

Appendix 25-7:

Highway Capacity Software Level of Service Output

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Bank State Road (County Route 13)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	4
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	219	Opposing Demand Flow Rate, veh/h	144
Peak Hour Factor	0.90	Total Trucks, %	7.49
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	59.7
Speed Slope Coefficient	3.51905	Speed Power Coefficient	0.55667
PF Slope Coefficient	-1.19686	PF Power Coefficient	0.81512
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	58.6

Vehicle Results

Average Speed, mi/h	58.6	Percent Followers, %	29.3
Segment Travel Time, minutes	1.02	Followers Density, followers/mi/ln	1.1
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Batavia Byron Road (County Route 19A)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	2
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	103	Opposing Demand Flow Rate, veh/h	66
Peak Hour Factor	0.90	Total Trucks, %	4.07
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.06

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	59.0
Speed Slope Coefficient	3.44121	Speed Power Coefficient	0.59170
PF Slope Coefficient	-1.16949	PF Power Coefficient	0.82204
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	58.9

Vehicle Results

Average Speed, mi/h	58.9	Percent Followers, %	16.6
Segment Travel Time, minutes	1.02	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Byron Elba Road - East (NY 262)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	100	Opposing Demand Flow Rate, veh/h	176
Peak Hour Factor	0.90	Total Trucks, %	5.80
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.06

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.2
Speed Slope Coefficient	3.61075	Speed Power Coefficient	0.54643
PF Slope Coefficient	-1.19899	PF Power Coefficient	0.81618
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	61.2

Vehicle Results

Average Speed, mi/h	61.2	Percent Followers, %	16.7
Segment Travel Time, minutes	0.98	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Byron Elba Road - West (NY 262)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	96	Opposing Demand Flow Rate, veh/h	118
Peak Hour Factor	0.90	Total Trucks, %	9.10
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.06

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.0
Speed Slope Coefficient	3.57994	Speed Power Coefficient	0.56669
PF Slope Coefficient	-1.18183	PF Power Coefficient	0.82198
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	61.0

Vehicle Results

Average Speed, mi/h	61.0	Percent Followers, %	15.8
Segment Travel Time, minutes	0.98	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Byron Holley Road (NY 237)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	5
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	66	Opposing Demand Flow Rate, veh/h	66
Peak Hour Factor	0.90	Total Trucks, %	7.53
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.04

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	60.4
Speed Slope Coefficient	3.51627	Speed Power Coefficient	0.59170
PF Slope Coefficient	-1.16335	PF Power Coefficient	0.82665
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	60.4

Vehicle Results

Average Speed, mi/h	60.4	Percent Followers, %	11.5
Segment Travel Time, minutes	0.99	Followers Density, followers/mi/ln	0.1
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Existing
Project Description	Caswell Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	14	Opposing Demand Flow Rate, veh/h	18
Peak Hour Factor	0.90	Total Trucks, %	2.11
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.01

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.1
Speed Slope Coefficient	3.29613	Speed Power Coefficient	0.63001
PF Slope Coefficient	-1.14309	PF Power Coefficient	0.82603
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.1

Vehicle Results

Average Speed, mi/h	57.1	Percent Followers, %	3.4
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Clinton Street (NY 33)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	356
Peak Hour Factor	0.90	Total Trucks, %	4.56
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.70362	Speed Power Coefficient	0.50446
PF Slope Coefficient	-1.23059	PF Power Coefficient	0.80546
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	59.9

Vehicle Results

Average Speed, mi/h	59.9	Percent Followers, %	41.5
Segment Travel Time, minutes	1.00	Followers Density, followers/mi/ln	2.5
Vehicle LOS	B		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Existing
Project Description	Cockram Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	28	Opposing Demand Flow Rate, veh/h	28
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.02

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.6
Speed Slope Coefficient	3.33494	Speed Power Coefficient	0.61925
PF Slope Coefficient	-1.15053	PF Power Coefficient	0.82516
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.6

Vehicle Results

Average Speed, mi/h	57.6	Percent Followers, %	5.8
Segment Travel Time, minutes	1.04	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Existing
Project Description	Cole Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	7	Opposing Demand Flow Rate, veh/h	10
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.00

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.28056	Speed Power Coefficient	0.64105
PF Slope Coefficient	-1.13345	PF Power Coefficient	0.82908
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	1.8
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Existing
Project Description	Tower Hill Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	7	Opposing Demand Flow Rate, veh/h	7
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.00

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.27455	Speed Power Coefficient	0.64724
PF Slope Coefficient	-1.12806	PF Power Coefficient	0.83072
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	1.7
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Transit Road (County Route 42)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	18	Opposing Demand Flow Rate, veh/h	9
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.01

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.27869	Speed Power Coefficient	0.64297
PF Slope Coefficient	-1.13178	PF Power Coefficient	0.82959
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	3.9
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Walkers Corners Road (County Route 19)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	35	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	62	Opposing Demand Flow Rate, veh/h	41
Peak Hour Factor	0.90	Total Trucks, %	4.43
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.04

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	34.2
Speed Slope Coefficient	2.07894	Speed Power Coefficient	0.60789
PF Slope Coefficient	-1.14596	PF Power Coefficient	0.74059
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	34.2

Vehicle Results

Average Speed, mi/h	34.2	Percent Followers, %	13.6
Segment Travel Time, minutes	1.75	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-19	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	6
Speed Limit, mi/h	45	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	157
Peak Hour Factor	0.90	Total Trucks, %	14.17
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	49.5
Speed Slope Coefficient	2.97016	Speed Power Coefficient	0.55248
PF Slope Coefficient	-1.23022	PF Power Coefficient	0.78364
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	48.9

Vehicle Results

Average Speed, mi/h	48.9	Percent Followers, %	24.0
Segment Travel Time, minutes	1.23	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-98	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	526	Opposing Demand Flow Rate, veh/h	408
Peak Hour Factor	0.90	Total Trucks, %	8.79
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.31

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.7
Speed Slope Coefficient	3.70985	Speed Power Coefficient	0.49557
PF Slope Coefficient	-1.23800	PF Power Coefficient	0.80291
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	59.2

Vehicle Results

Average Speed, mi/h	59.2	Percent Followers, %	52.2
Segment Travel Time, minutes	1.01	Followers Density, followers/mi/ln	4.6
Vehicle LOS	C		

HCS7 Multilane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-33A	Unit	United States Customary

Direction 1 Geometric Data

Direction 1	Eastbound		
Number of Lanes (N), ln	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		

Direction 1 Adjustment Factors

Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		

Direction 1 Demand and Capacity

Volume(V) veh/h	378	Heavy Vehicle Adjustment Factor (fHV)	0.930
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	226
Total Trucks, %	7.49	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.11

Direction 1 Speed and Density

Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	4.2
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		

Direction 1 Bicycle LOS

Flow Rate in Outside Lane (vOL),veh/h	210	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicycle LOS Score (BLOS)	4.06
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D

HCS7 Multilane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-33A	Unit	United States Customary

Direction 2 Geometric Data

Direction 2	Westbound		
Number of Lanes (N), ln	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		

Direction 2 Adjustment Factors

Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		

Direction 2 Demand and Capacity

Volume(V) veh/h	533	Heavy Vehicle Adjustment Factor (fHV)	0.930
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	318
Total Trucks, %	7.49	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.15

Direction 2 Speed and Density

Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	5.9
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		

Direction 2 Bicycle LOS

Flow Rate in Outside Lane (vOL),veh/h	296	Effective Speed Factor (St)	4.62
Effective Width of Volume (Wv), ft	18	Bicycle LOS Score (BLOS)	4.12
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	Bank State Road (County Route 13)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	4
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	219	Opposing Demand Flow Rate, veh/h	144
Peak Hour Factor	0.90	Total Trucks, %	7.49
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	59.7
Speed Slope Coefficient	3.51905	Speed Power Coefficient	0.55667
PF Slope Coefficient	-1.19686	PF Power Coefficient	0.81512
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	58.6

Vehicle Results

Average Speed, mi/h	58.6	Percent Followers, %	29.3
Segment Travel Time, minutes	1.02	Followers Density, followers/mi/ln	1.1
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	Batavia Byron Road (County Route 19A)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	2
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	103	Opposing Demand Flow Rate, veh/h	66
Peak Hour Factor	0.90	Total Trucks, %	4.07
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.06

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	59.0
Speed Slope Coefficient	3.44121	Speed Power Coefficient	0.59170
PF Slope Coefficient	-1.16949	PF Power Coefficient	0.82204
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	58.9

Vehicle Results

Average Speed, mi/h	58.9	Percent Followers, %	16.6
Segment Travel Time, minutes	1.02	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	Byron Elba Road - East (NY 262)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	276	Opposing Demand Flow Rate, veh/h	351
Peak Hour Factor	0.90	Total Trucks, %	8.67
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.1
Speed Slope Coefficient	3.66246	Speed Power Coefficient	0.50527
PF Slope Coefficient	-1.23361	PF Power Coefficient	0.80432
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	59.5

Vehicle Results

Average Speed, mi/h	59.5	Percent Followers, %	35.4
Segment Travel Time, minutes	1.01	Followers Density, followers/mi/ln	1.6
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	Byron Elba Road - West (NY 262)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	253	Opposing Demand Flow Rate, veh/h	276
Peak Hour Factor	0.90	Total Trucks, %	10.19
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.0
Speed Slope Coefficient	3.63755	Speed Power Coefficient	0.52044
PF Slope Coefficient	-1.22119	PF Power Coefficient	0.80898
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	59.6

Vehicle Results

Average Speed, mi/h	59.6	Percent Followers, %	33.1
Segment Travel Time, minutes	1.01	Followers Density, followers/mi/ln	1.4
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Byron Holley Road (NY 237)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	5
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	83	Opposing Demand Flow Rate, veh/h	83
Peak Hour Factor	0.90	Total Trucks, %	8.25
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	60.4
Speed Slope Coefficient	3.52567	Speed Power Coefficient	0.58212
PF Slope Coefficient	-1.17168	PF Power Coefficient	0.82410
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	60.4

Vehicle Results

Average Speed, mi/h	60.4	Percent Followers, %	14.0
Segment Travel Time, minutes	0.99	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	Caswell Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	14	Opposing Demand Flow Rate, veh/h	18
Peak Hour Factor	0.90	Total Trucks, %	2.11
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.01

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.1
Speed Slope Coefficient	3.29613	Speed Power Coefficient	0.63001
PF Slope Coefficient	-1.14309	PF Power Coefficient	0.82603
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.1

Vehicle Results

Average Speed, mi/h	57.1	Percent Followers, %	3.4
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Existing
Project Description	Clinton Street (NY 33)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	356
Peak Hour Factor	0.90	Total Trucks, %	4.56
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.8
Speed Slope Coefficient	3.70362	Speed Power Coefficient	0.50446
PF Slope Coefficient	-1.23059	PF Power Coefficient	0.80546
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	59.9

Vehicle Results

Average Speed, mi/h	59.9	Percent Followers, %	41.5
Segment Travel Time, minutes	1.00	Followers Density, followers/mi/ln	2.5
Vehicle LOS	B		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Construction
Project Description	Cockram Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	379	Opposing Demand Flow Rate, veh/h	379
Peak Hour Factor	0.90	Total Trucks, %	10.46
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.22

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.4
Speed Slope Coefficient	3.47165	Speed Power Coefficient	0.50036
PF Slope Coefficient	-1.25609	PF Power Coefficient	0.79284
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	55.6

Vehicle Results

Average Speed, mi/h	55.6	Percent Followers, %	44.1
Segment Travel Time, minutes	1.08	Followers Density, followers/mi/ln	3.0
Vehicle LOS	B		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Construction
Project Description	Cole Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	7	Opposing Demand Flow Rate, veh/h	10
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.00

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.28056	Speed Power Coefficient	0.64105
PF Slope Coefficient	-1.13345	PF Power Coefficient	0.82908
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	1.8
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Construction
Project Description	Tower Hill Road	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	7	Opposing Demand Flow Rate, veh/h	7
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.00

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.27455	Speed Power Coefficient	0.64724
PF Slope Coefficient	-1.12806	PF Power Coefficient	0.83072
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	1.7
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	Transit Road (County Route 42)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	18	Opposing Demand Flow Rate, veh/h	9
Peak Hour Factor	0.90	Total Trucks, %	4.68
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.01

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient	3.27869	Speed Power Coefficient	0.64297
PF Slope Coefficient	-1.13178	PF Power Coefficient	0.82959
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	3.9
Segment Travel Time, minutes	1.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	Walkers Corners Road (County Route 19)	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	0
Speed Limit, mi/h	35	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	62	Opposing Demand Flow Rate, veh/h	41
Peak Hour Factor	0.90	Total Trucks, %	4.43
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.04

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	34.2
Speed Slope Coefficient	2.07894	Speed Power Coefficient	0.60789
PF Slope Coefficient	-1.14596	PF Power Coefficient	0.74059
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	34.2

Vehicle Results

Average Speed, mi/h	34.2	Percent Followers, %	13.6
Segment Travel Time, minutes	1.75	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	NY-19	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	6
Speed Limit, mi/h	45	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	183	Opposing Demand Flow Rate, veh/h	192
Peak Hour Factor	0.90	Total Trucks, %	13.56
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	49.5
Speed Slope Coefficient	2.98523	Speed Power Coefficient	0.54146
PF Slope Coefficient	-1.24094	PF Power Coefficient	0.78069
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	48.7

Vehicle Results

Average Speed, mi/h	48.7	Percent Followers, %	28.1
Segment Travel Time, minutes	1.23	Followers Density, followers/mi/ln	1.1
Vehicle LOS	A		

HCS7 Two-Lane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYS DOT	Time Period Analyzed	Construction
Project Description	NY-98	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	667	Opposing Demand Flow Rate, veh/h	549
Peak Hour Factor	0.90	Total Trucks, %	9.28
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.39

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	61.6
Speed Slope Coefficient	3.74250	Speed Power Coefficient	0.47584
PF Slope Coefficient	-1.25312	PF Power Coefficient	0.79629
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	6.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	58.8

Vehicle Results

Average Speed, mi/h	58.8	Percent Followers, %	59.6
Segment Travel Time, minutes	1.02	Followers Density, followers/mi/ln	6.8
Vehicle LOS	C		

HCS7 Multilane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	NY-33A	Unit	United States Customary

Direction 1 Geometric Data

Direction 1	Eastbound		
Number of Lanes (N), ln	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		

Direction 1 Adjustment Factors

Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		

Direction 1 Demand and Capacity

Volume(V) veh/h	505	Heavy Vehicle Adjustment Factor (fHV)	0.924
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	304
Total Trucks, %	8.23	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.15

Direction 1 Speed and Density

Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	5.6
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		

Direction 1 Bicycle LOS

Flow Rate in Outside Lane (vOL),veh/h	281	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicycle LOS Score (BLOS)	4.47
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	D

HCS7 Multilane Highway Report

Project Information

Analyst	BH	Date	7/7/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Construction
Project Description	NY-33A	Unit	United States Customary

Direction 2 Geometric Data

Direction 2	Westbound		
Number of Lanes (N), ln	2	Terrain Type	Level
Segment Length (L), ft	-	Percent Grade, %	-
Measured or Base Free-Flow Speed	Base	Grade Length, mi	-
Base Free-Flow Speed (BFFS), mi/h	55.0	Access Point Density, pts/mi	3.0
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	6
Median Type	Divided	Total Lateral Clearance (TLC), ft	12
Free-Flow Speed (FFS), mi/h	54.3		

Direction 2 Adjustment Factors

Driver Population	All Familiar	Final Speed Adjustment Factor (SAF)	1.000
Driver Population SAF	1.000	Final Capacity Adjustment Factor (CAF)	1.000
Driver Population CAF	1.000		

Direction 2 Demand and Capacity

Volume(V) veh/h	660	Heavy Vehicle Adjustment Factor (fHV)	0.924
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	397
Total Trucks, %	8.23	Capacity (c), pc/h/ln	2084
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2084
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.19

Direction 2 Speed and Density

Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	54.2
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	7.3
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	A
Access Point Density Adjustment (fA)	0.8		

Direction 2 Bicycle LOS

Flow Rate in Outside Lane (vOL),veh/h	367	Effective Speed Factor (St)	4.79
Effective Width of Volume (Wv), ft	18	Bicycle LOS Score (BLOS)	4.61
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	E