corporation	
1, 2, 3	SEFCU	Retail	7,660		1,272	n/a	n/a		
1, 2, 3	OGS	R&D	251,800	630	2,151	313	284		
1, 2, 3	OGS	Office	190,150	1,051	2,188	314	292		



Location 2: Patroon Creek Office Park

Main road to office park turns onto Outer Ring Road westbound.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Outer Ring WB Thru	Thru	3	N
Office Park drive to Outer Ring WB	Right	1	N

TRANSIT

CDTA Route 12 Westbound - Route travels along Washington Avenue and loops around the Outer and Inner Ring Roads.

Stops: Outer Ring Road and Patroon Creek Office Park entrance

Route	Name	Span*	Peak Headway**	Evening Headway	Saturday Headway	Sunday Headway
12	Washington Ave	17/7	15-30	0-15	15-30	30-60

* Span is the hours per day (Monday to Friday) / days per week service is provided

** Headway is the number of minutes between buses or trains

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Outer Ring WB Thru	Thru	N
Office Park drive to Outer Ring WB	Right	N

Proposed Development

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source	Date
					Daily	AM Peak per Hour	PM Peak per Hour		
1, 2, 3	500 Patroon Creek Blvd (CDPHP)	Office	180,000	900	2,097	300	280	Rich Rosen, Columbia Development Corporation	2006
1, 2, 3	400 Patroon Creek Blvd (New Building)	Medical	161,000	685	6,368	567	714		2006
1, 2, 3	Patroon Creek Developments	Office	410,000	----	3,577	580	538	State Campus Development Traffic Analysis	2000
1, 2, 3	1225 Washington Ave	Office	166,900-251,000	----	1,979 - 2,710	283 - 392	265 - 360	Hershberg Engineer's Report	2004
1, 2, 3	SEFCU	Office	101,710	318	1,351	190	193	Harriman Research and Technology Development Corporation	
1, 2, 3	SEFCU	Retail	7,660		1,272	n/a	n/a		
1, 2, 3	OGS	R&D	251,800	630	2,151	313	284		
1, 2, 3	OGS	Office	190,150	1,051	2,188	314	292		



Location 3: Inner/Outer Ring Interchange

Interchange allowing access between Inner and Outer Ring Roads.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Outer Ring WB Thru	Thru	4	N
Outer Ring WB to Inner Ring EB	Left	1	N
Inner Ring EB to Outer Ring WB	Left	1	N

TRANSIT

CDTA Route 12 Westbound - Route travels along Washington Avenue and loops around the Outer and Inner Ring Roads.

Stops: On Inner Ring eastbound at merge point from Outer Ring westbound.

Route	Name	Span*	Peak Headway**	Evening Headway	Saturday Headway	Sunday Headway
12	Washington Ave	17/7	15-30	0-15	15-30	30-60

* Span is the hours per day (Monday to Friday) / days per week service is provided

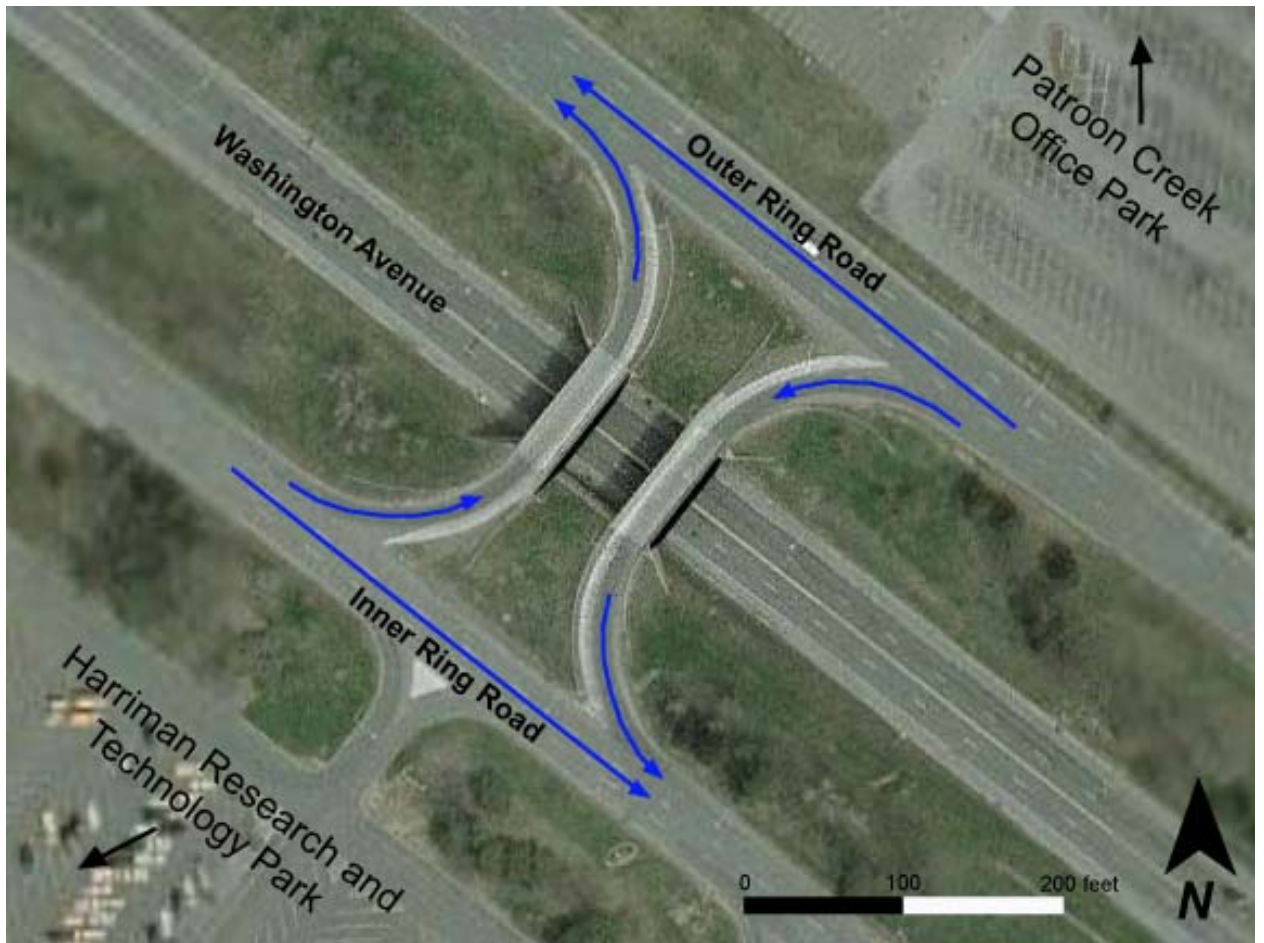
** Headway is the number of minutes between buses or trains

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N	Ped LOS
Outer Ring WB Thru	Thru	N	
Outer Ring WB to Inner Ring EB	Left	N	
Inner Ring EB to Outer Ring WB	Left	N	

PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source	Date
					Daily	AM Peak per Hour	PM Peak per Hour		
1, 2, 3	500 Patroon Creek Blvd (CDPHP)	Office	180,000	900	2097	300	280	Rich Rosen, Columbia Development Corporation	2006
1, 2, 3	400 Patroon Creek Blvd (New Building)	Medical	161,000	685	6,368	567	714		2006
1, 2, 3	Patroon Creek Developments	Office	410,000	----	3,577	580	538	State Campus Development Traffic Analysis	2000
1, 2, 3	1225 Washington Ave	Office	166,900-251,000	----	1,979 - 2,710	283 - 392	265 - 360	Hershberg Engineer's Report	2004
1, 2, 3	SEFCU	Office	101,710	318	1,351	190	193	Harriman Research and Technology Development Corporation	
1, 2, 3	SEFCU	Retail	7,660		1,272	n/a	n/a		
1, 2, 3	OGS	R&D	251,800	630	2,151	313	284		
1, 2, 3	OGS	Office	190,150	1,051	2,188	314	292		
3, 5, 6	Harriman Campus - Northwest Corner	Office / R&D	100,000	----	1,008	139	132	Harriman Campus Master Development Plan - Saratoga Associates	2006
		Office	70,000	----	917	141	147		
		Academic	70,000	----	4,000	500	450		
		Academic / R&D	60,000	----	660	89	86		
		Residential (1)	90,000	----	Need vehicles, persons, or dwelling units to calculate trips for housing				
		Residential (2)	90,000	----					
		Residential (3)	60,000	----					
		Hospitality/ Learning Center	150,000	----	n/a	400	350		
Retail (Parking Structures)	20,000	----	n/a	n/a	n/a				



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Location 4: I-90 Merge

Outer and Inner Ring Roads merge onto I-90, near the northwest corner of Harriman Research Technology Park.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Inner Ring NB to I-90	Right	2	N
Outer Ring WB to I-90	Left	1	N

TRANSIT

No Transit service in Location 4 – Closest Route: CDTA 12

Closest stops (via current roads and desire line):

- Washington Avenue and merge with Inner/Outer Ring Roads (approximately .15 miles south)

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Inner Ring NB to I-90	Right	N
Outer Ring WB to I-90	Left	N

PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source	Date
					Daily	AM Peak per Hour	PM Peak per Hour		
4, 6	1365 Washington Ave	Medical	78,000	307	2,974	267	346	Rich Rosen, Columbia Development Corporation	2006
4, 6	1367 Washington Ave	Medical	100,000	428	3,500	n/a	n/a		2006



Location 5: Washington Avenue and Outer Ring

Washington Avenue merges onto Outer Ring Road southbound.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Washington Ave EB to Outer Ring SB	Right	1	N
Outer Ring WB Thru onto Outer Ring SB	Thru	3	N

TRANSIT

No Transit service in Location 5 – Closes Route: CDTA 12

Closest stops (in a straight line from location):

- Washington Avenue and merge with Inner/Outer Ring Roads (approximately .28 miles east)
- Washington Avenue in front of Medical Arts center (approximately .16 miles west)
- No path via current roads to transit – Inner/Outer Rings pass under Washington Avenue

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Washington Ave EB to Outer Ring SB	Right	N
Outer Ring WB Thru onto Outer Ring SB	Thru	N

PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source	Date
					Daily	AM Peak per Hour	PM Peak per Hour		
5	1375 Washington Ave	Medical	59,000	230	1,800	n/a	n/a	Rich Rosen, Columbia Development Corporation	2006
3, 5, 6	Harriman Campus - Northwest Corner	Office / R&D	100,000	----	1,008	139	132	Harriman Campus Master Development Plan - Saratoga Associates	2006
		Office	70,000	----	917	141	147		
		Academic	70,000	----	4,000	500	450		
		Academic / R&D	60,000	----	660	89	86		
		Residential (1)	90,000	----	Need vehicles, persons, or dwelling units to calculate trips for housing				
		Residential (2)	90,000	----					
		Residential (3)	60,000	----					
		Hospitality/ Learning Center	150,000	----	n/a	400	350		
		Retail (Parking Structures)	20,000	----	n/a	n/a	n/a		



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Location 6: Inner Ring Split

I-90 traffic splits off of Inner Ring.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Inner Ring NB to I-90		1	N
Inner Ring NB Thru onto Inner Ring EB	Thru	3	N

TRANSIT

No Transit service in Location 6 – Closes Route: CDTA 12

Closest stops (in a straight line from location):

- Washington Avenue and merge with Inner/Outer Ring Roads (approximately .14 miles east)
- Washington Avenue in front of Medical Arts center (approximately .2 miles west)
- No path via current roads to transit – Inner/Outer Rings pass under Washington Avenue

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Inner Ring NB to I-90		N
Inner Ring NB Thru onto Inner Ring EB	Thru	N

PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source	Date
					Daily	AM Peak per Hour	PM Peak per Hour		
4, 6	1365 Washington Ave	Medical	78,000	307	2,974	267	346	Rich Rosen, Columbia Development Corporation	2006
4, 6	1367 Washington Ave	Medical	100,000	428	3,500	n/a	n/a		2006
3, 5, 6	Harriman Campus - Northwest Corner	Office / R&D	100,000	----	1,008	139	132	Harriman Campus Master Development Plan - Saratoga Associates	2006
		Office	70,000	----	917	141	147		
		Academic	70,000	----	4,000	500	450		
		Academic / R&D	60,000	----	660	89	86		
		Residential (1)	90,000	----	Need vehicles, persons, or dwelling units to calculate trips for housing				
		Residential (2)	90,000	----					
		Residential (3)	60,000	----					
		Hospitality/ Learning Center	150,000	----	n/a	400	350		
Retail (Parking Structures)	20,000	----	n/a	n/a	n/a				



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Location 7: Outer Ring South

Outer Ring Road around southwest corner of Harriman Research and Technology Park. Interchange point allowing access between Inner Ring northbound to Outer Ring southbound.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Outer Ring SB onto Outer Ring EB	Thru	3	N
Inner Ring NB to Outer Ring SB	Left	1	N

TRANSIT

No Transit service in Location 7 – Closest Route: CDTA 10, 11; UAlbany Shuttle on Western Avenue

Closest Stops (via current roads):

- Outer Ring and Hillcrest Avenue (approximately .46 miles east)
- Western between Tudor and Clarendon (approximately .43 miles south)
- No Transit service along western side of Harriman Campus

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Outer Ring SB onto Outer Ring EB	Thru	N
Inner Ring NB to Outer Ring SB	Left	N

PROPOSED DEVELOPMENTS - None



Location 8: Washington Ave. and Fuller Rd.

Four-way intersection of Washington Avenue and Fuller Road, by Nanotech campus.

ROAD DATA

September 2006

AM Peak Hour volume = 3,792 AM Peak Intersection LOS = D

EB = D

WB = C

NB = E

SB = D

PM Hour volume = 5,378

PM Peak Intersection LOS = E

EB = E

WB = D

NB = F

SB = D

TRANSIT

CDTA Route 12: Runs along Washington Avenue

Stops: Washington Avenue just east of Fuller Road – both directions

CDTA Route 90: Runs along Washington Avenue

Stops: Washington Avenue just east of Fuller Road – both directions

Route	Name	Span*	Peak Headway**	Evening Headway	Saturday Headway	Sunday Headway
12	Washington Ave	18/7	15-30	0-15	15-30	30-60
90	Troy/Lantham/Crossgates	15/6	30-60	30-60	30-60	NA

* Span is the hours per day (Monday to Friday) / days per week service is provided

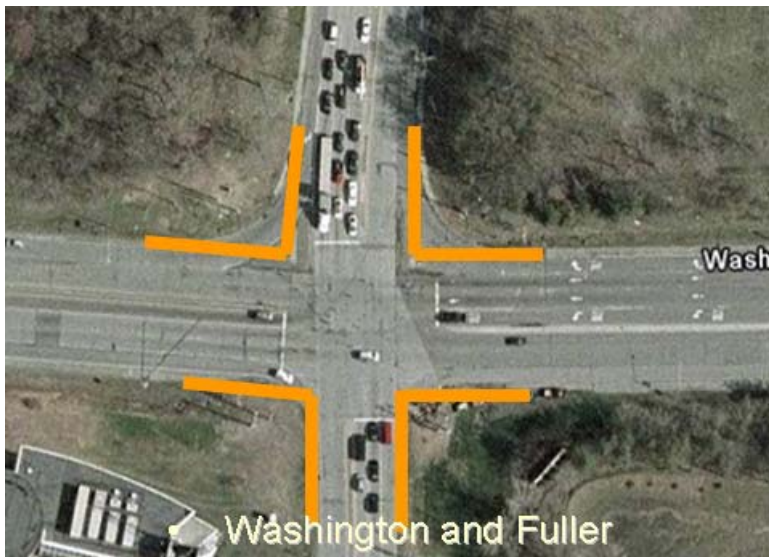
** Headway is the number of minutes between buses or trains

NON-MOTORIZED

Pedestrian LOS = F (Likelihood of noncompliance is *Very High* though conflicting volumes should reduce noncompliance)

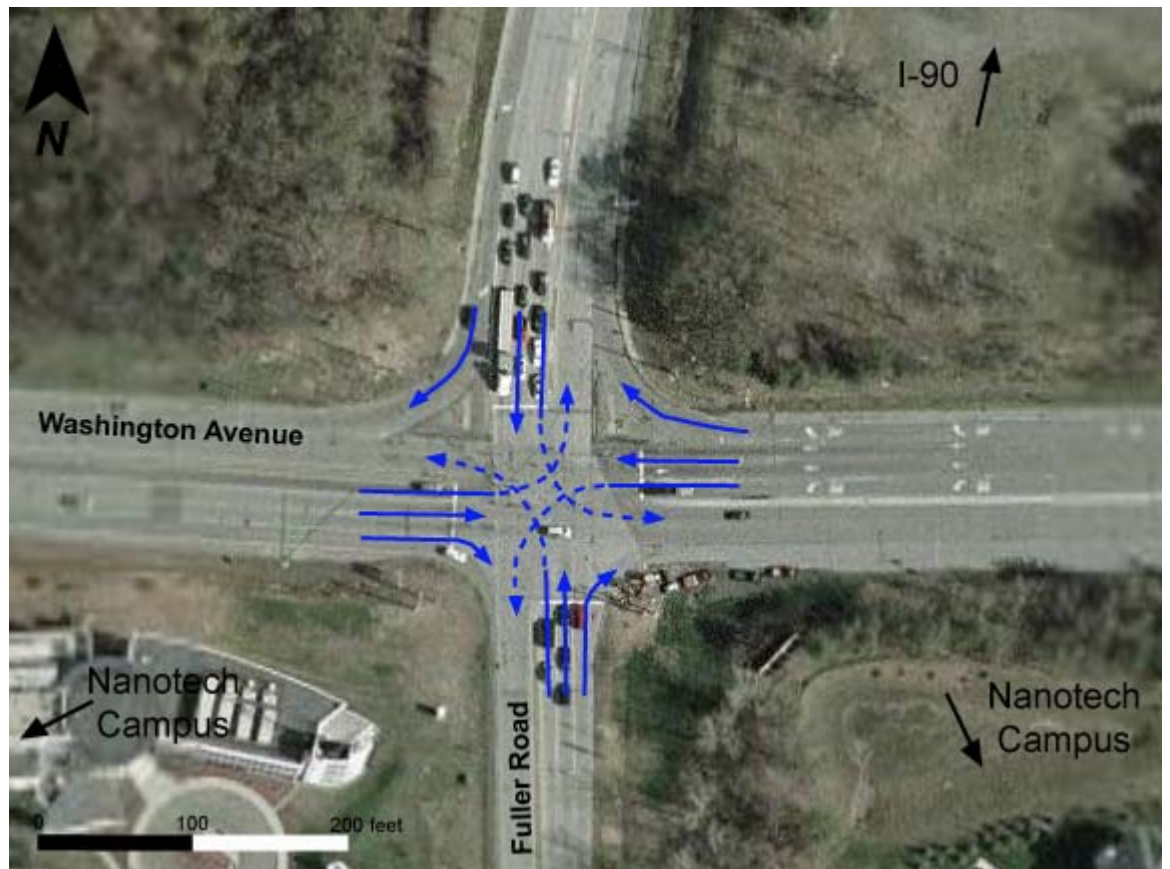
- Pedestrian delay > 60 seconds (83 seconds at max. cycle length)
- Exclusive pedestrian operation (traffic stops if operation is activated) – 7 seconds of Walk followed by 25 seconds of clearance = 32 seconds total

ACCESS MANAGEMENT – 100 feet from signalized intersections



PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips		
					Daily	AM Peak per Hour	PM Peak per Hour
8	Nanotech	R & D	220,000	----	1,925	278	253



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Location 9: Washington Ave. and UAlbany/ I-90 (Exit 2)

Allows traffic onto I-90 eastbound, and connects Washington Avenue to University Drive.

ROAD DATA

September 2006

AM Peak Hour volume = 3,258 AM Peak Intersection LOS = D

EB = D

WB = E

NB = E

SB = D

PM Peak Hour volume = 3,748 PM Peak Intersection LOS = F

EB = F

WB = F

NB = F

SB = E

TRANSIT

CDTA Route 12: Runs along Washington Avenue

CDTA Route 90: Runs along Washington Avenue

No transit service in Location 9 – CDTA 12, 90 do not stop in this location

Closest stops (via current roads):

- Washington and Fuller (approximately .34 miles west)
- Washington east of Collins Circle (approximately .4 miles east)

Route	Name	Span*	Peak Headway**	Evening Headway	Saturday Headway	Sunday Headway
12	Washington Ave	18/7	15-30	0-15	15-30	30-60
90	Troy/Lantham/Crossgates	15/6	30-60	30-60	30-60	NA

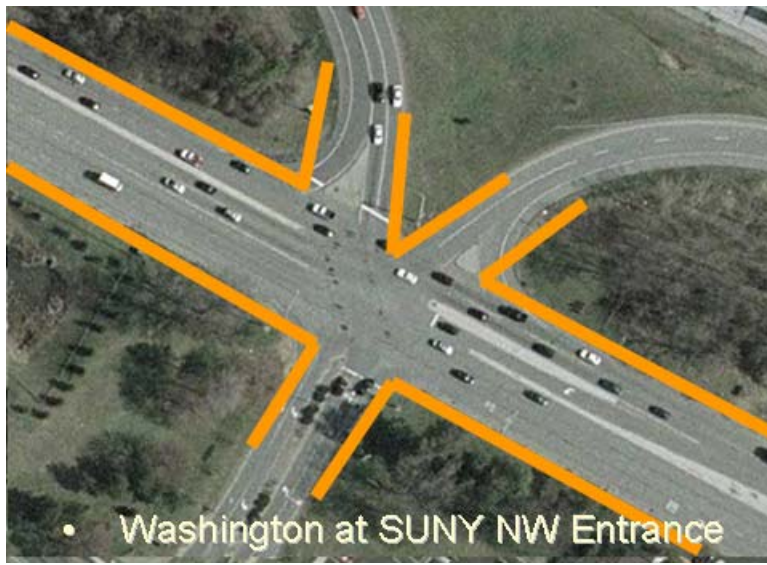
* Span is the hours per day (Monday to Friday) / days per week service is provided

** Headway is the number of minutes between buses or trains

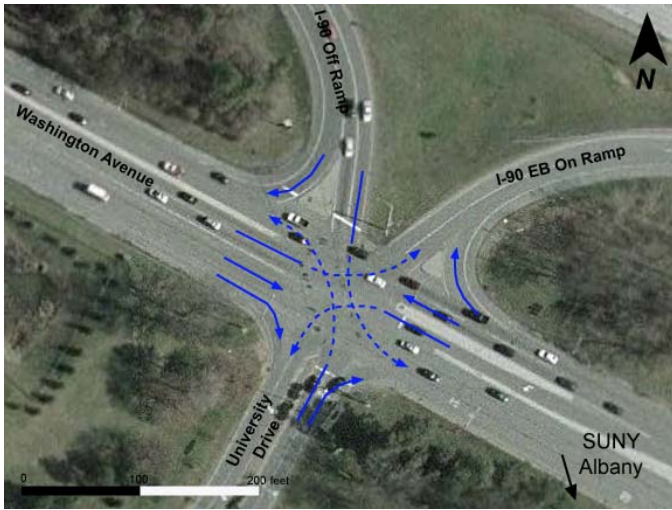
NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Washington WB to I-90 EB	Right	N
Washington WB to University Drive	Left	N
Washington WB Thru	Thru	N
I-90 EB to Washington WB	Right	N
I-90 EB to Washington EB	Left	N
I-90 EB Thru to University Drive	Thru	N
Washington EB to University Drive	Right	N
Washington EB to I-90 EB	Left	N
Washington EB Thru	Thru	N
University Drive to Washington EB	Right	N
University Drive to Washington WB	Left	N
University Drive Thru to I-90 EB	Thru	N

ACCESS MANAGEMENT – 100 feet from signalized intersections



PROPOSED DEVELOPMENTS – None



Location 10: 85 Overpass

Outer Ring passes over 85 and connects with Belvidere and Brevator.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Outer Ring EB to Belvidere EB	Right	----	N
Outer Ring EB Thru to Outer Ring NB	Thru	3	N
Outer Ring EB to Brevator NB	Left	----	N
85 NB to Belvidere EB	Right	----	N
85 NB Thru to Outer Ring NB	Thru	1	N
Brevator NB to Belvidere EB	Right	----	N
Brevator NB Thru	Thru	1	N
Brevator SB to Belvidere EB	Left	----	N
Brevator SB Thru	Thru	1	N

TRANSIT

No transit service in Location 10 – Closest routes: CDTA 10, 11; UAlbany Shuttle Western Avenue

Closest Stops (via current roads):

- Outer Ring Road and Hillcrest Avenue (approximately .34 miles west)
- Western Avenue and Seminole (approximately .22 miles south)

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Outer Ring EB to Belvidere EB	Right	Y
Outer Ring EB Thru to Outer Ring NB	Thru	Y
Outer Ring EB to Brevator NB	Left	Y
85 NB to Belvidere EB	Right	N
85 NB Thru to Outer Ring NB	Thru	N
Brevator NB to Belvidere EB	Right	Y
Brevator NB Thru	Thru	Y
Brevator SB to Belvidere EB	Left	N
Brevator SB Thru	Thru	N

PROPOSED DEVELOPMENTS – None



Location 11: Fuller and Western

T-intersection of Fuller and Western. Also provides access to parking lot.

ROAD DATA

Approach	Turn Direction	# of Lanes	Signal
Fuller SB to Western WB	Right	1	Y
Fuller SB to Western EB	Left	1	Y
Fuller SB Thru to parking lot	Thru	1	Y
Western EB to parking lot	Right	----	Y
Western EB to Fuller NB	Left	1	Y
Western EB Thru	Thru	2	Y
parking lot to Western EB	Right	----	Y
parking lot to Western WB	Left	----	Y
parking lot Thru to Fuller NB	Thru	1	Y
Western WB to Fuller NB	Right	1	Y
Western WB to parking lot	Left	----	Y
Western WB Thru	Thru	2	Y

TRANSIT

CDTA Route 11 Supplemental – runs along Western Avenue

Stop: On Western between Fuller and Stuyvesant Plaza Blvd – both directions

CTA Route 10 – runs along Western Avenue

Stop: Western at Stuyvesant Plaza Blvd – both directions

Route	Name	Span*	Peak Headway**	Evening Headway	Saturday Headway	Sunday Headway
11 Supplemental	Ualbany Shuttle	17.5/7	15-30	15-30	15-30	15-30
10	Western Avenue	18/7	0-15	15-30	15-30	30-60

* Span is the hours per day (Monday to Friday) / days per week service is provided

** Headway is the number of minutes between buses or trains

NON-MOTORIZED

Approach	Turn Direction	Sidewalk Y or N
Fuller SB to Western WB	Right	N
Fuller SB to Western EB	Left	N
Fuller SB Thru to parking lot	Thru	N
Western EB to parking lot	Right	Y
Western EB to Fuller NB	Left	Y
Western EB Thru	Thru	Y
parking lot to Western EB	Right	Y
parking lot to Western WB	Left	Y
parking lot Thru to Fuller NB	Thru	Y
Western WB to Fuller NB	Right	Y
Western WB to parking lot	Left	Y
Western WB Thru	Thru	Y

ACCESS MANAGEMENT – 100 feet form signalized intersection



PROPOSED DEVELOPMENTS

Locations Affected	Name of Development/ Institution	Type	Square Feet	Proposed # of Parking Spaces	Projected Trips			Source
					Daily	AM Peak per Hour	PM Peak per Hour	
1	Stuyvesant Plaza	Retail	235,000	800-1,000	11,834	n/a	n/a	Stuyvesant Plaza Business Administration Office

