

Phone: Fax:
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Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Atlantic St/Taylor Rd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

Volume, V	5384	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1496	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1540	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1540	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	4	
Density, D	22.1	pc/mi/ln

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Description: 2025 Without Project - PM

Flow Inputs and Adjustments

Volume, V	7359	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	2044	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2105	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	2105	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.6	mi/h
Number of lanes, N	4	
Density, D	33.6	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	6538	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1816	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1871	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1871	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.0	mi/h
Number of lanes, N	4	
Density, D	27.9	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	6710	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1864	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1920	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1920	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.2	mi/h
Number of lanes, N	4	
Density, D	29.0	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	5320	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1478	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1522	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1522	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	4	
Density, D	21.8	pc/mi/ln

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 Description: 2025 Without Project - PM

 Flow Inputs and Adjustments

Volume, V	6739	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1872	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1928	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1928	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.1	mi/h
Number of lanes, N	4	
Density, D	29.2	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	5605	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1557	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1604	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1604	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.4	mi/h
Number of lanes, N	4	
Density, D	23.1	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	6163	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1712	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1763	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1763	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.2	mi/h
Number of lanes, N	4	
Density, D	25.8	pc/mi/ln

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Analysis Year:
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Flow Inputs and Adjustments

Volume, V	4939	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1372	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1884	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1884	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.8	mi/h
Number of lanes, N	3	
Density, D	28.2	pc/mi/ln

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Flow Inputs and Adjustments

Volume, V	4091	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1136	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1561	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1561	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.6	mi/h
Number of lanes, N	3	
Density, D	22.4	pc/mi/ln

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Flow Inputs and Adjustments

Volume, V	4734	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1315	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1806	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1806	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.8	mi/h
Number of lanes, N	3	
Density, D	26.6	pc/mi/ln

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From/To: Rocklin Rd/Sierra College Blvd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

Volume, V	3623	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1006	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1382	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1382	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	19.7	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	4926	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1368	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1879	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1879	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.9	mi/h
Number of lanes, N	3	
Density, D	28.1	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	4613	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1281	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1760	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1760	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.3	mi/h
Number of lanes, N	3	
Density, D	25.8	pc/mi/ln

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 Flow Inputs and Adjustments

Volume, V	4285	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1190	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1635	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1635	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.2	mi/h
Number of lanes, N	3	
Density, D	23.6	pc/mi/ln

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 From/To: Sierra College Blvd/Horseshoe
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 Flow Inputs and Adjustments

Volume, V	3313	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	920	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1264	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1264	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	18.1	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Sierra College Blvd/Horseshoe
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

Volume, V	5075	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1410	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1936	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1936	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.0	mi/h
Number of lanes, N	3	
Density, D	29.3	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 WB
From/To: Sierra College Blvd/Horseshoe
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

Volume, V	4641	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1289	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1770	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1770	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.2	mi/h
Number of lanes, N	3	
Density, D	26.0-	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 Without Project - PM

 Flow Inputs and Adjustments

Volume, V	3990	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1108	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1522	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1522	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	21.8	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 Without Project - AM

 Flow Inputs and Adjustments

Volume, V	4708	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1308	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1874	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1874	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.9	mi/h
Number of lanes, N	3	
Density, D	28.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 Without Project - PM

 Flow Inputs and Adjustments

Volume, V	4967	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1380	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1978	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1978	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.3	mi/h
Number of lanes, N	3	
Density, D	30.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 Without Project - AM

 Flow Inputs and Adjustments

Volume, V	4301	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1195	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1712	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1712	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.7	mi/h
Number of lanes, N	3	
Density, D	24.9	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 SB
From/To: I-80 to Harding Blvd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

Volume, V	4124	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1146	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1642	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1642	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.2	mi/h
Number of lanes, N	3	
Density, D	23.7	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 NB
From/To: Harding Blvd/Blue Oaks
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

Volume, V	4484	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1246	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1785	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1785	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.0	mi/h
Number of lanes, N	3	
Density, D	26.2	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 NB
From/To: Harding Blvd/Blue Oaks
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

Volume, V	4808	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1336	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1914	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1914	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.3	mi/h
Number of lanes, N	3	
Density, D	28.9	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 SB
From/To: Harding Blvd/Blue Oaks
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

Volume, V	4454	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1237	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1773	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1773	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.1	mi/h
Number of lanes, N	3	
Density, D	26.0+	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 SB
From/To: Harding Blvd/Blue Oaks
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

Volume, V	4155	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1154	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1654	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1654	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.1	mi/h
Number of lanes, N	3	
Density, D	23.9	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Rte 65/Rocklin Rd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

Volume, V	3995	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1110	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1524	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1524	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	21.9	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Atlantic St/Taylor Rd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - AM

Flow Inputs and Adjustments

Volume, V	5401	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1500	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1545	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1545	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	4	
Density, D	22.2	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Atlantic St/Taylor Rd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - PM

Flow Inputs and Adjustments

Volume, V	7419	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	2061	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	2123	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	2123	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	62.2	mi/h
Number of lanes, N	4	
Density, D	34.2	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	6546	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1818	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1873	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1873	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.9	mi/h
Number of lanes, N	4	
Density, D	28.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Atlantic St/Taylor Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	6764	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1879	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1935	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1935	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.0	mi/h
Number of lanes, N	4	
Density, D	29.3	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	5338	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1483	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1527	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1527	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	4	
Density, D	21.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Taylor Rd/Rte 65
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	6809	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1891	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1948	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1948	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.8	mi/h
Number of lanes, N	4	
Density, D	29.6	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 WB
From/To: Taylor Rd/Rte 65
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - AM

Flow Inputs and Adjustments

Volume, V	5616	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1560	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1607	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1607	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.4	mi/h
Number of lanes, N	4	
Density, D	23.2	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 WB
From/To: Taylor Rd/Rte 65
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - PM

Flow Inputs and Adjustments

Volume, V	6236	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1732	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1784	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	4	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	1.5	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1784	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.0	mi/h
Number of lanes, N	4	
Density, D	26.2	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	5052	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1403	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1927	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1927	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.1	mi/h
Number of lanes, N	3	
Density, D	29.1	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	4109	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1141	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1568	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1568	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.6	mi/h
Number of lanes, N	3	
Density, D	22.5	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rte 65/Rocklin Rd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	4852	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1348	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1851	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1851	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	67.2	mi/h
Number of lanes, N	3	
Density, D	27.5	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	3654	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1015	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1394	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1394	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	19.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	5039	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1400	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1922	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1922	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.2	mi/h
Number of lanes, N	3	
Density, D	29.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	4632	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1287	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1767	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1767	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.2	mi/h
Number of lanes, N	3	
Density, D	25.9	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Rocklin Rd/Sierra College Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	4412	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1226	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1683	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1683	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.9	mi/h
Number of lanes, N	3	
Density, D	24.4	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 EB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	3322	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	923	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1267	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1267	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	70.0	mi/h
Number of lanes, N	3	
Density, D	18.1	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Sierra College Blvd/Horseshoe
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - PM

Flow Inputs and Adjustments

Volume, V	5110	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1419	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1949	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1949	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	65.8	mi/h
Number of lanes, N	3	
Density, D	29.6	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 WB
From/To: Sierra College Blvd/Horseshoe
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - AM

Flow Inputs and Adjustments

Volume, V	4647	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1291	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1773	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1773	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.1	mi/h
Number of lanes, N	3	
Density, D	26.0+	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: I-80 WB
 From/To: Sierra College Blvd/Horseshoe
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	4026	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1118	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1536	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1536	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	22.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	4719	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1311	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1879	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1879	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.9	mi/h
Number of lanes, N	3	
Density, D	28.1	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 NB
From/To: I-80 to Harding Blvd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - PM

Flow Inputs and Adjustments

Volume, V	5010	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1392	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1995	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1995	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	64.9	mi/h
Number of lanes, N	3	
Density, D	30.7	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 SB
From/To: I-80 to Harding Blvd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - AM

Flow Inputs and Adjustments

Volume, V	4308	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1197	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1715	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1715	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.7	mi/h
Number of lanes, N	3	
Density, D	25.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: I-80 to Harding Blvd
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	4170	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1158	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1660	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1660	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.1	mi/h
Number of lanes, N	3	
Density, D	24.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	4364	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1212	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1738	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1738	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.5	mi/h
Number of lanes, N	3	
Density, D	25.4	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 NB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - PM

 Flow Inputs and Adjustments

Volume, V	4825	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1340	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1921	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1921	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	66.2	mi/h
Number of lanes, N	3	
Density, D	29.0	pc/mi/ln

Phone: Fax:
E-mail:

 Operational Analysis

Analyst: Arthur Black
 Agency or Company: LSA
 Date Performed: 8/07/2008
 Analysis Time Period:
 Freeway/Direction: Rte-65 SB
 From/To: Harding Blvd/Blue Oaks
 Jurisdiction: Rocklin
 Analysis Year:
 Description: 2025 With Project - AM

 Flow Inputs and Adjustments

Volume, V	4299	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1194	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1712	pc/h/ln

 Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

 LOS and Performance Measures

Flow rate, vp	1712	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	68.7	mi/h
Number of lanes, N	3	
Density, D	24.9	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: Rte-65 SB
From/To: Harding Blvd/Blue Oaks
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - PM

Flow Inputs and Adjustments

Volume, V	4023	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1118	v
Trucks and buses	15	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.930	
Driver population factor, fp	1.00	
Flow rate, vp	1602	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1602	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.4	mi/h
Number of lanes, N	3	
Density, D	23.1	pc/mi/ln

Phone: Fax:
E-mail:

Operational Analysis

Analyst: Arthur Black
Agency or Company: LSA
Date Performed: 8/07/2008
Analysis Time Period:
Freeway/Direction: I-80 EB
From/To: Rte 65/Rocklin Rd
Jurisdiction: Rocklin
Analysis Year:
Description: 2025 With Project - AM

Flow Inputs and Adjustments

Volume, V	4025	veh/h
Peak-hour factor, PHF	0.90	
Peak 15-min volume, v15	1118	v
Trucks and buses	6	%
Recreational vehicles	0	%
Terrain type:	Level	
Grade	0.00	%
Segment length	0.00	mi
Trucks and buses PCE, ET	1.5	
Recreational vehicle PCE, ER	1.2	
Heavy vehicle adjustment, fHV	0.971	
Driver population factor, fp	1.00	
Flow rate, vp	1535	pc/h/ln

Speed Inputs and Adjustments

Lane width	12.0	ft
Right-shoulder lateral clearance	6.0	ft
Interchange density	0.50	interchange/mi
Number of lanes, N	3	
Free-flow speed:	Measured	
FFS or BFFS	70.0	mi/h
Lane width adjustment, fLW	0.0	mi/h
Lateral clearance adjustment, fLC	0.0	mi/h
Interchange density adjustment, fID	0.0	mi/h
Number of lanes adjustment, fN	3.0	mi/h
Free-flow speed, FFS	70.0	mi/h
	Urban Freeway	

LOS and Performance Measures

Flow rate, vp	1535	pc/h/ln
Free-flow speed, FFS	70.0	mi/h
Average passenger-car speed, S	69.7	mi/h
Number of lanes, N	3	
Density, D	22.0	pc/mi/ln