	HCS7 Multilane	Highway Report	
Project Information			
Analyst	ВН	Date	6/15/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	US -90	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	EB		
Number of Lanes (N), In	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	65.0	Access Point Density, pts/mi	1.5
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4
Median Type	Divided	Total Lateral Clearance (TLC), ft	10
Free-Flow Speed (FFS), mi/h	64.2		
Direction 1 Adjustment Facto	ors		
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 Cap	acity		
Volume(V) veh/h	1879	Heavy Vehicle Adjustment Factor (fHV)	0.855
Peak Hour Factor	0.90	Flow Rate (V _p), pc/h/ln	1221
Total Trucks, %	16.99	Capacity (c), pc/h/ln	2284
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2284
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.53
Direction 1 Speed and Densit	у		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	64.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	19.0
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	С
Access Point Density Adjustment (fA)	0.4		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	1044	Effective Speed Factor (St)	5.07
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	9.59
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	F
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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	вн	Date	6/15/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	US -90	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	WB		
Number of Lanes (N), In	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	65.0	Access Point Density, pts/mi	1.5
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4
Median Type	Divided	Total Lateral Clearance (TLC), ft	10
Free-Flow Speed (FFS), mi/h	64.2		
Direction 2 Adjustment Facto	rs		
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 Capa	acity		
Volume(V) veh/h	1749	Heavy Vehicle Adjustment Factor (fHV)	0.855
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	1136
Total Trucks, %	16.99	Capacity (c), pc/h/ln	2284
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2284
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.50
Direction 2 Speed and Densit	у		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	64.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	17.7
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	В
Access Point Density Adjustment (fA)	0.4		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vOL),veh/h	972	Effective Speed Factor (St)	5.07
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	9.55
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	F

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		HCS7 Two	-Lane	e Highway Re	eport	
Pro	ject Information					
Anal	yst	ВН		Date		06/15/2020
Ageı	ncy	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	NY 14		Unit		United States Customary
			Segi	ment 1		
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		5280
Lane	e Width, ft	12		Shoulder Width, f	t	6
Spe	ed Limit, mi/h	45		Access Point Dens	sity, pts/mi	3.0
Dei	mand and Capacity	·		<u>'</u>		
Dire	ctional Demand Flow Rate, veh/h	466		Opposing Deman	d Flow Rate, veh/h	418
Peak	Hour Factor	0.90		Total Trucks, %		14.69
Segr	ment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.27
Int	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	50.1
Spe	ed Slope Coefficient	3.08387		Speed Power Coe	fficient	0.49398
PF S	lope Coefficient	-1.28685		PF Power Coeffici	ent	0.76925
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	4.9
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Sul	osegment Data			·		
#	Segment Type	Length, ft	Ra	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	48.2
Veł	nicle Results					
Aver	rage Speed, mi/h	48.2		Percent Followers	, %	51.1
Segr	ment Travel Time, minutes	1.25		Followers Density	, followers/mi/In	4.9
	cle LOS	В				

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	HCS7 Two-La	ne	Highway Re	eport	
Project Information					
Analyst	вн		Date		06/15/2020
Agency	PDE		Analysis Year		2020
Jurisdiction	NYSDOT		Time Period Analy	zed	Existing
Project Description	Packwood Road		Unit		United States Customary
	Se	gn	nent 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		5280
Lane Width, ft	11		Shoulder Width, ft	t	0
Speed Limit, mi/h	45		Access Point Dens	ity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h	98		Opposing Demand	d Flow Rate, veh/h	108
Peak Hour Factor	0.90		Total Trucks, %		3.24
Segment Capacity, veh/h	1700		Demand/Capacity	(D/C)	0.06
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	45.6
Speed Slope Coefficient	2.74012		Speed Power Coef	fficient	0.57084
PF Slope Coefficient	-1.21539		PF Power Coefficie	ent	0.77374
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.4
%Improved % Followers	0.0		% Improved Avg S	Speed	0.0
Subsegment Data					
# Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	45.6
Vehicle Results					
Average Speed, mi/h	45.6		Percent Followers,	%	18.2
Segment Travel Time, minutes	1.31		Followers Density,	followers/mi/ln	0.4
Vehicle LOS	А				

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		HCS7 Two-La	ane	Highway Re	eport	
Pro	ject Information					
Anal	yst	ВН		Date		06/15/2020
Ager	ncy	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	vzed	Existing
Proje	ect Description	Pre-Emption Street		Unit		United States Customary
		S	egn	nent 1		
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		5280
Lane	e Width, ft	11		Shoulder Width, f	t	0
Spee	ed Limit, mi/h	45		Access Point Dens	sity, pts/mi	3.0
Dei	mand and Capacity	·				
Dire	ctional Demand Flow Rate, veh/h	98		Opposing Deman	d Flow Rate, veh/h	77
Peak	Hour Factor	0.90		Total Trucks, %		3.71
Segr	ment Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.06
Into	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	45.6
Spee	ed Slope Coefficient	2.72242		Speed Power Coe	fficient	0.58555
PF S	lope Coefficient	-1.20121		PF Power Coefficie	ent	0.77757
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.4
%lm	proved % Followers	0.0		% Improved Avg S	Speed	0.0
Suk	osegment Data					-
#	Segment Type	Length, ft	Rad	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	1-		-	45.6
Veł	nicle Results					
Aver	rage Speed, mi/h	45.6		Percent Followers,	, %	17.9
Segr	ment Travel Time, minutes	1.32		Followers Density,	, followers/mi/ln	0.4
Vehi	cle LOS	А				
_				Followers Density,	, followers/mi/ln	0.4

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		HCS7 Two-L	ane	Highway Re	eport	
Pro	ject Information					
Anal	yst	ВН		Date		06/15/2020
Ager	ncy	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	Border City Road		Unit		United States Customary
		S	Segn	nent 1		
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	40		Access Point Dens	sity, pts/mi	3.0
Dei	mand and Capacity	·				
Dire	ctional Demand Flow Rate, veh/h	360		Opposing Deman	d Flow Rate, veh/h	308
Peak	Hour Factor	0.90		Total Trucks, %		5.41
Segr	nent Capacity, veh/h	1700		Demand/Capacity	' (D/C)	0.21
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	44.7
Spee	ed Slope Coefficient	2.76166		Speed Power Coe	fficient	0.51361
PF S	lope Coefficient	-1.27252		PF Power Coefficie	ent	0.75518
In Pa	assing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.7
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	osegment Data	·				
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	43.3
Veł	nicle Results					
Aver	age Speed, mi/h	43.3		Percent Followers	, %	44.5
Segr	ment Travel Time, minutes	1.39		Followers Density	, followers/mi/ln	3.7
Vehi	cle LOS	В				

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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	вн	Date	6/15/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-96A	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	NB		
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5
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	44.6		
Direction 1 Adjustment Facto	rs		
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 Capa	acity		
Volume(V) veh/h	446	Heavy Vehicle Adjustment Factor (fHV)	0.949
Peak Hour Factor	0.90	Flow Rate (V _p), pc/h/ln	261
Total Trucks, %	5.42	Capacity (c), pc/h/ln	1900
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.14
Direction 1 Speed and Densit	у		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.6
Total Lateral Clearance Adj. (fllc)	0.0	Density (D), pc/mi/ln	5.9
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.4		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vol),veh/h	248	Effective Speed Factor (St)	4.42
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.27
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	вн	Date	6/15/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	NY-96A	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	SB		
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5
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	44.6		
Direction 2 Adjustment Factor	rs		
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 Cap	acity		
Volume(V) veh/h	515	Heavy Vehicle Adjustment Factor (fHV)	0.949
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	302
Total Trucks, %	5.42	Capacity (c), pc/h/ln	1900
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.16
Direction 2 Speed and Densit	у		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.6
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	6.8
Median Type Adjustment (fм)	0.0	Level of Service (LOS)	Α
Access Point Density Adjustment (fA)	0.4		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vol),veh/h	286	Effective Speed Factor (St)	4.42
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.35
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

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		HCS7 Two-l	Lane	Highway Re	eport	
Pro	ject Information					
Anal	yst	ВН		Date		06/15/2020
Ager	ncy	PDE		Analysis Year		2020
Juris	diction	NYSDOT		Time Period Analy	/zed	Existing
Proje	ect Description	Serven Road		Unit		United States Customary
			Segn	nent 1		
Veł	nicle Inputs					
 Segr	ment Type	Passing Zone		Length, ft		5280
Lane	Width, ft	11		Shoulder Width, f	t	0
Spee	ed Limit, mi/h	45		Access Point Dens	sity, pts/mi	3.0
Dei	mand and Capacity					
Dire	ctional Demand Flow Rate, veh/h	54		Opposing Deman	d Flow Rate, veh/h	57
Peak	Hour Factor	0.90		Total Trucks, %		5.00
Segr	ment Capacity, veh/h	1700		Demand/Capacity	/ (D/C)	0.03
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	45.6
Spee	ed Slope Coefficient	2.70736		Speed Power Coe	fficient	0.59709
PF SI	lope Coefficient	-1.19014		PF Power Coefficie	ent	0.78058
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	0.1
%lm	proved % Followers	0.0		% Improved Avg	Speed	0.0
Suk	osegment Data					
#	Segment Type	Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	1-		-	45.6
Vel	nicle Results					
Aver	age Speed, mi/h	45.6		Percent Followers	, %	11.5
Segr	ment Travel Time, minutes	1.32		Followers Density	, followers/mi/ln	0.1
Vehi	cle LOS	А				

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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	ВН	Date	6/15/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	US -20	Unit	United States Customary
Direction 1 Geometric Data			
Direction 1	ЕВ		
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4
Median Type	Divided	Total Lateral Clearance (TLC), ft	10
Free-Flow Speed (FFS), mi/h	44.2		
Direction 1 Adjustment Facto	rs		
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 Capa	acity		
Volume(V) veh/h	625	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	365
Total Trucks, %	5.12	Capacity (c), pc/h/ln	1900
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.19
Direction 1 Speed and Densit	у		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.2
Total Lateral Clearance Adj. (fllc)	0.4	Density (D), pc/mi/ln	8.3
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	Α
Access Point Density Adjustment (fA)	0.4		
Direction 1 Bicycle LOS			
Flow Rate in Outside Lane (vol),veh/h	347	Effective Speed Factor (St)	4.42
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.36
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

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	HCS7 Multilane	Highway Report	
Project Information			
Analyst	вн	Date	6/15/2020
Agency	PDE	Analysis Year	2020
Jurisdiction	NYSDOT	Time Period Analyzed	Existing
Project Description	US -20	Unit	United States Customary
Direction 2 Geometric Data			
Direction 2	WB		
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4
Median Type	Divided	Total Lateral Clearance (TLC), ft	10
Free-Flow Speed (FFS), mi/h	44.2		
Direction 2 Adjustment Facto	rs		
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 Capa	acity		
Volume(V) veh/h	565	Heavy Vehicle Adjustment Factor (fHV)	0.951
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	330
Total Trucks, %	5.12	Capacity (c), pc/h/ln	1900
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.17
Direction 2 Speed and Densit	у		
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.2
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	7.5
Median Type Adjustment (fм)	0.0	Level of Service (LOS)	А
Access Point Density Adjustment (fA)	0.4		
Direction 2 Bicycle LOS			
Flow Rate in Outside Lane (vol),veh/h	314	Effective Speed Factor (St)	4.42
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.31
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С

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2020 Existing United States Customary 5280 6 3.0
Existing United States Customary 5280 6 3.0
United States Customary 5280 6 3.0
5280 6 3.0
6 3.0
6 3.0
6 3.0
3.0
530
530
7.37
0.35
50.3
0.47818
0.76397
7.3
0.0
Average Speed, mi/h
48.1
58.4
7.3

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HCS7 Multilane Highway Report						
Project Information						
Analyst	ВН	Date	6/15/2020			
Agency	PDE	Analysis Year	2020			
Jurisdiction	NYSDOT	Time Period Analyzed	Construction			
Project Description	US -90	Unit	United States Customary			
Direction 1 Geometric Data						
Direction 1	EB					
Number of Lanes (N), In	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	65.0	Access Point Density, pts/mi	1.5			
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4			
Median Type	Divided	Total Lateral Clearance (TLC), ft	10			
Free-Flow Speed (FFS), mi/h	64.2					
Direction 1 Adjustment Facto	ors					
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 Cap	acity					
Volume(V) veh/h	1934	Heavy Vehicle Adjustment Factor (fHV)	0.855			
Peak Hour Factor	0.90	Flow Rate (V _p), pc/h/ln	1256			
Total Trucks, %	16.99	Capacity (c), pc/h/ln	2284			
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2284			
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.55			
Direction 1 Speed and Densi	ty					
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	64.2			
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	19.6			
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	С			
Access Point Density Adjustment (fA)	0.4					
Direction 1 Bicycle LOS						
Flow Rate in Outside Lane (vOL),veh/h	1074	Effective Speed Factor (St)	5.07			
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	9.60			
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	F			

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	HCS7 Multilane	Highway Report				
Project Information						
Analyst	ВН	Date	6/15/2020			
Agency	PDE	Analysis Year	2020			
Jurisdiction	NYSDOT	Time Period Analyzed	Construction			
Project Description	US -90	Unit	United States Customary			
Direction 2 Geometric Data						
Direction 2	WB					
Number of Lanes (N), In	2	Terrain Type	Level			
Segment Length (L), ft	-	Percent Grade, %	-			
Measured or Base Free-Flow Speed	Measured	Grade Length, mi	-			
Base Free-Flow Speed (BFFS), mi/h	65.0	Access Point Density, pts/mi	-			
Lane Width, ft	-	Left-Side Lateral Clearance (LCR), ft	-			
Median Type	-	Total Lateral Clearance (TLC), ft	-			
Free-Flow Speed (FFS), mi/h	65.0					
Direction 2 Adjustment Factor	ors					
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 Cap	acity					
Volume(V) veh/h	1804	Heavy Vehicle Adjustment Factor (fHV)	0.855			
Peak Hour Factor	0.90	Flow Rate (V _p), pc/h/ln	1172			
Total Trucks, %	16.99	Capacity (c), pc/h/ln	2300			
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	2300			
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.51			
Direction 2 Speed and Densi	ty					
Lane Width Adjustment (fLW)	-	Average Speed (S), mi/h	65.0			
Total Lateral Clearance Adj. (fLLC)	-	Density (D), pc/mi/ln	18.0			
Median Type Adjustment (fM)	-	Level of Service (LOS)	В			
Access Point Density Adjustment (fA)	-					
Direction 2 Bicycle LOS						
Flow Rate in Outside Lane (vol.),veh/h	1002	Effective Speed Factor (St)	5.07			
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	9.57			
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	F			

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		HCS7 Two-L	.ane	Highway Re	eport	
Pro	ject Information					
Anal	yst	ВН		Date		06/15/2020
Ager	ncy	PDE	PDE			2020
Juris	diction	NYSDOT	NYSDOT		zed	Construction
Proje	ect Description	NY 14	NY 14			United States Customary
		S	Segn	nent 1		
Veł	nicle Inputs					
Segr	ment Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	45		Access Point Dens	ity, pts/mi	3.0
Demand and Capacity						
Dire	ctional Demand Flow Rate, veh/h	588		Opposing Demand Flow Rate, veh/h		540
Peak	Hour Factor	0.90		Total Trucks, %		14.69
Segr	ment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.35
Inte	ermediate Results					
Segr	ment Vertical Class	1		Free-Flow Speed,	mi/h	50.1
Spee	ed Slope Coefficient	3.11288		Speed Power Coefficient		0.47693
PF S	lope Coefficient	-1.30407		PF Power Coefficient		0.76384
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	7.1
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	47.9
Veł	nicle Results					
Aver	age Speed, mi/h	47.9		Percent Followers, %		58.1
Segr	ment Travel Time, minutes	1.25		Followers Density,	followers/mi/ln	7.1
Vehi	cle LOS	С				
Segr	ment Travel Time, minutes	1.25		Percent Followers, % Followers Density, followers/mi/ln		

HCSTM Two-Lane Version 7.8 B - Construction - NY 14.xuf Generated: 06/15/2020 16:56:32

HCS7 Two-La	ne Highway R	eport	
ВН	Date		06/15/2020
PDE	Analysis Year		2020
NYSDOT	Time Period Analy	yzed	Construction
Packwood Road	Unit		United States Customary
Se	gment 1		
Passing Zone	Length, ft		5280
11	Shoulder Width, f	t	0
45	Access Point Dens	sity, pts/mi	3.0
	·		
220	Opposing Deman	d Flow Rate, veh/h	230
0.90	Total Trucks, %		3.24
1700	Demand/Capacity	/ (D/C)	0.13
1	Free-Flow Speed,	mi/h	45.6
2.78971	Speed Power Coe	fficient	0.53124
-1.25473	PF Power Coeffici	ent	0.76324
No	Total Segment De	ensity, veh/mi/ln	1.6
0.0	% Improved Avg	Speed	0.0
Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
5280	-	-	44.7
44.7	Percent Followers	, %	32.6
1.34	Followers Density	, followers/mi/ln	1.6
А			
	BH PDE NYSDOT Packwood Road See Passing Zone 11 45 220 0.90 1700 1 2.78971 -1.25473 No 0.0 Length, ft 5280 44.7 1.34	BH Date PDE Analysis Year NYSDOT Time Period Analy Packwood Road Unit Segment 1 Passing Zone Length, ft 11 Shoulder Width, ft 45 Access Point Dense 220 Opposing Demand 0.90 Total Trucks, % 1700 Demand/Capacity 1 Free-Flow Speed, 2.78971 Speed Power Coe -1.25473 PF Power Coeffici No Total Segment December Coefficity No Total Segment December Coefficity Length, ft Radius, ft 5280 - 44.7 Percent Followers 1.34 Followers Density	PDE Analysis Year NYSDOT Time Period Analyzed Packwood Road Unit Segment 1 Passing Zone Length, ft 11 Shoulder Width, ft 45 Access Point Density, pts/mi 220 Opposing Demand Flow Rate, veh/h 0.90 Total Trucks, % 1700 Demand/Capacity (D/C) 1 Free-Flow Speed, mi/h 2.78971 Speed Power Coefficient -1.25473 PF Power Coefficient No Total Segment Density, veh/mi/In 0.0 % Improved Avg Speed Length, ft Radius, ft Superelevation, % 5280 - Percent Followers, % 1.34 Followers Density, followers/mi/In

HCSTM Two-Lane Version 7.8 C - Construction - Packwood Road.xuf Generated: 06/15/2020 17:00:34

HCS7 Two-L	ane	Highway Re	eport		
ВН		Date		06/15/2020	
PDE		Analysis Year		2020	
NYSDOT	NYSDOT		zed	Construction	
Pre-Emption Street	Pre-Emption Street Un			United States Customary	
9	Segn	nent 1			
Passing Zone		Length, ft		5280	
11		Shoulder Width, f	t	0	
45		Access Point Dens	ity, pts/mi	3.0	
Demand and Capacity					
98		Opposing Demand Flow Rate, veh/h		77	
0.90		Total Trucks, %		3.71	
1700		Demand/Capacity (D/C)		0.06	
1		Free-Flow Speed,	mi/h	45.6	
2.72242		Speed Power Coefficient		0.58555	
-1.20121		PF Power Coefficie	ent	0.77757	
No		Total Segment De	nsity, veh/mi/ln	0.4	
0.0		% Improved Avg Speed		0.0	
Length, ft	Rac	lius, ft	Superelevation, %	Average Speed, mi/h	
5280	T-		-	45.6	
45.6		Percent Followers, %		17.9	
1.32		Followers Density,	followers/mi/ln	0.4	
А					
	BH PDE NYSDOT Pre-Emption Street Passing Zone 11 45 98 0.90 1700 1700 1700 1700 1700 1700 1700 17	BH	BH Date PDE Analysis Year NYSDOT Time Period Analy Pre-Emption Street Unit Segment 1 Passing Zone Length, ft 11 Shoulder Width, ft 45 Access Point Dens 98 Opposing Deman 0.90 Total Trucks, % 1700 Demand/Capacity 1 Free-Flow Speed, 2.72242 Speed Power Coer -1.20121 PF Power Coefficie No Total Segment De 0.0 % Improved Avg S Length, ft Radius, ft 5280 -	PDE	

HCSTM Two-Lane Version 7.8

D - Construction - Pre-Emption Street.xuf

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		HCS7 Two-La	ine	Highway Re	eport	
Pro	ject Information					
Anal	yst	ВН		Date		06/15/2020
Ager	ncy	PDE		Analysis Year		2020
Juris	diction	NYSDOT	NYSDOT		zed	Construction
Proje	ect Description	Border City Road	Border City Road			United States Customary
		Se	egn	nent 1		
Veł	nicle Inputs					
Segr	nent Type	Passing Zone		Length, ft		5280
Lane	Width, ft	12		Shoulder Width, f	t	6
Spee	ed Limit, mi/h	40		Access Point Dens	ity, pts/mi	3.0
Demand and Capacity						
Dire	ctional Demand Flow Rate, veh/h	360		Opposing Demand Flow Rate, veh/h		308
Peak	Hour Factor	0.90		Total Trucks, %		5.41
Segr	nent Capacity, veh/h	1700		Demand/Capacity (D/C)		0.21
Into	ermediate Results					
Segr	nent Vertical Class	1		Free-Flow Speed,	mi/h	44.7
Spee	ed Slope Coefficient	2.76166		Speed Power Coefficient		0.51361
PF S	ope Coefficient	-1.27252		PF Power Coefficie	ent	0.75518
In Pa	ssing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	3.7
%lm	proved % Followers	0.0		% Improved Avg Speed		0.0
Suk	segment Data					
#	Segment Type	Length, ft	Rad	lius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-		-	43.3
Veł	nicle Results					
Aver	age Speed, mi/h	43.3		Percent Followers, %		44.5
Segr	nent Travel Time, minutes	1.39		Followers Density, followers/mi/ln		3.7
Vehi	cle LOS	В				
veni	tie ros	D				

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HCS7 Multilane Highway Report							
Project Information							
Analyst	ВН	Date	6/15/2020				
Agency	PDE	Analysis Year	2020				
Jurisdiction	NYSDOT	Time Period Analyzed	Construction				
Project Description	NY-96A	Unit	United States Customary				
Direction 1 Geometric Data							
Direction 1 NB							
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5				
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	44.6						
Direction 1 Adjustment Facto	ors						
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 Cap	acity						
Volume(V) veh/h	468	Heavy Vehicle Adjustment Factor (fHV)	0.949				
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	274				
Total Trucks, %	5.42	Capacity (c), pc/h/ln	1900				
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900				
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.14				
Direction 1 Speed and Densi	ty						
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.6				
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	6.1				
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А				
Access Point Density Adjustment (fA)	0.4						
Direction 1 Bicycle LOS							
Flow Rate in Outside Lane (vol.),veh/h	260	Effective Speed Factor (St)	4.42				
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.30				
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С				

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	HCS7 Multilane	Highway Report				
Project Information						
Analyst	ВН	Date	6/15/2020			
Agency	PDE	Analysis Year	2020			
Jurisdiction	NYSDOT	Time Period Analyzed	Construction			
Project Description	NY-96A	Unit	United States Customary			
Direction 2 Geometric Data						
Direction 2	SB					
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5			
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	44.6					
Direction 2 Adjustment Factor	ors					
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 Cap	acity					
Volume(V) veh/h	537	Heavy Vehicle Adjustment Factor (fHV)	0.949			
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	314			
Total Trucks, %	5.42	Capacity (c), pc/h/ln	1900			
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900			
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.17			
Direction 2 Speed and Densi	ty					
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.6			
Total Lateral Clearance Adj. (fLLC)	0.0	Density (D), pc/mi/ln	7.0			
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А			
Access Point Density Adjustment (fA)	0.4					
Direction 2 Bicycle LOS						
Flow Rate in Outside Lane (vol.),veh/h	298	Effective Speed Factor (St)	4.42			
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.37			
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С			

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HCS7 Two-La	ane H	Highway Re	eport	
ВН	D	Date		06/15/2020
PDE	А	Analysis Year		2020
NYSDOT	Ti	ime Period Analy	zed	Construction
Serven Road	U	Jnit		United States Customary
Se	egme	ent 1		
Passing Zone	Le	ength, ft		5280
11	S	Shoulder Width, ft	t	0
45	А	Access Point Dens	ity, pts/mi	3.0
140	0	Opposing Demand Flow Rate, veh/h		142
0.90	To	Total Trucks, %		5.00
1700	D	Demand/Capacity (D/C)		0.08
				-
1	Fi	ree-Flow Speed,	mi/h	45.6
2.75295	S	Speed Power Coefficient		0.55745
-1.22825	Р	PF Power Coefficie	ent	0.77030
No	To	otal Segment Density, veh/mi/ln		0.7
0.0	%	% Improved Avg Speed		0.0
Length, ft	Radius	s, ft	Superelevation, %	Average Speed, mi/h
5280	-		-	45.1
			-	
45.1	P	Percent Followers, %		23.7
1.33	F	followers Density,	followers/mi/ln	0.7
А				
	BH PDE NYSDOT Serven Road Passing Zone 11 45 140 0.90 1700 1 2.75295 -1.22825 No 0.0 Length, ft 5280 45.1 1.33	BH	BH Date PDE Analysis Year NYSDOT Time Period Analy Serven Road Unit Segment 1 Passing Zone Length, ft 11 Shoulder Width, ft 45 Access Point Dens 140 Opposing Demand 0.90 Total Trucks, % 1700 Demand/Capacity 1 Free-Flow Speed, 2.75295 Speed Power Coefficie No Total Segment De 0.0 % Improved Avg S Length, ft Radius, ft 5280 -	PDE Analysis Year NYSDOT Time Period Analyzed Serven Road Unit Segment 1 Passing Zone Length, ft 11 Shoulder Width, ft 45 Access Point Density, pts/mi 140 Opposing Demand Flow Rate, veh/h 0.90 Total Trucks, % 1700 Demand/Capacity (D/C) 1 Free-Flow Speed, mi/h 2.75295 Speed Power Coefficient -1.22825 PF Power Coefficient No Total Segment Density, veh/mi/In 0.0 % Improved Avg Speed Length, ft Radius, ft Superelevation, % 5280 - 45.1 Percent Followers, % Followers Density, followers/mi/In

HCSTM Two-Lane Version 7.8 G - Construction - Serven Road.xuf Generated: 06/15/2020 17:07:23

HCS7 Multilane Highway Report					
Project Information					
Analyst	ВН	Date	6/15/2020		
Agency	PDE	Analysis Year	2020		
Jurisdiction	NYSDOT	Time Period Analyzed	Construction		
Project Description	US -20	Unit	United States Customary		
Direction 1 Geometric Data					
Direction 1	EB				
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5		
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4		
Median Type	Divided	Total Lateral Clearance (TLC), ft	10		
Free-Flow Speed (FFS), mi/h	44.2				
Direction 1 Adjustment Facto	ors				
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 Cap	acity				
Volume(V) veh/h	702	Heavy Vehicle Adjustment Factor (fHV)	0.951		
Peak Hour Factor	0.90	Flow Rate (V _p), pc/h/ln	410		
Total Trucks, %	5.12	Capacity (c), pc/h/ln	1900		
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900		
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.22		
Direction 1 Speed and Densi	ty				
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.2		
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	9.3		
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А		
Access Point Density Adjustment (fA)	0.4				
Direction 1 Bicycle LOS					
Flow Rate in Outside Lane (vOL),veh/h	390	Effective Speed Factor (St)	4.42		
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.42		
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С		

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	HCS7 Multilane	Highway Report				
Project Information						
Analyst	ВН	Date	6/15/2020			
Agency	PDE	Analysis Year	2020			
Jurisdiction	NYSDOT	Time Period Analyzed	Construction			
Project Description	US -20	Unit	United States Customary			
Direction 2 Geometric Data						
Direction 2	WB					
Number of Lanes (N), In	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	45.0	Access Point Density, pts/mi	1.5			
Lane Width, ft	12	Left-Side Lateral Clearance (LCR), ft	4			
Median Type	Divided	Total Lateral Clearance (TLC), ft	10			
Free-Flow Speed (FFS), mi/h	44.2					
Direction 2 Adjustment Factor	ors					
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 Cap	acity					
Volume(V) veh/h	642	Heavy Vehicle Adjustment Factor (fHV)	0.951			
Peak Hour Factor	0.90	Flow Rate (Vp), pc/h/ln	375			
Total Trucks, %	5.12	Capacity (c), pc/h/ln	1900			
Single-Unit Trucks (SUT), %	-	Adjusted Capacity (cadj), pc/h/ln	1900			
Tractor-Trailers (TT), %	-	Volume-to-Capacity Ratio (v/c)	0.20			
Direction 2 Speed and Densi	ty					
Lane Width Adjustment (fLW)	0.0	Average Speed (S), mi/h	44.2			
Total Lateral Clearance Adj. (fLLC)	0.4	Density (D), pc/mi/ln	8.5			
Median Type Adjustment (fM)	0.0	Level of Service (LOS)	А			
Access Point Density Adjustment (fA)	0.4					
Direction 2 Bicycle LOS						
Flow Rate in Outside Lane (vol.),veh/h	357	Effective Speed Factor (St)	4.42			
Effective Width of Volume (Wv), ft	18	Bicyle LOS Score (BLOS)	3.37			
Average Effective Width (We), ft	24	Bicycle Level of Service (LOS)	С			

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	HCS7 Two	o-Lane	Highway Re	eport	
Project Information					
Analyst	ВН		Date		06/15/2020
Agency	PDE		Analysis Year		2020
Jurisdiction	NYSDOT	NYSDOT		zed	Construction
Project Description	US 20	US 20			United States Customary
		Segn	ment 1		
Vehicle Inputs					
Segment Type	Passing Zone		Length, ft		5280
Lane Width, ft	12		Shoulder Width, f	t	6
Speed Limit, mi/h	45		Access Point Dens	ity, pts/mi	3.0
Demand and Capacity					
Directional Demand Flow Rate, veh/l	h 633		Opposing Demand Flow Rate, veh/h		567
Peak Hour Factor	0.90		Total Trucks, %		7.37
Segment Capacity, veh/h	1700		Demand/Capacity (D/C)		0.37
Intermediate Results					
Segment Vertical Class	1		Free-Flow Speed,	mi/h	50.3
Speed Slope Coefficient	3.13197		Speed Power Coefficient		0.47371
PF Slope Coefficient	-1.30757		PF Power Coefficient		0.76247
In Passing Lane Effective Length?	No		Total Segment De	nsity, veh/mi/ln	8.0
%Improved % Followers	0.0		% Improved Avg Speed		0.0
Subsegment Data					
# Segment Type	Length, ft	Rac	dius, ft	Superelevation, %	Average Speed, mi/h
1 Tangent	5280	-		-	48.0
Vehicle Results					
Average Speed, mi/h	48.0		Percent Followers, %		60.3
Segment Travel Time, minutes	1.25		Followers Density,	followers/mi/ln	8.0
Vehicle LOS	С				
venicie LOS	C				

HCSTM Two-Lane Version 7.8 H2 - Existing - US 20 (east).xuf Generated: 06/15/2020 17:15:29