APPENDIX 16-8

HIGHWAY CAPACITY SOFTWARE (HCS) LEVEL OF SERVICE OUTPUT

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Argersinger Road	Units	U.S. 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	21	Opposing Demand Flow Rate, veh/h	14
Peak Hour Factor	0.90	Total Trucks, %	5.00
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 (m)	3.28660	Speed Power Coefficient (p)	0.63433
PF Slope Coefficient (m)	-1.13931	PF Power Coefficient (p)	0.82732
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	4.6
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	5	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Borden Road	Units	U.S. 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	11	Opposing Demand Flow Rate, veh/h	11
Peak Hour Factor	0.90	Total Trucks, %	8.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.01

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.5
Speed Slope Coefficient (m)	3.30886	Speed Power Coefficient (p)	0.63924
PF Slope Coefficient (m)	-1.13308	PF Power Coefficient (p)	0.83063
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.5

Vehicle Results

Average Speed, mi/h	57.5	Percent Followers, %	2.7
Segment Travel Time, minutes	1.04	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	3	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Fisher Road	Units	U.S. 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	10	Opposing Demand Flow Rate, veh/h	21
Peak Hour Factor	0.90	Total Trucks, %	1.00
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 (m)	3.30205	Speed Power Coefficient (p)	0.62612
PF Slope Coefficient (m)	-1.14650	PF Power Coefficient (p)	0.82495
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	2.5
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	2	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Hyney Hill Road	Units	U.S. 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	11	Opposing Demand Flow Rate, veh/h	16
Peak Hour Factor	0.90	Total Trucks, %	6.00
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 (m)	3.28628	Speed Power Coefficient (p)	0.63284
PF Slope Coefficient (m)	-1.14062	PF Power Coefficient (p)	0.82698
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	2.7
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	3	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Logtown Road	Units	U.S. 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	38	Opposing Demand Flow Rate, veh/h	41
Peak Hour Factor	0.90	Total Trucks, %	6.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.02

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient (m)	3.31187	Speed Power Coefficient (p)	0.60789
PF Slope Coefficient (m)	-1.16259	PF Power Coefficient (p)	0.82042
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.1
%Improvement to Percent Followers	0.0	%Improvement to 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, %	7.6
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.1
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	9	0.00	0.1	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Mill Point Road	Units	U.S. 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	47	Opposing Demand Flow Rate, veh/h	47
Peak Hour Factor	0.90	Total Trucks, %	16.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.03

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.2
Speed Slope Coefficient (m)	3.33069	Speed Power Coefficient (p)	0.60379
PF Slope Coefficient (m)	-1.16425	PF Power Coefficient (p)	0.82169
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.1
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.2

Vehicle Results

Average Speed, mi/h	57.2	Percent Followers, %	9.0
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.1
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	11	0.00	0.1	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	NY-5S	Units	U.S. 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	7	Opposing Demand Flow Rate, veh/h	20
Peak Hour Factor	0.90	Total Trucks, %	11.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.00

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	59.6
Speed Slope Coefficient (m)	3.43449	Speed Power Coefficient (p)	0.62737
PF Slope Coefficient (m)	-1.13544	PF Power Coefficient (p)	0.83433
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	1.7
Segment Travel Time, minutes	1.01	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	2	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	NY-30A	Units	U.S. Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	1
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	102	Opposing Demand Flow Rate, veh/h	107
Peak Hour Factor	0.90	Total Trucks, %	16.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.06

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.3
Speed Slope Coefficient (m)	3.37235	Speed Power Coefficient (p)	0.57131
PF Slope Coefficient (m)	-1.19275	PF Power Coefficient (p)	0.81339
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.3
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.2

Vehicle Results

Average Speed, mi/h	57.2	Percent Followers, %	17.0
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.3
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	23	0.00	0.3	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Existing
Project Description	Van Epps Road	Units	U.S. 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	33	Opposing Demand Flow Rate, veh/h	36
Peak Hour Factor	0.90	Total Trucks, %	2.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.02

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.1
Speed Slope Coefficient (m)	3.31443	Speed Power Coefficient (p)	0.61232
PF Slope Coefficient (m)	-1.15865	PF Power Coefficient (p)	0.82137
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	6.8
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	8	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Argersinger Road	Units	U.S. 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	21	Opposing Demand Flow Rate, veh/h	14
Peak Hour Factor	0.90	Total Trucks, %	5.00
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 (m)	3.28660	Speed Power Coefficient (p)	0.63433
PF Slope Coefficient (m)	-1.13931	PF Power Coefficient (p)	0.82732
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	4.6
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	5	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Borden Road	Units	U.S. 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	11	Opposing Demand Flow Rate, veh/h	11
Peak Hour Factor	0.90	Total Trucks, %	8.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.01

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.5
Speed Slope Coefficient (m)	3.30886	Speed Power Coefficient (p)	0.63924
PF Slope Coefficient (m)	-1.13308	PF Power Coefficient (p)	0.83063
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	57.5

Vehicle Results

Average Speed, mi/h	57.5	Percent Followers, %	2.7
Segment Travel Time, minutes	1.04	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	3	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Fisher Road	Units	U.S. 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	10	Opposing Demand Flow Rate, veh/h	21
Peak Hour Factor	0.90	Total Trucks, %	1.00
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 (m)	3.30205	Speed Power Coefficient (p)	0.62612
PF Slope Coefficient (m)	-1.14650	PF Power Coefficient (p)	0.82495
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	2.5
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	2	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Hyney Hill Road	Units	U.S. 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	11	Opposing Demand Flow Rate, veh/h	16
Peak Hour Factor	0.90	Total Trucks, %	6.00
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 (m)	3.28628	Speed Power Coefficient (p)	0.63284
PF Slope Coefficient (m)	-1.14062	PF Power Coefficient (p)	0.82698
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0
%Improvement to Percent Followers	0.0	%Improvement to 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, %	2.7
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.0
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	3	0.00	0.0	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Logtown Road	Units	U.S. 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	38	Opposing Demand Flow Rate, veh/h	41
Peak Hour Factor	0.90	Total Trucks, %	6.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.02

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0
Speed Slope Coefficient (m)	3.31187	Speed Power Coefficient (p)	0.60789
PF Slope Coefficient (m)	-1.16259	PF Power Coefficient (p)	0.82042
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.1
%Improvement to Percent Followers	0.0	%Improvement to 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, %	7.6
Segment Travel Time, minutes	1.05	Follower Density (FD), followers/mi/ln	0.1
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	9	0.00	0.1	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Mill Point Road	Units	U.S. 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	263	Opposing Demand Flow Rate, veh/h	263
Peak Hour Factor	0.90	Total Trucks, %	14.95
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.3
Speed Slope Coefficient (m)	3.42998	Speed Power Coefficient (p)	0.52320
PF Slope Coefficient (m)	-1.23607	PF Power Coefficient (p)	0.79983
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.6
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	55.9

Vehicle Results

Average Speed, mi/h	55.9	Percent Followers, %	34.6
Segment Travel Time, minutes	1.07	Follower Density (FD), followers/mi/ln	1.6
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	59	0.02	1.6	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	NY-5S	Units	U.S. 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	76	Opposing Demand Flow Rate, veh/h	88
Peak Hour Factor	0.90	Total Trucks, %	34.33
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.04

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	58.8
Speed Slope Coefficient (m)	3.44315	Speed Power Coefficient (p)	0.57993
PF Slope Coefficient (m)	-1.17742	PF Power Coefficient (p)	0.82291
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.2
%Improvement to Percent Followers	0.0	%Improvement to 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, %	13.1
Segment Travel Time, minutes	1.02	Follower Density (FD), followers/mi/ln	0.2
Vehicle LOS	A		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	17	0.00	0.2	A

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	NY-30A	Units	U.S. Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	5280
Lane Width, ft	11	Shoulder Width, ft	1
Speed Limit, mi/h	55	Access Point Density, pts/mi	3.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	409	Opposing Demand Flow Rate, veh/h	412
Peak Hour Factor	0.90	Total Trucks, %	22.17
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	57.1
Speed Slope Coefficient (m)	3.46462	Speed Power Coefficient (p)	0.49486
PF Slope Coefficient (m)	-1.26089	PF Power Coefficient (p)	0.79204
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.4
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	55.2

Vehicle Results

Average Speed, mi/h	55.2	Percent Followers, %	46.3
Segment Travel Time, minutes	1.09	Follower Density (FD), followers/mi/ln	3.4
Vehicle LOS	B		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	92	0.06	3.4	B

HCS Two-Lane Highway Report

Project Information

Analyst	BH	Date	8/30/2023
Agency	DTS Provident	Analysis Year	2023
Jurisdiction	NYSDOT	Time Analyzed	Proposed
Project Description	Van Epps Road	Units	U.S. 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	496	Opposing Demand Flow Rate, veh/h	498
Peak Hour Factor	0.90	Total Trucks, %	21.50
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.29

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	56.4
Speed Slope Coefficient (m)	3.44870	Speed Power Coefficient (p)	0.48237
PF Slope Coefficient (m)	-1.27501	PF Power Coefficient (p)	0.78597
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	4.8
%Improvement to Percent Followers	0.0	%Improvement to Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5280	-	-	54.2

Vehicle Results

Average Speed, mi/h	54.2	Percent Followers, %	52.0
Segment Travel Time, minutes	1.11	Follower Density (FD), followers/mi/ln	4.8
Vehicle LOS	C		

Facility Results

T	VMT veh-mi/AP	VHD veh-h/p	Follower Density, followers/ mi/ln	LOS
1	112	0.08	4.8	C