

**APPENDIX E:  
TRAFFIC AND TRANSPORTATION**

# HCS7 Freeway Facilities Report

## Project Information

Analyst	UP	Date	7/11/2024
Agency	Simco	Analysis Year	2024
Jurisdiction	NYS DOT	Time Period Analyzed	No Build PM Peak Hour
Project Description	DASNY Wadsworth Consolidated Labs EIS	Unit	United States Customary

## Facility Global Input

Jam Density, pc/mi/ln	190.0	Density at Capacity, pc/mi/ln	45.0
Queue Discharge Capacity Drop, %	7	Total Segments	7
Total Time Periods	1	Time Period Duration, min	15
Facility Length, mi	1.15		

## Facility Segment Data

No.	Coded	Analyzed	Name	Length, ft	Lanes
1	Basic	Basic	I-90 WB	541	3
2	Diverge	Diverge	I-90 WB Exist 4 off ramp to NY 85 SB	1007	3
3	Basic	Basic	I-90 WB	140	3
4	Weaving	Weaving	I-90 WB from NY 85 NB and Exist 3 to Campus Access Rd	2060	4
5	Basic	Basic	I-90 WB	35	3
6	Merge	Basic	I-90 WB from Campus Access Rd	1283	4
7	Basic	Basic	I-90 WB	1000	4

## Facility Segment Data

### Segment 1: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.96	0.971	5456	6750	0.81	55.0	33.1	D

### Segment 2: Diverge

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.96	0.96	0.971	0.990	5456	1110	6750	1900	0.81	0.58	50.2	47.3	36.2	31.5	D

### Segment 3: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.96	0.971	4324	6750	0.64	53.1	26.2	D

### Segment 4: Weaving

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.96	0.971	5657	7744	0.73	38.9	36.4	E

### Segment 5: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.92	0.971	5633	6750	0.83	52.0	34.3	D

### Segment 6: Merge

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.92	0.81	0.971	1.000	7273	1640	9000	2000	0.81	0.82	54.0	55.0	33.1	33.1	D

### Segment 7: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.92	0.971	7120	9000	0.79	54.8	32.4	D

### Facility Time Period Results

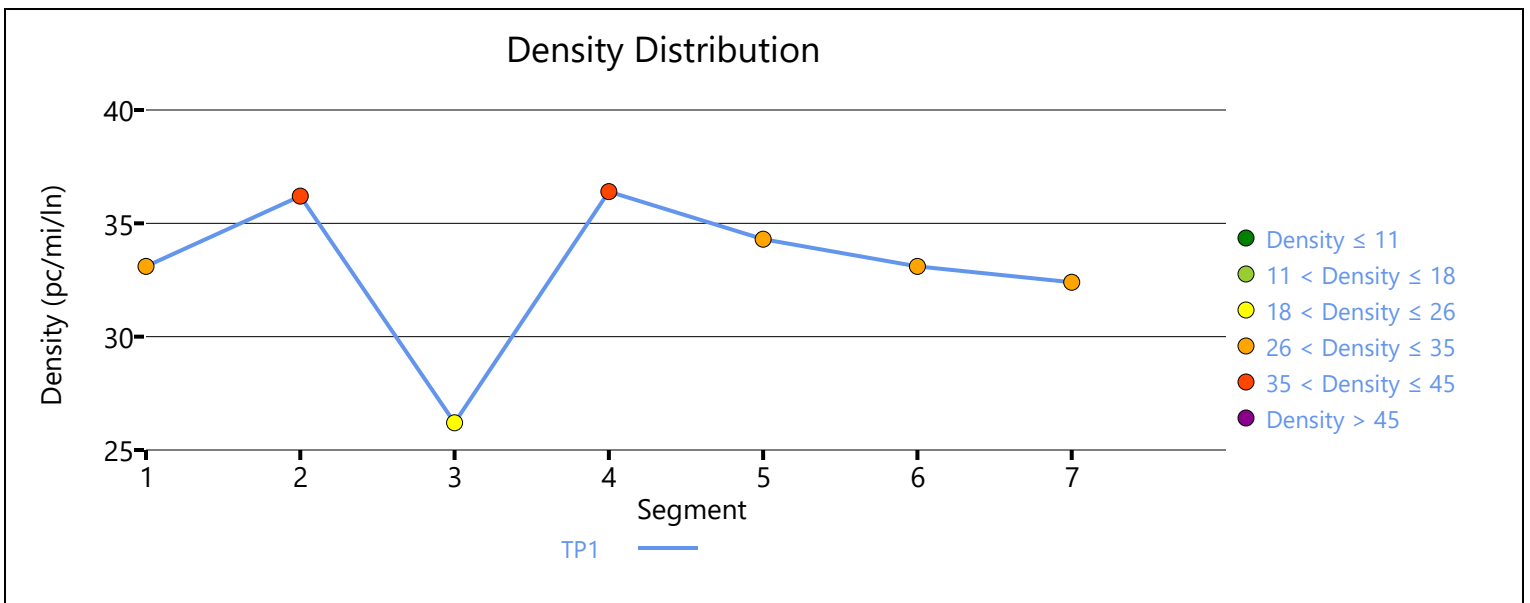
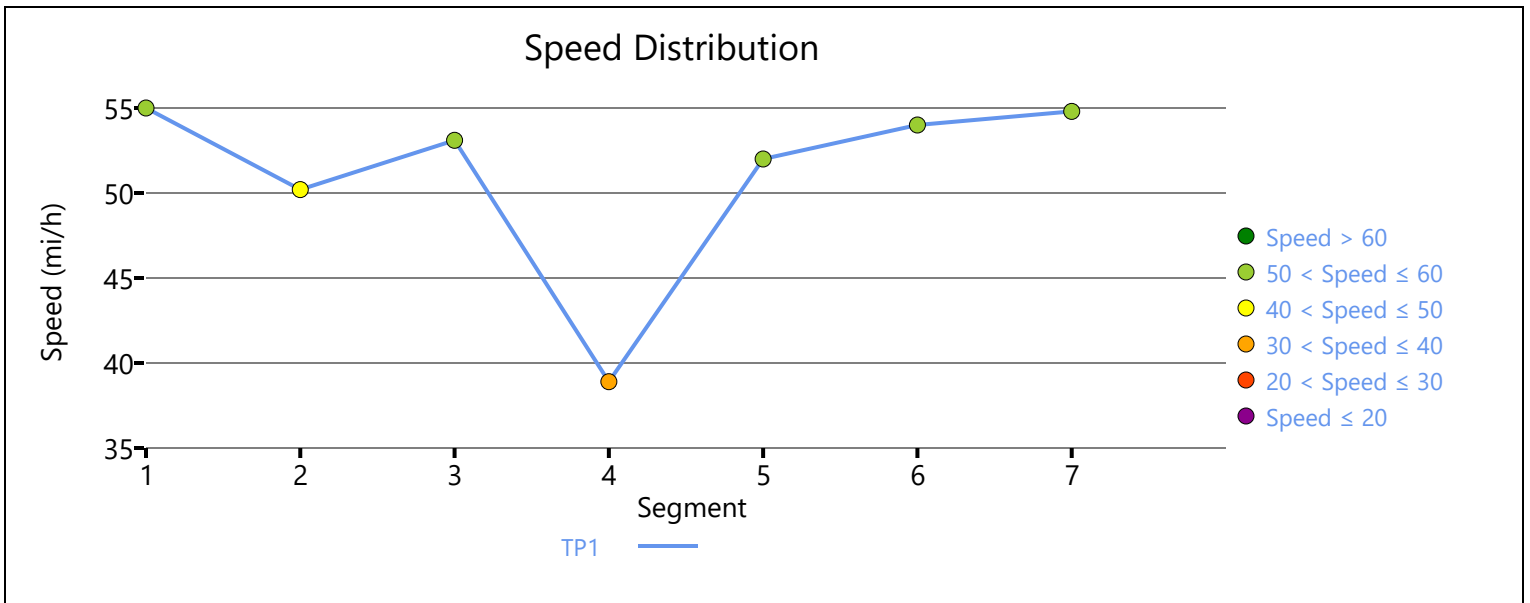
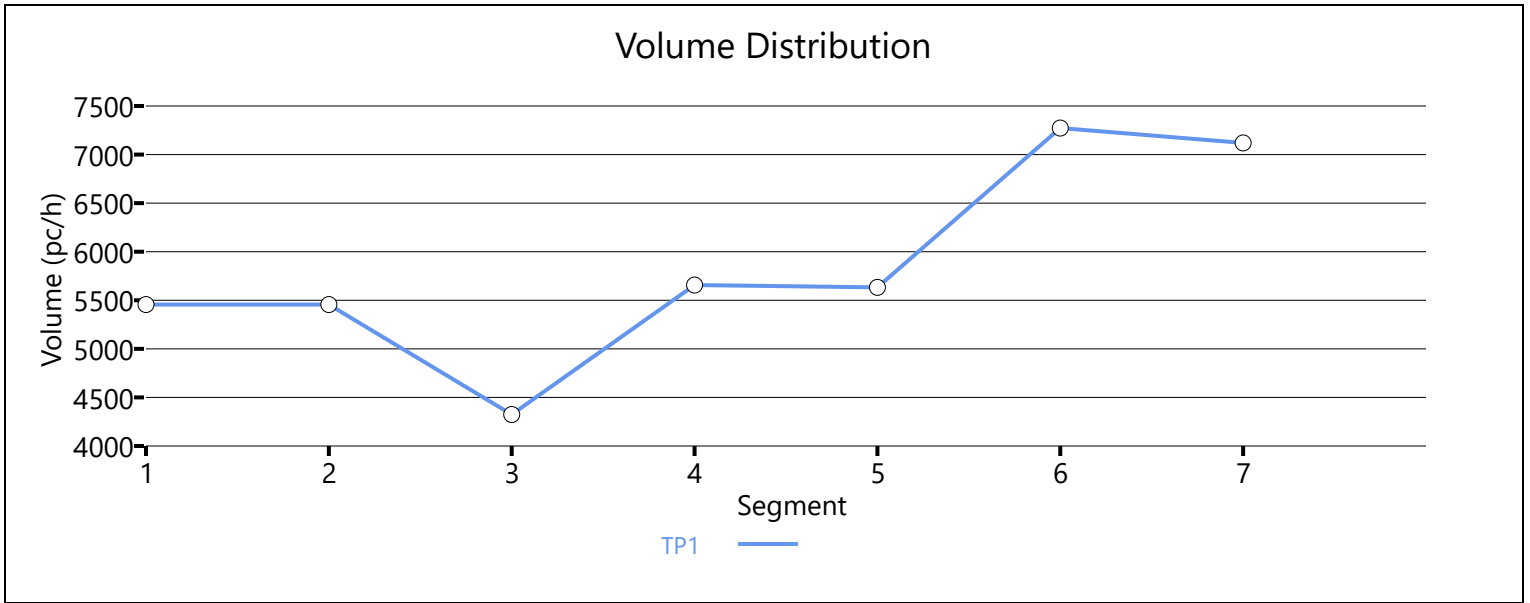
T	Speed, mi/h	Density, pc/mi/ln	Density, veh/mi/ln	Travel Time, min	LOS
1	47.8	34.5	33.0	1.40	D

### Facility Overall Results

Space Mean Speed, mi/h	47.8	Density, veh/mi/ln	33.0
Average Travel Time, min	1.40	Density, pc/mi/ln	34.5

### Messages

### Comments





# HCS7 Freeway Facilities Report

## Project Information

Analyst	UP	Date	7/11/2024
Agency	Simco	Analysis Year	2024
Jurisdiction	NYS DOT	Time Period Analyzed	Build PM Peak Hour
Project Description	DASNY Wadsworth Consolidated Labs EIS	Unit	United States Customary

## Facility Global Input

Jam Density, pc/mi/ln	190.0	Density at Capacity, pc/mi/ln	45.0
Queue Discharge Capacity Drop, %	7	Total Segments	7
Total Time Periods	1	Time Period Duration, min	15
Facility Length, mi	1.15		

## Facility Segment Data

No.	Coded	Analyzed	Name	Length, ft	Lanes
1	Basic	Basic	I-90 WB	541	3
2	Diverge	Diverge	I-90 WB Exist 4 off ramp to NY 85 SB	1007	3
3	Basic	Basic	I-90 WB	140	3
4	Weaving	Weaving	I-90 WB from NY 85 NB and Exist 3 to Campus Access Rd	2060	4
5	Basic	Basic	I-90 WB	35	3
6	Merge	Basic	I-90 WB from Campus Access Rd	1283	4
7	Basic	Basic	I-90 WB	1000	4

## Facility Segment Data

### Segment 1: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.96	0.971	5456	6750	0.81	55.0	33.1	D

### Segment 2: Diverge

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.96	0.96	0.971	0.990	5456	1110	6750	1900	0.81	0.58	50.2	47.3	36.2	31.5	D

### Segment 3: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.96	0.971	4324	6750	0.64	53.1	26.2	D

### Segment 4: Weaving

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.96	0.971	5657	7744	0.73	38.9	36.4	E

### Segment 5: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.92	0.971	5633	6750	0.83	52.0	34.3	D

### Segment 6: Merge

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.92	0.81	0.971	1.000	7581	1948	9000	2000	0.84	0.97	54.0	54.8	34.6	34.6	D

### Segment 7: Basic

Time Period	PHF	fHV	Flow Rate (pc/h)	Capacity (pc/h)	d/c Ratio	Speed (mi/h)	Density (pc/mi/ln)	LOS
1	0.92	0.971	7399	9000	0.82	54.8	33.7	D

### Facility Time Period Results

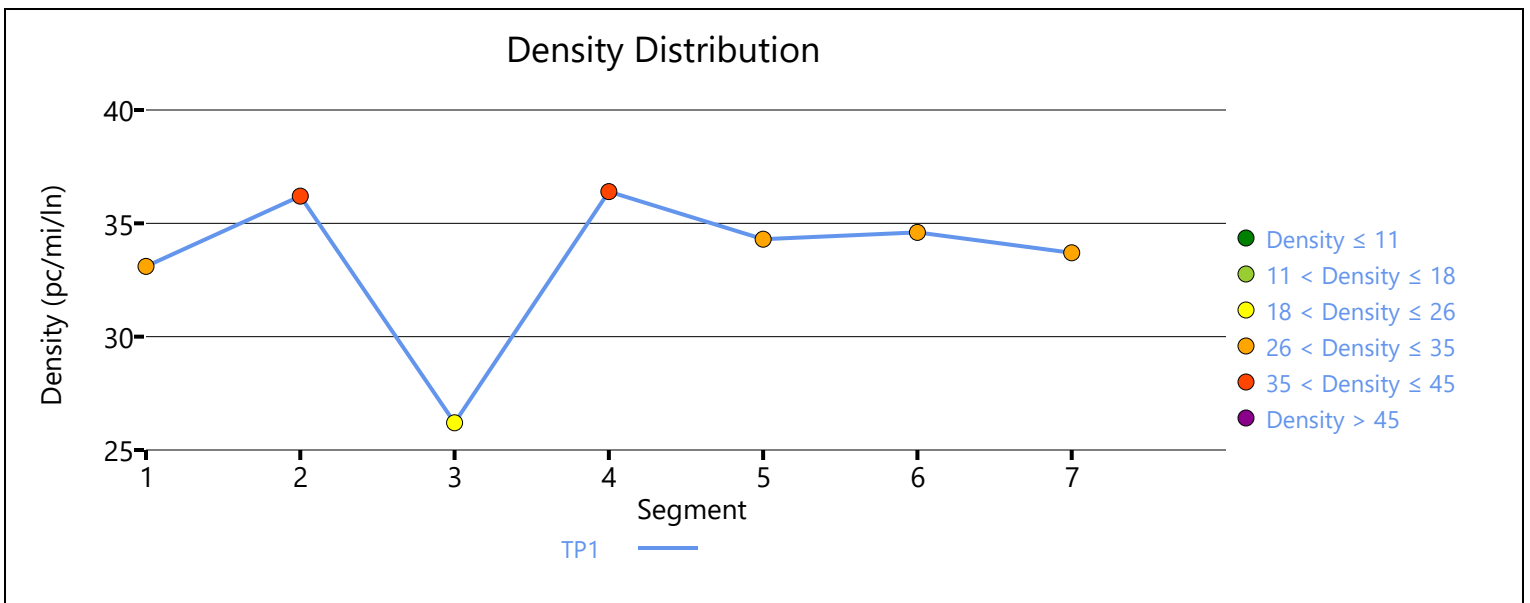
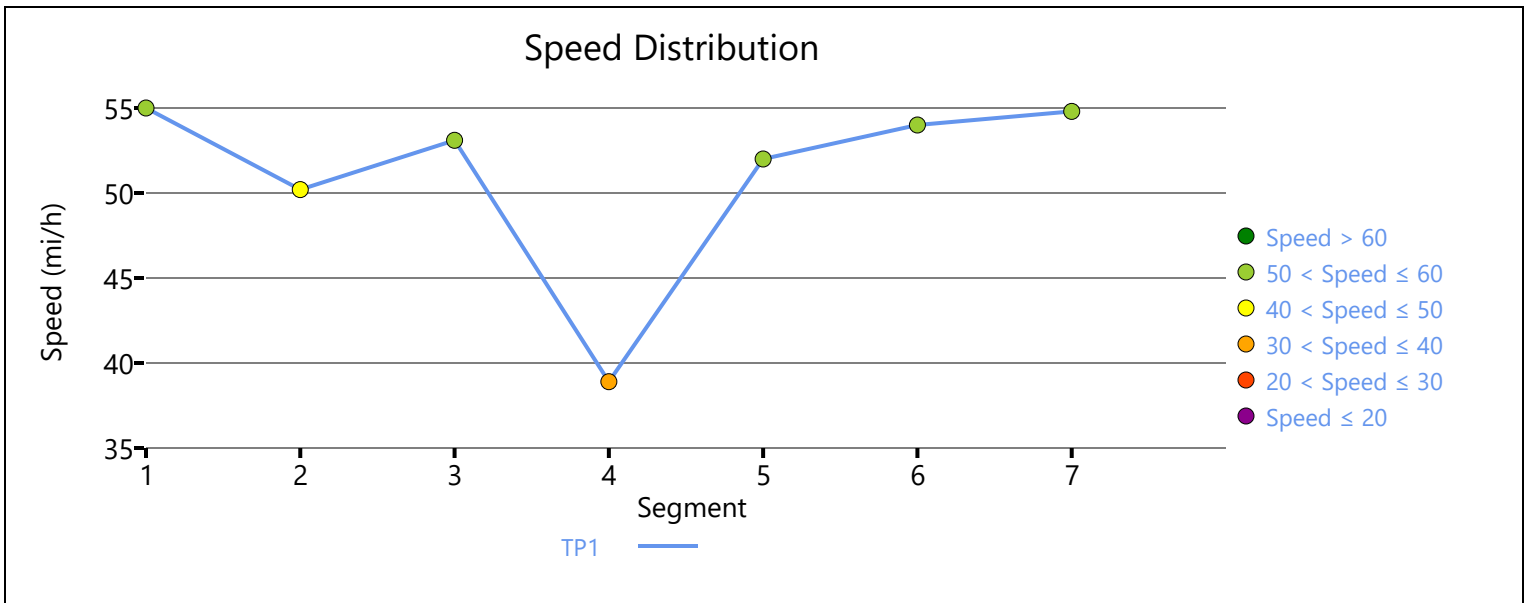
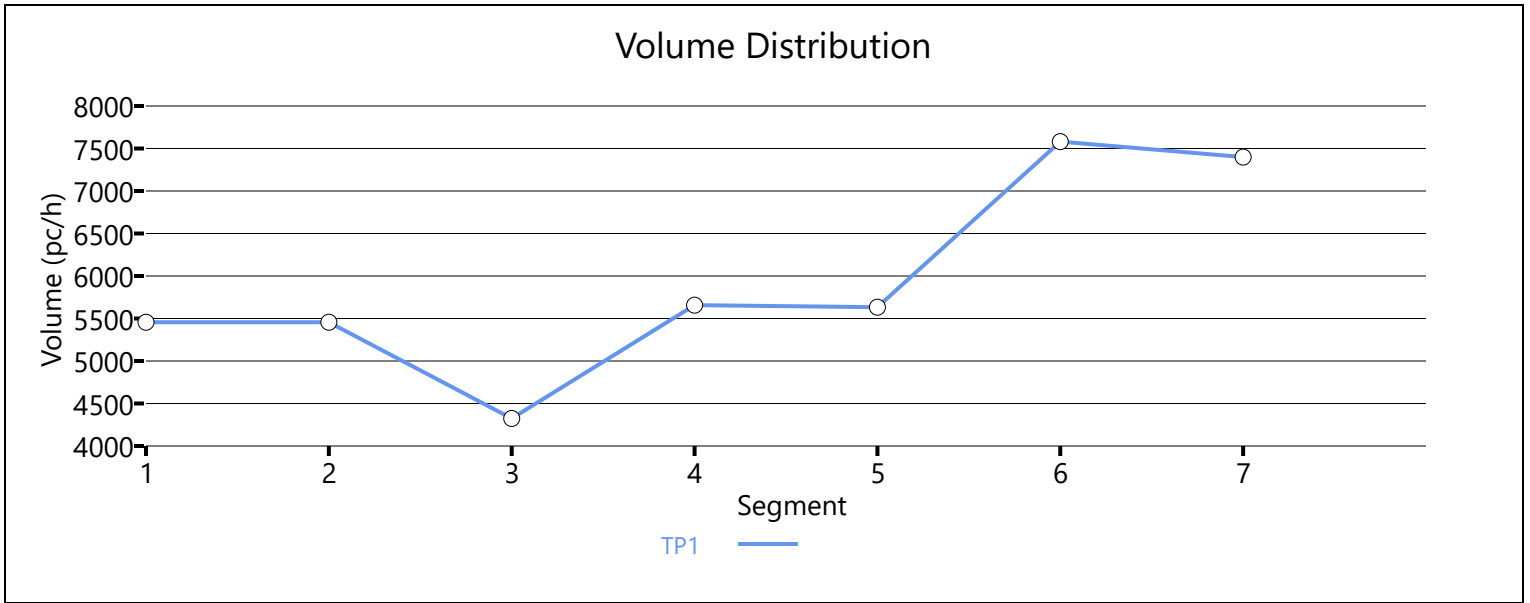
T	Speed, mi/h	Density, pc/mi/ln	Density, veh/mi/ln	Travel Time, min	LOS
1	47.9	35.1	33.5	1.40	E

### Facility Overall Results

Space Mean Speed, mi/h	47.9	Density, veh/mi/ln	33.5
Average Travel Time, min	1.40	Density, pc/mi/ln	35.1

### Messages

### Comments



# HCS7 Freeway Facilities Report

## Project Information

Analyst	up	Date	7/10/2024
Agency	Simco	Analysis Year	2024
Jurisdiction	NY 85 NB	Time Period Analyzed	Existing AM Peak Hour
Project Description	DASNY Wadsworth Consolidated Lab EIS	Unit	United States Customary

## Facility Global Input

Jam Density, pc/mi/ln	190.0	Density at Capacity, pc/mi/ln	45.0
Queue Discharge Capacity Drop, %	7	Total Segments	11
Total Time Periods	1	Time Period Duration, min	15
Facility Length, mi	1.92		

## Facility Segment Data

No.	Coded	Analyzed	Name	Length, ft	Lanes
1	Basic	Basic	NY 85 NB	1200	2
2	Diverge	Diverge	NY 85 NB off ramp to Cortland St. (201)	673	2
3	Basic	Basic	NY 85	100	2
4	Weaving	Weaving	NY 85 NB on ramp from Cortland St. and off ramp to Belvidere Ave. (201)	2109	3
5	Basic	Basic	NY 85	1751	2
6	Merge	Merge	NY 84 NB on ramp from Brevator St. (205)	335	2
7	Weaving	Weaving	NY 85 NB on ramp from Washington Ave. and off ramp to Lincoln Ave. (206)	1925	3
8	Basic	Basic	NY 85	103	2
9	Merge	Merge	NY 85 NB on ramp from Lincoln Ave. (209)	502	2
10	Diverge	Diverge	To I-90 EB and WB ramps. (210)	502	2
11	Basic	Basic	From NY 85 ramp to WB I-90	938	2

## Facility Segment Data

### Segment 1: Basic

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.86		0.980		2804		4500		0.62		55.0		25.5		C

### Segment 2: Diverge

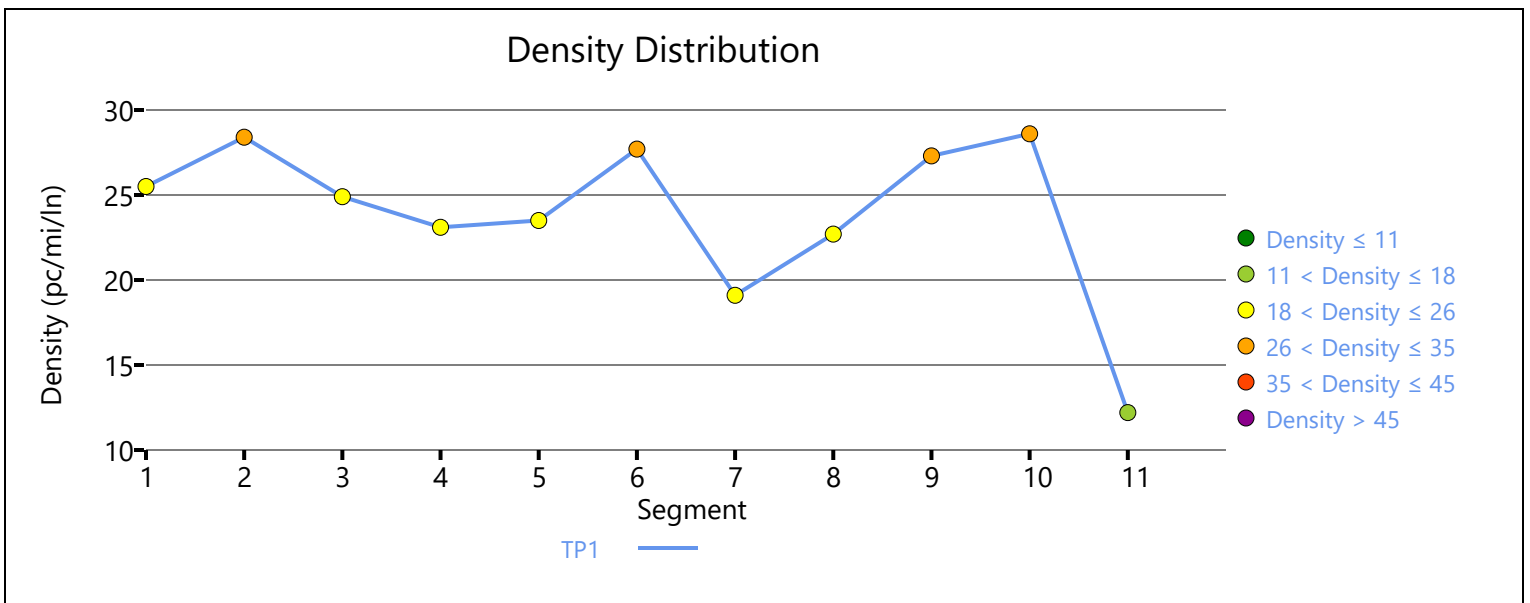
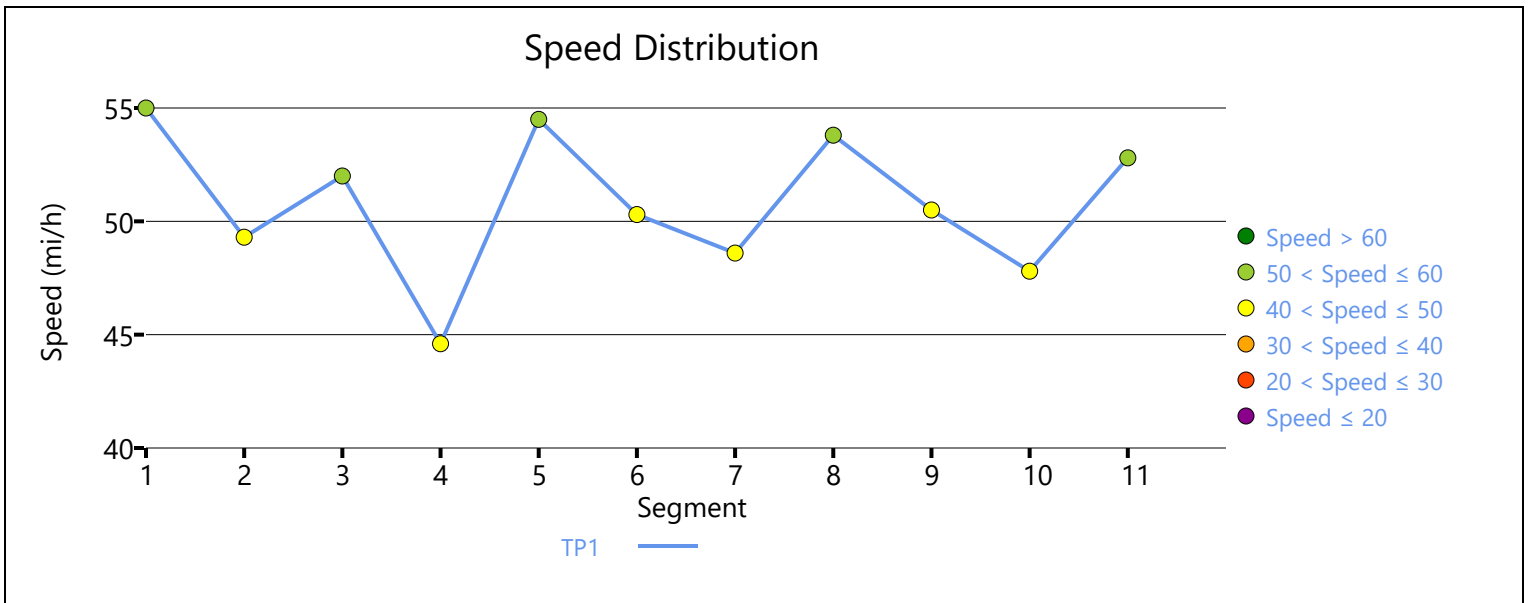
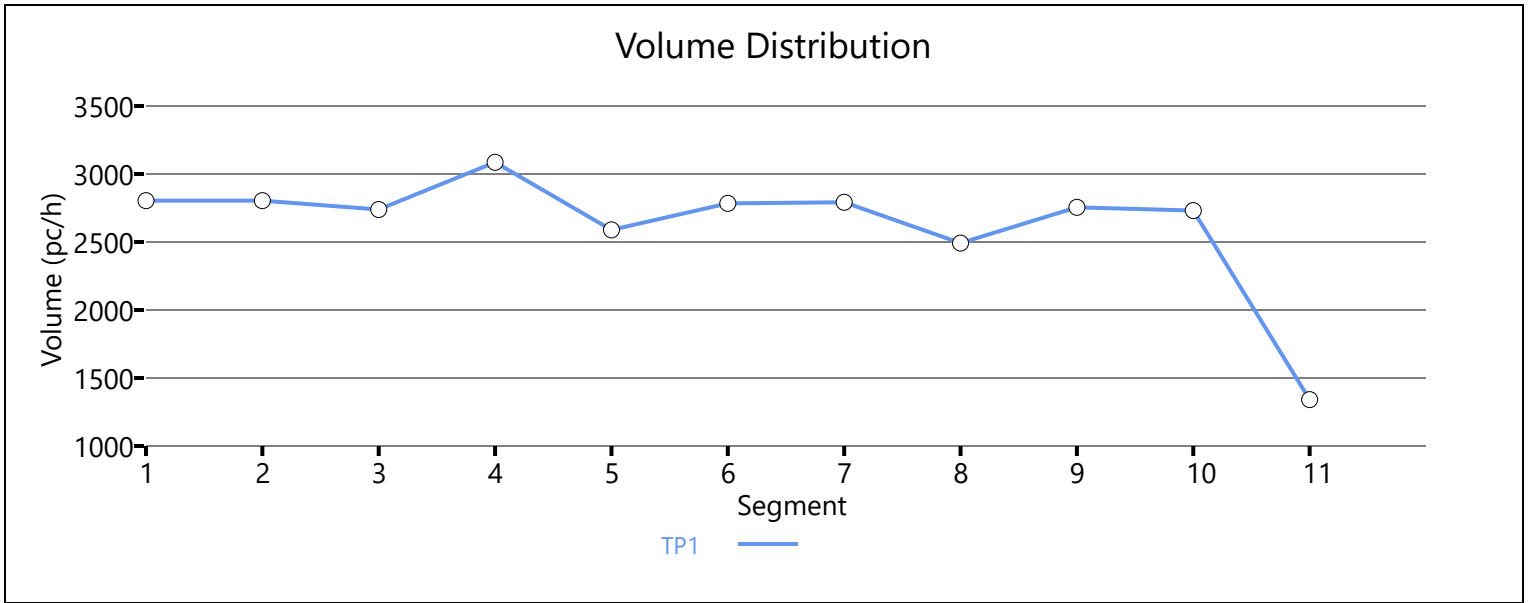
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.86	0.86	0.980	0.952	2804	99	4500	2000	0.62	0.05	49.3	49.3	28.4	26.0	C

### Segment 3: Basic

Time	PHF		fHV		Flow Rate		Capacity		d/c		Speed		Density		LOS
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Period			(pc/h)		(pc/h)		Ratio		(mi/h)		(pc/mi/ln)				
1	0.85	0.980	2739		4500		0.61		52.0		24.9		C		
<b>Segment 4: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.85	0.980	3086		5805		0.53		44.6		23.1		C		
<b>Segment 5: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.85	0.980	2589		4500		0.58		54.5		23.5		C		
<b>Segment 6: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.87	0.94	0.980	0.990	2784	254	4500	2000	0.62	0.13	50.3	50.3	27.7	25.3	C
<b>Segment 7: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.88	0.980	2792		6120		0.46		48.6		19.1		B		
<b>Segment 8: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.90	0.980	2492		4500		0.55		53.8		22.7		C		
<b>Segment 9: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.90	0.81	0.980	0.990	2755	263	4500	2000	0.61	0.13	50.5	50.5	27.3	23.8	C
<b>Segment 10: Diverge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.90	0.90	0.980	0.980	2731	1390	4500	4000	0.61	0.35	47.8	47.8	28.6	18.7	B
<b>Segment 11: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.90	0.980	1341		4500		0.30		52.8		12.2		B		
<b>Facility Time Period Results</b>															
T	Speed, mi/h		Density, pc/mi/ln		Density, veh/mi/ln		Travel Time, min		LOS						
1	49.6		22.4		20.6		2.30		C						
<b>Facility Overall Results</b>															
Space Mean Speed, mi/h			49.6			Density, veh/mi/ln			20.6						

Average Travel Time, min	2.30	Density, pc/mi/ln	22.4
<b>Messages</b>			
<b>Comments</b>			



# HCS7 Freeway Facilities Report

## Project Information

Analyst	up	Date	7/17/2024
Agency	Simco	Analysis Year	2024
Jurisdiction	NY 85 NB	Time Period Analyzed	No Build AM Peak Hour
Project Description	DASNY Wadsworth Consolidated Lab EIS	Unit	United States Customary

## Facility Global Input

Jam Density, pc/mi/ln	190.0	Density at Capacity, pc/mi/ln	45.0
Queue Discharge Capacity Drop, %	7	Total Segments	11
Total Time Periods	1	Time Period Duration, min	15
Facility Length, mi	1.92		

## Facility Segment Data

No.	Coded	Analyzed	Name	Length, ft	Lanes
1	Basic	Basic	NY 85 NB	1200	2
2	Diverge	Diverge	NY 85 NB off ramp to Cortland St. (201)	673	2
3	Basic	Basic	NY 85	100	2
4	Weaving	Weaving	NY 85 NB on ramp from Cortland St. and off ramp to Belvidere Ave. (201)	2109	3
5	Basic	Basic	NY 85	1751	2
6	Merge	Merge	NY 84 NB on ramp from Brevator St. (205)	335	2
7	Weaving	Weaving	NY 85 NB on ramp from Washington Ave. and off ramp to Lincoln Ave. (206)	1925	3
8	Basic	Basic	NY 85	103	2
9	Merge	Merge	NY 85 NB on ramp from Lincoln Ave. (209)	502	2
10	Diverge	Diverge	To I-90 EB and WB ramps. (210)	502	2
11	Basic	Basic	From NY 85 ramp to WB I-90	938	2

## Facility Segment Data

### Segment 1: Basic

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.86		0.980		2887		4500		0.64		55.0		26.3		D

### Segment 2: Diverge

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.86	0.86	0.980	0.952	2887	101	4500	2000	0.64	0.05	49.3	49.3	29.3	26.7	C

### Segment 3: Basic

Time	PHF		fHV		Flow Rate		Capacity		d/c		Speed		Density		LOS
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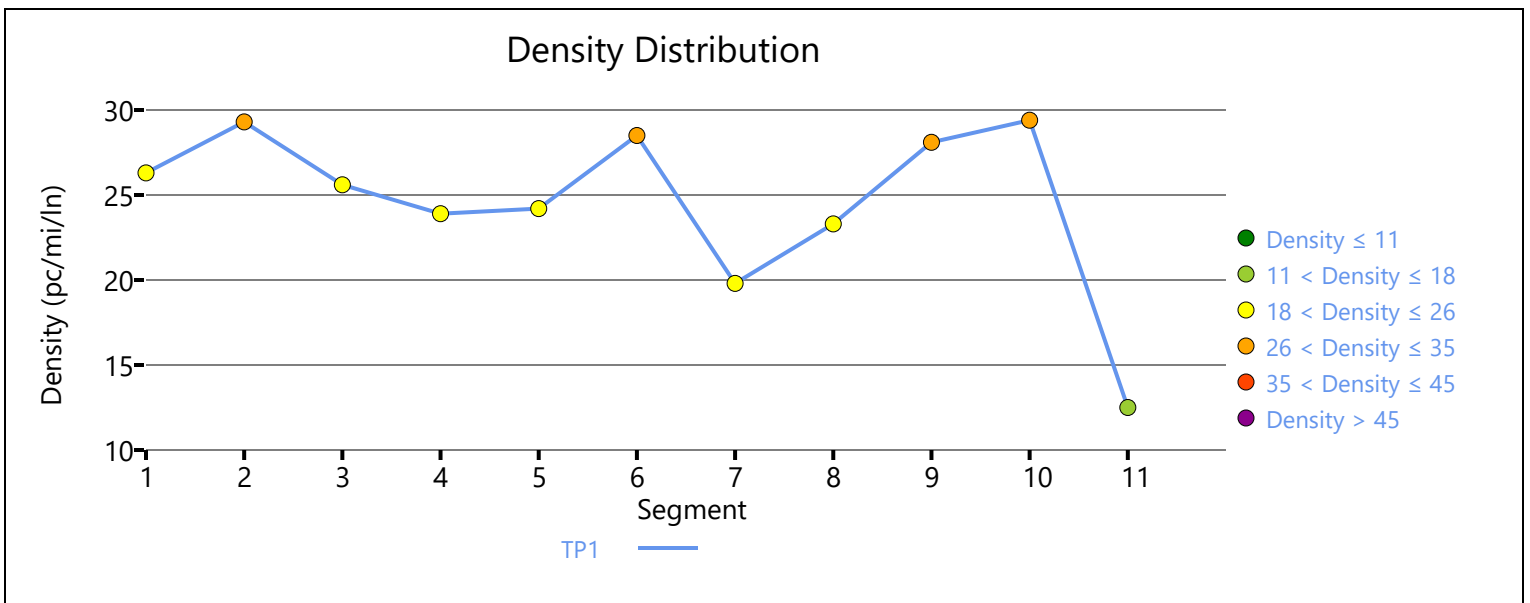
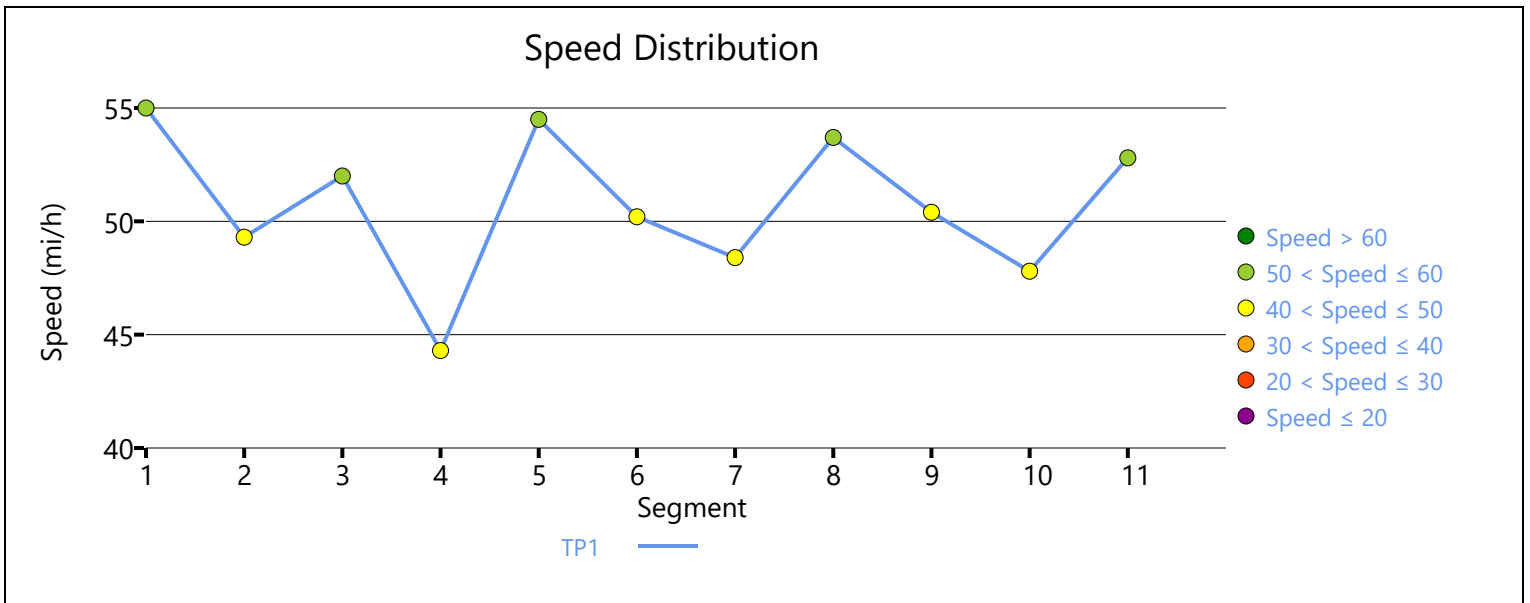
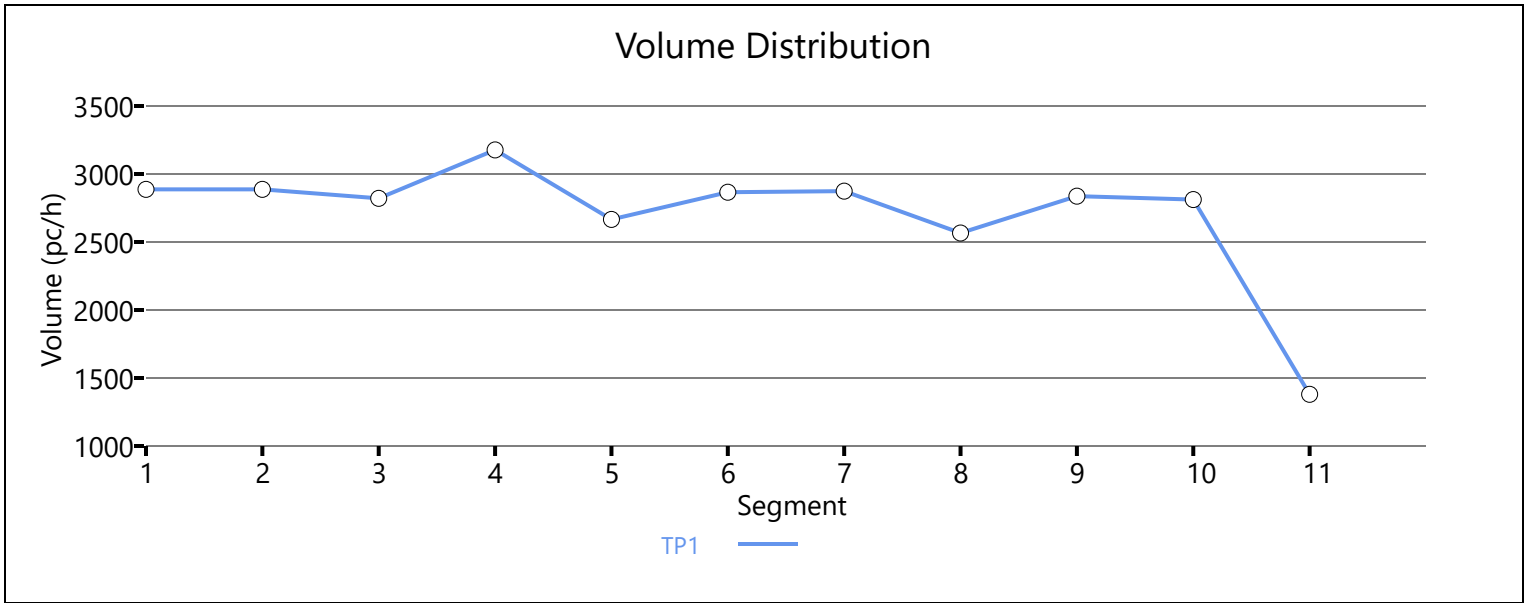
Period			(pc/h)		(pc/h)		Ratio	(mi/h)		(pc/mi/ln)					
1	0.85	0.980	2821		4500		0.63	52.0		25.6		C			
<b>Segment 4: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.85	0.980	3177		5805		0.55	44.3		23.9		C			
<b>Segment 5: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.85	0.980	2666		4500		0.59	54.5		24.2		C			
<b>Segment 6: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)		LOS	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.87	0.94	0.980	0.990	2866	261	4500	2000	0.64	0.13	50.2	50.2	28.5	25.9	C
<b>Segment 7: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.88	0.980	2874		6120		0.47	48.4		19.8		B			
<b>Segment 8: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.90	0.980	2566		4500		0.57	53.7		23.3		C			
<b>Segment 9: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)		LOS	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.90	0.81	0.980	0.990	2837	271	4500	2000	0.63	0.14	50.4	50.4	28.1	24.4	C
<b>Segment 10: Diverge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)		LOS	
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.90	0.90	0.980	0.980	2812	1432	4500	4000	0.62	0.36	47.8	47.8	29.4	19.4	B
<b>Segment 11: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.90	0.980	1380		4500		0.31	52.8		12.5		B			
<b>Facility Time Period Results</b>															
T	Speed, mi/h		Density, pc/mi/ln		Density, veh/mi/ln		Travel Time, min		LOS						
1	49.4		23.2		21.2		2.30		C						
<b>Facility Overall Results</b>															
Space Mean Speed, mi/h			49.4			Density, veh/mi/ln			21.2						

Average Travel Time, min	2.30	Density, pc/mi/ln	23.2
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**Messages**

**Comments**

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# HCS7 Freeway Facilities Report

## Project Information

Analyst	up	Date	7/17/2024
Agency	Simco	Analysis Year	2024
Jurisdiction		Time Period Analyzed	Build AM Peak Hour
Project Description	DASNY Wadsworth Consolidated Lab EIS	Unit	United States Customary

## Facility Global Input

Jam Density, pc/mi/ln	190.0	Density at Capacity, pc/mi/ln	45.0
Queue Discharge Capacity Drop, %	7	Total Segments	11
Total Time Periods	1	Time Period Duration, min	15
Facility Length, mi	1.92		

## Facility Segment Data

No.	Coded	Analyzed	Name	Length, ft	Lanes
1	Basic	Basic	NY 85 NB	1200	2
2	Diverge	Diverge	NY 85 NB off ramp to Cortland St. (201)	673	2
3	Basic	Basic	NY 85	100	2
4	Weaving	Weaving	NY 85 NB on ramp from Cortland St. and off ramp to Belvidere Ave. (201)	2109	3
5	Basic	Basic	NY 85	1751	2
6	Merge	Merge	NY 84 NB on ramp from Brevator St. (205)	335	2
7	Weaving	Weaving	NY 85 NB on ramp from Washington Ave. and off ramp to Lincoln Ave. (206)	1925	3
8	Basic	Basic	NY 85	103	2
9	Merge	Merge	NY 85 NB on ramp from Lincoln Ave. (209)	502	2
10	Diverge	Diverge	To I-90 EB and WB ramps. (210)	502	2
11	Basic	Basic	From NY 85 ramp to WB I-90	938	2

## Facility Segment Data

### Segment 1: Basic

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.86		0.980		3039		4500		0.68		55.0		27.6		D

### Segment 2: Diverge

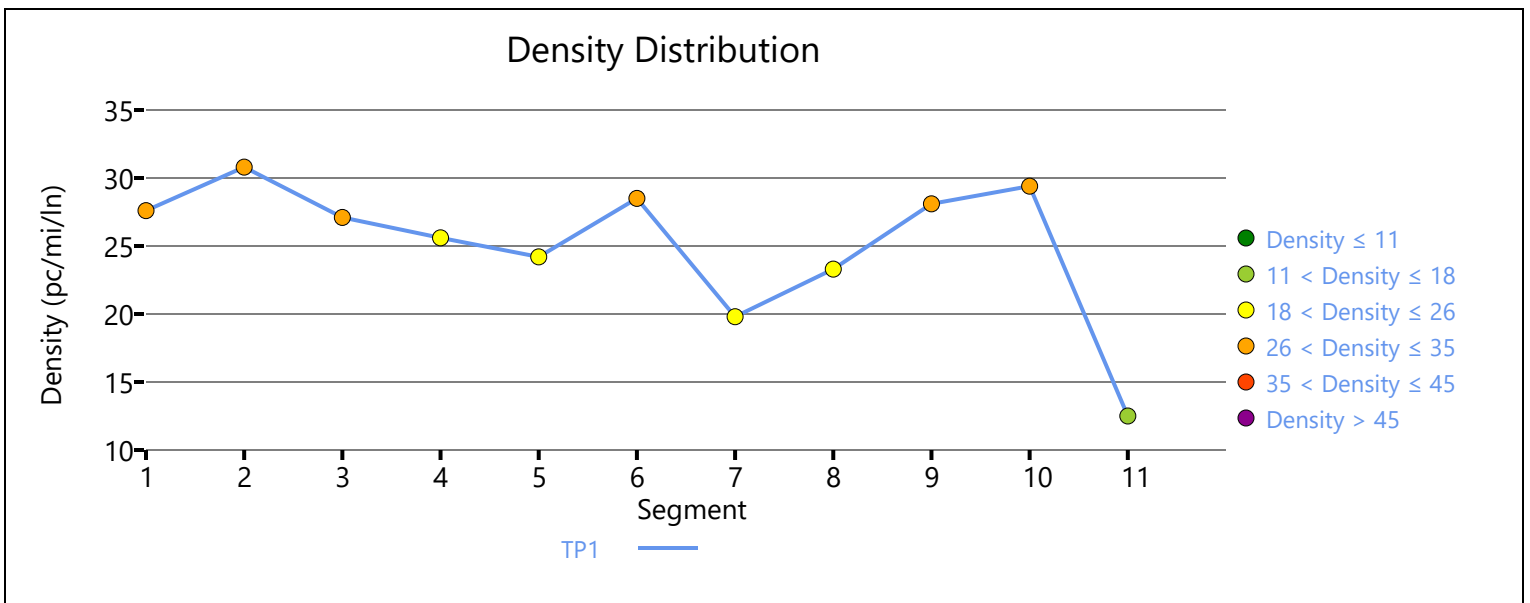
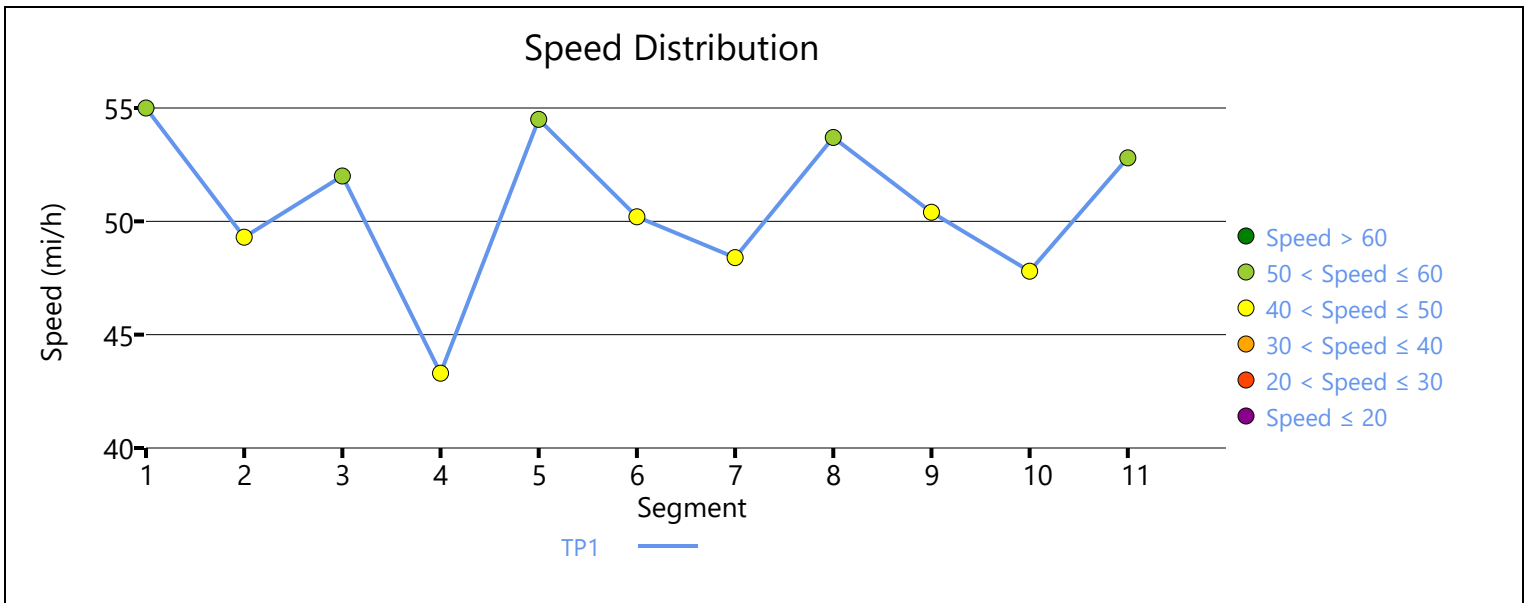
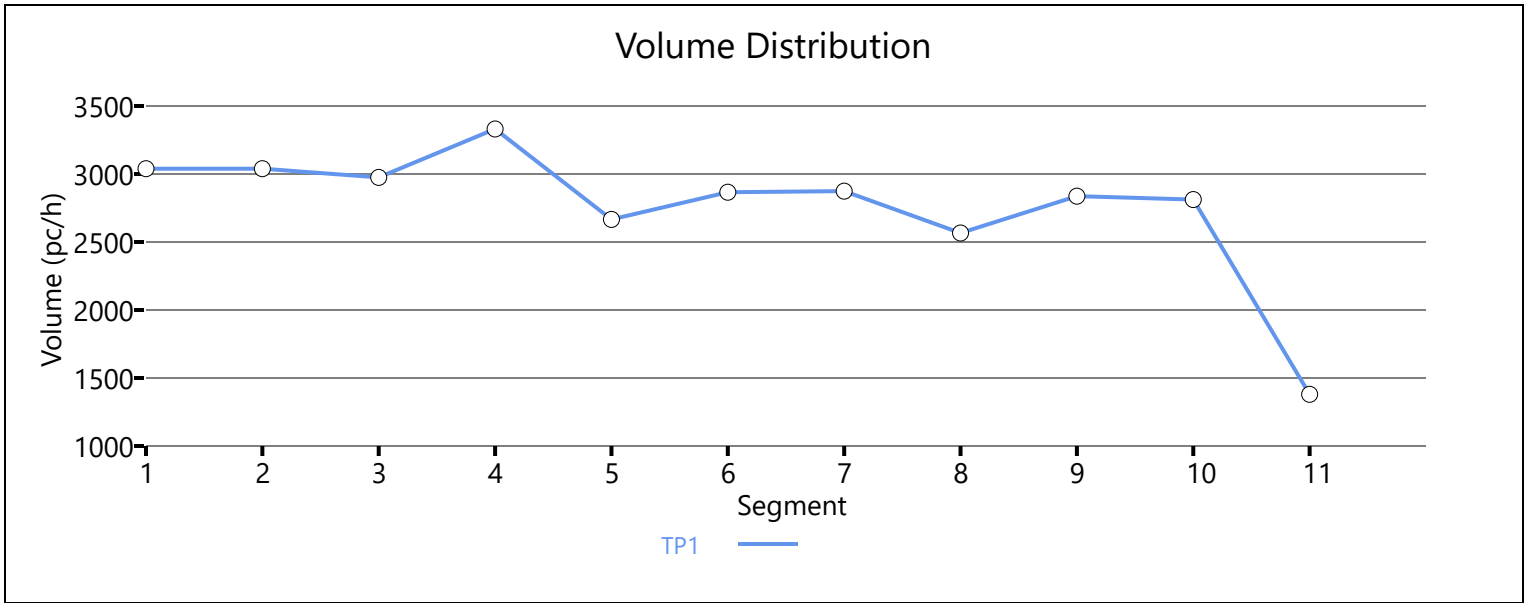
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.86	0.86	0.980	0.952	3039	101	4500	2000	0.68	0.05	49.3	49.3	30.8	28.0	C

### Segment 3: Basic

Time	PHF		fHV		Flow Rate		Capacity		d/c		Speed		Density		LOS
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Period			(pc/h)		(pc/h)		Ratio	(mi/h)		(pc/mi/ln)					
1	0.85	0.980	2975		4500		0.66	52.0		27.1		D			
<b>Segment 4: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.85	0.980	3331		5721		0.58	43.3		25.6		C			
<b>Segment 5: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.85	0.980	2666		4500		0.59	54.5		24.2		C			
<b>Segment 6: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.87	0.94	0.980	0.990	2866	261	4500	2000	0.64	0.13	50.2	50.2	28.5	25.9	C
<b>Segment 7: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.88	0.980	2874		6120		0.47	48.4		19.8		B			
<b>Segment 8: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.90	0.980	2566		4500		0.57	53.7		23.3		C			
<b>Segment 9: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.90	0.81	0.980	0.990	2837	271	4500	2000	0.63	0.14	50.4	50.4	28.1	24.4	C
<b>Segment 10: Diverge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.90	0.90	0.980	0.980	2812	1432	4500	4000	0.62	0.36	47.8	47.8	29.4	19.4	B
<b>Segment 11: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.90	0.980	1380		4500		0.31	52.8		12.5		B			
<b>Facility Time Period Results</b>															
T	Speed, mi/h		Density, pc/mi/ln		Density, veh/mi/ln		Travel Time, min		LOS						
1	49.1		23.8		21.8		2.30		C						
<b>Facility Overall Results</b>															
Space Mean Speed, mi/h			49.1			Density, veh/mi/ln			21.8						

Average Travel Time, min	2.30	Density, pc/mi/ln	23.8
<b>Messages</b>			
<b>Comments</b>			



# HCS7 Freeway Facilities Report

## Project Information

Analyst	up	Date	7/10/2024
Agency	Simco	Analysis Year	2024
Jurisdiction	Albany	Time Period Analyzed	Existing PM Peak Hour
Project Description	DASNY Wadsworth Consolidated Lab EIS	Unit	United States Customary

## Facility Global Input

Jam Density, pc/mi/ln	190.0	Density at Capacity, pc/mi/ln	45.0
Queue Discharge Capacity Drop, %	7	Total Segments	11
Total Time Periods	1	Time Period Duration, min	15
Facility Length, mi	1.92		

## Facility Segment Data

No.	Coded	Analyzed	Name	Length, ft	Lanes
1	Basic	Basic	NY 85 NB	1200	2
2	Diverge	Diverge	NY 85 NB off ramp to Cortland St. (201)	673	2
3	Basic	Basic	NY 85	100	2
4	Weaving	Weaving	NY 85 NB on ramp from Cortland St. and off ramp to Belvidere Ave. (201)	2109	3
5	Basic	Basic	NY 85	1751	2
6	Merge	Merge	NY 84 NB on ramp from Brevator St. (205)	335	2
7	Weaving	Weaving	NY 85 NB on ramp from Washington Ave. and off ramp to Lincoln Ave. (206)	1925	3
8	Basic	Basic	NY 85	103	2
9	Merge	Merge	NY 85 NB on ramp from Lincoln Ave. (209)	502	2
10	Diverge	Diverge	To I-90 EB and WB ramps. (210)	502	2
11	Basic	Basic	From NY 85 ramp to WB I-90	938	2

## Facility Segment Data

### Segment 1: Basic

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
1	0.96		0.980		1689		4500		0.38		55.0		15.3		B

### Segment 2: Diverge

Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio		Speed (mi/h)		Density (pc/mi/ln)		LOS
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.96	0.96	1.000	1.000	1655	85	4500	2000	0.37	0.04	49.3	49.3	16.8	16.1	B

### Segment 3: Basic

Time	PHF		fHV		Flow Rate		Capacity		d/c		Speed		Density		LOS
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Period			(pc/h)		(pc/h)		Ratio	(mi/h)		(pc/mi/ln)					
1	0.98	0.980	1569		4500		0.35	52.0		14.3		B			
<b>Segment 4: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.95	0.980	1837		6033		0.30	49.6		12.3		B			
<b>Segment 5: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.98	0.980	1659		4500		0.37	54.8		15.1		B			
<b>Segment 6: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.98	0.61	0.980	1.000	2349	690	4500	2000	0.52	0.35	50.6	50.6	23.2	21.7	C
<b>Segment 7: Weaving</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.87	0.980	2539		5949		0.43	47.7		17.7		B			
<b>Segment 8: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.84	0.980	2341		4500		0.52	53.6		21.3		C			
<b>Segment 9: Merge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.84	0.77	0.980	0.990	2723	382	4500	2000	0.61	0.19	50.5	50.5	27.0	23.5	C
<b>Segment 10: Diverge</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
	F	R	F	R	Freeway	Ramp	Freeway	Ramp	F	R	F	R	Freeway	Ramp	
1	0.84	0.80	0.980	0.980	2694	1426	4500	4000	0.60	0.36	47.8	47.8	28.2	18.4	B
<b>Segment 11: Basic</b>															
Time Period	PHF		fHV		Flow Rate (pc/h)		Capacity (pc/h)		d/c Ratio	Speed (mi/h)		Density (pc/mi/ln)	LOS		
1	0.84	0.980	1336		4500		0.30	52.8		12.1		B			
<b>Facility Time Period Results</b>															
T	Speed, mi/h		Density, pc/mi/ln		Density, veh/mi/ln		Travel Time, min		LOS						
1	50.5		16.2		15.2		2.30		B						
<b>Facility Overall Results</b>															
Space Mean Speed, mi/h			50.5			Density, veh/mi/ln			15.2						

Average Travel Time, min	2.30	Density, pc/mi/ln	16.2
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**Messages**

**Comments**

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