

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|-----------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Bank State Road (County Route 13) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 4 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 219 | Opposing Demand Flow Rate, veh/h | 144 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 7.49 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.13 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 59.7 |
| Speed Slope Coefficient | 3.51905 | Speed Power Coefficient | 0.55667 |
| PF Slope Coefficient | -1.19686 | PF Power Coefficient | 0.81512 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 1.1 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 58.6 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 58.6 | Percent Followers, % | 29.3 |
| Segment Travel Time, minutes | 1.02 | Followers Density, followers/mi/ln | 1.1 |
| Vehicle LOS | A | | |

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Project Information

| | | | |
|---------------------|--|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Batavia Byron Road (County Route 19A) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 2 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 103 | Opposing Demand Flow Rate, veh/h | 66 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.07 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.06 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 59.0 |
| Speed Slope Coefficient | 3.44121 | Speed Power Coefficient | 0.59170 |
| PF Slope Coefficient | -1.16949 | PF Power Coefficient | 0.82204 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 58.9 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 58.9 | Percent Followers, % | 16.6 |
| Segment Travel Time, minutes | 1.02 | Followers Density, followers/mi/ln | 0.3 |
| Vehicle LOS | A | | |

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|---------------------|---------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Byron Elba Road - East (NY 262) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 100 | Opposing Demand Flow Rate, veh/h | 176 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 5.80 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.06 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.2 |
| Speed Slope Coefficient | 3.61075 | Speed Power Coefficient | 0.54643 |
| PF Slope Coefficient | -1.19899 | PF Power Coefficient | 0.81618 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 61.2 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 61.2 | Percent Followers, % | 16.7 |
| Segment Travel Time, minutes | 0.98 | Followers Density, followers/mi/ln | 0.3 |
| Vehicle LOS | A | | |

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Project Information

| | | | |
|---------------------|---------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Byron Elba Road - West (NY 262) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 96 | Opposing Demand Flow Rate, veh/h | 118 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 9.10 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.06 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.0 |
| Speed Slope Coefficient | 3.57994 | Speed Power Coefficient | 0.56669 |
| PF Slope Coefficient | -1.18183 | PF Power Coefficient | 0.82198 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.2 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 61.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 61.0 | Percent Followers, % | 15.8 |
| Segment Travel Time, minutes | 0.98 | Followers Density, followers/mi/ln | 0.2 |
| Vehicle LOS | A | | |

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Project Information

| | | | |
|---------------------|----------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Byron Holley Road (NY 237) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 5 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 66 | Opposing Demand Flow Rate, veh/h | 66 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 7.53 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.04 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 60.4 |
| Speed Slope Coefficient | 3.51627 | Speed Power Coefficient | 0.59170 |
| PF Slope Coefficient | -1.16335 | PF Power Coefficient | 0.82665 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.1 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 60.4 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 60.4 | Percent Followers, % | 11.5 |
| Segment Travel Time, minutes | 0.99 | Followers Density, followers/mi/ln | 0.1 |
| Vehicle LOS | A | | |

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|---------------------|--------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Caswell Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 14 | Opposing Demand Flow Rate, veh/h | 18 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 2.11 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.01 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.1 |
| Speed Slope Coefficient | 3.29613 | Speed Power Coefficient | 0.63001 |
| PF Slope Coefficient | -1.14309 | PF Power Coefficient | 0.82603 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.1 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.1 | Percent Followers, % | 3.4 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

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|---------------------|------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Clinton Street (NY 33) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 357 | Opposing Demand Flow Rate, veh/h | 356 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.56 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.21 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.8 |
| Speed Slope Coefficient | 3.70362 | Speed Power Coefficient | 0.50446 |
| PF Slope Coefficient | -1.23059 | PF Power Coefficient | 0.80546 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 2.5 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 59.9 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 59.9 | Percent Followers, % | 41.5 |
| Segment Travel Time, minutes | 1.00 | Followers Density, followers/mi/ln | 2.5 |
| Vehicle LOS | B | | |

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| | | | |
|---------------------|--------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Cockram Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 28 | Opposing Demand Flow Rate, veh/h | 28 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.02 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.6 |
| Speed Slope Coefficient | 3.33494 | Speed Power Coefficient | 0.61925 |
| PF Slope Coefficient | -1.15053 | PF Power Coefficient | 0.82516 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.6 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.6 | Percent Followers, % | 5.8 |
| Segment Travel Time, minutes | 1.04 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|-----------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Cole Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 7 | Opposing Demand Flow Rate, veh/h | 10 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.00 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.0 |
| Speed Slope Coefficient | 3.28056 | Speed Power Coefficient | 0.64105 |
| PF Slope Coefficient | -1.13345 | PF Power Coefficient | 0.82908 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.0 | Percent Followers, % | 1.8 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|-----------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Tower Hill Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 7 | Opposing Demand Flow Rate, veh/h | 7 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.00 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.0 |
| Speed Slope Coefficient | 3.27455 | Speed Power Coefficient | 0.64724 |
| PF Slope Coefficient | -1.12806 | PF Power Coefficient | 0.83072 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.0 | Percent Followers, % | 1.7 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|--------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Transit Road (County Route 42) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 18 | Opposing Demand Flow Rate, veh/h | 9 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.01 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.0 |
| Speed Slope Coefficient | 3.27869 | Speed Power Coefficient | 0.64297 |
| PF Slope Coefficient | -1.13178 | PF Power Coefficient | 0.82959 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.0 | Percent Followers, % | 3.9 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Walkers Corners Road (County Route 19) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 35 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 62 | Opposing Demand Flow Rate, veh/h | 41 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.43 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.04 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 34.2 |
| Speed Slope Coefficient | 2.07894 | Speed Power Coefficient | 0.60789 |
| PF Slope Coefficient | -1.14596 | PF Power Coefficient | 0.74059 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.2 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 34.2 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 34.2 | Percent Followers, % | 13.6 |
| Segment Travel Time, minutes | 1.75 | Followers Density, followers/mi/ln | 0.2 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | NY-19 | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 45 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|-------|
| Directional Demand Flow Rate, veh/h | 148 | Opposing Demand Flow Rate, veh/h | 157 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 14.17 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.09 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 49.5 |
| Speed Slope Coefficient | 2.97016 | Speed Power Coefficient | 0.55248 |
| PF Slope Coefficient | -1.23022 | PF Power Coefficient | 0.78364 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.7 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 48.9 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 48.9 | Percent Followers, % | 24.0 |
| Segment Travel Time, minutes | 1.23 | Followers Density, followers/mi/ln | 0.7 |
| Vehicle LOS | A | | |

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Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | NY-98 | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 526 | Opposing Demand Flow Rate, veh/h | 408 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 8.79 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.31 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.7 |
| Speed Slope Coefficient | 3.70985 | Speed Power Coefficient | 0.49557 |
| PF Slope Coefficient | -1.23800 | PF Power Coefficient | 0.80291 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 4.6 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 59.2 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 59.2 | Percent Followers, % | 52.2 |
| Segment Travel Time, minutes | 1.01 | Followers Density, followers/mi/ln | 4.6 |
| Vehicle LOS | C | | |

HCS7 Multilane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | NY-33A | Unit | United States Customary |

Direction 1 Geometric Data

| | | | |
|-----------------------------------|-----------|---------------------------------------|-------|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 3.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.3 | | |

Direction 1 Adjustment Factors

| | | | |
|-----------------------|--------------|--|-------|
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |

Direction 1 Demand and Capacity

| | | | |
|-----------------------------|------|---------------------------------------|-------|
| Volume(V) veh/h | 378 | Heavy Vehicle Adjustment Factor (fhv) | 0.930 |
| Peak Hour Factor | 0.90 | Flow Rate (Vp), pc/h/ln | 226 |
| Total Trucks, % | 7.49 | Capacity (c), pc/h/ln | 2084 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2084 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.11 |

Direction 1 Speed and Density

| | | | |
|--------------------------------------|-----|-------------------------|------|
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 54.2 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 4.2 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | A |
| Access Point Density Adjustment (fA) | 0.8 | | |

Direction 1 Bicycle LOS

| | | | |
|---------------------------------------|-----|--------------------------------|------|
| Flow Rate in Outside Lane (vOL),veh/h | 210 | Effective Speed Factor (St) | 4.79 |
| Effective Width of Volume (Wv), ft | 18 | Bicycle LOS Score (BLOS) | 4.06 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |

HCS7 Multilane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | NY-33A | Unit | United States Customary |

Direction 2 Geometric Data

| | | | |
|-----------------------------------|-----------|---------------------------------------|-------|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 3.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.3 | | |

Direction 2 Adjustment Factors

| | | | |
|-----------------------|--------------|--|-------|
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |

Direction 2 Demand and Capacity

| | | | |
|-----------------------------|------|---------------------------------------|-------|
| Volume(V) veh/h | 533 | Heavy Vehicle Adjustment Factor (fhv) | 0.930 |
| Peak Hour Factor | 0.90 | Flow Rate (Vp), pc/h/ln | 318 |
| Total Trucks, % | 7.49 | Capacity (c), pc/h/ln | 2084 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2084 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.15 |

Direction 2 Speed and Density

| | | | |
|--------------------------------------|-----|-------------------------|------|
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 54.2 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 5.9 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | A |
| Access Point Density Adjustment (fA) | 0.8 | | |

Direction 2 Bicycle LOS

| | | | |
|---------------------------------------|-----|--------------------------------|------|
| Flow Rate in Outside Lane (vOL),veh/h | 296 | Effective Speed Factor (St) | 4.62 |
| Effective Width of Volume (Wv), ft | 18 | Bicycle LOS Score (BLOS) | 4.12 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|-----------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Bank State Road (County Route 13) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 4 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 219 | Opposing Demand Flow Rate, veh/h | 144 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 7.49 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.13 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 59.7 |
| Speed Slope Coefficient | 3.51905 | Speed Power Coefficient | 0.55667 |
| PF Slope Coefficient | -1.19686 | PF Power Coefficient | 0.81512 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 1.1 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 58.6 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 58.6 | Percent Followers, % | 29.3 |
| Segment Travel Time, minutes | 1.02 | Followers Density, followers/mi/ln | 1.1 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|--|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Batavia Byron Road (County Route 19A) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 2 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 103 | Opposing Demand Flow Rate, veh/h | 66 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.07 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.06 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 59.0 |
| Speed Slope Coefficient | 3.44121 | Speed Power Coefficient | 0.59170 |
| PF Slope Coefficient | -1.16949 | PF Power Coefficient | 0.82204 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.3 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 58.9 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 58.9 | Percent Followers, % | 16.6 |
| Segment Travel Time, minutes | 1.02 | Followers Density, followers/mi/ln | 0.3 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Byron Elba Road - East (NY 262) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 276 | Opposing Demand Flow Rate, veh/h | 351 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 8.67 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.16 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.1 |
| Speed Slope Coefficient | 3.66246 | Speed Power Coefficient | 0.50527 |
| PF Slope Coefficient | -1.23361 | PF Power Coefficient | 0.80432 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 1.6 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 59.5 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 59.5 | Percent Followers, % | 35.4 |
| Segment Travel Time, minutes | 1.01 | Followers Density, followers/mi/ln | 1.6 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Byron Elba Road - West (NY 262) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|-------|
| Directional Demand Flow Rate, veh/h | 253 | Opposing Demand Flow Rate, veh/h | 276 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 10.19 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.15 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.0 |
| Speed Slope Coefficient | 3.63755 | Speed Power Coefficient | 0.52044 |
| PF Slope Coefficient | -1.22119 | PF Power Coefficient | 0.80898 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 1.4 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 59.6 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 59.6 | Percent Followers, % | 33.1 |
| Segment Travel Time, minutes | 1.01 | Followers Density, followers/mi/ln | 1.4 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|----------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Byron Holley Road (NY 237) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 5 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 83 | Opposing Demand Flow Rate, veh/h | 83 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 8.25 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.05 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 60.4 |
| Speed Slope Coefficient | 3.52567 | Speed Power Coefficient | 0.58212 |
| PF Slope Coefficient | -1.17168 | PF Power Coefficient | 0.82410 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.2 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 60.4 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 60.4 | Percent Followers, % | 14.0 |
| Segment Travel Time, minutes | 0.99 | Followers Density, followers/mi/ln | 0.2 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|--------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Caswell Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 14 | Opposing Demand Flow Rate, veh/h | 18 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 2.11 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.01 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.1 |
| Speed Slope Coefficient | 3.29613 | Speed Power Coefficient | 0.63001 |
| PF Slope Coefficient | -1.14309 | PF Power Coefficient | 0.82603 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.1 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.1 | Percent Followers, % | 3.4 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Existing |
| Project Description | Clinton Street (NY 33) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 357 | Opposing Demand Flow Rate, veh/h | 356 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.56 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.21 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.8 |
| Speed Slope Coefficient | 3.70362 | Speed Power Coefficient | 0.50446 |
| PF Slope Coefficient | -1.23059 | PF Power Coefficient | 0.80546 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 2.5 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 59.9 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 59.9 | Percent Followers, % | 41.5 |
| Segment Travel Time, minutes | 1.00 | Followers Density, followers/mi/ln | 2.5 |
| Vehicle LOS | B | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|--------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Cockram Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|-------|
| Directional Demand Flow Rate, veh/h | 379 | Opposing Demand Flow Rate, veh/h | 379 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 10.46 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.22 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.4 |
| Speed Slope Coefficient | 3.47165 | Speed Power Coefficient | 0.50036 |
| PF Slope Coefficient | -1.25609 | PF Power Coefficient | 0.79284 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 3.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 55.6 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 55.6 | Percent Followers, % | 44.1 |
| Segment Travel Time, minutes | 1.08 | Followers Density, followers/mi/ln | 3.0 |
| Vehicle LOS | B | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|-----------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Cole Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 7 | Opposing Demand Flow Rate, veh/h | 10 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.00 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.0 |
| Speed Slope Coefficient | 3.28056 | Speed Power Coefficient | 0.64105 |
| PF Slope Coefficient | -1.13345 | PF Power Coefficient | 0.82908 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.0 | Percent Followers, % | 1.8 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|-----------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Tower Hill Road | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 7 | Opposing Demand Flow Rate, veh/h | 7 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.00 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.0 |
| Speed Slope Coefficient | 3.27455 | Speed Power Coefficient | 0.64724 |
| PF Slope Coefficient | -1.12806 | PF Power Coefficient | 0.83072 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.0 | Percent Followers, % | 1.7 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|--------------------------------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Transit Road (County Route 42) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 18 | Opposing Demand Flow Rate, veh/h | 9 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.68 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.01 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 57.0 |
| Speed Slope Coefficient | 3.27869 | Speed Power Coefficient | 0.64297 |
| PF Slope Coefficient | -1.13178 | PF Power Coefficient | 0.82959 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.0 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 57.0 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|-----|
| Average Speed, mi/h | 57.0 | Percent Followers, % | 3.9 |
| Segment Travel Time, minutes | 1.05 | Followers Density, followers/mi/ln | 0.0 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | Walkers Corners Road (County Route 19) | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 0 |
| Speed Limit, mi/h | 35 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 62 | Opposing Demand Flow Rate, veh/h | 41 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 4.43 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.04 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 34.2 |
| Speed Slope Coefficient | 2.07894 | Speed Power Coefficient | 0.60789 |
| PF Slope Coefficient | -1.14596 | PF Power Coefficient | 0.74059 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 0.2 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 34.2 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 34.2 | Percent Followers, % | 13.6 |
| Segment Travel Time, minutes | 1.75 | Followers Density, followers/mi/ln | 0.2 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | NY-19 | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 11 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 45 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|-------|
| Directional Demand Flow Rate, veh/h | 183 | Opposing Demand Flow Rate, veh/h | 192 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 13.56 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.11 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 49.5 |
| Speed Slope Coefficient | 2.98523 | Speed Power Coefficient | 0.54146 |
| PF Slope Coefficient | -1.24094 | PF Power Coefficient | 0.78069 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 1.1 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 48.7 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 48.7 | Percent Followers, % | 28.1 |
| Segment Travel Time, minutes | 1.23 | Followers Density, followers/mi/ln | 1.1 |
| Vehicle LOS | A | | |

HCS7 Two-Lane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | NY-98 | Unit | United States Customary |

Segment 1

Vehicle Inputs

| | | | |
|-------------------|--------------|------------------------------|------|
| Segment Type | Passing Zone | Length, ft | 5280 |
| Lane Width, ft | 12 | Shoulder Width, ft | 6 |
| Speed Limit, mi/h | 55 | Access Point Density, pts/mi | 3.0 |

Demand and Capacity

| | | | |
|-------------------------------------|------|----------------------------------|------|
| Directional Demand Flow Rate, veh/h | 667 | Opposing Demand Flow Rate, veh/h | 549 |
| Peak Hour Factor | 0.90 | Total Trucks, % | 9.28 |
| Segment Capacity, veh/h | 1700 | Demand/Capacity (D/C) | 0.39 |

Intermediate Results

| | | | |
|-----------------------------------|----------|----------------------------------|---------|
| Segment Vertical Class | 1 | Free-Flow Speed, mi/h | 61.6 |
| Speed Slope Coefficient | 3.74250 | Speed Power Coefficient | 0.47584 |
| PF Slope Coefficient | -1.25312 | PF Power Coefficient | 0.79629 |
| In Passing Lane Effective Length? | No | Total Segment Density, veh/mi/ln | 6.8 |
| %Improved % Followers | 0.0 | % Improved Avg Speed | 0.0 |

Subsegment Data

| # | Segment Type | Length, ft | Radius, ft | Superelevation, % | Average Speed, mi/h |
|---|--------------|------------|------------|-------------------|---------------------|
| 1 | Tangent | 5280 | - | - | 58.8 |

Vehicle Results

| | | | |
|------------------------------|------|------------------------------------|------|
| Average Speed, mi/h | 58.8 | Percent Followers, % | 59.6 |
| Segment Travel Time, minutes | 1.02 | Followers Density, followers/mi/ln | 6.8 |
| Vehicle LOS | C | | |

HCS7 Multilane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | NY-33A | Unit | United States Customary |

Direction 1 Geometric Data

| | | | |
|-----------------------------------|-----------|---------------------------------------|-------|
| Direction 1 | Eastbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 3.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.3 | | |

Direction 1 Adjustment Factors

| | | | |
|-----------------------|--------------|--|-------|
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |

Direction 1 Demand and Capacity

| | | | |
|-----------------------------|------|---------------------------------------|-------|
| Volume(V) veh/h | 505 | Heavy Vehicle Adjustment Factor (fHV) | 0.924 |
| Peak Hour Factor | 0.90 | Flow Rate (Vp), pc/h/ln | 304 |
| Total Trucks, % | 8.23 | Capacity (c), pc/h/ln | 2084 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2084 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.15 |

Direction 1 Speed and Density

| | | | |
|--------------------------------------|-----|-------------------------|------|
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 54.2 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 5.6 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | A |
| Access Point Density Adjustment (fA) | 0.8 | | |

Direction 1 Bicycle LOS

| | | | |
|---------------------------------------|-----|--------------------------------|------|
| Flow Rate in Outside Lane (vOL),veh/h | 281 | Effective Speed Factor (St) | 4.79 |
| Effective Width of Volume (Wv), ft | 18 | Bicycle LOS Score (BLOS) | 4.47 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | D |

HCS7 Multilane Highway Report

Project Information

| | | | |
|---------------------|---------|----------------------|-------------------------|
| Analyst | BH | Date | 7/7/2020 |
| Agency | PDE | Analysis Year | 2020 |
| Jurisdiction | NYS DOT | Time Period Analyzed | Construction |
| Project Description | NY-33A | Unit | United States Customary |

Direction 2 Geometric Data

| | | | |
|-----------------------------------|-----------|---------------------------------------|-------|
| Direction 2 | Westbound | | |
| Number of Lanes (N), ln | 2 | Terrain Type | Level |
| Segment Length (L), ft | - | Percent Grade, % | - |
| Measured or Base Free-Flow Speed | Base | Grade Length, mi | - |
| Base Free-Flow Speed (BFFS), mi/h | 55.0 | Access Point Density, pts/mi | 3.0 |
| Lane Width, ft | 12 | Left-Side Lateral Clearance (LCR), ft | 6 |
| Median Type | Divided | Total Lateral Clearance (TLC), ft | 12 |
| Free-Flow Speed (FFS), mi/h | 54.3 | | |

Direction 2 Adjustment Factors

| | | | |
|-----------------------|--------------|--|-------|
| Driver Population | All Familiar | Final Speed Adjustment Factor (SAF) | 1.000 |
| Driver Population SAF | 1.000 | Final Capacity Adjustment Factor (CAF) | 1.000 |
| Driver Population CAF | 1.000 | | |

Direction 2 Demand and Capacity

| | | | |
|-----------------------------|------|---------------------------------------|-------|
| Volume(V) veh/h | 660 | Heavy Vehicle Adjustment Factor (fhv) | 0.924 |
| Peak Hour Factor | 0.90 | Flow Rate (Vp), pc/h/ln | 397 |
| Total Trucks, % | 8.23 | Capacity (c), pc/h/ln | 2084 |
| Single-Unit Trucks (SUT), % | - | Adjusted Capacity (cadj), pc/h/ln | 2084 |
| Tractor-Trailers (TT), % | - | Volume-to-Capacity Ratio (v/c) | 0.19 |

Direction 2 Speed and Density

| | | | |
|--------------------------------------|-----|-------------------------|------|
| Lane Width Adjustment (fLW) | 0.0 | Average Speed (S), mi/h | 54.2 |
| Total Lateral Clearance Adj. (fLLC) | 0.0 | Density (D), pc/mi/ln | 7.3 |
| Median Type Adjustment (fM) | 0.0 | Level of Service (LOS) | A |
| Access Point Density Adjustment (fA) | 0.8 | | |

Direction 2 Bicycle LOS

| | | | |
|---------------------------------------|-----|--------------------------------|------|
| Flow Rate in Outside Lane (vOL),veh/h | 367 | Effective Speed Factor (St) | 4.79 |
| Effective Width of Volume (Wv), ft | 18 | Bicycle LOS Score (BLOS) | 4.61 |
| Average Effective Width (We), ft | 24 | Bicycle Level of Service (LOS) | E |