

HCS7 Two-Lane Highway Report

Project Information

Analyst	DKI	Date	5/13/2024
Agency		Analysis Year	2024
Jurisdiction		Time Period Analyzed	Peak hour 88 workers on 1 shift
Project Description	SR 5S	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	380	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	0.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.22

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.7
Speed Slope Coefficient	3.95851	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27400	PF Power Coefficient	0.76743
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.9
%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, %	45.4
Segment Travel Time, minutes	0.99	Follower Density, followers/mi/ln	2.9
Vehicle LOS	B		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	2.9	B

Crash Level Details

Case Number	Max Injury in Crash	Crash Severity	Access Control
38788820		PROPERTY DAMAGE	999
38827605		PROPERTY DAMAGE	999
38829957		PROPERTY DAMAGE	999
38863932	C - POSSIBLE INJURY	INJURY	999
38920472		PROPERTY DAMAGE	999
38920559		PROPERTY DAMAGE	999
38944674	A - SERIOUS INJURY	INJURY	999
38992728		PROPERTY DAMAGE	999
39007917		PROPERTY DAMAGE	999
39011767		PROPERTY DAMAGE	999
39031330		PROPERTY DAMAGE	999
39049614		PROPERTY DAMAGE	999
39066296		PROPERTY DAMAGE	999
39078170		PROPERTY DAMAGE	999
39082076		PROPERTY DAMAGE	999
39099090		PROPERTY DAMAGE	999
39129225		PROPERTY DAMAGE	999
39141169		PROPERTY DAMAGE	999
39153178		PROPERTY DAMAGE	999
39160563		PROPERTY DAMAGE	999
39169180		PROPERTY DAMAGE	999
39187052		PROPERTY DAMAGE	999
39227373		PROPERTY DAMAGE	999
39229346		PROPERTY DAMAGE	999
39236906		PROPERTY DAMAGE	999
39238830		PROPERTY DAMAGE	999
39284647		PROPERTY DAMAGE	999
39325964	A - SERIOUS INJURY	INJURY	999
39361074		PROPERTY DAMAGE	999
39362677		PROPERTY DAMAGE	999
39399527		PROPERTY DAMAGE	999
39585306	U - UNKNOWN	PROPERTY DAMAGE	999
39606514	U - UNKNOWN	PROPERTY DAMAGE	999
39606533	U - UNKNOWN	PROPERTY DAMAGE	999
39629877	U - UNKNOWN	PROPERTY DAMAGE	999
39738680	U - UNKNOWN	PROPERTY DAMAGE	999
39752003	B - INJURY	INJURY	999
39752035	U - UNKNOWN	PROPERTY DAMAGE	999
39768740	U - UNKNOWN	PROPERTY DAMAGE	999
39782209	U - UNKNOWN	PROPERTY DAMAGE	999
39797608	U - UNKNOWN	PROPERTY DAMAGE	999
39886886	U - UNKNOWN	PROPERTY DAMAGE	999
39901152	U - UNKNOWN	PROPERTY DAMAGE	999
39933152	U - UNKNOWN	PROPERTY DAMAGE	999
39938663	U - UNKNOWN	PROPERTY DAMAGE	999

40039081 U - UNKNOWN	PROPERTY DAMAGE	999
40047376 U - UNKNOWN	PROPERTY DAMAGE	999
40062123 U - UNKNOWN	PROPERTY DAMAGE	999
40095974 U - UNKNOWN	PROPERTY DAMAGE	999
40282005 U - UNKNOWN	PROPERTY DAMAGE	999

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Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5280
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	55	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	286	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	0.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.17

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	62.7
Speed Slope Coefficient	3.95851	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27400	PF Power Coefficient	0.76743
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.8
%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	-	-	60.7

Vehicle Results

Average Speed, mi/h	60.7	Percent Followers, %	38.6
Segment Travel Time, minutes	0.99	Follower Density, followers/mi/ln	1.8
Vehicle LOS	A		

Facility Results

T	Follower Density, followers/mi/ln	LOS
1	1.8	A