

Phone: Fax:  
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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5395  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1499  | 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                 | 1544  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1544 | 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 |

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 Description: 2025 Without Project - PM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 7398  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 2055  | 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                 | 2117  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 2117 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 62.3 | mi/h     |
| Number of lanes, N             | 4    |          |
| Density, D                     | 34.0 | pc/mi/ln |

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From/To: Atlantic St/Taylor Rd  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 6522  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1812  | 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                 | 1866  | 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                  | 1866 | 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                     | 27.8 | pc/mi/ln |

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From/To: Atlantic St/Taylor Rd  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 6758  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1877  | 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                 | 1934  | 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                  | 1934 | 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 |

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Freeway/Direction: I-80 EB  
From/To: Taylor Rd/Rte 65  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - AM

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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From/To: Taylor Rd/Rte 65  
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Description: 2025 Without Project - PM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 6770  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1881  | 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                 | 1937  | 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                  | 1937 | 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                     | 29.4 | pc/mi/ln |

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From/To: Taylor Rd/Rte 65  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5598  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1555  | 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                 | 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                  | 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                  | 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             | 4    |          |
| Density, D                     | 23.1 | pc/mi/ln |

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From/To: Taylor Rd/Rte 65  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 6200  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1722  | 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                 | 1774  | 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                  | 1774  | pc/h/ln  |
| Free-flow speed, FFS           | 70.0  | mi/h     |
| Average passenger-car speed, S | 68.1  | mi/h     |
| Number of lanes, N             | 4     |          |
| Density, D                     | 26.0+ | pc/mi/ln |

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 Operational Analysis
 

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 From/To: Rte 65/Rocklin Rd  
 Jurisdiction: Rocklin  
 Analysis Year:  
 Description: 2025 Without Project - AM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 3992  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1109  | 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                 | 1523  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1523 | 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 |

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 Jurisdiction: Rocklin  
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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4951  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1375  | 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                 | 1889  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1889 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 66.7 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 28.3 | pc/mi/ln |

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From/To: Rte 65/Rocklin Rd  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4090  | 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                 | 1560  | 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                  | 1560 | 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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Freeway/Direction: I-80 WB  
From/To: Rte 65/Rocklin Rd  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 Without Project - PM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4736  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1316  | 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                 | 1807  | 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                  | 1807 | 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                     | 26.7 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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 Without Project - AM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 3648  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1013  | 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                 | 1392  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1392 | 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:

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 Operational Analysis
 

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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 Without Project - PM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4607  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1280  | 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                 | 1757  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1757 | 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                     | 25.7 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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 Without Project - AM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| 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 |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| 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 |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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 Without Project - PM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4263  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1184  | 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                 | 1626  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1626 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 69.3 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 23.5 | pc/mi/ln |



Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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 - AM

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 3316  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 921   | 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                 | 1265  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1265 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| 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 |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4640  | 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 |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |       |          |
|--------------------------------|-------|----------|
| 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4000  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1111  | 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                 | 1526  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1526 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4712  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1309  | 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                 | 1876  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1876 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4949  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1375  | 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                 | 1970  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1970 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 65.4 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 30.1 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4297  | 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                 | 1711  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1711 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4122  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1145  | 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                 | 1641  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1641 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4345  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1207  | 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                 | 1730  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1730 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 68.6 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 25.2 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4802  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1334  | 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                 | 1912  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1912 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 66.4 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 28.8 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4300  | 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 |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 3997  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1110  | 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                 | 1591  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1591 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 69.5 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 22.9 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5411  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1503  | 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                 | 1548  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1548 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 7459  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 2072  | 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                 | 2134  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 2134 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 61.9 | mi/h     |
| Number of lanes, N             | 4    |          |
| Density, D                     | 34.5 | 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: Atlantic St/Taylor Rd  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 With Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 6530  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1814  | 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                 | 1868  | 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                  | 1868 | 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 |

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                     | 6812  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1892  | 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                  | 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                  | 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             | 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 EB  
From/To: Taylor Rd/Rte 65  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 With Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5339  | 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                 | 1528  | 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                  | 1528 | 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                     | 6839  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1900  | 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                 | 1957  | 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                  | 1957 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 65.6 | mi/h     |
| Number of lanes, N             | 4    |          |
| Density, D                     | 29.8 | pc/mi/ln |

Phone: Fax:  
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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5609  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1558  | 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                 | 1605  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1605 | 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 |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 6456  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1793  | 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                 | 1847  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1847 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 67.3 | mi/h     |
| Number of lanes, N             | 4    |          |
| Density, D                     | 27.4 | 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: Rte 65/Rocklin Rd  
 Jurisdiction: Rocklin  
 Analysis Year:  
 Description: 2025 With Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4022  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1117  | 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                 | 1534  | 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                  | 1534 | 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: I-80 EB  
 From/To: Rte 65/Rocklin Rd  
 Jurisdiction: Rocklin  
 Analysis Year:  
 Description: 2025 With Project - PM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5063  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1406  | 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                 | 1931  | 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                  | 1931 | 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                     | 29.2 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4108  | 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                 | 1567  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1567 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4854  | 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                 | 1852  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1852 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 3679  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1022  | 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                 | 1403  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1403 | 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                     | 20.1 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 5060  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1406  | 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                 | 1930  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1930 | 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                     | 29.2 | 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: Rocklin Rd/Sierra College Blvd  
Jurisdiction: Rocklin  
Analysis Year:  
Description: 2025 With Project - AM

Flow Inputs and Adjustments

|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4625  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1285  | 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                 | 1764  | 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                  | 1764 | 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                     | 4390  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1219  | 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                 | 1675  | 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                  | 1675 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 69.0 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 24.3 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 3325  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 924   | 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                 | 1268  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1268 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| 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 |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4645  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1290  | 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                 | 1772  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |       |          |
|--------------------------------|-------|----------|
| Flow rate, vp                  | 1772  | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4036  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1121  | 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 |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| 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             | 3    |          |
| Density, D                     | 22.1 | pc/mi/ln |



Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4724  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1312  | 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                 | 1881  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1881 | 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                     | 28.1 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4992  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1387  | 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                 | 1988  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1988 | pc/h/ln  |
| Free-flow speed, FFS           | 70.0 | mi/h     |
| Average passenger-car speed, S | 65.1 | mi/h     |
| Number of lanes, N             | 3    |          |
| Density, D                     | 30.5 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4304  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1196  | 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                 | 1714  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1714 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4167  | 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                 | 1659  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1659 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4350  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1208  | 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                 | 1732  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1732 | 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                     | 25.3 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4819  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1339  | 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                 | 1919  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1919 | 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                     | 29.0 | pc/mi/ln |

Phone: Fax:  
E-mail:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4303  | 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                 | 1713  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1713 | 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:

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 Operational Analysis
 

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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

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 Flow Inputs and Adjustments
 

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|                               |       |         |
|-------------------------------|-------|---------|
| Volume, V                     | 4015  | veh/h   |
| Peak-hour factor, PHF         | 0.90  |         |
| Peak 15-min volume, v15       | 1115  | 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                 | 1599  | pc/h/ln |

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 Speed Inputs and Adjustments
 

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|                                     |               |                |
|-------------------------------------|---------------|----------------|
| 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 |                |

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 LOS and Performance Measures
 

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|                                |      |          |
|--------------------------------|------|----------|
| Flow rate, vp                  | 1599 | 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                     | 23.0 | pc/mi/ln |