

**SH 83 Safety and Operations Analysis:
Bayou Gulch to El Paso County Line
MP 30.20 – MP 53.88
Project Code 23008**

**Appendix E – HCS Analysis and Synchro Evaluation
Results**

Prepared for:



Prepared by:



March 2022

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HCS7 Two-Lane Highway Report

Project Information

Analyst	CONSOR/Apex	Date	1/11/2022
Agency	CDOT Region 1	Analysis Year	2020
Jurisdiction	Douglas County	Time Period Analyzed	AM Peak
Project Description	SH 83 Safety and Operation Analysis - NB	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5335
Lane Width, ft	12	Shoulder Width, ft	3
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	251	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	4.90
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	69.8
Speed Slope Coefficient	4.34586	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.20426	PF Power Coefficient	0.78662
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2955	-	-	67.9
2	Horizontal Curve	2380	960	8	64.2

Vehicle Results

Average Speed, mi/h	66.2	Percent Followers, %	33.4
Segment Travel Time, minutes	0.92	Followers Density, followers/mi/ln	1.3
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	251	Bicycle Effective Width, ft	15
Bicycle LOS Score	5.18	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 2

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1635
Lane Width, ft	12	Shoulder Width, ft	2
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	251	Opposing Demand Flow Rate, veh/h	115
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	69.0
Speed Slope Coefficient	3.96399	Speed Power Coefficient	0.56787
PF Slope Coefficient	-1.20621	PF Power Coefficient	0.81947
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	-	-	67.6

Vehicle Results			
Average Speed, mi/h	67.6	Percent Followers, %	32.2
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	251	Bicycle Effective Width, ft	14
Bicycle LOS Score	6.81	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 3

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	5860
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	271	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	66.9

Speed Slope Coefficient	6.45386	Speed Power Coefficient	0.51255
PF Slope Coefficient	-1.27762	PF Power Coefficient	0.76399
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	3360	-	-	64.3
2	Horizontal Curve	2500	960	8	64.0

Vehicle Results

Average Speed, mi/h	64.2	Percent Followers, %	37.6
Segment Travel Time, minutes	1.04	Followers Density, followers/mi/ln	1.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	271	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.99	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 4

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1100
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	280	Opposing Demand Flow Rate, veh/h	128
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.92625	Speed Power Coefficient	0.56282
PF Slope Coefficient	-1.23055	PF Power Coefficient	0.80949
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1915	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	35.5
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Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	280	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.01	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 5

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5335
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	280	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.26258	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.21926	PF Power Coefficient	0.78318
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5335	-	-	66.2

Vehicle Results

Average Speed, mi/h	66.2	Percent Followers, %	36.2
Segment Travel Time, minutes	0.92	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	280	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.01	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 6

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
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Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	128
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.92625	Speed Power Coefficient	0.56282
PF Slope Coefficient	-1.23055	PF Power Coefficient	0.80949
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1925	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	35.3
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 7

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4225
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.25120	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.22936	PF Power Coefficient	0.78276

In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4225	-	-	66.2

Vehicle Results

Average Speed, mi/h	66.2	Percent Followers, %	36.3
Segment Travel Time, minutes	0.72	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 8

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1740
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	128
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.93387	Speed Power Coefficient	0.56282
PF Slope Coefficient	-1.21071	PF Power Coefficient	0.81840
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	660	-	-	66.8
2	Horizontal Curve	730	960	8	64.0
3	Tangent	350	-	-	66.8

Vehicle Results

Average Speed, mi/h	65.6	Percent Followers, %	34.6
Segment Travel Time, minutes	0.30	Followers Density, followers/mi/ln	1.5

Vehicle LOS	A		
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Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3540
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.24340	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.23939	PF Power Coefficient	0.78054
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3540	-	-	66.2

Vehicle Results

Average Speed, mi/h	66.2	Percent Followers, %	36.6
Segment Travel Time, minutes	0.61	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 10

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1900
Lane Width, ft	12	Shoulder Width, ft	1

Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0
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Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	128
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.93652	Speed Power Coefficient	0.56282
PF Slope Coefficient	-1.20442	PF Power Coefficient	0.82119
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	795	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	34.3
Segment Travel Time, minutes	0.32	Followers Density, followers/mi/ln	1.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 11

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	475
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.6

%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	600	-	-	66.3

Vehicle Results

Average Speed, mi/h	66.3	Percent Followers, %	39.2
Segment Travel Time, minutes	0.08	Followers Density, followers/mi/ln	1.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 12

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1740
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	284	Opposing Demand Flow Rate, veh/h	130
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.17

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.93484	Speed Power Coefficient	0.56201
PF Slope Coefficient	-1.21139	PF Power Coefficient	0.81819
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2010	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	35.1
Segment Travel Time, minutes	0.30	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
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Flow Rate Outside Lane, veh/h	284	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.01	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 13

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	8130
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	284	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.17

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	66.8
Speed Slope Coefficient	6.91269	Speed Power Coefficient	0.52093
PF Slope Coefficient	-1.27840	PF Power Coefficient	0.75675
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2960	-	-	64.0
2	Horizontal Curve	795	960	8	64.0
3	Tangent	4375	-	-	64.0

Vehicle Results

Average Speed, mi/h	64.0	Percent Followers, %	38.9
Segment Travel Time, minutes	1.44	Followers Density, followers/mi/ln	1.7
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	284	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.01	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 14

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1100
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	304	Opposing Demand Flow Rate, veh/h	139
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.93150	Speed Power Coefficient	0.55848
PF Slope Coefficient	-1.23424	PF Power Coefficient	0.80840
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2340	-	-	66.7

Vehicle Results			
Average Speed, mi/h	66.7	Percent Followers, %	37.6
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	1.7
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	304	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.05	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 15

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	2110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	304	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.22420	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27547	PF Power Coefficient	0.76866
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	600	-	-	66.1

Vehicle Results			
Average Speed, mi/h	66.1	Percent Followers, %	40.0
Segment Travel Time, minutes	0.36	Followers Density, followers/mi/ln	1.8
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	304	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.05	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 16

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1585
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	310	Opposing Demand Flow Rate, veh/h	141
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.93736	Speed Power Coefficient	0.55771
PF Slope Coefficient	-1.22170	PF Power Coefficient	0.81409
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7050	-	-	66.7

Vehicle Results			
Average Speed, mi/h	66.7	Percent Followers, %	37.5
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	1.7
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	310	Bicycle Effective Width, ft	13

Bicycle LOS Score	7.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	845
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	310	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	73.8
Speed Slope Coefficient	4.50870	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.24980	PF Power Coefficient	0.76717
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.7
%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	-	-	71.4

Vehicle Results

Average Speed, mi/h	71.4	Percent Followers, %	39.9
Segment Travel Time, minutes	0.13	Followers Density, followers/mi/ln	1.7
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	310	Bicycle Effective Width, ft	24
Bicycle LOS Score	5.02	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 18

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2430
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	310	Opposing Demand Flow Rate, veh/h	141
Peak Hour Factor	0.94	Total Trucks, %	9.00

Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18
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Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	73.8
Speed Slope Coefficient	4.24889	Speed Power Coefficient	0.55771
PF Slope Coefficient	-1.15236	PF Power Coefficient	0.84152
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%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	-	-	72.0

Vehicle Results

Average Speed, mi/h	72.0	Percent Followers, %	34.9
Segment Travel Time, minutes	0.38	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	310	Bicycle Effective Width, ft	24
Bicycle LOS Score	5.02	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 19

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	900
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	310	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	73.8
Speed Slope Coefficient	4.50870	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.24980	PF Power Coefficient	0.76717
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.7
%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	- 16	-	71.4

Vehicle Results			
Average Speed, mi/h	71.4	Percent Followers, %	39.9
Segment Travel Time, minutes	0.14	Followers Density, followers/mi/ln	1.7
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	310	Bicycle Effective Width, ft	24
Bicycle LOS Score	5.02	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 20

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1425
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	310	Opposing Demand Flow Rate, veh/h	141
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	73.8
Speed Slope Coefficient	4.23254	Speed Power Coefficient	0.55771
PF Slope Coefficient	-1.18897	PF Power Coefficient	0.82410
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	-	-	72.0

Vehicle Results			
Average Speed, mi/h	72.0	Percent Followers, %	36.4
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	1.6
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	310	Bicycle Effective Width, ft	24
Bicycle LOS Score	5.02	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 21

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	4435
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	356	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.25345	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.22693	PF Power Coefficient	0.78311
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1540	-	-	65.9
2	Horizontal Curve	2095	960	8	63.8
3	Tangent	800	-	-	65.9

Vehicle Results			
Average Speed, mi/h	64.9	Percent Followers, %	42.1
Segment Travel Time, minutes	0.78	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	356	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 22

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1215
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	356	Opposing Demand Flow Rate, veh/h	163
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.94137	Speed Power Coefficient	0.55048
PF Slope Coefficient	-1.24099	PF Power Coefficient	0.80637
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1215	-	-	66.4

Vehicle Results

Average Speed, mi/h	66.4	Percent Followers, %	41.7
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	2.2
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	356	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 23

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1160
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	356	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1160	-	-	65.9

Vehicle Results

Average Speed, mi/h	65.9	Percent Followers, %	45.2
Segment Travel Time, minutes	0.20	Followers Density, followers/mi/ln	2.4
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	356	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 24

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	356	Opposing Demand Flow Rate, veh/h	163
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.94137	Speed Power Coefficient	0.55048
PF Slope Coefficient	-1.24099	PF Power Coefficient	0.80637
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	66.4

Vehicle Results

Average Speed, mi/h	66.4	Percent Followers, %	41.7
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	2.2
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	356	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 25

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4330		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	356	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21		
Intermediate Results					
Segment Vertical Class	3	Free-Flow Speed, mi/h	66.1		
Speed Slope Coefficient	9.51713	Speed Power Coefficient	0.67702		
PF Slope Coefficient	-1.32607	PF Power Coefficient	0.77005		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.6		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2165	-	-	62.4
2	Horizontal Curve	1880	960	8	62.4
3	Tangent	285	-	-	62.4
Vehicle Results					
Average Speed, mi/h	62.4	Percent Followers, %	45.1		
Segment Travel Time, minutes	0.79	Followers Density, followers/mi/ln	2.6		
Vehicle LOS	B				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	356	Bicycle Effective Width, ft	13		
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 26					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	3590		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	173	Opposing Demand Flow Rate, veh/h	80		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10		
Intermediate Results					

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.94125	Speed Power Coefficient	0.58392
PF Slope Coefficient	-1.14513	PF Power Coefficient	0.84374
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3590	-	-	67.6

Vehicle Results

Average Speed, mi/h	67.6	Percent Followers, %	23.0
Segment Travel Time, minutes	0.60	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	173	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.50	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 27

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3800
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	173	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	69.6
Speed Slope Coefficient	5.98172	Speed Power Coefficient	0.51180
PF Slope Coefficient	-1.28343	PF Power Coefficient	0.76591
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	3800	-	-	68.0

Vehicle Results

Average Speed, mi/h	68.0	Percent Followers, %	28.5
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Segment Travel Time, minutes	0.64	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	173	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.50	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 28

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1635
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	173	Opposing Demand Flow Rate, veh/h	80
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.91367	Speed Power Coefficient	0.58392
PF Slope Coefficient	-1.19690	PF Power Coefficient	0.82158
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	-	-	67.6

Vehicle Results

Average Speed, mi/h	67.6	Percent Followers, %	24.7
Segment Travel Time, minutes	0.28	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	173	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.50	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 29

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1585
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Lane Width, ft	12	Shoulder Width, ft	3
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	173	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	69.0
Speed Slope Coefficient	4.93420	Speed Power Coefficient	0.49995
PF Slope Coefficient	-1.38553	PF Power Coefficient	0.74477
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.8
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1585	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	31.3
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.8
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	173	Bicycle Effective Width, ft	15
Bicycle LOS Score	5.22	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 30

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1635
Lane Width, ft	12	Shoulder Width, ft	3
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	173	Opposing Demand Flow Rate, veh/h	80
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	69.8
Speed Slope Coefficient	3.98955	Speed Power Coefficient	0.58392
PF Slope Coefficient	-1.18757	PF Power Coefficient	0.82517

In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	-	-	68.9

Vehicle Results

Average Speed, mi/h	68.9	Percent Followers, %	24.4
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	173	Bicycle Effective Width, ft	15
Bicycle LOS Score	5.22	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 31

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	7340
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	186	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	69.2
Speed Slope Coefficient	13.17671	Speed Power Coefficient	0.54012
PF Slope Coefficient	-1.73651	PF Power Coefficient	0.76881
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	12175	-	-	65.7
2	Horizontal Curve	3125	960	8	64.3

Vehicle Results

Average Speed, mi/h	65.4	Percent Followers, %	37.9
Segment Travel Time, minutes	1.28	Followers Density, followers/mi/ln	1.1
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	186	Bicycle Effective Width, ft	24
Bicycle LOS Score	3.51	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 32

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	2270
Lane Width, ft	12	Shoulder Width, ft	6
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	186	Opposing Demand Flow Rate, veh/h	85
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	73.9
Speed Slope Coefficient	4.22501	Speed Power Coefficient	0.58124
PF Slope Coefficient	-1.13838	PF Power Coefficient	0.84590
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2270	-	-	72.9

Vehicle Results			
Average Speed, mi/h	72.9	Percent Followers, %	24.0
Segment Travel Time, minutes	0.35	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	186	Bicycle Effective Width, ft	24
Bicycle LOS Score	3.51	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 33

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	13465
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	186	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results			
Segment Vertical Class	5	Free-Flow Speed, mi/h	62.5
Speed Slope Coefficient	21.20406	Speed Power Coefficient	0.30590
PF Slope Coefficient	-2.36857	PF Power Coefficient	0.80122
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	Horizontal Curve	3125	960	8	52.5
2	Tangent	5415	-	-	52.5
3	Horizontal Curve	2290	960	8	52.5
4	Tangent	2635	-	-	52.5

Vehicle Results			
Average Speed, mi/h	52.5	Percent Followers, %	46.0
Segment Travel Time, minutes	2.92	Followers Density, followers/mi/ln	1.6
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	186	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.54	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 34

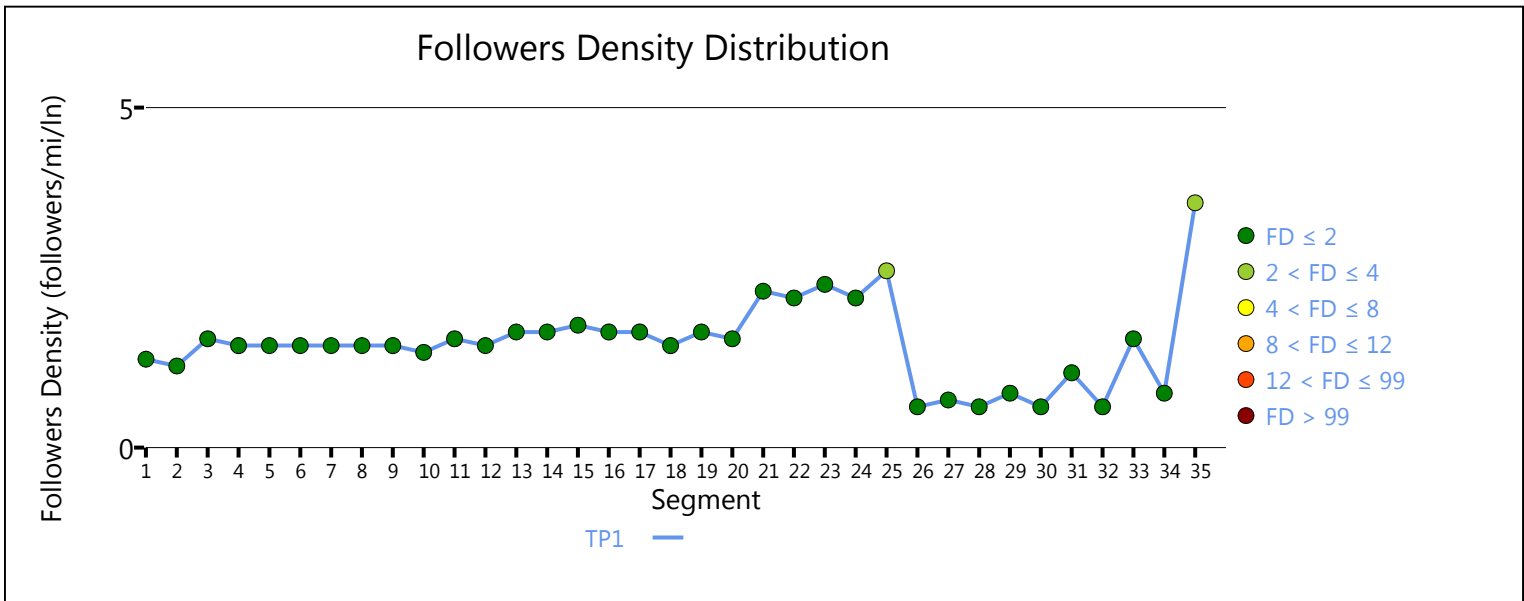
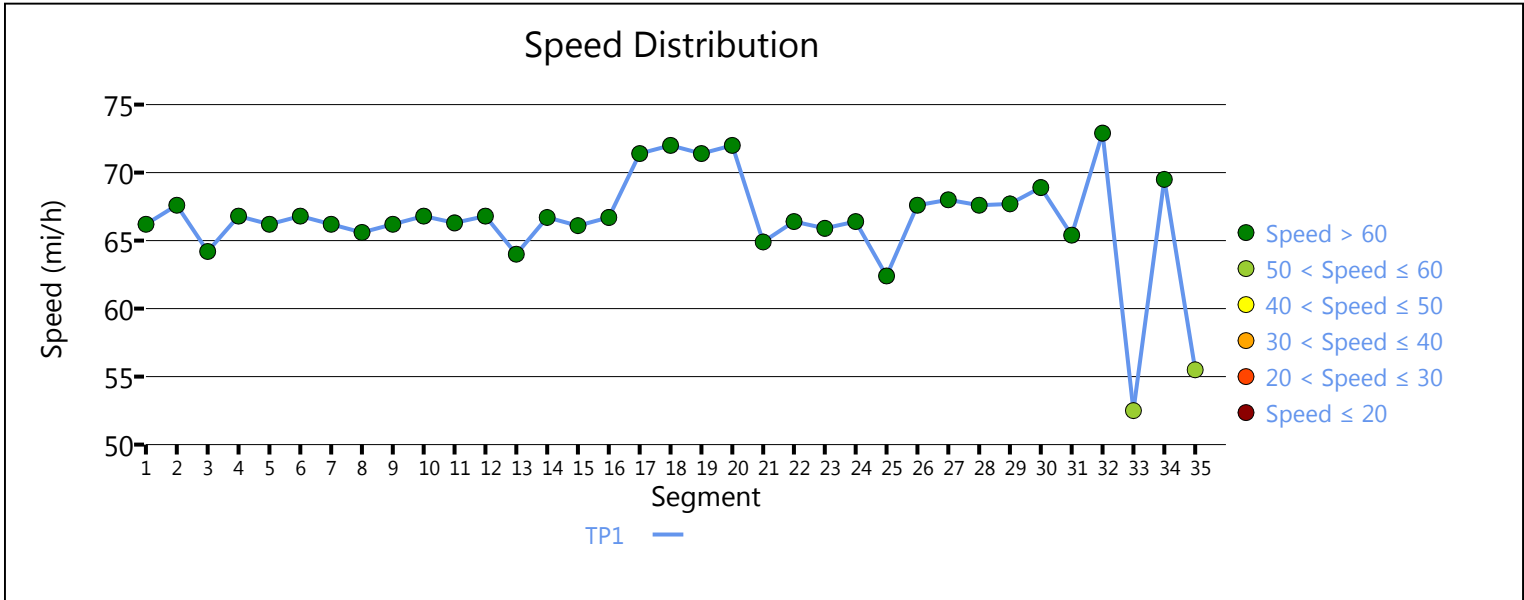
Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	2430
Lane Width, ft	12	Shoulder Width, ft	5
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	202	Opposing Demand Flow Rate, veh/h	93
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.12

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	70.5
Speed Slope Coefficient	4.91942	Speed Power Coefficient	0.70520

PF Slope Coefficient	-1.14351	PF Power Coefficient	0.83802		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.8		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2265	-	-	69.5
Vehicle Results					
Average Speed, mi/h	69.5	Percent Followers, %	25.9		
Segment Travel Time, minutes	0.40	Followers Density, followers/mi/ln	0.8		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	202	Bicycle Effective Width, ft	22		
Bicycle LOS Score	4.01	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	D				
Segment 35					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	4540		
Lane Width, ft	12	Shoulder Width, ft	2		
Speed Limit, mi/h	55	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	410	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.24		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	57.7		
Speed Slope Coefficient	3.68076	Speed Power Coefficient	0.41674		
PF Slope Coefficient	-1.32246	PF Power Coefficient	0.75555		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	3.6		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3770	-	-	55.5
Vehicle Results					
Average Speed, mi/h	55.5	Percent Followers, %	49.0		
Segment Travel Time, minutes	0.93	Followers Density, followers/mi/ln	3.6		
Vehicle LOS	B				

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	410	Bicycle Effective Width, ft	14
Bicycle LOS Score	5.67	Bicycle Effective Speed Factor	4.79
Bicycle LOS	F		



HCS7 Two-Lane Highway Report

Project Information

Analyst	CONSOR/Apex	Date	7/16/2021
Agency	CDOT Region 1	Analysis Year	2020
Jurisdiction	Douglas County	Time Period Analyzed	AM Peak
Project Description	SH 83 Safety and Operation Analysis - SB	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6125
Lane Width, ft	12	Shoulder Width, ft	2
Speed Limit, mi/h	45	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	187	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	46.3
Speed Slope Coefficient	3.07829	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37840	PF Power Coefficient	0.71945
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	6125	-	-	45.2

Vehicle Results

Average Speed, mi/h	45.2	Percent Followers, %	33.8
Segment Travel Time, minutes	1.54	Followers Density, followers/mi/ln	1.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	187	Bicycle Effective Width, ft	14
Bicycle LOS Score	5.08	Bicycle Effective Speed Factor	4.42
Bicycle LOS	E		

Segment 2

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1690		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	93	Opposing Demand Flow Rate, veh/h	202		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	71.9		
Speed Slope Coefficient	4.15910	Speed Power Coefficient	0.53865		
PF Slope Coefficient	-1.20651	PF Power Coefficient	0.81938		
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	1690	-	-	71.9
Vehicle Results					
Average Speed, mi/h	71.9	Percent Followers, %	15.8		
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.2		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	93	Bicycle Effective Width, ft	34		
Bicycle LOS Score	0.25	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	A				
Segment 3					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	11880		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	93	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05		
Intermediate Results					
Segment Vertical Class	4	Free-Flow Speed, mi/h	65.7		
Speed Slope Coefficient	13.20663	Speed Power Coefficient	0.40914		

PF Slope Coefficient	-1.97178	PF Power Coefficient	0.75086		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.4		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	8660	-	-	65.7
2	Horizontal Curve	3220	960	8	65.7
Vehicle Results					
Average Speed, mi/h	65.7	Percent Followers, %	28.1		
Segment Travel Time, minutes	2.06	Followers Density, followers/mi/ln	0.4		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	93	Bicycle Effective Width, ft	20		
Bicycle LOS Score	4.03	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	D				
Segment 4					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	1585		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	93	Opposing Demand Flow Rate, veh/h	202		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05		
Intermediate Results					
Segment Vertical Class	2	Free-Flow Speed, mi/h	67.7		
Speed Slope Coefficient	4.17044	Speed Power Coefficient	0.63813		
PF Slope Coefficient	-1.24398	PF Power Coefficient	0.80310		
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	1585	-	-	67.7
Vehicle Results					
Average Speed, mi/h	67.7	Percent Followers, %	16.8		
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.2		

Vehicle LOS	A		
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Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	93	Bicycle Effective Width, ft	20
Bicycle LOS Score	4.03	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 5

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	315
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	93	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	4.21673	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31065	PF Power Coefficient	0.75485
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	315	-	-	68.4

Vehicle Results

Average Speed, mi/h	68.4	Percent Followers, %	19.5
Segment Travel Time, minutes	0.05	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	93	Bicycle Effective Width, ft	20
Bicycle LOS Score	4.03	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 6

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2005
Lane Width, ft	12	Shoulder Width, ft	1

Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0
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Demand and Capacity

Directional Demand Flow Rate, veh/h	93	Opposing Demand Flow Rate, veh/h	202
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	67.7
Speed Slope Coefficient	4.35768	Speed Power Coefficient	0.63970
PF Slope Coefficient	-1.21888	PF Power Coefficient	0.81076
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	2005	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	16.2
Segment Travel Time, minutes	0.34	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	93	Bicycle Effective Width, ft	20
Bicycle LOS Score	4.03	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 7

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	10295
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	80	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	65.7
Speed Slope Coefficient	12.70234	Speed Power Coefficient	0.44834
PF Slope Coefficient	-1.88856	PF Power Coefficient	0.76212
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.3

%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	685	-	-	65.7
2	Horizontal Curve	2204	960	8	65.7
3	Tangent	7406	-	-	65.7

Vehicle Results

Average Speed, mi/h	65.7	Percent Followers, %	24.0
Segment Travel Time, minutes	1.78	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	80	Bicycle Effective Width, ft	21
Bicycle LOS Score	3.75	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 8

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	3060
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	80	Opposing Demand Flow Rate, veh/h	173
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.97865	Speed Power Coefficient	0.54710
PF Slope Coefficient	-1.18421	PF Power Coefficient	0.83003
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	3060	-	-	68.4

Vehicle Results

Average Speed, mi/h	68.4	Percent Followers, %	13.5
Segment Travel Time, minutes	0.51	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	80	Bicycle Effective Width, ft	21
Bicycle LOS Score	3.75	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 9

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	2430
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	80	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	4.23509	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.26418	PF Power Coefficient	0.77219
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	2430	-	-	68.4

Vehicle Results			
Average Speed, mi/h	68.4	Percent Followers, %	16.4
Segment Travel Time, minutes	0.40	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	80	Bicycle Effective Width, ft	21
Bicycle LOS Score	3.75	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 10

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	3645
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	80	Opposing Demand Flow Rate, veh/h	173
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.05

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.98581	Speed Power Coefficient	0.54710
PF Slope Coefficient	-1.17368	PF Power Coefficient	0.83357
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	3645	-	-	68.4

Vehicle Results			
Average Speed, mi/h	68.4	Percent Followers, %	13.3
Segment Travel Time, minutes	0.61	Followers Density, followers/mi/ln	0.2
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	80	Bicycle Effective Width, ft	21
Bicycle LOS Score	3.75	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 11

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	4120
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	163	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results			
Segment Vertical Class	3	Free-Flow Speed, mi/h	66.1
Speed Slope Coefficient	9.40946	Speed Power Coefficient	0.67475
PF Slope Coefficient	-1.32676	PF Power Coefficient	0.77062
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	Horizontal Curve	4120	960	8	64.3

Vehicle Results			
Average Speed, mi/h	64.3	Percent Followers, %	27.9
Segment Travel Time, minutes	0.73	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	163	Bicycle Effective Width, ft	16
Bicycle LOS Score	6.30	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 12

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	163	Opposing Demand Flow Rate, veh/h	356
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00482	Speed Power Coefficient	0.50431
PF Slope Coefficient	-1.27794	PF Power Coefficient	0.79391
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1110	-	-	67.3

Vehicle Results			
Average Speed, mi/h	67.3	Percent Followers, %	26.1
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	163	Bicycle Effective Width, ft	16

Bicycle LOS Score	6.30	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 13

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1320
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	163	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
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	1320	-	-	67.0

Vehicle Results

Average Speed, mi/h	67.0	Percent Followers, %	28.3
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	163	Bicycle Effective Width, ft	16
Bicycle LOS Score	6.30	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 14

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1210
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	163	Opposing Demand Flow Rate, veh/h	356
Peak Hour Factor	0.94	Total Trucks, %	9.00

Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.10
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Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00482	Speed Power Coefficient	0.50431
PF Slope Coefficient	-1.27794	PF Power Coefficient	0.79391
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1210	-	-	67.3

Vehicle Results

Average Speed, mi/h	67.3	Percent Followers, %	26.1
Segment Travel Time, minutes	0.20	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	163	Bicycle Effective Width, ft	16
Bicycle LOS Score	6.30	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 15

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6760
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	141	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.27558	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.21419	PF Power Coefficient	0.77950
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3280	- 40	-	67.2

2	Horizontal Curve	3480	960	8	64.4
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Vehicle Results

Average Speed, mi/h	65.8	Percent Followers, %	23.2
Segment Travel Time, minutes	1.17	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	141	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 16

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2060
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	141	Opposing Demand Flow Rate, veh/h	310
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00434	Speed Power Coefficient	0.51324
PF Slope Coefficient	-1.23805	PF Power Coefficient	0.80997
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2060	-	-	67.5

Vehicle Results

Average Speed, mi/h	67.5	Percent Followers, %	22.4
Segment Travel Time, minutes	0.35	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	141	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1320
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	139	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1320	-	-	67.2

Vehicle Results

Average Speed, mi/h	67.2	Percent Followers, %	25.6
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	139	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.05	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 18

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	139	Opposing Demand Flow Rate, veh/h	304
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98994	Speed Power Coefficient	0.51433
PF Slope Coefficient	-1.27031	PF Power Coefficient	0.79676
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	67.5

Vehicle Results

Average Speed, mi/h	67.5	Percent Followers, %	23.2
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	139	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.05	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 19

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2480
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	139	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.22967	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.26349	PF Power Coefficient	0.77294
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2480	-	-	67.2

Vehicle Results

Average Speed, mi/h	67.2	Percent Followers, %	24.1
Segment Travel Time, minutes	0.42	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	139	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.05	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 20

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1160
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	130	Opposing Demand Flow Rate, veh/h	284
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98383	Speed Power Coefficient	0.51858
PF Slope Coefficient	-1.26698	PF Power Coefficient	0.79794
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1160	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	22.0
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	0.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	130	Bicycle Effective Width, ft	18
Bicycle LOS Score	5.84	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 21

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	7815		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	130	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08		
Intermediate Results					
Segment Vertical Class	2	Free-Flow Speed, mi/h	66.8		
Speed Slope Coefficient	6.85373	Speed Power Coefficient	0.51976		
PF Slope Coefficient	-1.27695	PF Power Coefficient	0.75819		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6485	-	-	65.7
2	Horizontal Curve	1330	960	8	64.5
Vehicle Results					
Average Speed, mi/h	65.5	Percent Followers, %	23.8		
Segment Travel Time, minutes	1.36	Followers Density, followers/mi/ln	0.5		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	130	Bicycle Effective Width, ft	18		
Bicycle LOS Score	5.84	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 22					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	2640		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	130	Opposing Demand Flow Rate, veh/h	284		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3		

Speed Slope Coefficient	4.00514	Speed Power Coefficient	0.51858
PF Slope Coefficient	-1.21636	PF Power Coefficient	0.81840
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2640	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	20.4
Segment Travel Time, minutes	0.44	Followers Density, followers/mi/ln	0.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	130	Bicycle Effective Width, ft	18
Bicycle LOS Score	5.84	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 23

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	315
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	130	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	70.3
Speed Slope Coefficient	4.31900	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28943	PF Power Coefficient	0.75941
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	315	-	-	69.3

Vehicle Results

Average Speed, mi/h	69.3	Percent Followers, %	23.9
Segment Travel Time, minutes	0.05	Followers Density, followers/mi/ln	0.4

Vehicle LOS	A		
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Bicycle Results

Percent Occupied Parking	8	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	130	Bicycle Effective Width, ft	18
Bicycle LOS Score	5.84	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 24

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	322
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.99523	Speed Power Coefficient	0.51070
PF Slope Coefficient	-1.27310	PF Power Coefficient	0.79574
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	67.5

Vehicle Results

Average Speed, mi/h	67.5	Percent Followers, %	24.3
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	148	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.08	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 25

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3430
Lane Width, ft	12	Shoulder Width, ft	1

Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0
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Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.24208	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.24135	PF Power Coefficient	0.78001
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3430	-	-	67.1

Vehicle Results

Average Speed, mi/h	67.1	Percent Followers, %	24.4
Segment Travel Time, minutes	0.58	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	148	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.08	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 26

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1585
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	322
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00016	Speed Power Coefficient	0.51070
PF Slope Coefficient	-1.25942	PF Power Coefficient	0.80136
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5

%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1585	-	-	67.5

Vehicle Results

Average Speed, mi/h	67.5	Percent Followers, %	23.8
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	148	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.08	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 27

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4595
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.25514	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.22525	PF Power Coefficient	0.78329
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4035	-	-	67.1
2	Horizontal Curve	560	960	8	64.4

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	24.0
Segment Travel Time, minutes	0.78	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	148	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.08	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 28

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	322
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.99523	Speed Power Coefficient	0.51070
PF Slope Coefficient	-1.27310	PF Power Coefficient	0.79574
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1110	-	-	67.5

Vehicle Results

Average Speed, mi/h	67.5	Percent Followers, %	24.3
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	148	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.08	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 29

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5385
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	148	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.26307	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.21895	PF Power Coefficient	0.78313
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5385	-	-	67.1

Vehicle Results

Average Speed, mi/h	67.1	Percent Followers, %	23.9
Segment Travel Time, minutes	0.91	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	148	Bicycle Effective Width, ft	17
Bicycle LOS Score	6.08	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 30

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	128	Opposing Demand Flow Rate, veh/h	280
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.08

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98252	Speed Power Coefficient	0.51951
PF Slope Coefficient	-1.26626	PF Power Coefficient	0.79819
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	21.7
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	0.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	128	Bicycle Effective Width, ft	18
Bicycle LOS Score	5.83	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 31

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5755
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	124	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.07

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	66.1
Speed Slope Coefficient	10.18748	Speed Power Coefficient	0.69240
PF Slope Coefficient	-1.33484	PF Power Coefficient	0.76328
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3430	-	-	65.4
2	Horizontal Curve	2325	960	8	64.5

Vehicle Results

Average Speed, mi/h	65.0	Percent Followers, %	23.8
Segment Travel Time, minutes	1.01	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	124	Bicycle Effective Width, ft	18

Bicycle LOS Score	5.82	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 32

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1530
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	115	Opposing Demand Flow Rate, veh/h	251
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.07

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.97732	Speed Power Coefficient	0.52606
PF Slope Coefficient	-1.25014	PF Power Coefficient	0.80458
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	1530	-	-	67.9

Vehicle Results

Average Speed, mi/h	67.9	Percent Followers, %	19.7
Segment Travel Time, minutes	0.26	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	115	Bicycle Effective Width, ft	19
Bicycle LOS Score	5.59	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 33

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3645
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	115	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00

Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.07
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Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.24464	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.23762	PF Power Coefficient	0.78099
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.4
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	945	-	-	67.6
2	Horizontal Curve	2700	960	8	64.6

Vehicle Results

Average Speed, mi/h	65.4	Percent Followers, %	20.4
Segment Travel Time, minutes	0.63	Followers Density, followers/mi/ln	0.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	115	Bicycle Effective Width, ft	19
Bicycle LOS Score	5.59	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 34

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	115	Opposing Demand Flow Rate, veh/h	251
Peak Hour Factor	0.94	Total Trucks, %	4.90
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.07

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.98077	Speed Power Coefficient	0.52606
PF Slope Coefficient	-1.26051	PF Power Coefficient	0.79969
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	945	-	-	67.6
2	Horizontal Curve	2700	960	8	64.6

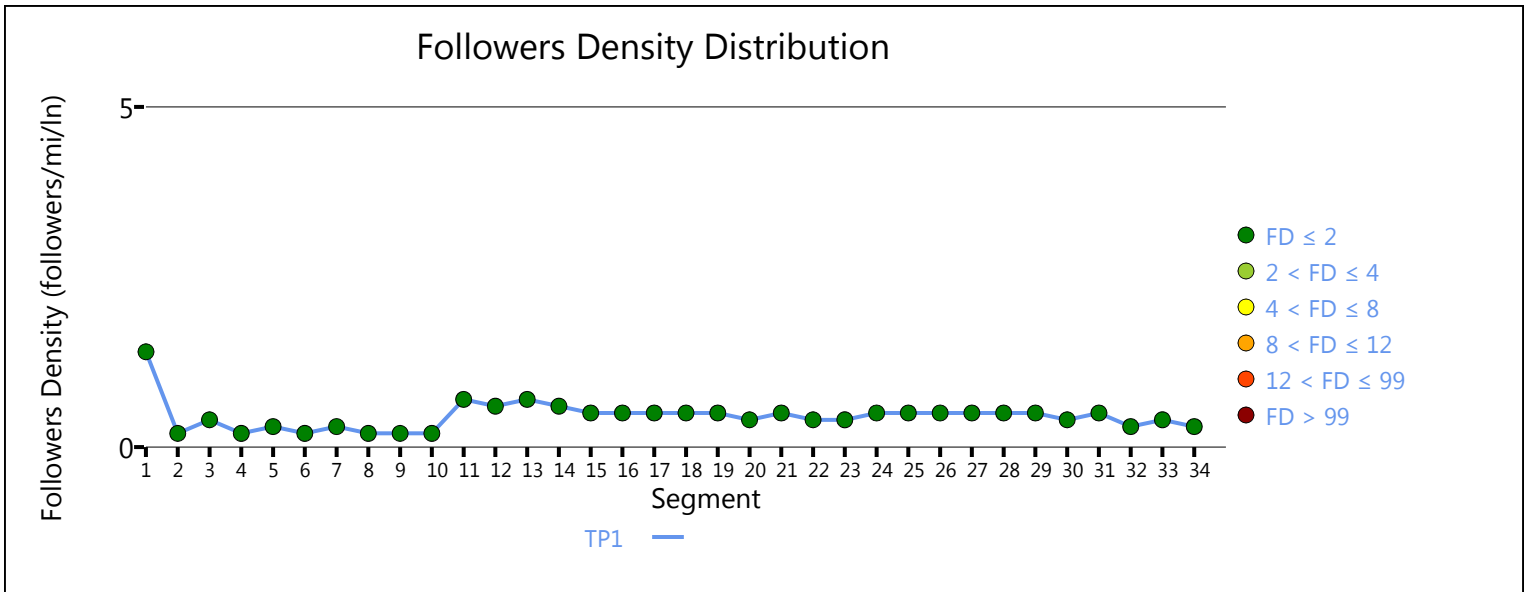
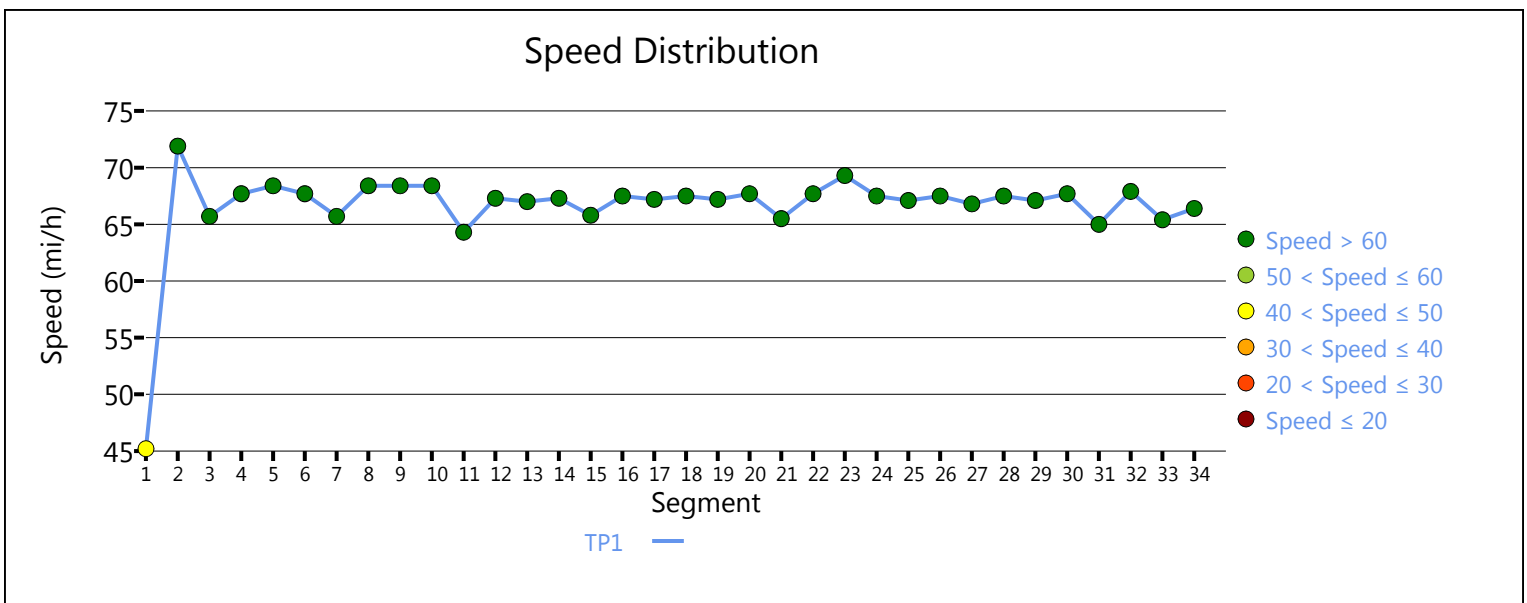
1	Horizontal Curve	548	960	8	64.7
2	Tangent	562	-	-	68.0

Vehicle Results

Average Speed, mi/h	66.4	Percent Followers, %	20.0
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	0.3
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	115	Bicycle Effective Width, ft	19
Bicycle LOS Score	4.11	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		



HCS7 Two-Lane Highway Report

Project Information

Analyst	CONSOR/Apex	Date	7/14/2021
Agency	CDOT Region 1	Analysis Year	2020
Jurisdiction	Douglas County	Time Period Analyzed	PM Peak
Project Description	SH 83 Safety and Operation Analysis - NB	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5335
Lane Width, ft	12	Shoulder Width, ft	3
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	213	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	4.90
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	69.8
Speed Slope Coefficient	4.34586	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.20426	PF Power Coefficient	0.78662
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2955	-	-	68.1
2	Horizontal Curve	2380	960	8	64.3

Vehicle Results

Average Speed, mi/h	66.4	Percent Followers, %	30.0
Segment Travel Time, minutes	0.91	Followers Density, followers/mi/ln	1.0
Vehicle LOS	A		

Segment 2

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1635
Lane Width, ft	12	Shoulder Width, ft	2
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	213	Opposing Demand Flow Rate, veh/h	278
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	69.0
Speed Slope Coefficient	4.02561	Speed Power Coefficient	0.51998
PF Slope Coefficient	-1.24481	PF Power Coefficient	0.80661
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	30.0
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.9
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	213	Bicycle Effective Width, ft	14
Bicycle LOS Score	6.73	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 3

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5860
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	230	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	66.9
Speed Slope Coefficient	6.45386	Speed Power Coefficient	0.51255
PF Slope Coefficient	-1.27762	PF Power Coefficient	0.76399
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3360	-	-	64.6
2	Horizontal Curve	2500	960	8	64.1
Vehicle Results					
Average Speed, mi/h		64.4	Percent Followers, %		34.0
Segment Travel Time, minutes		1.03	Followers Density, followers/mi/ln		1.2
Vehicle LOS		A			
Bicycle Results					
Percent Occupied Parking		0	Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h		230	Bicycle Effective Width, ft		13
Bicycle LOS Score		6.91	Bicycle Effective Speed Factor		5.07
Bicycle LOS		F			
Segment 4					
Vehicle Inputs					
Segment Type		Passing Zone	Length, ft		1100
Lane Width, ft		12	Shoulder Width, ft		1
Speed Limit, mi/h		65	Access Point Density, pts/mi		8.0
Demand and Capacity					
Directional Demand Flow Rate, veh/h		236	Opposing Demand Flow Rate, veh/h		310
Peak Hour Factor		0.94	Total Trucks, %		9.00
Segment Capacity, veh/h		1700	Demand/Capacity (D/C)		0.14
Intermediate Results					
Segment Vertical Class		1	Free-Flow Speed, mi/h		68.3
Speed Slope Coefficient		3.99151	Speed Power Coefficient		0.51324
PF Slope Coefficient		-1.27114	PF Power Coefficient		0.79645
In Passing Lane Effective Length?		No	Total Segment Density, veh/mi/ln		1.2
%Improved % Followers		0.0	% Improved Avg Speed		0.0
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1100	-	-	66.9
Vehicle Results					
Average Speed, mi/h		66.9	Percent Followers, %		33.1
Segment Travel Time, minutes		0.19	Followers Density, followers/mi/ln		1.2
Vehicle LOS		A			
Bicycle Results					
Percent Occupied Parking		0	Pavement Condition Rating		4
Flow Rate Outside Lane, veh/h		236	Bicycle Effective Width, ft		13

Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 5

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5335
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	236	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.26258	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.21926	PF Power Coefficient	0.78318
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5335	-	-	66.4

Vehicle Results

Average Speed, mi/h	66.4	Percent Followers, %	32.5
Segment Travel Time, minutes	0.91	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	236	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 6

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	236	Opposing Demand Flow Rate, veh/h	310
Peak Hour Factor	0.94	Total Trucks, %	9.00

Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14
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Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.99151	Speed Power Coefficient	0.51324
PF Slope Coefficient	-1.27114	PF Power Coefficient	0.79645
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	66.9

Vehicle Results

Average Speed, mi/h	66.9	Percent Followers, %	33.1
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	236	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 7

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4225
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	235	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.25120	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.22936	PF Power Coefficient	0.78276
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4225	- 60	-	66.5

Vehicle Results			
Average Speed, mi/h	66.5	Percent Followers, %	32.7
Segment Travel Time, minutes	0.72	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	235	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 8

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1740
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	235	Opposing Demand Flow Rate, veh/h	309
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.99882	Speed Power Coefficient	0.51346
PF Slope Coefficient	-1.25037	PF Power Coefficient	0.80500
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	660	-	-	66.9
2	Horizontal Curve	730	960	8	64.1
3	Tangent	350	-	-	66.9

Vehicle Results			
Average Speed, mi/h	65.7	Percent Followers, %	32.3
Segment Travel Time, minutes	0.30	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	235	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07

Bicycle LOS	F		
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Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3540
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	235	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.24340	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.23939	PF Power Coefficient	0.78054
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3540	-	-	66.5

Vehicle Results

Average Speed, mi/h	66.5	Percent Followers, %	33.0
Segment Travel Time, minutes	0.61	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	235	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 10

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1900
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	235	Opposing Demand Flow Rate, veh/h	309
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00148	Speed Power Coefficient	0.51346
PF Slope Coefficient	-1.24384	PF Power Coefficient	0.80765
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	1900	-	-	66.9

Vehicle Results			
Average Speed, mi/h	66.9	Percent Followers, %	32.0
Segment Travel Time, minutes	0.32	Followers Density, followers/mi/ln	1.1
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	235	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.92	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 11

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	475
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	240	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	475	-	-	66.4

Vehicle Results			
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Average Speed, mi/h	66.4	Percent Followers, %	36.0
Segment Travel Time, minutes	0.08	Followers Density, followers/mi/ln	1.3
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	240	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.93	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 12

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1740
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	240	Opposing Demand Flow Rate, veh/h	315
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.14

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00069	Speed Power Coefficient	0.51218
PF Slope Coefficient	-1.25134	PF Power Coefficient	0.80463
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1740	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	32.8
Segment Travel Time, minutes	0.30	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	240	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.93	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 13

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	8130		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	257	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15		
Intermediate Results					
Segment Vertical Class	2	Free-Flow Speed, mi/h	66.8		
Speed Slope Coefficient	6.91269	Speed Power Coefficient	0.52093		
PF Slope Coefficient	-1.27840	PF Power Coefficient	0.75675		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2960	-	-	64.2
2	Horizontal Curve	795	960	8	64.0
3	Tangent	4375	-	-	64.2
Vehicle Results					
Average Speed, mi/h	64.2	Percent Followers, %	36.7		
Segment Travel Time, minutes	1.44	Followers Density, followers/mi/ln	1.5		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	257	Bicycle Effective Width, ft	13		
Bicycle LOS Score	6.96	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 14					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	1100		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	257	Opposing Demand Flow Rate, veh/h	337		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15		
Intermediate Results					

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.99949	Speed Power Coefficient	0.50784
PF Slope Coefficient	-1.27528	PF Power Coefficient	0.79492
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	1100	-	-	66.7

Vehicle Results

Average Speed, mi/h	66.7	Percent Followers, %	35.2
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	1.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	257	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.96	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 15

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	257	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.22420	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.27547	PF Power Coefficient	0.76866
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	2110	-	-	66.3

Vehicle Results

Average Speed, mi/h	66.3	Percent Followers, %	36.2
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Segment Travel Time, minutes	0.36	Followers Density, followers/mi/ln	1.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	257	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.96	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 16

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1585
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	263	Opposing Demand Flow Rate, veh/h	337
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.00441	Speed Power Coefficient	0.50784
PF Slope Coefficient	-1.26157	PF Power Coefficient	0.80053
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	1585	-	-	66.7

Vehicle Results

Average Speed, mi/h	66.7	Percent Followers, %	35.1
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	1.4
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	263	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.97	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 17

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	845
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Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	263	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	401	960	8	64.0
2	Tangent	444	-	-	66.3

Vehicle Results

Average Speed, mi/h	65.2	Percent Followers, %	38.0
Segment Travel Time, minutes	0.15	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	263	Bicycle Effective Width, ft	13
Bicycle LOS Score	6.97	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 18

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2430
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	263	Opposing Demand Flow Rate, veh/h	337
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.15

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.01784	Speed Power Coefficient	0.50784

PF Slope Coefficient	-1.23009	PF Power Coefficient	0.81300		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.3		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2430	-	-	66.7
Vehicle Results					
Average Speed, mi/h	66.7	Percent Followers, %	34.0		
Segment Travel Time, minutes	0.41	Followers Density, followers/mi/ln	1.3		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	263	Bicycle Effective Width, ft	13		
Bicycle LOS Score	6.97	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 19					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	900		
Lane Width, ft	12	Shoulder Width, ft	3		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	302	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	69.7		
Speed Slope Coefficient	4.28648	Speed Power Coefficient	0.41674		
PF Slope Coefficient	-1.29610	PF Power Coefficient	0.75811		
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	900	-	-	67.5
Vehicle Results					
Average Speed, mi/h	67.5	Percent Followers, %	40.7		
Segment Travel Time, minutes	0.15	Followers Density, followers/mi/ln	1.8		
Vehicle LOS	A				

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	302	Bicycle Effective Width, ft	15
Bicycle LOS Score	6.76	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 20

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1425
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	302	Opposing Demand Flow Rate, veh/h	395
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.01707	Speed Power Coefficient	0.49770
PF Slope Coefficient	-1.27704	PF Power Coefficient	0.79428
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	1425	-	-	66.5

Vehicle Results			
Average Speed, mi/h	66.5	Percent Followers, %	39.0
Segment Travel Time, minutes	0.24	Followers Density, followers/mi/ln	1.8
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	302	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.04	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 21

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	4435
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity							
Directional Demand Flow Rate, veh/h		302		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.94		Total Trucks, %		9.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.18	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		68.3	
Speed Slope Coefficient		4.25345		Speed Power Coefficient		0.41674	
PF Slope Coefficient		-1.22693		PF Power Coefficient		0.78311	
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	1540	-	-	66.1		
2	Horizontal Curve	2095	960	8	63.9		
3	Tangent	800	-	-	66.1		
Vehicle Results							
Average Speed, mi/h		65.1		Percent Followers, %		38.2	
Segment Travel Time, minutes		0.77		Followers Density, followers/mi/ln		1.8	
Vehicle LOS		A					
Bicycle Results							
Percent Occupied Parking		0		Pavement Condition Rating		4	
Flow Rate Outside Lane, veh/h		302		Bicycle Effective Width, ft		13	
Bicycle LOS Score		7.04		Bicycle Effective Speed Factor		5.07	
Bicycle LOS		F					
Segment 22							
Vehicle Inputs							
Segment Type		Passing Zone		Length, ft		1215	
Lane Width, ft		12		Shoulder Width, ft		1	
Speed Limit, mi/h		65		Access Point Density, pts/mi		8.0	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		302		Opposing Demand Flow Rate, veh/h		395	
Peak Hour Factor		0.94		Total Trucks, %		9.00	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.18	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		68.3	
Speed Slope Coefficient		4.01506		Speed Power Coefficient		0.49770	
PF Slope Coefficient		-1.28281		PF Power Coefficient		0.79196	

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	1215	-	-	66.5

Vehicle Results

Average Speed, mi/h	66.5	Percent Followers, %	39.2
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	1.8
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	302	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.04	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 23

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1160
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	302	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1160	-	-	66.1

Vehicle Results

Average Speed, mi/h	66.1	Percent Followers, %	41.2
Segment Travel Time, minutes	0.20	Followers Density, followers/mi/ln	1.9
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	302	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.04	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 24

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	302	Opposing Demand Flow Rate, veh/h	395
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.01506	Speed Power Coefficient	0.49770
PF Slope Coefficient	-1.28281	PF Power Coefficient	0.79196
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	1265	-	-	66.5

Vehicle Results

Average Speed, mi/h	66.5	Percent Followers, %	39.2
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	1.8
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	302	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.04	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 25

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4330
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	302	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	66.1
Speed Slope Coefficient	9.51713	Speed Power Coefficient	0.67702
PF Slope Coefficient	-1.32607	PF Power Coefficient	0.77005
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2165	-	-	62.9
2	Horizontal Curve	1880	960	8	62.9
3	Tangent	285	-	-	62.9

Vehicle Results

Average Speed, mi/h	62.9	Percent Followers, %	41.0
Segment Travel Time, minutes	0.78	Followers Density, followers/mi/ln	2.0
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	302	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.04	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 26

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	3590
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	147	Opposing Demand Flow Rate, veh/h	193
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	67.7
Speed Slope Coefficient	4.91828	Speed Power Coefficient	0.64894
PF Slope Coefficient	-1.16082	PF Power Coefficient	0.82863
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3590	-	-	67.0

Vehicle Results			
Average Speed, mi/h	67.0	Percent Followers, %	21.1
Segment Travel Time, minutes	0.61	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	147	Bicycle Effective Width, ft	17
Bicycle LOS Score	4.82	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 27

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3800
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	147	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results			
Segment Vertical Class	2	Free-Flow Speed, mi/h	67.6
Speed Slope Coefficient	5.54297	Speed Power Coefficient	0.49998
PF Slope Coefficient	-1.30197	PF Power Coefficient	0.76108
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3800	-	-	66.4

Vehicle Results			
Average Speed, mi/h	66.4	Percent Followers, %	26.1
Segment Travel Time, minutes	0.65	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	147	Bicycle Effective Width, ft	17

Bicycle LOS Score	4.82	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 28

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1635
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	147	Opposing Demand Flow Rate, veh/h	193
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.96492	Speed Power Coefficient	0.54137
PF Slope Coefficient	-1.23253	PF Power Coefficient	0.81055
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	-	-	67.7

Vehicle Results

Average Speed, mi/h	67.7	Percent Followers, %	22.9
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	147	Bicycle Effective Width, ft	17
Bicycle LOS Score	4.82	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 29

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1585
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	147	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60

Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09
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Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	69.6
Speed Slope Coefficient	5.02173	Speed Power Coefficient	0.50350
PF Slope Coefficient	-1.37937	PF Power Coefficient	0.74595
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1585	-	-	68.5

Vehicle Results

Average Speed, mi/h	68.5	Percent Followers, %	28.1
Segment Travel Time, minutes	0.26	Followers Density, followers/mi/ln	0.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	147	Bicycle Effective Width, ft	17
Bicycle LOS Score	4.82	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 30

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1635
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	147	Opposing Demand Flow Rate, veh/h	193
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.96492	Speed Power Coefficient	0.54137
PF Slope Coefficient	-1.23253	PF Power Coefficient	0.81055
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1635	- 77	-	67.7

Vehicle Results			
Average Speed, mi/h	67.7	Percent Followers, %	22.9
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.5
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	147	Bicycle Effective Width, ft	17
Bicycle LOS Score	4.82	Bicycle Effective Speed Factor	5.07
Bicycle LOS	E		

Segment 31

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	7340
Lane Width, ft	12	Shoulder Width, ft	3
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	147	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.09

Intermediate Results			
Segment Vertical Class	4	Free-Flow Speed, mi/h	67.1
Speed Slope Coefficient	12.25551	Speed Power Coefficient	0.52891
PF Slope Coefficient	-1.74397	PF Power Coefficient	0.76962
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	7340	-	-	64.7

Vehicle Results			
Average Speed, mi/h	64.7	Percent Followers, %	32.9
Segment Travel Time, minutes	1.29	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	147	Bicycle Effective Width, ft	20
Bicycle LOS Score	4.27	Bicycle Effective Speed Factor	5.07
Bicycle LOS	D		

Segment 32

Vehicle Inputs							
Segment Type		Passing Zone		Length, ft		2270	
Lane Width, ft		12		Shoulder Width, ft		3	
Speed Limit, mi/h		65		Access Point Density, pts/mi		8.0	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		147		Opposing Demand Flow Rate, veh/h		193	
Peak Hour Factor		0.94		Total Trucks, %		5.60	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.09	
Intermediate Results							
Segment Vertical Class		1		Free-Flow Speed, mi/h		69.8	
Speed Slope Coefficient		4.05100		Speed Power Coefficient		0.54137	
PF Slope Coefficient		-1.19905		PF Power Coefficient		0.82410	
In Passing Lane Effective Length?		No		Total Segment Density, veh/mi/ln		0.5	
%Improved % Followers		0.0		% Improved Avg Speed		0.0	
Subsegment Data							
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h		
1	Tangent	2270	-	-	69.0		
Vehicle Results							
Average Speed, mi/h		69.0		Percent Followers, %		21.9	
Segment Travel Time, minutes		0.37		Followers Density, followers/mi/ln		0.5	
Vehicle LOS		A					
Bicycle Results							
Percent Occupied Parking		0		Pavement Condition Rating		4	
Flow Rate Outside Lane, veh/h		147		Bicycle Effective Width, ft		20	
Bicycle LOS Score		4.27		Bicycle Effective Speed Factor		5.07	
Bicycle LOS		D					
Segment 33							
Vehicle Inputs							
Segment Type		Passing Constrained		Length, ft		13465	
Lane Width, ft		12		Shoulder Width, ft		6	
Speed Limit, mi/h		65		Access Point Density, pts/mi		8.0	
Demand and Capacity							
Directional Demand Flow Rate, veh/h		157		Opposing Demand Flow Rate, veh/h		-	
Peak Hour Factor		0.94		Total Trucks, %		5.60	
Segment Capacity, veh/h		1700		Demand/Capacity (D/C)		0.09	
Intermediate Results							
Segment Vertical Class		5		Free-Flow Speed, mi/h		66.0	

Speed Slope Coefficient	23.92578	Speed Power Coefficient	0.30590
PF Slope Coefficient	-2.29869	PF Power Coefficient	0.77976
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	3125	960	8	56.0
2	Tangent	5415	-	-	56.0
3	Horizontal Curve	2290	960	8	56.0
4	Tangent	2635	-	-	56.0

Vehicle Results

Average Speed, mi/h	56.0	Percent Followers, %	41.9
Segment Travel Time, minutes	2.73	Followers Density, followers/mi/ln	1.2
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	157	Bicycle Effective Width, ft	29
Bicycle LOS Score	2.09	Bicycle Effective Speed Factor	5.07
Bicycle LOS	B		

Segment 34

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2430
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	55	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	347	Opposing Demand Flow Rate, veh/h	454
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results

Segment Vertical Class	4	Free-Flow Speed, mi/h	55.8
Speed Slope Coefficient	5.21788	Speed Power Coefficient	0.69318
PF Slope Coefficient	-1.35669	PF Power Coefficient	0.76130
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	2430	-	-	53.9

Vehicle Results			
Average Speed, mi/h	53.9	Percent Followers, %	45.4
Segment Travel Time, minutes	0.51	Followers Density, followers/mi/ln	2.9
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	347	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.72	Bicycle Effective Speed Factor	4.79
Bicycle LOS	F		

Segment 35

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	4540
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

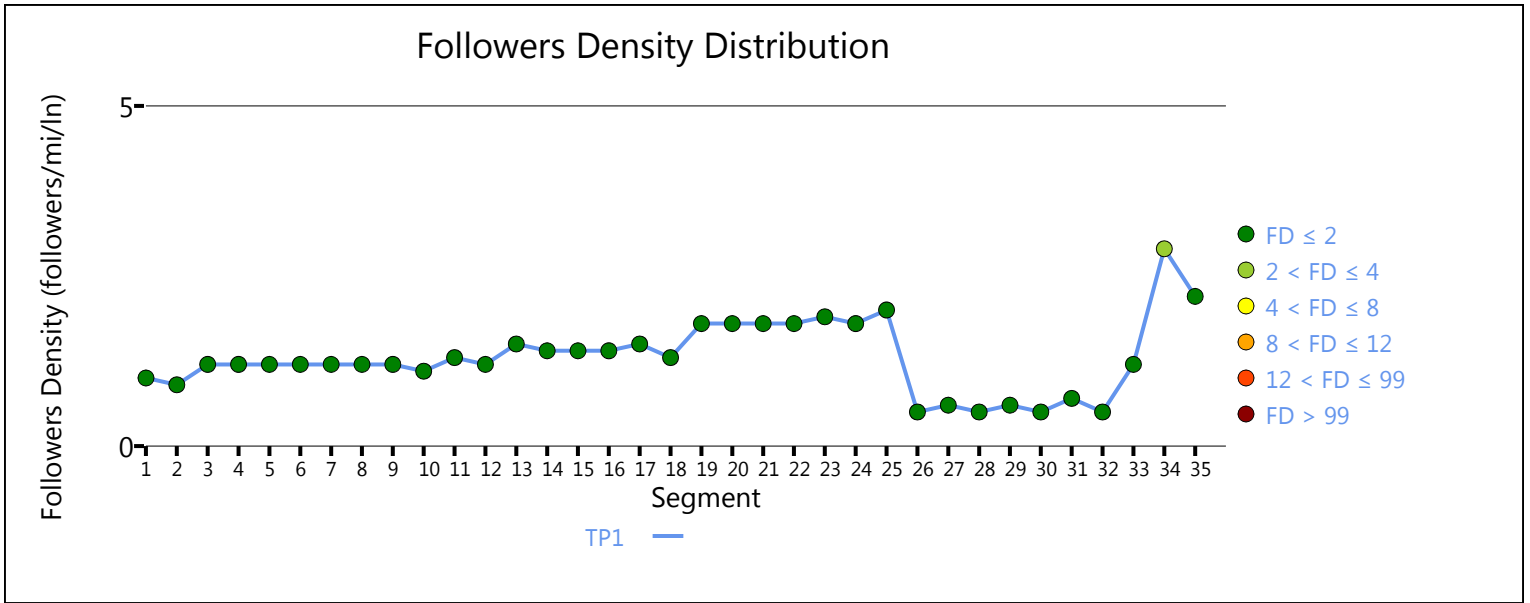
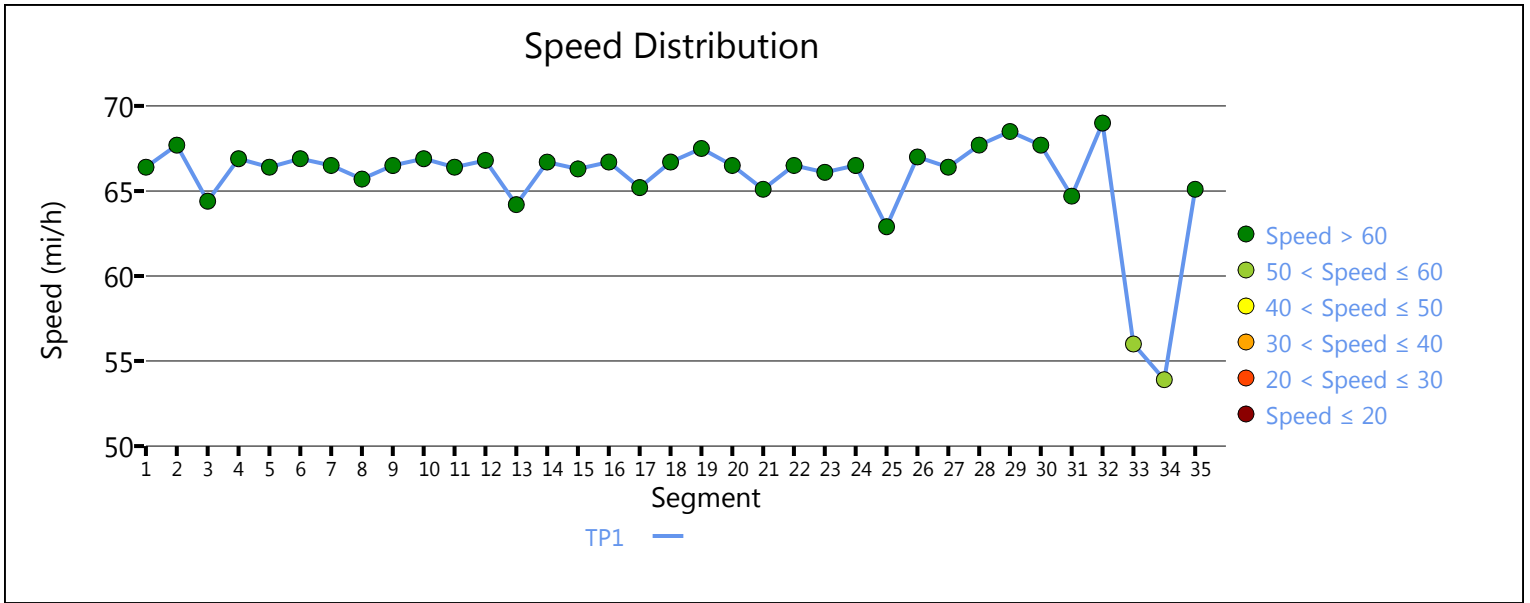
Demand and Capacity			
Directional Demand Flow Rate, veh/h	347	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	4.26070	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.22506	PF Power Coefficient	0.78302
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	2111	960	8	63.9
2	Tangent	2429	-	-	66.0

Vehicle Results			
Average Speed, mi/h	65.1	Percent Followers, %	41.4
Segment Travel Time, minutes	0.79	Followers Density, followers/mi/ln	2.2
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	347	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.86	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		



HCS7 Two-Lane Highway Report

Project Information

Analyst	CONSOR/Apex	Date	7/16/2021
Agency	CDOT Region 1	Analysis Year	2020
Jurisdiction	Douglas County	Time Period Analyzed	PM Peak
Project Description	SH 83 Safety and Operation Analysis - SB	Unit	United States Customary

Segment 1

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6125
Lane Width, ft	12	Shoulder Width, ft	2
Speed Limit, mi/h	45	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	454	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.27

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	46.3
Speed Slope Coefficient	3.07829	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.37840	PF Power Coefficient	0.71945
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	5.6
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	6125	-	-	44.3

Vehicle Results

Average Speed, mi/h	44.3	Percent Followers, %	54.2
Segment Travel Time, minutes	1.57	Followers Density, followers/mi/ln	5.6
Vehicle LOS	C		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	454	Bicycle Effective Width, ft	14
Bicycle LOS Score	5.53	Bicycle Effective Speed Factor	4.42
Bicycle LOS	F		

Segment 2

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1690		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	224	Opposing Demand Flow Rate, veh/h	171		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	71.9		
Speed Slope Coefficient	4.14739	Speed Power Coefficient	0.54776		
PF Slope Coefficient	-1.19953	PF Power Coefficient	0.82191		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.9		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1690	-	-	70.6
Vehicle Results					
Average Speed, mi/h	70.6	Percent Followers, %	29.6		
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	0.9		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	224	Bicycle Effective Width, ft	24		
Bicycle LOS Score	3.60	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	D				
Segment 3					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	11880		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	224	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13		
Intermediate Results					
Segment Vertical Class	4	Free-Flow Speed, mi/h	65.7		
Speed Slope Coefficient	13.20663	Speed Power Coefficient	0.40914		

PF Slope Coefficient	-1.97178	PF Power Coefficient	0.75086		
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	8660	-	-	60.0
2	Horizontal Curve	3220	960	8	60.0
Vehicle Results					
Average Speed, mi/h	60.0	Percent Followers, %	47.4		
Segment Travel Time, minutes	2.25	Followers Density, followers/mi/ln	1.8		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	224	Bicycle Effective Width, ft	13		
Bicycle LOS Score	5.63	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 4					
Vehicle Inputs					
Segment Type	Passing Zone	Length, ft	1585		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	224	Opposing Demand Flow Rate, veh/h	171		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.13		
Intermediate Results					
Segment Vertical Class	2	Free-Flow Speed, mi/h	67.7		
Speed Slope Coefficient	4.14433	Speed Power Coefficient	0.64919		
PF Slope Coefficient	-1.23450	PF Power Coefficient	0.80582		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.0		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1585	-	-	66.6
Vehicle Results					
Average Speed, mi/h	66.6	Percent Followers, %	31.0		
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	1.0		

Vehicle LOS	A		
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Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	224	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.63	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 5

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	315
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	193	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	4.21673	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31065	PF Power Coefficient	0.75485
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	315	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	31.5
Segment Travel Time, minutes	0.05	Followers Density, followers/mi/ln	0.9
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	193	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.56	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 6

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2005
Lane Width, ft	12	Shoulder Width, ft	6

Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	193	Opposing Demand Flow Rate, veh/h	147		
Peak Hour Factor	0.94	Total Trucks, %	5.60		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	71.9		
Speed Slope Coefficient	4.14252	Speed Power Coefficient	0.55584		
PF Slope Coefficient	-1.18124	PF Power Coefficient	0.82965		
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	2005	-	-	70.8
Vehicle Results					
Average Speed, mi/h	70.8	Percent Followers, %	26.0		
Segment Travel Time, minutes	0.32	Followers Density, followers/mi/ln	0.7		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	193	Bicycle Effective Width, ft	24		
Bicycle LOS Score	3.52	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	D				
Segment 7					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	10295		
Lane Width, ft	12	Shoulder Width, ft	6		
Speed Limit, mi/h	50	Access Point Density, pts/mi	0.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	0	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	0.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.00		
Intermediate Results					
Segment Vertical Class	1	Free-Flow Speed, mi/h	57.0		
Speed Slope Coefficient	3.69036	Speed Power Coefficient	0.41674		
PF Slope Coefficient	-1.32795	PF Power Coefficient	0.72660		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.0		

%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	10295	-	-	57.0

Vehicle Results

Average Speed, mi/h	57.0	Percent Followers, %	0.0
Segment Travel Time, minutes	2.05	Followers Density, followers/mi/ln	0.0
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	0	Bicycle Effective Width, ft	42
Bicycle LOS Score	0.00	Bicycle Effective Speed Factor	4.62
Bicycle LOS	A		

Segment 8

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	3060
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	193	Opposing Demand Flow Rate, veh/h	147
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.96775	Speed Power Coefficient	0.55584
PF Slope Coefficient	-1.17728	PF Power Coefficient	0.83250
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	3060	-	-	67.4

Vehicle Results

Average Speed, mi/h	67.4	Percent Followers, %	25.8
Segment Travel Time, minutes	0.52	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
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Flow Rate Outside Lane, veh/h	193	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.56	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 9

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2430
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	193	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	4.23509	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.26418	PF Power Coefficient	0.77219
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	0.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2430	-	-	66.8

Vehicle Results

Average Speed, mi/h	66.8	Percent Followers, %	29.8
Segment Travel Time, minutes	0.41	Followers Density, followers/mi/ln	0.9
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	193	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.56	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 10

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	3645
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	193	Opposing Demand Flow Rate, veh/h	147
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Peak Hour Factor	0.94	Total Trucks, %	5.60
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.11

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.97491	Speed Power Coefficient	0.55584
PF Slope Coefficient	-1.16682	PF Power Coefficient	0.83608
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	3645	-	-	67.4

Vehicle Results

Average Speed, mi/h	67.4	Percent Followers, %	25.5
Segment Travel Time, minutes	0.61	Followers Density, followers/mi/ln	0.7
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	193	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.56	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 11

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4120
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	395	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.23

Intermediate Results

Segment Vertical Class	3	Free-Flow Speed, mi/h	66.1
Speed Slope Coefficient	9.40946	Speed Power Coefficient	0.67475
PF Slope Coefficient	-1.32676	PF Power Coefficient	0.77062
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	3645	-	-	67.4

1	Horizontal Curve	4120	960	8	62.0
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Vehicle Results

Average Speed, mi/h	62.0	Percent Followers, %	47.7
Segment Travel Time, minutes	0.75	Followers Density, followers/mi/ln	3.0
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	395	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.18	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 12

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	395	Opposing Demand Flow Rate, veh/h	302
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.23

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98931	Speed Power Coefficient	0.51476
PF Slope Coefficient	-1.26997	PF Power Coefficient	0.79688
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1110	-	-	66.2

Vehicle Results

Average Speed, mi/h	66.2	Percent Followers, %	45.4
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	2.7
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	395	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.18	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 13

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	1320
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	395	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.23

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
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	1320	-	-	65.8

Vehicle Results

Average Speed, mi/h	65.8	Percent Followers, %	47.8
Segment Travel Time, minutes	0.23	Followers Density, followers/mi/ln	2.9
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	395	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.18	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 14

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1210
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	395	Opposing Demand Flow Rate, veh/h	302
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.23

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98931	Speed Power Coefficient	0.51476
PF Slope Coefficient	-1.26997	PF Power Coefficient	0.79688
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.7
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1210	-	-	66.2

Vehicle Results

Average Speed, mi/h	66.2	Percent Followers, %	45.4
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	2.7
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	395	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.18	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 15

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	6760
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	344	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.27558	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.21419	PF Power Coefficient	0.77950
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3280	-	-	65.9
2	Horizontal Curve	3480	960 ₉₃	8	63.8

Vehicle Results			
Average Speed, mi/h	64.8	Percent Followers, %	41.0
Segment Travel Time, minutes	1.18	Followers Density, followers/mi/ln	2.2
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	344	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.11	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 16

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	2060
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	344	Opposing Demand Flow Rate, veh/h	263
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98998	Speed Power Coefficient	0.52333
PF Slope Coefficient	-1.23038	PF Power Coefficient	0.81289
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2060	-	-	66.4

Vehicle Results			
Average Speed, mi/h	66.4	Percent Followers, %	40.3
Segment Travel Time, minutes	0.35	Followers Density, followers/mi/ln	2.1
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	344	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.11	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 17

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	1320
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	337	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.21060	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.31148	PF Power Coefficient	0.75510
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.2
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1320	-	-	66.0

Vehicle Results			
Average Speed, mi/h	66.0	Percent Followers, %	43.9
Segment Travel Time, minutes	0.23	Followers Density, followers/mi/ln	2.2
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	337	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.10	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 18

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	337	Opposing Demand Flow Rate, veh/h	257
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3

Speed Slope Coefficient	3.97545	Speed Power Coefficient	0.52456
PF Slope Coefficient	-1.26225	PF Power Coefficient	0.79957
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	66.4

Vehicle Results

Average Speed, mi/h	66.4	Percent Followers, %	41.1
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	2.1
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	337	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.10	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 19

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	2480
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	337	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.20

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.22967	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.26349	PF Power Coefficient	0.77294
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.1
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2480	-	-	66.0

Vehicle Results

Average Speed, mi/h	66.0	Percent Followers, %	42.0
Segment Travel Time, minutes	0.43	Followers Density, followers/mi/ln	2.1

Vehicle LOS	B		
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Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	337	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.10	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 20

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1160
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	315	Opposing Demand Flow Rate, veh/h	240
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.96986	Speed Power Coefficient	0.52863
PF Slope Coefficient	-1.25898	PF Power Coefficient	0.80067
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Horizontal Curve	1160	960	8	63.9

Vehicle Results

Average Speed, mi/h	63.9	Percent Followers, %	39.3
Segment Travel Time, minutes	0.21	Followers Density, followers/mi/ln	1.9
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	315	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 21

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	7815
Lane Width, ft	12	Shoulder Width, ft	1

Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0
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Demand and Capacity

Directional Demand Flow Rate, veh/h	315	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	2	Free-Flow Speed, mi/h	66.8
Speed Slope Coefficient	6.85373	Speed Power Coefficient	0.51976
PF Slope Coefficient	-1.27695	PF Power Coefficient	0.75819
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.0
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	7815	-	-	63.8

Vehicle Results

Average Speed, mi/h	63.8	Percent Followers, %	41.2
Segment Travel Time, minutes	1.39	Followers Density, followers/mi/ln	2.0
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	315	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 22

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	2640
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	315	Opposing Demand Flow Rate, veh/h	240
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.99117	Speed Power Coefficient	0.52863
PF Slope Coefficient	-1.20873	PF Power Coefficient	0.82134
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.8

%Improved % Followers	0.0	% Improved Avg Speed	0.0
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Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	2640	-	-	66.5

Vehicle Results

Average Speed, mi/h	66.5	Percent Followers, %	37.4
Segment Travel Time, minutes	0.45	Followers Density, followers/mi/ln	1.8
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	315	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 23

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	315
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	0.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	315	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.19

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	70.3
Speed Slope Coefficient	4.31900	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.28943	PF Power Coefficient	0.75941
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.9
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	315	-	-	68.0

Vehicle Results

Average Speed, mi/h	68.0	Percent Followers, %	41.5
Segment Travel Time, minutes	0.05	Followers Density, followers/mi/ln	1.9
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	8	Pavement Condition Rating	4
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Flow Rate Outside Lane, veh/h	315	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.06	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 24

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	273
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98053	Speed Power Coefficient	0.52092
PF Slope Coefficient	-1.26514	PF Power Coefficient	0.79858
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1265	-	-	66.3

Vehicle Results

Average Speed, mi/h	66.3	Percent Followers, %	42.7
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	357	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 25

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	3430
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	-
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Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.24208	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.24135	PF Power Coefficient	0.78001
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3430	-	-	65.9

Vehicle Results

Average Speed, mi/h	65.9	Percent Followers, %	42.7
Segment Travel Time, minutes	0.59	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	357	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 26

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1585
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	273
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98546	Speed Power Coefficient	0.52092
PF Slope Coefficient	-1.25157	PF Power Coefficient	0.80425
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3430	-	-	65.9

1	Tangent	1585	-	-	66.3
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Vehicle Results

Average Speed, mi/h	66.3	Percent Followers, %	42.1
Segment Travel Time, minutes	0.27	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	357	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 27

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	4595
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.25514	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.22525	PF Power Coefficient	0.78329
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	4035	-	-	65.9
2	Horizontal Curve	560	960	8	63.8

Vehicle Results

Average Speed, mi/h	65.6	Percent Followers, %	42.2
Segment Travel Time, minutes	0.80	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	357	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07

Bicycle LOS	F		
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Segment 28

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	273
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.98053	Speed Power Coefficient	0.52092
PF Slope Coefficient	-1.26514	PF Power Coefficient	0.79858
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1110	-	-	66.3

Vehicle Results

Average Speed, mi/h	66.3	Percent Followers, %	42.7
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	357	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 29

Vehicle Inputs

Segment Type	Passing Constrained	Length, ft	5385
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	357	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.21

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	4.26307	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.21895	PF Power Coefficient	0.78313
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.3
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	5385	-	-	65.9

Vehicle Results			
Average Speed, mi/h	65.9	Percent Followers, %	42.0
Segment Travel Time, minutes	0.93	Followers Density, followers/mi/ln	2.3
Vehicle LOS	B		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	357	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.13	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 30

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1265
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	310	Opposing Demand Flow Rate, veh/h	236
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.96843	Speed Power Coefficient	0.52969
PF Slope Coefficient	-1.25814	PF Power Coefficient	0.80095
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	1265	-	-	66.6

Vehicle Results			
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Average Speed, mi/h	66.6	Percent Followers, %	38.9		
Segment Travel Time, minutes	0.22	Followers Density, followers/mi/ln	1.8		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	310	Bicycle Effective Width, ft	13		
Bicycle LOS Score	7.06	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 31					
Vehicle Inputs					
Segment Type	Passing Constrained	Length, ft	5755		
Lane Width, ft	12	Shoulder Width, ft	1		
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0		
Demand and Capacity					
Directional Demand Flow Rate, veh/h	301	Opposing Demand Flow Rate, veh/h	-		
Peak Hour Factor	0.94	Total Trucks, %	9.00		
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.18		
Intermediate Results					
Segment Vertical Class	3	Free-Flow Speed, mi/h	66.1		
Speed Slope Coefficient	10.18748	Speed Power Coefficient	0.69240		
PF Slope Coefficient	-1.33484	PF Power Coefficient	0.76328		
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	2.0		
%Improved % Followers	0.0	% Improved Avg Speed	0.0		
Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	3430	-	-	62.8
2	Horizontal Curve	2325	960	8	62.8
Vehicle Results					
Average Speed, mi/h	62.8	Percent Followers, %	41.4		
Segment Travel Time, minutes	1.04	Followers Density, followers/mi/ln	2.0		
Vehicle LOS	A				
Bicycle Results					
Percent Occupied Parking	0	Pavement Condition Rating	4		
Flow Rate Outside Lane, veh/h	301	Bicycle Effective Width, ft	13		
Bicycle LOS Score	7.04	Bicycle Effective Speed Factor	5.07		
Bicycle LOS	F				
Segment 32					

Vehicle Inputs			
Segment Type	Passing Zone	Length, ft	1530
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	213
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3
Speed Slope Coefficient	3.96427	Speed Power Coefficient	0.53574
PF Slope Coefficient	-1.24238	PF Power Coefficient	0.80720
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

Subsegment Data					
#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1530	-	-	66.7

Vehicle Results			
Average Speed, mi/h	66.7	Percent Followers, %	35.7
Segment Travel Time, minutes	0.26	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		

Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 33

Vehicle Inputs			
Segment Type	Passing Constrained	Length, ft	3645
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity			
Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	-
Peak Hour Factor	0.94	Total Trucks, %	9.00
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results			
Segment Vertical Class	1	Free-Flow Speed, mi/h	68.3

Speed Slope Coefficient	4.24464	Speed Power Coefficient	0.41674
PF Slope Coefficient	-1.23762	PF Power Coefficient	0.78099
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	945	-	-	66.2
2	Horizontal Curve	2700	960	8	64.0

Vehicle Results

Average Speed, mi/h	64.6	Percent Followers, %	36.6
Segment Travel Time, minutes	0.64	Followers Density, followers/mi/ln	1.6
Vehicle LOS	A		

Bicycle Results

Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	7.00	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		

Segment 34

Vehicle Inputs

Segment Type	Passing Zone	Length, ft	1110
Lane Width, ft	12	Shoulder Width, ft	1
Speed Limit, mi/h	65	Access Point Density, pts/mi	8.0

Demand and Capacity

Directional Demand Flow Rate, veh/h	278	Opposing Demand Flow Rate, veh/h	213
Peak Hour Factor	0.94	Total Trucks, %	4.90
Segment Capacity, veh/h	1700	Demand/Capacity (D/C)	0.16

Intermediate Results

Segment Vertical Class	1	Free-Flow Speed, mi/h	68.4
Speed Slope Coefficient	3.96773	Speed Power Coefficient	0.53574
PF Slope Coefficient	-1.25269	PF Power Coefficient	0.80226
In Passing Lane Effective Length?	No	Total Segment Density, veh/mi/ln	1.5
%Improved % Followers	0.0	% Improved Avg Speed	0.0

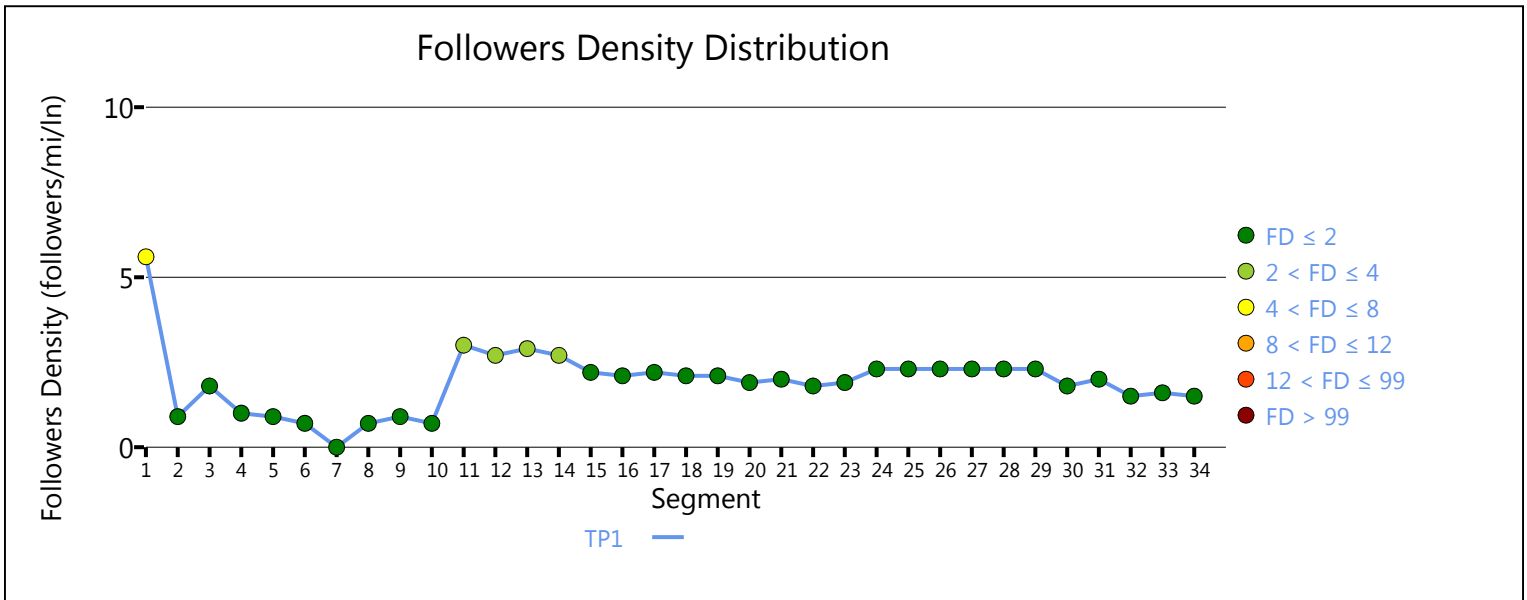
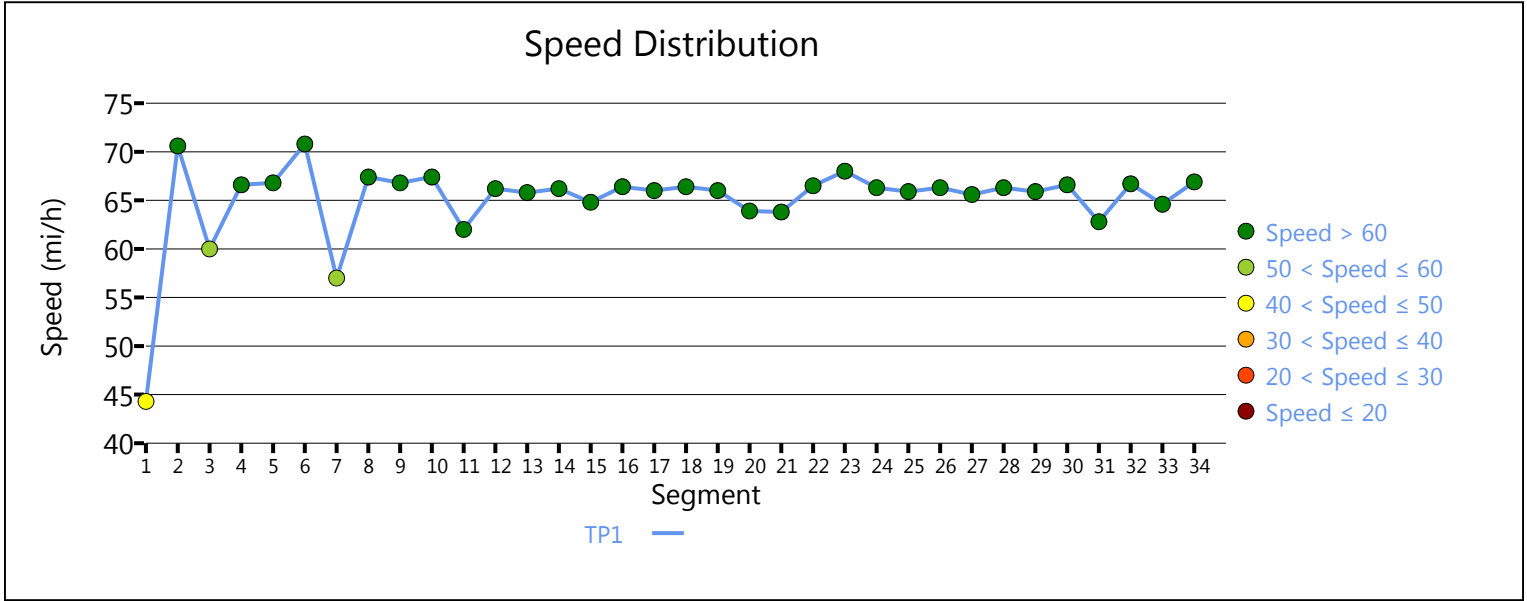
Subsegment Data

#	Segment Type	Length, ft	Radius, ft	Superelevation, %	Average Speed, mi/h
1	Tangent	1110	-	-	66.9

Vehicle Results

Average Speed, mi/h	66.9	Percent Followers, %	36.1
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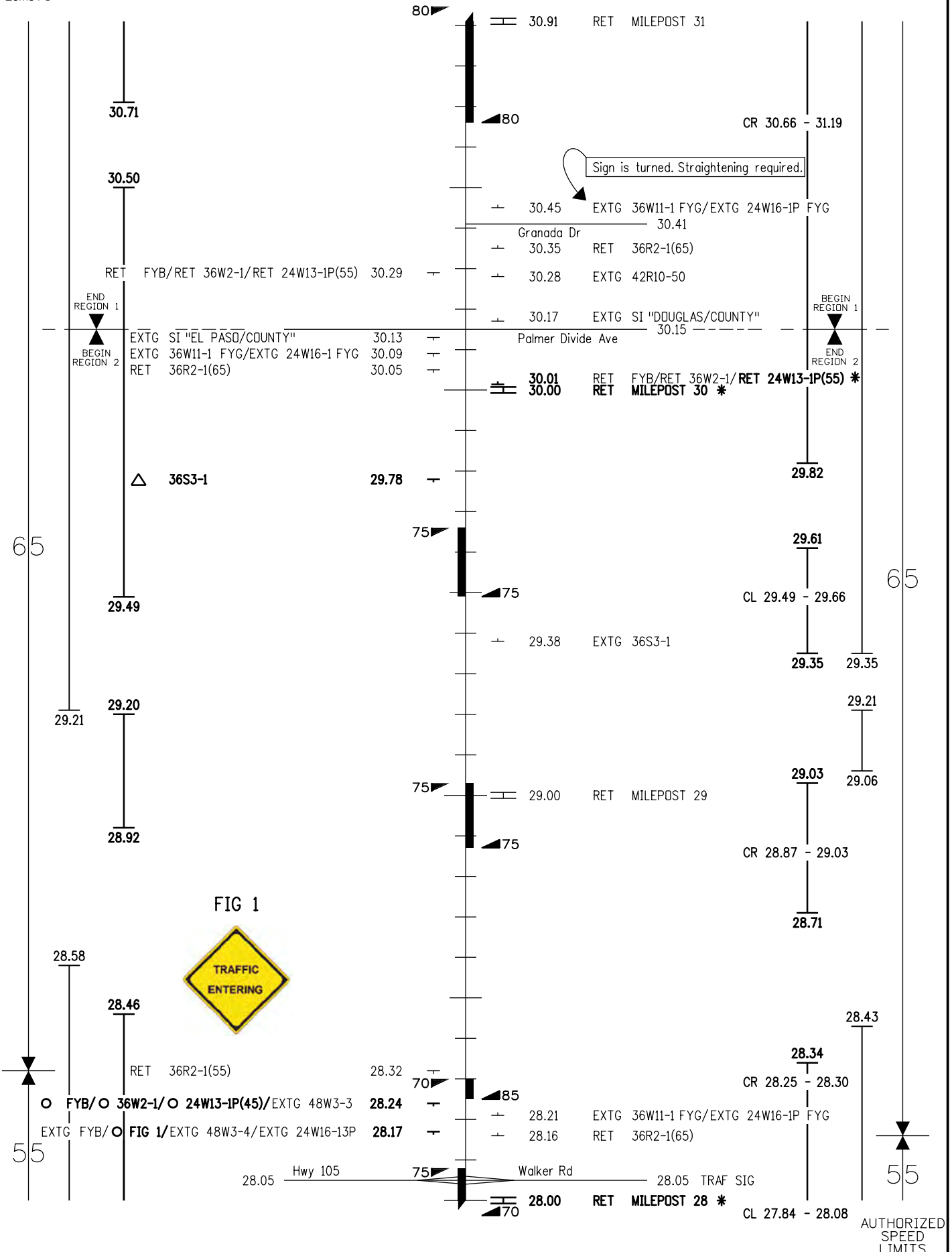
Segment Travel Time, minutes	0.19	Followers Density, followers/mi/ln	1.5
Vehicle LOS	A		
Bicycle Results			
Percent Occupied Parking	0	Pavement Condition Rating	4
Flow Rate Outside Lane, veh/h	278	Bicycle Effective Width, ft	13
Bicycle LOS Score	5.52	Bicycle Effective Speed Factor	5.07
Bicycle LOS	F		





AUTHORIZED SPEED LIMITS AND RECOMMENDED TRAFFIC CONTROL DEVICES

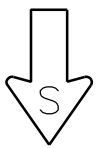
AUTHORIZED SPEED LIMITS



AUTHORIZED SPEED LIMITS

REM MILEPOST 28 AT .06 MILES SOUTH OF DTD MP 28 LOCATION.

Traffic Engineer _____
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



△ REPLACE W/LATEST VERSION
○ MISSING DO NOT REINSTALL MILEPOSTS PER DTD
* MISSING ON 10-22-2018 SIGNLOG ON 10-22-2018

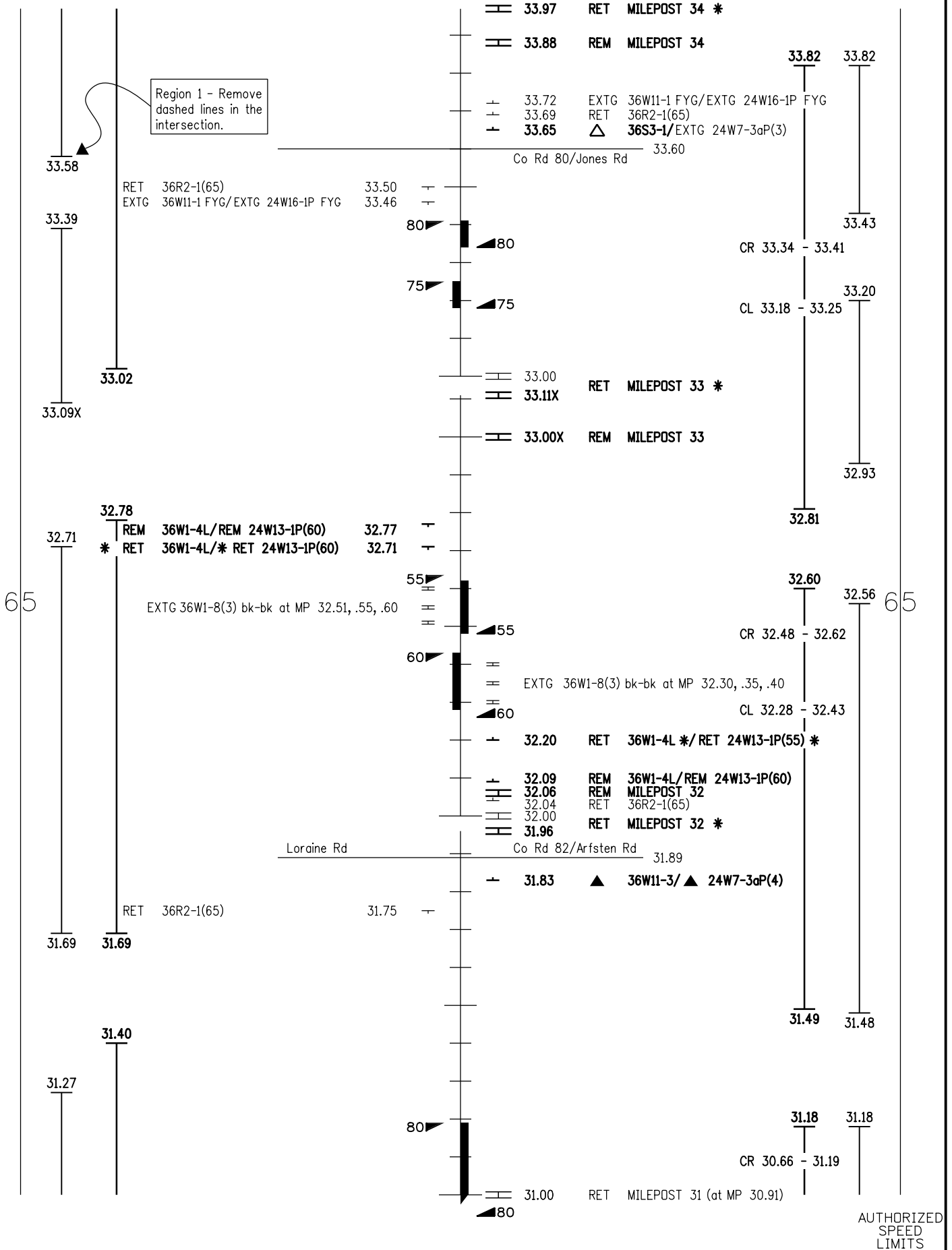
FILE	MEMO	Implemented with changes as marked
		Date: _____ By: _____
M083A_028_3	6877	

SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER
SUPERSEDES M083A_028_3, MEMO 6805, 05-01-2015

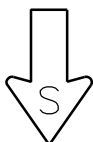


AUTHORIZED SPEED LIMITS AND RECOMMENDED TRAFFIC CONTROL DEVICES

AUTHORIZED SPEED LIMITS



Traffic Engineer _____
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



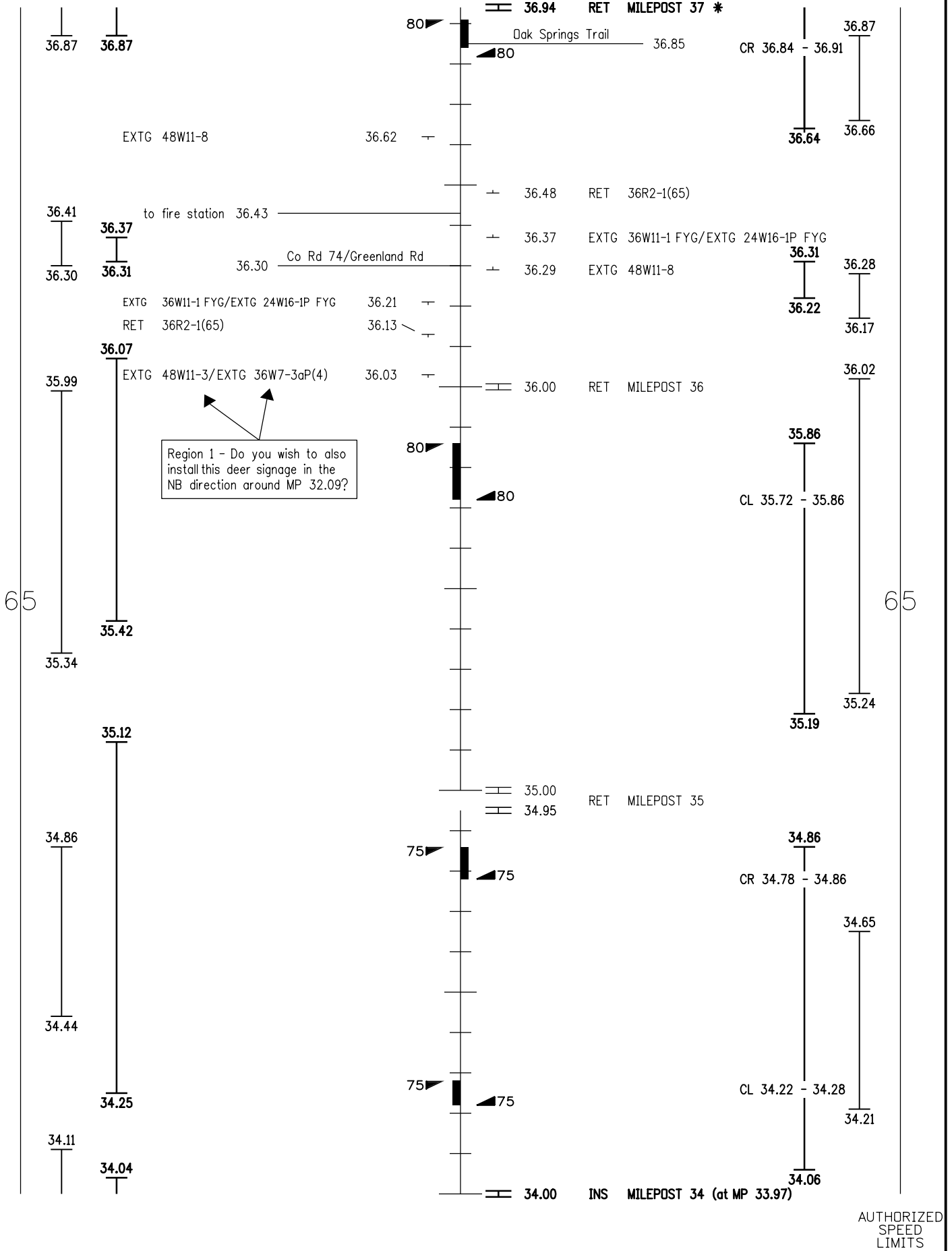
▲ REPLACE - CONDITION
△ REPLACE W/LATEST VERSION
MILEPOSTS PER DTD
* MISSING ON 10-22-2018
SIGNLOG ON 10-22-2018

FILE	MEMO	Implemented with changes as marked
		Date: _____ By: _____
M083A_031_3	6877	

SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER
SUPERSEDES M083A_031_3, MEMO 6805, 05-01-2015

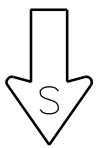


AUTHORIZED SPEED LIMITS



Region 1 - Do you wish to also install this deer signage in the NB direction around MP 32.09?

Traffic Engineer _____
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE

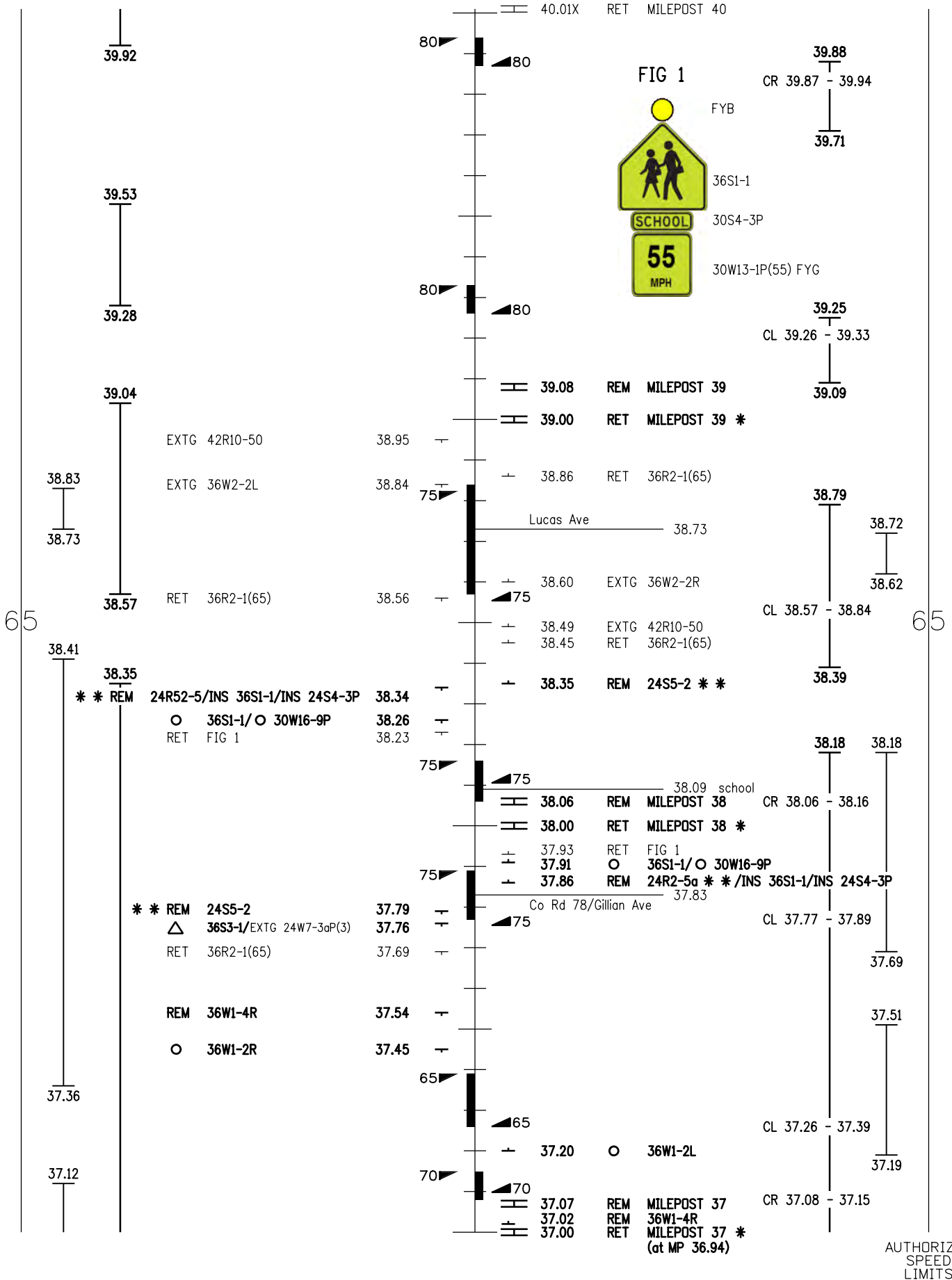


MILEPOSTS PER DTD
* MISSING ON 10-22-2018
SIGNLOG ON 10-22-2018

SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER	FILE	MEMO	Implemented with changes as marked
	M083A_034_3	6877	Date: _____ By: _____



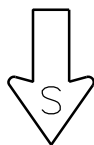
AUTHORIZED SPEED LIMITS



AUTHORIZED SPEED LIMITS

- △ REPLACE W/LATEST VERSION
- ** UNAUTHORIZED
- MISSING DO NOT REINSTALL MILEPOSTS PER DTD
- * MISSING ON 10-22-2018 SIGNLOG ON 10-22-2018

Traffic Engineer _____
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



FILE	MEMO	Implemented with changes as marked
		Date: _____ By: _____
M083A_037_3	6877	

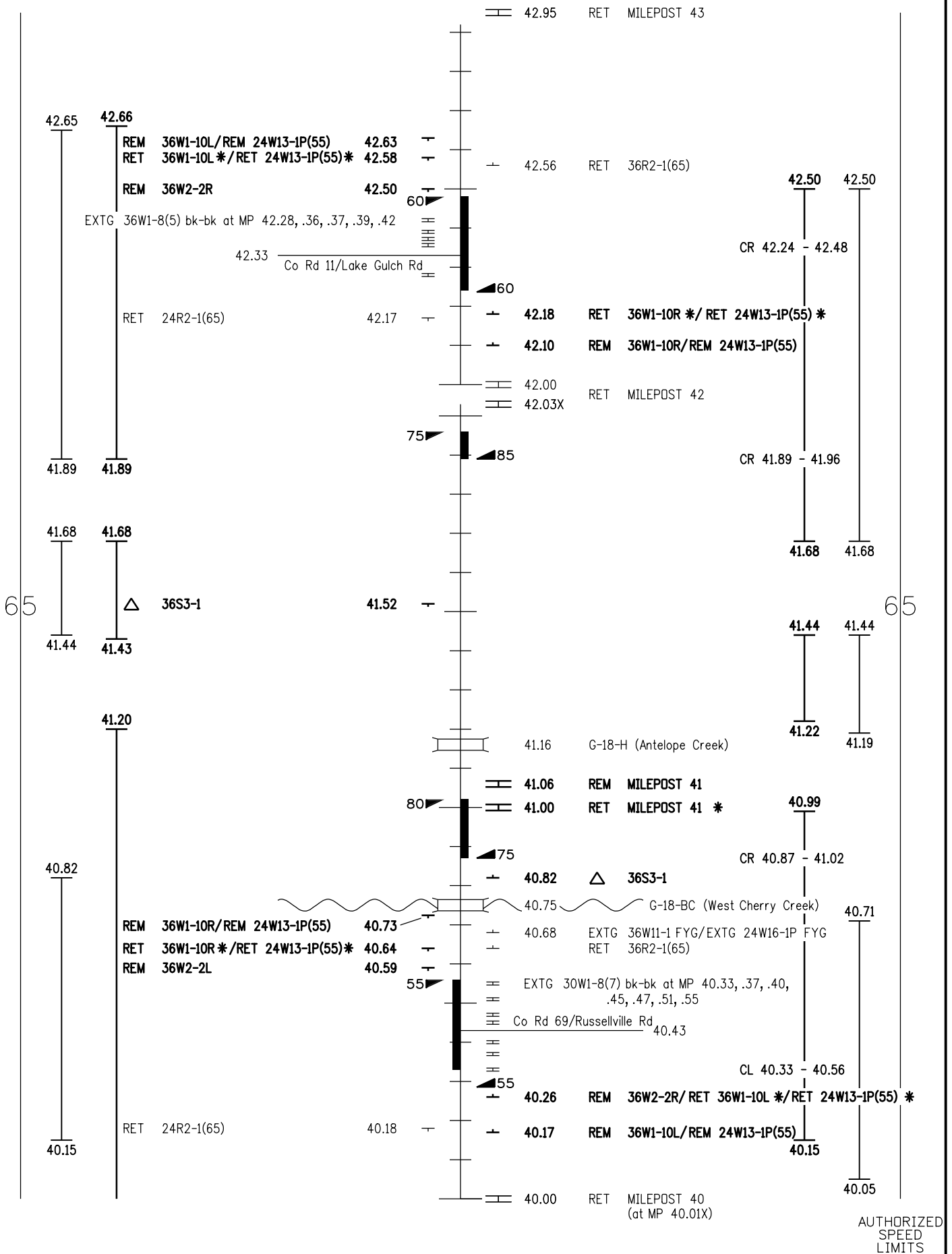
SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER

SUPERSEDES M083A_037_3, MEMO 6805, 05-15-2015



AUTHORIZED SPEED LIMITS AND RECOMMENDED TRAFFIC CONTROL DEVICES

AUTHORIZED SPEED LIMITS



AUTHORIZED SPEED LIMITS

Traffic Engineer _____
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



△ REPLACE W/LATEST VERSION MILEPOSTS PER DTD
* MISSING ON 10-22-2018 SIGNLOG ON 10-22-2018

FILE	MEMO	Implemented with changes as marked
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M083A_040_3	6877	

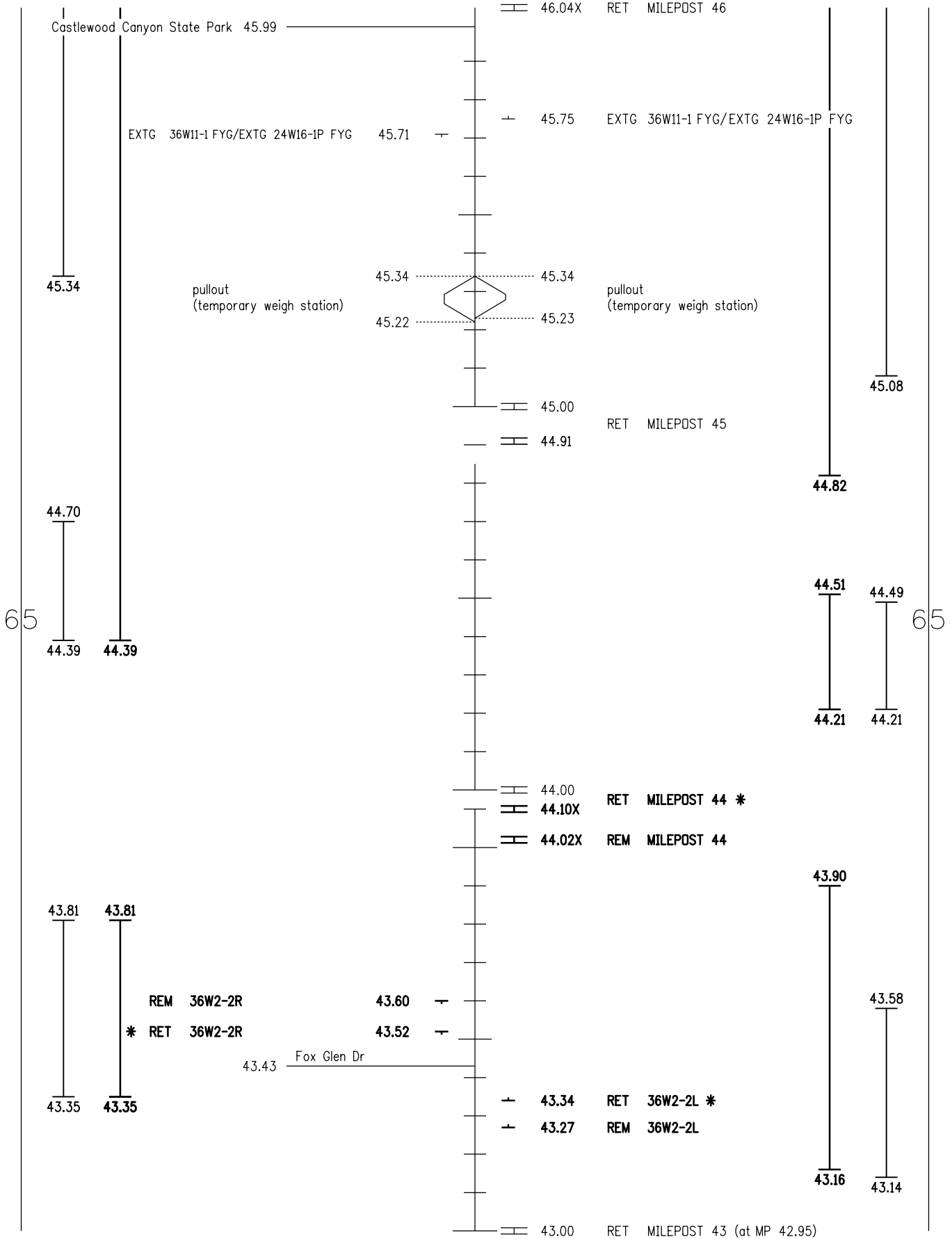
SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER

SUPERSEDES M083A_040_3, MEMO 6805, 05-01-2015



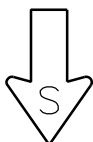
AUTHORIZED SPEED LIMITS AND RECOMMENDED TRAFFIC CONTROL DEVICES

AUTHORIZED SPEED LIMITS



AUTHORIZED SPEED LIMITS

Traffic Engineer
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



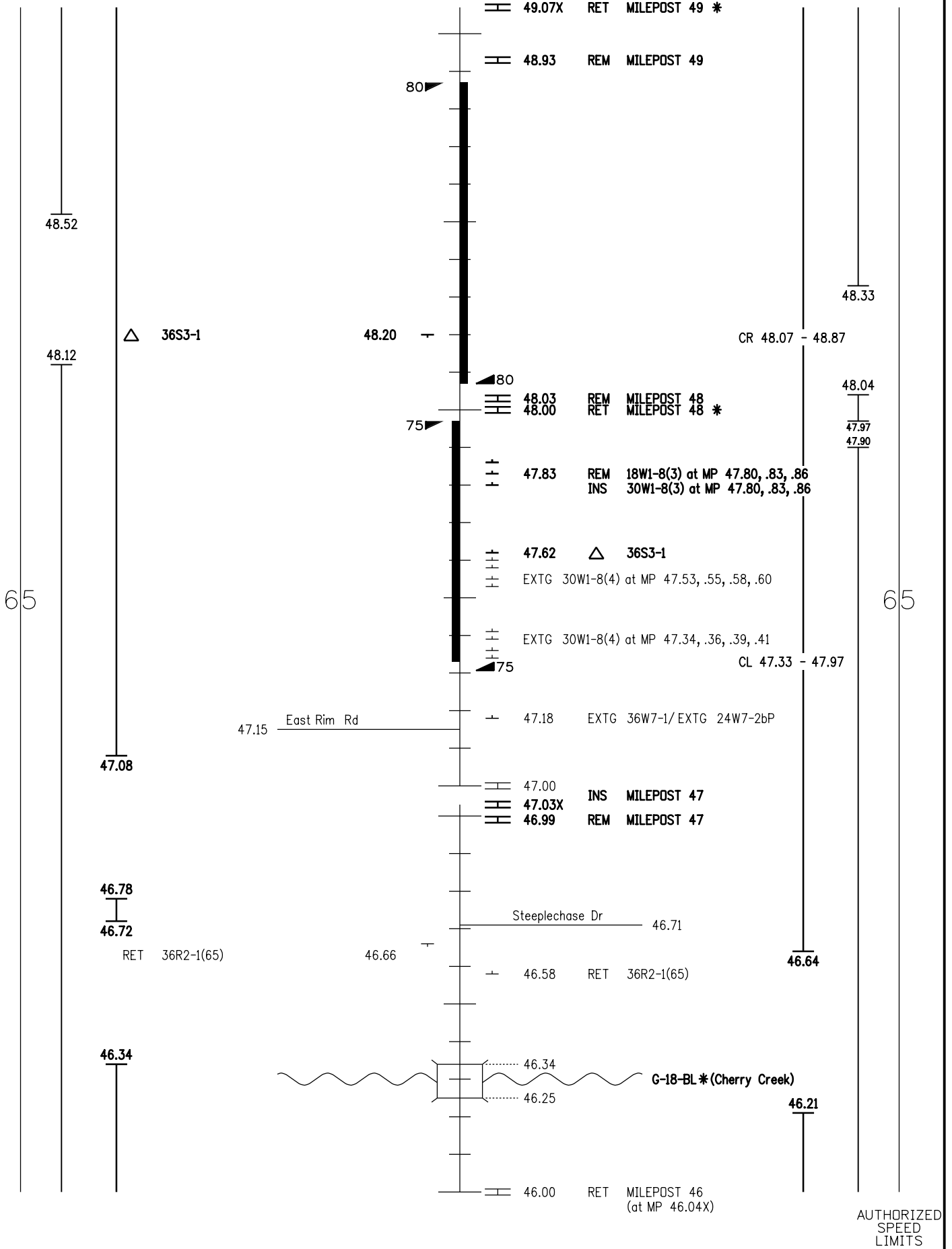
MILEPOSTS PER DTD
* MISSING ON 10-22-2018
SIGNLOG ON 10-22-2018

FILE	MEMO	Implemented with changes as marked
		Date: _____ By: _____
M083A_043_3	6877	

SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER
SUPERSEDES M083A_043_3, MEMO 6805, 05-01-2015

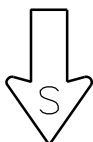


AUTHORIZED SPEED LIMITS



AUTHORIZED SPEED LIMITS

Traffic Engineer _____
Date: _____



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



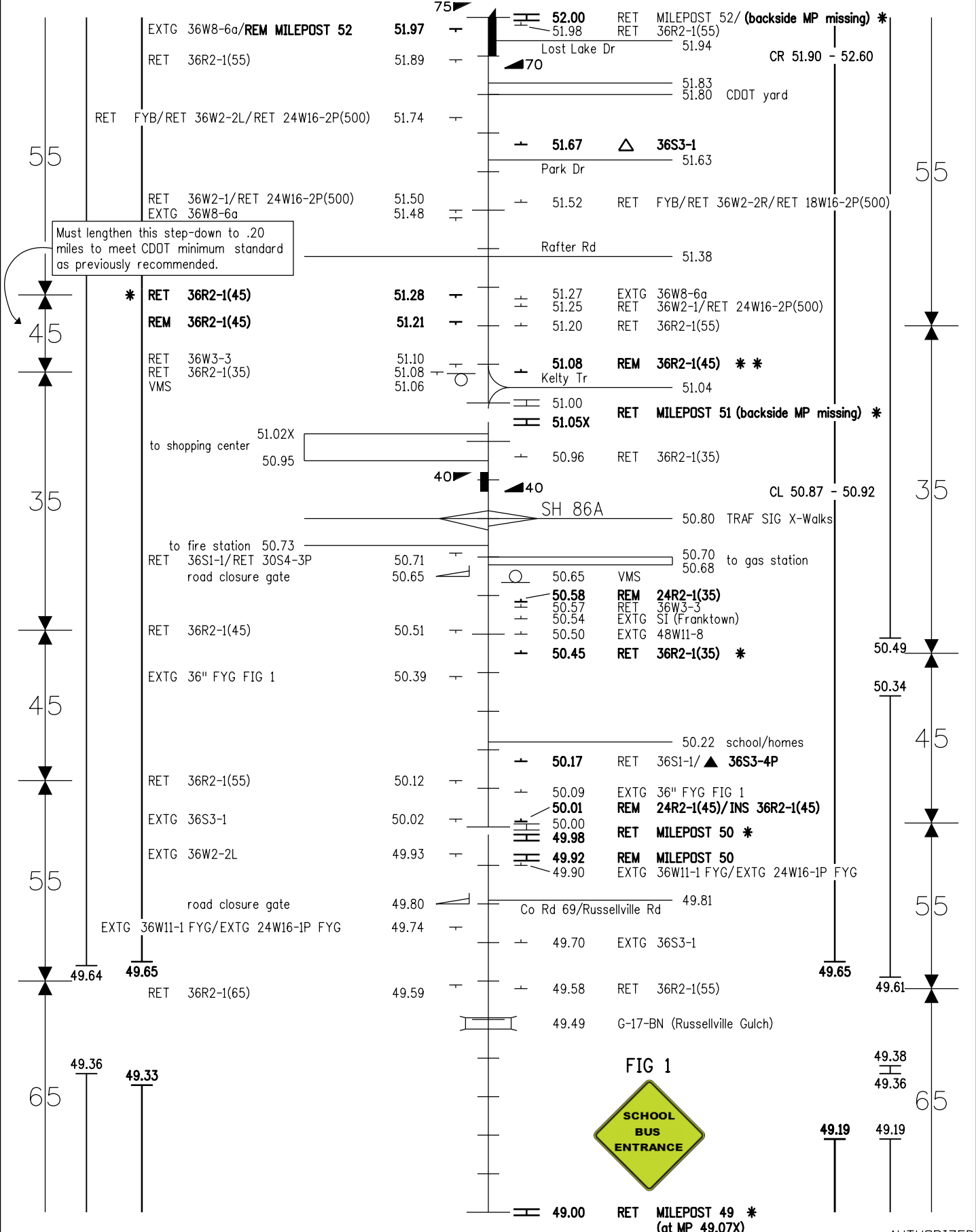
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* MISSING ON 10-22-2018 SIGNLOG ON 10-22-2018

	FILE	MEMO	Implemented with changes as marked
	M083A_046_3	6877	Date: _____ By: _____

SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER
SUPERSEDES M083A_046_3, MEMO 6805, 05-01-2015

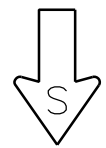


AUTHORIZED SPEED LIMITS

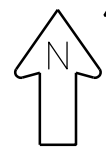


AUTHORIZED SPEED LIMITS

- ▲ REPLACE - CONDITION
- △ REPLACE W/LATEST VERSION
- ** UNAUTHORIZED MILEPOSTS PER DTD
- * MISSING ON 10-22-2018 SIGNLOG ON 10-22-2018



I = REC NO-PASSING ZONE
I = EXTG NO-PASSING ZONE



Traffic Engineer _____
Date: _____

FILE	MEMO	Implemented with changes as marked
M083A_049_3	6877	Date: _____ By: _____

SH 83A FROM SH 21B IN COLORADO SPRINGS TO SH 2A IN DENVER
SUPERSEDES M083A_049_3, MEMO 6805, 05-01-2015

**SH 83 Safety and Operations Study
2020 Existing Conditions Synchro HCS Arterial Summary**

Direction	Approach	AM Peak Hour			PM Peak Hour			Notes
		Speed (mph)	LOS	Approach 95 th % Queue ¹	Speed (mph)	LOS	Approach 95 th % Queue ¹	
Northbound	SH 86	18.0	E	424	18.0	E	423	Split times for ø4 & ø8 were extended to meet pedestrian crossing minimums.
	Castle Oaks	49.0	A	267	49.0	A	316	
	Bayou Gulch	48.0	A	226	46.0	A	280	
	Corridor	43.0	B		42.0	B		
Southbound	Bayou Gulch	34.0	C	140	30.0	C	375	
	Castle Oaks	49.0	A	295	46.0	A	559	
	SH 86	44.0	B	312	44.0	B	466	
	Corridor	44.0	B		40.0	B		

1. # indicates 95th% queue exceeds capacity, queue may be longer; "m" indicates volume for queue is metered by upstream signal

**SH 83 Safety and Operations Study
2020 Existing Conditions Synchro HCS Summary**

Intersection	Approach	AM Peak Hour			PM Peak Hour			Notes
		Delay	LOS	95 th % Queue ¹	Delay	LOS	95 th % Queue ¹	
SH 83 & Bayou Gulch Road	Eastbound	58.7	E	34	51.1	D	56	Split times for ø4 & ø8 were extended to meet pedestrian crossing minimums.
	Westbound	69.4	E	42	66.9	E	55	
	Northbound	10.2	B	226	21.9	C	280	
	Southbound	16.6	B	140	26.2	C	375	
	Intersection	18.3	B		31.4	C		
Sh 83 & Castle Oaks Drive	Eastbound	21.8	C	105	27.9	C	132	
	Northbound	6.4	A	267	6.8	A	316	
	Southbound	10.6	B	295	12.2	B	559	
	Intersection	9.8	A		11.7	B		
SH 83 & SH 86	Eastbound	27.8	C	152	33.1	C	486	
	Westbound	30.5	C	339	34.2	C	321	
	Northbound	25.8	C	424	28.4	C	423	
	Southbound	20.4	C	312	20.7	C	466	
	Intersection	25.5	C		27.5	C		

1. # indicates 95th% queue exceeds capacity, queue may be longer; "m" indicates volume for queue is metered by upstream signal

Lanes, Volumes, Timings
3: SH 83 & Bayou Gulch Rd

SH 83 2020 Existing_Reporting.syn
Weekday AM Peak



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	18	14	32	18	16	79	15	758	25	116	580	20
Future Volume (vph)	18	14	32	18	16	79	15	758	25	116	580	20
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		300	190		0	550		285	875		0
Storage Lanes	1		1	1		1	1		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.97	0.95	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	3539	1583	3433	3539	1583
Flt Permitted	0.652			0.744			0.950			0.950		
Satd. Flow (perm)	1215	1863	1583	1386	1863	1583	1770	3539	1583	3433	3539	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			150			150			134			95
Link Speed (mph)		40			45			55				55
Link Distance (ft)		784			1819			1432				1968
Travel Time (s)		13.4			27.6			17.8				24.4
Peak Hour Factor	0.67	0.67	0.67	0.88	0.88	0.88	0.90	0.90	0.90	0.96	0.96	0.96
Adj. Flow (vph)	27	21	48	20	18	90	17	842	28	121	604	21
Shared Lane Traffic (%)												
Lane Group Flow (vph)	27	21	48	20	18	90	17	842	28	121	604	21
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15.0	15.0	5.0	15.0	15.0
Minimum Split (s)	10.0	49.0	49.0	10.0	52.0	52.0	10.0	22.0	22.0	10.0	38.0	38.0
Total Split (s)	13.0	54.0	54.0	11.0	52.0	52.0	13.0	36.0	36.0	37.0	60.0	60.0
Total Split (%)	9.4%	39.1%	39.1%	8.0%	37.7%	37.7%	9.4%	26.1%	26.1%	26.8%	43.5%	43.5%
Maximum Green (s)	8.0	49.0	49.0	6.0	47.0	47.0	8.0	29.0	29.0	32.0	53.0	53.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.0	7.0	5.0	7.0	7.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-Min
Walk Time (s)		7.0	7.0		7.0	7.0					7.0	7.0
Flash Dont Walk (s)		37.0	37.0		40.0	40.0					24.0	24.0
Pedestrian Calls (#/hr)		0	0		0	0					0	0
Act Effect Green (s)	12.8	8.0	8.0	10.7	7.0	7.0	6.9	96.1	96.1	10.2	106.0	106.0
Actuated g/C Ratio	0.09	0.06	0.06	0.08	0.05	0.05	0.05	0.70	0.70	0.07	0.77	0.77
v/c Ratio	0.19	0.20	0.21	0.16	0.19	0.41	0.19	0.34	0.02	0.48	0.22	0.02
Control Delay	55.2	65.1	2.0	54.6	66.9	5.7	67.3	9.9	0.0	67.1	6.2	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.2	65.1	2.0	54.6	66.9	5.7	67.3	9.9	0.0	67.1	6.2	0.1

Lanes, Volumes, Timings
 3: SH 83 & Bayou Gulch Rd

SH 83 2020 Existing_Reporting.syn
 Weekday AM Peak

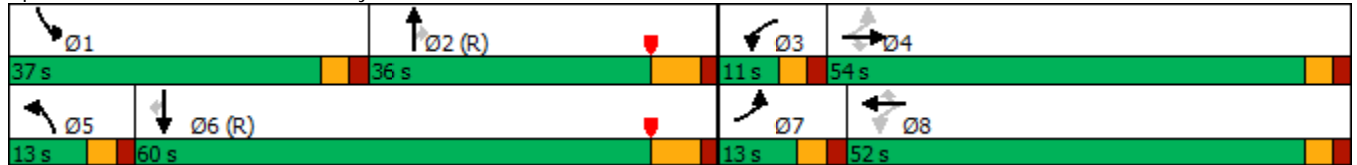


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS	E	E	A	D	E	A	E	A	A	E	A	A
Approach Delay		30.8			21.9			10.7			15.9	
Approach LOS		C			C			B			B	

Intersection Summary

Area Type:	Other
Cycle Length:	138
Actuated Cycle Length:	138
Offset:	52 (38%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow
Natural Cycle:	110
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.48
Intersection Signal Delay:	14.6
Intersection LOS:	B
Intersection Capacity Utilization	47.0%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 3: SH 83 & Bayou Gulch Rd



Lanes, Volumes, Timings
8: SH 83 & Castle Oaks Dr

SH 83 2020 Existing_Reporting.syn
Weekday AM Peak



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	108	25	12	689	545	65
Future Volume (vph)	108	25	12	689	545	65
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	215	650			375
Storage Lanes	1	1	1			1
Taper Length (ft)	25		25			
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850				0.850
Flt Protected	0.950		0.950			
Satd. Flow (prot)	1770	1583	1770	1863	1863	1583
Flt Permitted	0.950		0.255			
Satd. Flow (perm)	1770	1583	475	1863	1863	1583
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)		28				79
Link Speed (mph)	40			55	55	
Link Distance (ft)	1069			1386	825	
Travel Time (s)	18.2			17.2	10.2	
Peak Hour Factor	0.88	0.88	0.97	0.97	0.82	0.82
Adj. Flow (vph)	123	28	12	710	665	79
Shared Lane Traffic (%)						
Lane Group Flow (vph)	123	28	12	710	665	79
Turn Type	Prot	Perm	pm+pt	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4	2			6
Detector Phase	4	4	5	2	6	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	3.0	15.0	15.0	15.0
Minimum Split (s)	23.0	23.0	9.5	24.0	24.0	24.0
Total Split (s)	23.0	23.0	10.0	70.0	60.0	60.0
Total Split (%)	24.7%	24.7%	10.8%	75.3%	64.5%	64.5%
Maximum Green (s)	17.0	17.0	5.0	63.0	53.0	53.0
Yellow Time (s)	3.0	3.0	3.0	5.0	5.0	5.0
All-Red Time (s)	3.0	3.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.0	6.0	5.0	7.0	7.0	7.0
Lead/Lag			Lead		Lag	Lag
Lead-Lag Optimize?			Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	Min	Min	Min
Act Effct Green (s)	9.7	9.7	33.9	33.7	32.5	32.5
Actuated g/C Ratio	0.19	0.19	0.65	0.65	0.62	0.62
v/c Ratio	0.37	0.09	0.03	0.59	0.57	0.08
Control Delay	25.4	11.3	4.5	10.0	11.7	2.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	25.4	11.3	4.5	10.0	11.7	2.5
LOS	C	B	A	B	B	A
Approach Delay	22.8			9.9	10.7	
Approach LOS	C			A	B	

Intersection Summary

























Area Type:	Other		
Cycle Length:	93		
Actuated Cycle Length:	52		
Natural Cycle:	65		
Control Type:	Actuated-Uncoordinated		
Maximum v/c Ratio:	0.59		
Intersection Signal Delay:	11.5	Intersection LOS:	B
Intersection Capacity Utilization	53.1%	ICU Level of Service	A
Analysis Period (min)	15		

Splits and Phases: 8: SH 83 & Castle Oaks Dr



Lanes, Volumes, Timings
10: SH 83 & SH 86

SH 83 2020 Existing_Reporting.syn
Weekday AM Peak

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	147	149	47	29	273	233	86	331	21	154	262	128
Future Volume (vph)	147	149	47	29	273	233	86	331	21	154	262	128
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	200		100	125		375	225		320	175		600
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1863	1583	1770	1863	1583
Flt Permitted	0.950			0.950			0.443			0.217		
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	825	1863	1583	404	1863	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			116			262			116			149
Link Speed (mph)		35			35			35			35	
Link Distance (ft)		1542			1664			2352			692	
Travel Time (s)		30.0			32.4			45.8			13.5	
Peak Hour Factor	0.95	0.95	0.95	0.89	0.89	0.89	0.86	0.86	0.86	0.86	0.86	0.86
Adj. Flow (vph)	155	157	49	33	307	262	100	385	24	179	305	149
Shared Lane Traffic (%)												
Lane Group Flow (vph)	155	157	49	33	307	262	100	385	24	179	305	149
Turn Type	Prot	NA	Perm	Prot	NA	Perm	pm+pt	NA	Perm	pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8	2		2	6		6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	12.0	12.0	5.0	12.0	12.0	5.0	12.0	12.0	5.0	12.0	12.0
Minimum Split (s)	10.0	33.0	33.0	10.0	34.0	34.0	10.0	32.0	32.0	10.0	34.0	34.0
Total Split (s)	32.0	48.0	48.0	15.0	50.0	50.0	40.0	42.0	42.0	24.0	47.0	47.0
Total Split (%)	18.9%	28.4%	28.4%	8.9%	29.6%	29.6%	23.7%	24.9%	24.9%	14.2%	27.8%	27.8%
Maximum Green (s)	27.0	42.0	42.0	10.0	44.0	44.0	35.0	36.0	36.0	19.0	41.0	41.0
Yellow Time (s)	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	6.0	5.0	6.0	6.0	5.0	6.0	6.0	5.0	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	Min	Min	Min	Min	Min
Walk Time (s)		7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0
Flash Dont Walk (s)		20.0	20.0		21.0	21.0		19.0	19.0		21.0	21.0
Pedestrian Calls (#/hr)		0	0		0	0		0	0		0	0
Act Effect Green (s)	15.8	38.8	38.8	7.8	25.0	25.0	39.2	27.9	27.9	45.2	31.0	31.0
Actuated g/C Ratio	0.15	0.37	0.37	0.07	0.24	0.24	0.37	0.27	0.27	0.43	0.29	0.29
v/c Ratio	0.58	0.23	0.07	0.25	0.69	0.46	0.25	0.78	0.05	0.52	0.56	0.26
Control Delay	54.8	27.6	0.2	59.0	47.7	7.2	21.0	49.8	0.2	25.1	37.5	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.8	27.6	0.2	59.0	47.7	7.2	21.0	49.8	0.2	25.1	37.5	6.6

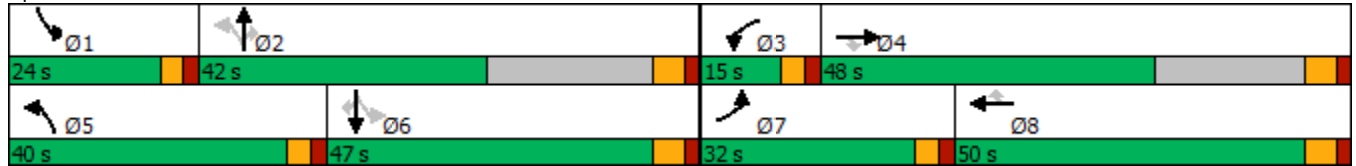


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS	D	C	A	E	D	A	C	D	A	C	D	A
Approach Delay		35.6			30.7			41.8			26.7	
Approach LOS		D			C			D			C	

Intersection Summary

























Area Type:	Other
Cycle Length:	169
Actuated Cycle Length:	105.1
Natural Cycle:	90
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.78
Intersection Signal Delay:	33.0
Intersection LOS:	C
Intersection Capacity Utilization	66.8%
ICU Level of Service	C
Analysis Period (min)	15

Splits and Phases: 10: SH 83 & SH 86



Lanes, Volumes, Timings
3: SH 83 & Bayou Gulch Rd

SH 83 2020 Existing_Reporting.syn
Weekday PM Peak

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	35	24	28	48	26	184	31	722	32	194	981	34
Future Volume (vph)	35	24	28	48	26	184	31	722	32	194	981	34
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0		300	190		0	550		285	875		0
Storage Lanes	1		1	1		1	1		1	2		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.95	1.00	0.97	0.95	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	3539	1583	3433	3539	1583
Flt Permitted	0.732			0.553			0.950			0.950		
Satd. Flow (perm)	1364	1863	1583	1030	1863	1583	1770	3539	1583	3433	3539	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			173			271			159			123
Link Speed (mph)		40			45			55				55
Link Distance (ft)		784			1819			1432				1968
Travel Time (s)		13.4			27.6			17.8				24.4
Peak Hour Factor	0.81	0.81	0.81	0.68	0.68	0.68	0.93	0.93	0.93	0.91	0.91	0.91
Adj. Flow (vph)	43	30	35	71	38	271	33	776	34	213	1078	37
Shared Lane Traffic (%)												
Lane Group Flow (vph)	43	30	35	71	38	271	33	776	34	213	1078	37
Turn Type	pm+pt	NA	Perm	pm+pt	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	15.0	15.0	5.0	15.0	15.0
Minimum Split (s)	10.0	49.0	49.0	10.0	52.0	52.0	10.0	22.0	22.0	10.0	38.0	38.0
Total Split (s)	13.0	49.0	49.0	19.0	52.0	52.0	15.0	60.0	60.0	23.0	68.0	68.0
Total Split (%)	8.6%	32.5%	32.5%	12.6%	34.4%	34.4%	9.9%	39.7%	39.7%	15.2%	45.0%	45.0%
Maximum Green (s)	8.0	44.0	44.0	14.0	47.0	47.0	10.0	53.0	53.0	18.0	61.0	61.0
Yellow Time (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	7.0	7.0	5.0	7.0	7.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	C-Min	C-Min	None	C-Min	C-Min
Walk Time (s)		7.0	7.0		7.0	7.0					7.0	7.0
Flash Dont Walk (s)		37.0	37.0		40.0	40.0					24.0	24.0
Pedestrian Calls (#/hr)		0	0		0	0					0	0
Act Effect Green (s)	16.4	8.9	8.9	19.1	10.4	10.4	8.3	97.5	97.5	14.7	106.0	106.0
Actuated g/C Ratio	0.11	0.06	0.06	0.13	0.07	0.07	0.05	0.65	0.65	0.10	0.70	0.70
v/c Ratio	0.25	0.28	0.14	0.40	0.30	0.75	0.34	0.34	0.03	0.64	0.43	0.03
Control Delay	56.1	72.5	1.1	60.9	71.2	20.4	77.4	14.2	0.1	74.3	12.3	0.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.1	72.5	1.1	60.9	71.2	20.4	77.4	14.2	0.1	74.3	12.3	0.1

Lanes, Volumes, Timings
 3: SH 83 & Bayou Gulch Rd

SH 83 2020 Existing_Reporting.syn
 Weekday PM Peak

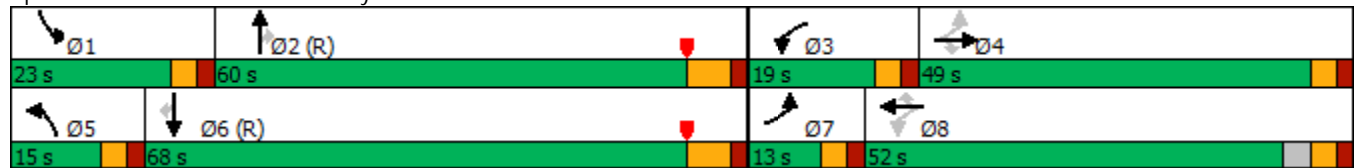


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS	E	E	A	E	E	C	E	B	A	E	B	A
Approach Delay		42.9			33.0			16.1			21.9	
Approach LOS		D			C			B			C	

Intersection Summary

Area Type:	Other
Cycle Length:	151
Actuated Cycle Length:	151
Offset:	0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow
Natural Cycle:	110
Control Type:	Actuated-Coordinated
Maximum v/c Ratio:	0.75
Intersection Signal Delay:	22.5
Intersection LOS:	C
Intersection Capacity Utilization	54.8%
ICU Level of Service	A
Analysis Period (min)	15

Splits and Phases: 3: SH 83 & Bayou Gulch Rd



Lanes, Volumes, Timings
8: SH 83 & Castle Oaks Dr

SH 83 2020 Existing_Reporting.syn
Weekday PM Peak



Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	131	29	24	685	832	180
Future Volume (vph)	131	29	24	685	832	180
Ideal Flow (vphp)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	215	650			375
Storage Lanes	1	1	1			1
Taper Length (ft)	25		25			
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850				0.850
Flt Protected	0.950		0.950			
Satd. Flow (prot)	1770	1583	1770	1863	1863	1583
Flt Permitted	0.950		0.138			
Satd. Flow (perm)	1770	1583	257	1863	1863	1583
Right Turn on Red		Yes				Yes
Satd. Flow (RTOR)		37				186
Link Speed (mph)	40			55	55	
Link Distance (ft)	1069			1386	825	
Travel Time (s)	18.2			17.2	10.2	
Peak Hour Factor	0.78	0.78	0.90	0.90	0.97	0.97
Adj. Flow (vph)	168	37	27	761	858	186
Shared Lane Traffic (%)						
Lane Group Flow (vph)	168	37	27	761	858	186
Turn Type	Prot	Perm	pm+pt	NA	NA	Perm
Protected Phases	4		5	2	6	
Permitted Phases		4	2			6
Detector Phase	4	4	5	2	6	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	3.0	15.0	15.0	15.0
Minimum Split (s)	23.0	23.0	9.5	24.0	24.0	24.0
Total Split (s)	23.0	23.0	10.0	70.0	60.0	60.0
Total Split (%)	24.7%	24.7%	10.8%	75.3%	64.5%	64.5%
Maximum Green (s)	17.0	17.0	5.0	63.0	53.0	53.0
Yellow Time (s)	3.0	3.0	3.0	5.0	5.0	5.0
All-Red Time (s)	3.0	3.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.0	6.0	5.0	7.0	7.0	7.0
Lead/Lag			Lead		Lag	Lag
Lead-Lag Optimize?			Yes		Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	Min	Min	Min
Act Effct Green (s)	12.4	12.4	45.4	43.2	40.2	40.2
Actuated g/C Ratio	0.18	0.18	0.65	0.62	0.58	0.58
v/c Ratio	0.53	0.12	0.10	0.66	0.80	0.19
Control Delay	36.0	12.4	5.0	11.4	19.7	2.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	36.0	12.4	5.0	11.4	19.7	2.0
LOS	D	B	A	B	B	A
Approach Delay	31.7			11.2	16.5	
Approach LOS	C			B	B	

Intersection Summary

























Area Type:	Other		
Cycle Length:	93		
Actuated Cycle Length:	69.6		
Natural Cycle:	80		
Control Type:	Actuated-Uncoordinated		
Maximum v/c Ratio:	0.80		
Intersection Signal Delay:	16.0	Intersection LOS:	B
Intersection Capacity Utilization	61.9%	ICU Level of Service	B
Analysis Period (min)	15		

Splits and Phases: 8: SH 83 & Castle Oaks Dr



Lanes, Volumes, Timings
10: SH 83 & SH 86

SH 83 2020 Existing_Reporting.syn
Weekday PM Peak

												
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	155	378	86	34	216	174	72	329	18	304	430	245
Future Volume (vph)	155	378	86	34	216	174	72	329	18	304	430	245
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (ft)	200		100	125		375	225		320	175		600
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1863	1583	1770	1863	1583
Flt Permitted	0.950			0.950			0.369			0.204		
Satd. Flow (perm)	1770	1863	1583	1770	1863	1583	687	1863	1583	380	1863	1583
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			88			189			121			261
Link Speed (mph)		35			35			35			35	
Link Distance (ft)		1542			1664			2352			692	
Travel Time (s)		30.0			32.4			45.8			13.5	
Peak Hour Factor	0.96	0.96	0.96	0.92	0.92	0.92	0.83	0.83	0.83	0.94	0.94	0.94
Adj. Flow (vph)	161	394	90	37	235	189	87	396	22	323	457	261
Shared Lane Traffic (%)												
Lane Group Flow (vph)	161	394	90	37	235	189	87	396	22	323	457	261
Turn Type	Prot	NA	Perm	Prot	NA	Perm	pm+pt	NA	Perm	pm+pt	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8	2		2	6		6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	12.0	12.0	5.0	12.0	12.0	5.0	12.0	12.0	5.0	12.0	12.0
Minimum Split (s)	10.0	33.0	33.0	10.0	34.0	34.0	10.0	32.0	32.0	10.0	34.0	34.0
Total Split (s)	32.0	48.0	48.0	15.0	35.0	35.0	40.0	55.0	55.0	40.0	47.0	47.0
Total Split (%)	19.8%	29.6%	29.6%	9.3%	21.6%	21.6%	24.7%	34.0%	34.0%	24.7%	29.0%	29.0%
Maximum Green (s)	27.0	42.0	42.0	10.0	29.0	29.0	35.0	49.0	49.0	35.0	41.0	41.0
Yellow Time (s)	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0	3.0	4.0	4.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	6.0	6.0	5.0	6.0	6.0	5.0	6.0	6.0	5.0	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vehicle Extension (s)	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Recall Mode	None	None	None	None	None	None	None	Min	Min	Min	Min	Min
Walk Time (s)		7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0
Flash Dont Walk (s)		20.0	20.0		21.0	21.0		19.0	19.0		21.0	21.0
Pedestrian Calls (#/hr)		0	0		0	0		0	0		0	0
Act Effect Green (s)	16.8	35.7	35.7	8.1	20.9	20.9	41.4	31.0	31.0	57.0	41.3	41.3
Actuated g/C Ratio	0.15	0.32	0.32	0.07	0.19	0.19	0.37	0.28	0.28	0.51	0.37	0.37
v/c Ratio	0.61	0.66	0.16	0.29	0.68	0.42	0.25	0.77	0.04	0.74	0.66	0.35
Control Delay	59.4	43.7	8.8	65.0	56.5	9.8	19.0	49.7	0.2	29.7	35.4	4.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	59.4	43.7	8.8	65.0	56.5	9.8	19.0	49.7	0.2	29.7	35.4	4.4



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
LOS	E	D	A	E	E	A	B	D	A	C	D	A
Approach Delay		42.7			38.0			42.2			25.9	
Approach LOS		D			D			D			C	

Intersection Summary	
Area Type:	Other
Cycle Length:	162
Actuated Cycle Length:	111.8
Natural Cycle:	90
Control Type:	Actuated-Uncoordinated
Maximum v/c Ratio:	0.77
Intersection Signal Delay:	35.2
Intersection LOS:	D
Intersection Capacity Utilization	76.6%
ICU Level of Service	D
Analysis Period (min)	15

Splits and Phases: 10: SH 83 & SH 86

