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Project Description Update Addendum

Corby Battery Energy Storage System Project May 2025



Prepared for



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Acronyms and Abbreviations

| Application | Opt-in Application |
|-------------------|---|
| BESS | battery energy storage system |
| CEQA | California Environmental Quality Act |
| CO ₂ | carbon dioxide |
| gen-tie | generation tie |
| GHG | greenhouse gas |
| LOS | Level of Service |
| PM ₁₀ | particulate matter less than 10 microns diameter |
| PM _{2.5} | particulate matter less than 2.5 microns diameter |
| Project | Corby Battery Energy Storage System Project |
| VMT | vehicle miles traveled |
| YSAQMD | Yolo Solano Air Quality Management District |

1.0 INTRODUCTION AND PURPOSE

Since filing the Corby Battery Energy Storage System Project (Project) Opt-in Application (Application) in November 2024, additional Project description details are now available that require updates to the environmental analysis. A Project Description Update was filed in April 2025 that served as the updated Project Description and environmental analysis to account for the additional Project description details. At the time of filing the Project Description Update, the technical analysis for four environmental areas had not been completed. Accordingly, this document serves as an Addendum to the Project Description Update to provide the updated environmental analysis for the remaining four environmental areas: air quality, energy, greenhouse gas emissions, and transportation.

Section 2.0 includes a list of the Project Description updates, the full details of which were previously provided in the Project Description Update filed in April 2025. Section 3.0 analyzes the potential environmental impacts resulting from these updates for the remaining four environmental areas¹ relative to the analysis included in the Application. As discussed herein, the Project, with these updates, will not result in any significant environmental impacts.

2.0 PROJECT DESCRIPTION UPDATES

The updates and additions to the Project design since submittal of the Application include the following elements;

- Solano Irrigation District water supply system
- Groundwater well water supply system
- Onsite water tank
- Telecommunications line
- Site access roads

Refer to the Project Description Update filed in April 2025 for detailed description of these Project updates.

3.0 ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

An analysis of each of the remaining four environmental areas included in the Application and withheld from the Project Description Update is presented below, as related to the Project changes included in Section 2.0. Section 3.0 numbering in the below subsections has been retained from the Project Description Update. Additionally, applicable laws, ordinances, regulations, and standards have been reviewed to determine the Project's consistency with them.

¹ For consistency, the heading numbering within Section 3.0 reflects the numbering of these environmental areas in the original Project Description Update.

3.3 Air Quality

An updated Air Quality and Greenhouse Gas Technical Report has been prepared and filed separately, providing a detailed updated analysis addressing the Project description updates and Data Requests. Changes to the air quality and public health results and conclusions are summarized below.

Construction of the additional Project components described in Section 2.0 will continue to result in less than significant impacts related to air quality. Although the onsite and offsite emissions associated with the addition of the groundwater well and onsite water tank will increase the overall emissions resulting from the Project, mitigated emissions for reactive organic gases and nitrogen oxides will be less than the Yolo Solano Air Quality Management District (YSAQMD) annual threshold of 10 tons. The maximum daily particulate matter less than 10 microns diameter (PM₁₀) construction emissions will be less than the YSAQMD's significance threshold of 80 pounds per day. Additionally, AERMOD predicted impacts for nitrogen dioxide, PM₁₀, particulate matter less than 2.5 microns (PM_{2.5}), carbon monoxide, and sulfur dioxide during construction, which were evaluated in response to Data Request DR AQ-1, show that the Project will comply with all state and federal Ambient Air Quality Standards. Therefore, the Project will not violate any air quality standard or contribute substantially to an existing or projected air quality violation, and impacts will be less than significant.

The cancer and chronic health risks associated with the additional Project components will respectively be less than the YSAQMD cancer risk threshold of 10 in one million, and the chronic hazard index of 1, for all the residential, worker and sensitive receptors previously identified. Therefore, the Project will not expose sensitive receptors to substantial pollutant concentrations, and health risk-related impacts will be less than significant.

Finally, the additional Project components will not make a cumulatively considerable contribution during construction. The YSAQMD (2020) *Handbook for Assessing and Mitigating Air Quality Impacts* states that any proposed project that would individually have a significant air quality impact (determined based on YSAQMD's Thresholds of Significance described above) would also be considered to have a significant cumulative impact. Project impacts continue to be less than significant after inclusion of the additional components and, therefore, the cumulative impacts from the construction of additional Project components will also be less than significant.

3.6 Energy

The construction of the additional Project components listed in Section 2.0 of this Addendum will result in negligible additional impacts to the energy relative to the Application. Energy consumption associated with the construction of the groundwater well is approximately 14.5 megawatt-hours of electricity and has been previously calculated within the Application. The additional Project components will increase the energy consumption presented in the Application by adding more construction equipment, a larger construction workforce, and increased construction vehicle trips. These changes to the construction assumptions have been taken into account in the revised Air Quality and Greenhouse Gas Technical Report referenced above in Section 3.3, Air Quality, which is the basis for calculating energy consumption.

As described in Section 4.6, Energy, of the Application, construction and operational energy use were calculated based on on-road vehicle trips and distances and the off-road equipment use as described

in Section 4.3, *Air Quality*. Fuel consumption factors in terms of gallon of diesel and gasoline per mile travel were calculated from the California Air Resources Board (CARB) Mobile Source Emissions Inventory online database – EMFAC2017 version 1.0.2 (CARB 2020). Fuel consumption factors in terms of gallons per hour of diesel for off-road equipment were calculated using data from the CARB Mobile Source Emissions Inventory online database – OFFROAD2017 version 1.0.1 (CARB 2020). The conversion factor for diesel is 10.21 kilograms of carbon dioxide (CO₂) per gallon and 8.78 kilograms CO₂ per gallon for gasoline (The Climate Registry 2024). The revised energy calculations presented below use the same methodology with the results of the revised Air Quality and Greenhouse Gas Technical Report.

Accounting for the additional Project components, the updated energy consumption during the construction phase would be approximately 3,626 metric tons of CO₂, which, when using the conversion factor of 10.19 kilograms CO₂ per gallon, would be approximately 355,839 gallons of diesel fuel consumed. Previously, as discussed in Section 4.6, Energy, of the Application, the construction phase of the Project was estimated to generate 2,202 metric tons of CO₂, which corresponds to approximately 216,094 gallons of diesel fuel consumption. Although the Project, with the additional Project components listed in Section 2.0 above, would result in approximately 139,745 additional gallons of diesel consumed during construction, the revised total still represents a negligible fraction of California's estimated consumption of 2.3 billion gallons of diesel in 2022. Therefore, fuel use from construction equipment would not be considered wasteful or inefficient.

As detailed in the revised Air Quality and Greenhouse Gas Technical Report, the Project would not result in additional CO₂ generated during Project operation. The additional project components listed in Section 2.0 above only affect emissions and energy usage during construction. Therefore, no change would occur with regard to operational energy usage, and operation of the Project would not be considered wasteful, inefficient, or unnecessary consumption of energy resources. Moreover, as a battery storage project that absorbs energy during periods of increased energy production and releases energy during peak demands for energy, the Project will have a positive effect on the peak and base period system demands for electricity.

Finally, the additional Project components would not conflict with or obstruct any state or local plan for renewable or energy efficiency. The Project components listed in Section 2.0 maintain the Project's objective of ultimately assisting California in achieving or exceeding its Renewable Portfolio Standard and greenhouse gas (GHG) emission reduction goals by constructing a battery energy storage system (BESS) to store renewable energy.

3.8 Greenhouse Gases

An updated Air Quality and Greenhouse Gas Technical Report has been prepared and filed separately, providing a detailed updated analysis addressing the Project description updates and Data Requests. Changes to the GHG analysis results and conclusions are summarized below.

Construction of the additional Project components described in Section 2.0 will continue to result in less than significant impacts related to GHG emissions. Although the onsite and offsite emissions associated with the addition of the groundwater well and onsite water tank will increase the construction emissions resulting from the Project, the increase in overall amortized GHG emissions from 104 to 196 metric tons of carbon dioxide equivalent will be less than the California Air Pollution Control Officers Association (CAPCOA) threshold of significance of 900 metric tons per year.

To address Data Request DR GHG-1, the Project Applicant has coordinated with the proposed vendor for the BESS enclosure chiller units to use R-513a refrigerant as an alternative to R-134a, which was originally proposed to be used. R-513a has a global warming potential of less than 750, and is therefore compliant with the "Prohibitions on Use of Certain Hydrofluorocarbons in Stationary Refrigeration, Stationary Air-conditioning and Other End-Uses" (California Code of Regulations, Title 17, Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 5). Potential R-513a emissions associated with equipment leakage are factored into the updated analysis and amortized emissions total provided above.

3.17 Transportation

Construction of the additional Project components described in Section 2.0 of this Addendum will result in negligible additional impacts to the transportation network relative to the Application. The updated Site Plan is depicted in Figure 2-1 of the Project Description Update and presents a second 24-foot-wide access road into to the BESS facility off of Byrnes Road (the Site Plan presented in the Application included only one driveway for the BESS facility off Byrnes Road). The updated construction workforce labor estimates, as described in Table 2.2-2 of the Project Description Update, and the revised daily truck trip estimates for the construction of the on-site water tank indicate that the peak of construction is now expected to occur in Month 9 (the Application construction assumptions previously indicated that peak construction occurred in Month 7).

The traffic analyses affected by the additional Project components are documented in this section and Appendices 3.17-A through 3.17-D. All study roadways and intersections will continue to operate within acceptable County and California Department of Transportation operations standards under Existing plus Project Conditions and the Cumulative plus Project conditions. Therefore, the overall findings of the transportation assessment included in the original Application still apply and the Project's transportation impacts will be less than significant.

Updated Traffic Analyses

This section analyzes the transportation impacts resulting from these updates relative to the analysis included in the Application. Specifically, as a result of the updated construction workforce labor estimates, the following analyses were updated relative to the Application:

- 2024 Existing plus Project Intersection Operations
- 2024 Existing plus Project Roadway Segment Operations
- 2026 Cumulative plus Project Intersection Operations
- 2026 Cumulative plus Project Roadway Segment Operations
- Vehicle Miles Traveled Analysis

3.17.1 Impacts Analysis

Peak Construction Phase Trip Generation

The Project's vehicular trip generation analysis is based on data provided by the Project Applicant on the proposed construction activities. As previously defined in the Application, specific data used to estimate the Project trips include the anticipated construction schedule, maximum number of workers onsite during each construction phase, vendor trips, and truck haul trips required to complete each phase. The Project has a construction schedule of approximately 14 months (15 months including the optional groundwater well installation). Trip generation will vary depending on the specific phase and construction stage. The analyses presented herein represent the peak construction phase to present a conservative evaluation of the Project's transportation-related impacts.

As a result of the planned construction of additional Project components, the peak of construction is anticipated to shift from Month 7 to Month 9 and will include the construction of the BESS array, onsite water tank, Project substation, and generation tie (gen-tie) components.

Worker vehicle trips and truck haul trips are estimated separately as they represent distinct trip types. Worker vehicle trips and truck haul trips associated with BESS and Project substation installation were assigned to the Project site construction laydown yard on Byrnes Road. Worker vehicle trips and truck haul trips associated with gen-tie installation were assigned to the gen-tie laydown yard on Kilkenny Road. Updated Project trip generation calculations are provided within Appendix 3.17-A and are summarized in Table 3.17-1 (replaces Table 4.17-5 in the Application). For the purposes of the California Environmental Quality Act (CEQA), the updated values shown in Table 3.17-1 provide a conservative scenario in that they represent the peak of Project construction activities.

| | | | AM Peak Hour | | | PM Peak Hour | |
|------------------------|---------------------------|-----------|--------------|-----------|-----------|--------------|-----------|
| Trip Type | Daily Trips ^{1/} | Inbound | Outbound | Total | Inbound | Outbound | Total |
| BESS/Substation Worker | 324 | 81 | 0 | 81 | 0 | 81 | 81 |
| Gen-Tie Worker | 144 | 36 | 0 | 36 | 0 | 36 | 36 |
| BESS/Substation Truck | 146 | 22 | 22 | 44 | 22 | 22 | 44 |
| Gen-Tie Truck | <u>118</u> | <u>18</u> | <u>18</u> | <u>36</u> | <u>18</u> | <u>18</u> | <u>36</u> |
| TOTAL | 732 | 157 | 40 | 197 | 40 | 157 | 197 |

Note:

Updates are shown in **bold text**.

1/ Assumes 89 BESS/substation construction workers and 40 gen-tie construction workers during peak construction. A 1.10 Vehicle occupancy rate is applied to workers. All workers leave/return for lunch in the middle of the day.

2/ 30% of daily truck trips assumed to occur during the morning and afternoon peak hours.

A comparison of the updated Project peak construction trip generation estimates to the trip generation estimates submitted in the Application is provided in Table 3.17-2. As shown in Table 3.17-2, the additional Project components are estimated to generate an additional 16 trips (entering and exiting) during the weekday morning peak hour and the weekday evening peak hour and 54 additional Project trips on typical weekday during peak construction activities. This nominal increase in Projectrelated trips can be accommodated at the study area roadways and intersections as indicated by the updated traffic operations analyses presented in the following sections.

| Trip Type | Original Application Trip Generation | Updated Addendum Trip Generation | Net Difference |
|----------------------|---|-------------------------------------|----------------|
| Weekday Daily Trips | | · | |
| Entering | 339 | 366 | +27 |
| <u>Exiting</u> | <u>339</u> | <u>366</u> | <u>+27</u> |
| Total | 678 | 732 | <u>+54</u> |
| Weekday AM Peak Hour | | | |
| Entering | 150 | 157 | +7 |
| Exiting | <u>31</u> | <u>40</u> | <u>+9</u> |
| Total | 181 | 197 | +16 |
| Weekday PM Peak Hour | | | |
| Entering | 31 | 40 | +9 |
| <u>Exiting</u> | <u>150</u> | <u>157</u> | <u>+7</u> |
| Total | 181 | 197 | +16 |

 Table 3.17-2. Peak Construction Trip Generation Comparison

Note:

Updates are shown in **bold text**.

1/ Assumes 89 BESS/substation construction workers and 40 gen-tie construction workers during peak construction. A 1.10 Vehicle occupancy rate is applied to workers. All workers leave/return for lunch in the middle of the day.

2/ 30% of daily truck trips assumed to occur during the morning and afternoon peak hours.

Trip Distribution

The construction workforce trip distribution was updated to accommodate the second entrance driveway to the BESS facility. As previously defined in the Application, 70 percent of the total Project trips were assigned to the BESS facility site access road, and the remaining 30 percent were assigned to the substation access road. To accommodate the introduction of a second BESS facility site access road, 35 percent of Project trips are now assigned to the BESS facility via the northern BESS facility driveway while the remaining 35 percent will access the BESS facility via the southern BESS facility driveway.

The updated Project trip distribution patterns to and from the Project site within the study area are shown in Figure 3.17-1 (replaces Figure 4.17-6 in the Application). The updated trip distribution patterns were then applied to the trip generation estimates previously summarized in Table 3.17-1 herein. The resulting updated Project peak construction peak hour trip assignment is shown in Figure 3.17-2 (replaces Figure 4.17-8 in the Application).

3.17.1.1 2024 Existing Plus Project Conditions

Project trips shown in Figure 3.17-2 were added to the existing traffic volumes previously shown in the Application to estimate the Existing Plus Project traffic volumes. Figure 3.17-3 (replaces Figure 4.17-10 in the Application) shows the 2024 Existing Plus Project traffic volumes that were used to evaluate Existing Plus Project roadway and intersection operations.

2024 Existing plus Project Intersection Operations

Table 3.17-3 (replaces Table 4.17-8 in the Application) summarizes the Existing plus Project intersection Level of Service (LOS) at the study area intersections. As shown in Table 3.17-3, consistent with the results shown in the Application, all study area intersections are anticipated to operate well below capacity at acceptable LOS B or better during both peak hours with the temporary increase in Project construction traffic, consistent with Plan Policy TR-P5.2. Detailed Intersection LOS worksheets are provided in Appendix 3.17-B.

| | | | | AM Pea | ak Hour | | | PM Pea | ak Hour | |
|-----|--|------------|-------------------|---------------------|---------|-----------------------------------|------|--------|---------|------------------|
| No. | Intersection and | Movement | V/C ^{2/} | Delay ^{3/} | LOS4/ | 95th Q ^{5/} (feet) | V/C | Delay | LOS | 95th Q (feet) |
| 3 | Byrnes Road & Weber | NB | 0.12 | 10.60 | В | 10.0 | 0.43 | 12.90 | В | 52.5 |
| | Road | EB Left | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB Through | 0.01 | 7.80 | Α | 0.0 | 0.01 | 7.50 | Α | 0.0 |
| | | WB Left | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | WB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | SB | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| 4 | Byrnes Road & | NB Left | 0.01 | 7.70 | Α | 0.0 | 0.00 | 7.40 | Α | 0.0 |
| | Kilkenny Road | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB | 0.04 | 10.30 | В | 2.5 | 0.20 | 11.40 | В | 17.5 |
| 5 | Byrnes Road & Site | NB Left | 0.00 | 7.60 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | Driveway (Substation) | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB | 0.01 | 9.80 | Α | 0.0 | 0.04 | 9.80 | Α | 2.5 |
| 6 | Byrnes Road & Site | NB Left | 0.00 | 7.50 | Α | 0.0 | 0.00 | 7.30 | Α | 0.0 |
| | (BESS-North) | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB | 0.01 | 9.50 | Α | 0.0 | 0.05 | 9.60 | Α | 5.0 |
| 8 | Byrnes Road & Site | NB Left | 0.00 | 7.40 | Α | 0.0 | 0.00 | 7.30 | Α | 0.0 |
| | (BESS-South) | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB | 0.01 | 9.30 | Α | 0.0 | 0.05 | 9.40 | Α | 2.5 |
| 7 | Kilkenny Road & Gen- | EB Left | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | Lie laydown Yard | SB | 0.02 | 8.90 | Α | 2.5 | 0.06 | 9.20 | Α | 5.0 |
| 1 | I-80 Westbound On- Ramp/Off-Ramp | WB Left | 0.08 | 9.00 | Α | 5.0 | 0.12 | 9.30 | Α | 10.0 |
| 1 | I-80 Westbound On- | NB | 0.12 | 9.00 | Α | 10.0 | 0.04 | 8.70 | Α | 2.5 |
| | Ramp/Off-Ramp & North Meridian Road | WB Left | 0.05 | 7.40 | Α | 2.5 | 0.08 | 7.60 | Α | 5.0 |
| | | WB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| 2 | Weber Road & North Meridian Road | NB Left | 0.04 | 9.10 | Α | 2.5 | 0.05 | 9.60 | Α | 2.5 |
| 2 | I-80 Eastbound On- | EB Left | 0.02 | 7.30 | Α | 2.5 | 0.03 | 7.70 | Α | 2.5 |
| | Ramp/Off-Ramp & Weber Road | EB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | SB | 0.23 | 11.20 | В | 22.5 | 0.08 | 10.20 | В | 7.5 |

Level of Service—Existing plus Project Conditions (Replaces Table 4.17-8 in Application) Table 3.17-3.

Note: NB = Northbound; SB = Southbound; EB = eastbound; WB = westbound

1/ Updates are shown in **bold text**.

2/ Volume to Capacity Ratio 3/ Delay in seconds per vehicle

4/ Level of Service

5/ Vehicle queues measures in feet

2024 Existing plus Project Roadway Segment Operations

As shown in Table 3.17-4 (replaces Table 4.17-9 in the Application) and consistent with the results shown in the Application, the Existing plus Project roadway segment capacity analysis indicates that all the study area roadways segments will operate well below capacity at LOS B or better. Detailed Roadway Segment LOS worksheets are provided in Appendix 4.17-C.

| | | | AM Pea | ak Hour | | PM Peak Hour | | | | |
|-----|--|------------------------|--------|------------------------|-----|------------------------|-----|------------------------|-----|--|
| | | Direction 1 (NB/EB) | | Direction 2 (SB/WB) | | Direction 1 (NB/EB) | | Direction 2 (SB/WB) | | |
| No. | Segment | VEH DEN | LOS | VEH DEN | LOS | VEH DEN | LOS | VEH DEN | LOS | |
| 1 | Weber Road -West of Byrnes Road | 2.4 | В | 0.8 | Α | 1.1 | Α | 2.5 | В | |
| 2 | Byrnes Road - South of Kilkenny Road | 0.1 | A | 0.9 | A | 1.2 | A | 0.2 | A | |

Table 3.17-4. Roadway Segment Level of Service—Existing plus Project Conditions (Replaces Table 4.17-9)

Note: TRB (2022) methodology

1/ Updates are shown in **bold text**.

3.17.1.2 2026 Cumulative plus Project Conditions

The 2026 Cumulative Plus Project (Peak Construction) conditions consist of Project-related traffic added to the 2026 Cumulative (Without Project) Conditions traffic volumes. Project trips shown in Figure 3.17-2 for peak construction activities were added to the 2026 Cumulative (Without Project) condition traffic volumes previously shown in the Application. The resulting 2026 Cumulative Plus Project traffic volumes are shown in Figure 3.17-4 (replaces Figure 4.17-13 in the Application).

2026 Cumulative plus Project Intersection Operations

As shown in Table 3.17-5 (replaces 4.17-14 in the Application), consistent with the results shown in the Application, study area intersections are anticipated to operate well below capacity at acceptable LOS B or better during both peak hours with the temporary increase in Project construction traffic, consistent with Plan Policy TR-P5.2. Detailed Intersection LOS worksheets are provided in Appendix 3.17-B.

| | | | AM Peak Hour | | | PM Peak Hour | | | | |
|-----|-------------------------------------|---------------|-------------------|---------------------|-------|--------------------------------|------|-------|-----|------------------|
| No. | Intersection & Mo | vement | V/C ^{2/} | Delay ^{3/} | LOS4/ | 95th Q ^{5/} (feet) | V/C | Delay | LOS | 95th Q (feet) |
| 3 | Byrnes Road & Weber | NB | 0.13 | 11.40 | В | 12.5 | 0.48 | 14.60 | В | 65.0 |
| | Road | EB Left | 0.01 | 7.40 | Α | 0.0 | 0.01 | 7.30 | Α | 0.0 |
| | | EB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | WB Left | 0.01 | 7.80 | Α | 0.0 | 0.01 | 7.50 | Α | 0.0 |
| | | WB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | SB | 0.02 | 9.00 | Α | 2.5 | 0.03 | 9.70 | Α | 2.5 |
| 4 | Byrnes Road & Kilkenny | NB Left | 0.01 | 7.70 | Α | 0.0 | 0.00 | 7.40 | Α | 0.0 |
| | Road | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB | 0.04 | 10.30 | В | 2.5 | 0.20 | 11.40 | В | 17.5 |
| 5 | Byrnes Road & Site | NB Left | 0.00 | 7.60 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | Driveway (Substation) | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | (Cabotaton) | EB | 0.01 | 9.80 | Α | 0.0 | 0.04 | 9.90 | Α | 2.5 |
| 6 | Byrnes Road & Site | NB Left | 0.00 | 7.50 | Α | 0.0 | 0.00 | 7.30 | Α | 0.0 |
| | Driveway (BESS-North) | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | | EB | 0.01 | 9.50 | Α | 0.0 | 0.05 | 9.70 | Α | 5.0 |
| 8 | Byrnes Road & Site | NB Left | 0.00 | 7.40 | Α | 0.0 | 0.00 | 7.30 | Α | 0.0 |
| | Driveway (BESS-South) | NB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | A | 0.0 |
| | | EB | 0.01 | 9.30 | Α | 0.0 | 0.05 | 9.50 | Α | 2.5 |
| 7 | Kilkenny Road & Gen | EB Left | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| | The laydown Yard | SB | 0.02 | 8.90 | Α | 2.5 | 0.06 | 9.20 | Α | 5.0 |
| 1 | I-80 Westbound On- Ramp/Off-Ramp | WB Left | 0.09 | 9.00 | Α | 7.5 | 0.13 | 9.30 | Α | 10.0 |
| 1 | I-80 Westbound On- | NB | 0.13 | 9.10 | Α | 10.0 | 0.05 | 8.70 | Α | 2.5 |
| | Meridian Road | WB Left | 0.05 | 7.40 | Α | 5.0 | 0.08 | 7.60 | Α | 7.5 |
| | | WB Through | 0.00 | 0.00 | Α | 0.0 | 0.00 | 0.00 | Α | 0.0 |
| 2 | Weber Road & North Meridian Road | NB Left | 0.04 | 9.20 | Α | 2.5 | 0.05 | 9.60 | Α | 2.5 |
| 2 | I-80 Eastbound On- | EB Left | 0.02 | 7.40 | A | 2.5 | 0.03 | 7.70 | A | 2.5 |
| | Weber Road | EB Through | 0.00 | 0.00 | A | 0.0 | 0.00 | 0.00 | A | 0.0 |
| | | SB | 0.25 | 11.50 | В | 25.0 | 0.10 | 10.50 | В | 7.5 |

| Table 3.17-5. | Level of Service—Cumulati | ve plus Project Con | ditions (Replaces Table | 4.17-14 in Application) |
|---------------|---------------------------|---------------------|-------------------------|-------------------------|
|---------------|---------------------------|---------------------|-------------------------|-------------------------|

Notes: NB = Northbound; SB = Southbound; EB = eastbound; WB = westbound

1/ Updates are shown in \bold text.

2/ Volume to Capacity Ratio 3/ Delay in seconds per vehicle 4/ Level of Service

5/ Vehicle queues measures in feet

2026 Cumulative plus Project Roadway Segment Operations

As shown in Table 3.17-6 (replaces Table 4.17-15 in the Application), consistent with the results shown in the Application, the Cumulative plus Project roadway segment capacity analysis indicates that all the study area roadways segments will operate well below capacity at LOS B or better. Detailed Roadway Segment LOS worksheets are provided in Appendix 4.17-C.

| Table 3-17.6 | Roadway Segment Level of Service - Cumulative plus Project Conditions (Replaces Table |
|--------------|---|
| 4.1 | 7-15 in Application) |

| | | | AM Pea | ak Hour | | | PM Pea | ak Hour | |
|-----|--|--------------|----------------|---------------|----------------|--------------|----------------|---------------|---------------|
| | | Direc (NB | tion 1 /EB) | Dire 2 (SE | ction 8/WB) | Direc (NB | tion 1 /EB) | Direc (SB/ | tion 2 WB) |
| N | | VEH | 1.00 | VEH | | VEH | | VEH | |
| NO. | Segment | DEN | LOS | DEN | LOS | DEN | LOS | DEN | LOS |
| 1 | Weber Road -West of Byrnes Road | 2.7 | В | 1.0 | Α | 1.4 | Α | 2.8 | В |
| 2 | Byrnes Road - South of Kilkenny Road | 0.1 | A | 0.9 | A | 1.2 | A | 0.2 | A |

Note: TRB (2022) Methodology

1/ Updates are shown in **bold text**.

3.17.1.3 Vehicle Miles Traveled

As previously defined in the Application, per State CEQA Guidelines Section 15064.3(b)(3), a qualitative vehicle miles traveled (VMT) analysis of construction trips is appropriate, given that the construction-related trips and traffic volume are temporary and would cease after construction is completed; thus, they would not change transportation or traffic patterns in the long term.

During the 14-month construction phase (15 months including optional groundwater well installation) of the Project, workers and trucks would travel to and from the site daily. The location of the Site limits the opportunity to improve how workers reach the site. Carpooling will be recommended to the Project applicant as an effective method to reduce VMT in the region during construction. Few, if any, alternative means to reach the Project site are available. The ability to use public transit is limited by distance from the nearest transit stop to the site (2.3 miles). Additionally, Vacaville City Coach Route 4 runs on an hourly schedule on weekdays.

The effective construction workforce of a given city is proportional to the distance that city is from the Project site. Cities such as Vacaville, Dixon, Fairfield, and Davis offer shorter commutes and thus are more attractive to potential workers than cities such as Napa, Vallejo, and Sacramento. The average trip length for workers, haul trucks, and vendor trucks is expected to be 22.1 miles. As stated in Appendix 3.17-A, the Applicant has provided more detailed expected trip lengths for Import Fill Trips, Water Truck Trips, and Biomass Hauling Trips. During the revised peak construction period, the Project will generate a daily VMT of 10,814 vehicle-miles over 732 trips, which is a minor increase relative to the Application daily VMT estimate of 9,767 vehicle-miles over 678 trips. During peak construction, the daily worker VMT per capita is expected to be 45.7 miles. During peak construction,

the daily VMT per truck is expected to be 37.3 miles. Refer to Appendix 3.17-D for a more detailed summary.

Operations and maintenance activity trip generation will not change as a result of the Project Description changes and are expected to generate a less than significant transportation impact .

3.17.2 Mitigation Measures

The additional Project components do not warrant transportation mitigation measures, consistent with the findings of the original Application. The Project Applicant continues to commit to developing and implementing a construction traffic management plan prior to Project construction, as proposed in Project Design Measure TRANS-01 in the Application.

4.0 **REFERENCES**

CARB (California Air Resources Board). 2020. Emissions Inventory Tool for On-road and Off-road Emissions Rates (EMFAC). Available online at: <u>https://arb.ca.gov/emfac/emissions-inventory/</u> (accessed April 2025).

The Climate Registry. 2024. Default Emission Factors. Available online at: <u>https://theclimateregistry.org/wp-content/uploads/2024/03/2024-Emission-Factor-Document_FINAL.pdf</u> (accessed April 2025).

YSAQMD (Yolo Solano Air Quality Management District). 2007. Handbook for Assessing and Mitigating Air Quality Impacts. Available online at: <u>https://www.ysaqmd.org/wp-</u> <u>content/uploads/Planning/CEQAHandbook2007.pdf</u>

FIGURES













Corby Battery Energy Storage System Project Solano County, CA







2024 EXISTING PLUS PEAK CONSTRUCTION PEAK HOUR TRAFFIC VOLUMES

Corby Battery Energy Storage System Project Solano County, CA







2026 CUMULATIVE PLUS PEAK CONSTRUCTION PEAK HOUR TRAFFIC VOLUMES

Corby Battery Energy Storage System Project Solano County, CA 3.17-4



APPENDIX 3.17-A: TRIP GENERATION CALCULATIONS

| | | Co | rby Batte Daily | ery Energ Trip Ger | y Storage Neration b | System I by Month | Project | | | | | | | | |
|---|-----------------|------------------|----------------------|-----------------------|-------------------------|----------------------|---------------|------------|-----------------------------|--|--------------------------|--------------|-----------|-------------|----------|
| Durling Anti-the Company (Control AC) | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| GW Woll Drilling /Testing /Equipment lastall | Wall Drill/ | Tost/Install | Api-20 | Ividy-20 | 5011-20 | 301-20 | Aug-20 | 36p-20 | 001-20 | 1404-20 | Dec-20 | Jan-27 | 160-27 | Widi -27 | Api-27 |
| Site Preparation | weii Driii/ | Site Pre | paration | 1 | | - | | | | | | | | | |
| Grading Battery/Container Installation | | | | Grading | | Battery, | /Container In | stallation | | | | | | | |
| Gen-tie Site Preparation (Orchard Removal) Substation Installation | | | | | Gen-tie Site Prep | | | Substation | Installation | | |] | | | |
| Gen-tie Foundations, Tower Erection, and Underground Installation Gen-tie Stringing and Pulling | | | | | | | | Gen-tie | Foundations, Underground | , Tower Erect d Installation Gen-tie | ion, and Stringing an | d Pulling | 1 | _ | |
| Fire Water Loop, 300K-gal Tankage, Fire pump (14 weeks) Trip Gen reduced by 50% to Commissioning | account for 2 w | eeks of const | ruction durin | g Month 12. | | | | | | | Water Tan | k (14 weeks) | | Commissioni | ng |
| Project Total Workforce | 4 | 12 | 49 | 52 | 61 | 71 | 78 | <u>131</u> | 115 | <u>129</u> | 126 | 123 | 106 | 80 | 64 |
| Note: Construction Phasing by month provided by Project Applicant. | | | | | | | | | | | | | | | |
| | Month 0 | Month 1 | Month 2 | Month 2 | Month 4 | Cor Month F | by Constr | uction Tim | eline (300 | MW) | Month 10 | Month 11 | Month 12 | Month 12 | Month 14 |
| GW Well Drilling/Testing/Equipment Installation | Month U | Wonth 1 | Wonth 2 | Wonth 5 | Wonth 4 | Const | ruction | Wonth 7 | Wonth 8 | Wonth 9 | Wonth 10 | Wonth 11 | Wonth 12 | Commissioni | ng |
| Construction Laborer | 1 | 1 | | | | | | | | | | | | | |
| Equipment Operators Project Managers / Support | 2 | 2 | | | | | | | | | | | | | |
| Total BESS Workforce | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| RESS | - | | | | | | | | | | | | | | |
| Construction Laborer | 0 | 4 | 12 | 12 | 14 | 16 | 16 | 16 | 16 | 16 | 16 | 32 | 24 | 24 | 24 |
| Carpenters | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cement Finishers Electricians | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 4 | 0 20 | 0 20 | 0 20 | 0 32 | 0 32 | 0 | 0 24 |
| Equipment Operators | 0 | 0 | 8 | 8 | 10 | 12 | 12 | 16 | 16 | 8 | 8 | 8 | 0 | 0 | 0 |
| Pile Drivers | 0 | 0 | 1 | 1 | 2 | 4 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Truck Drivers | 0 | 0 | 8 | 8 | 8 | 8 | 8 | 3 | 3 | 3 | 1 | 1 | 0 | 0 | 0 |
| Project Managers / Support | 0 | 4 | 8 | 11 | 12 | 16 | 20 | 24 | 20 | 16 | 15 | 24 | 24 | 24 | 16 |
| Total BESS Workforce | 0 | 8 | 49 | 52 | 61 | 71 | 78 | 91 | 75 | 63 | 60 | 97 | 80 | 80 | 64 |
| Gen-tie (Underground and Overhead, including PG&E component) | | | | | | | | | | | | | | | |
| Construction Laborer | | | | | | | | 12 | 12 | 12 | 12 | | | | |
| Carpenters | _ | | | | | | | 2 | 2 | 2 | 2 | | | | |
| Electricians | | | | | | | | 10 | 10 | 10 | 10 | | | | |
| Equipment Operators Pile Drivers | | | | | | | | 5 | 5 | 5 | 5 | | | | |
| Rodmen / Ironworkers | | | | | | | | 2 | 2 | 2 | 2 | | | | |
| Truck Drivers | | | | | | | | 2 | 2 | 2 | 2 | | | | |
| Project Managers / Support Total Gen-tie Workforce | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 40 | 40 | 40 | 0 | 0 | 0 | 0 |
| | _ | | | | | | | | | | | | | | |
| Fire Water Loop, 300K-gal Tankage, Fire pump | | | | | | | | | | 10 | 10 | 10 | 10 | | |
| Cement Finishers | | | | | | | | | | 3 | 3 | 3 | 3 | | |
| Equipment Operators | | | | | | | | | | 3 | 3 | 3 | 3 | | |
| Plumbers Welders | - | | | | | | | | | 4 | 4 | 4 | 4 | 1 | |
| Electricians | | | | | | | | | | 1 | 1 | 1 | 1 | | |
| Project Managers / Support | | | | | | | | | | 3 | 3 | 3 | 3 | | |
| Total Combined Monthly Workforce | 4 | 12 | 49 | 52 | 61 | 71 | 78 | 131 | 115 | 129 | 126 | 123 | 106 | 80 | 64 |
| | | | One-W | /av Wor | ker Trip | s per da | v | | | | | | | | |
| | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| Commuting Worker Trip | os | | | | | | | | | | | | | | |
| GW Well Drilling Workers | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BESS Workers | 0 | 14 | 90 | 94 | 110 | 130 | 142 | 166 | 136 | 114 | 110 | 176 | 146 | 146 | 116 |
| Gen-Tie Workers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | /2 | 72 | /2 | /2 | 0 | 48 | 0 | 0 |
| Total Commuting Worker Trins | 8 | 22 | 90 | 94 | 110 | 130 | 142 | 238 | 208 | 234 | 230 | 224 | 194 | 146 | 116 |
| Lunch Break Worker Trip | os | | | | | | | | | | | | | | |
| GW Well Drilling Workers | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BESS Workers | 0 | 14 | 90 | 94 | 110 | 130 | 142 | 166 | 136 | 114 | 110 | 176 | 146 | 146 | 116 |
| Gen-Tie Workers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 | 72 | 72 | 72 | 0 | 0 | 0 | 0 |
| Fire Water Tank Workers | 0 | 0 | 0 | 0 | 0 | 120 | 0 | 0 | 0 | 48 | 48 | 48 | 48 | 0 | 0 |
| Total Daily Worker Trin | os o | - 22 | 50 | 54 | 110 | 150 | 142 | 200 | 208 | 234 | 230 | 224 | 154 | 140 | 110 |
| GW Well Drilling Workers | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BESS Workers | 0 | 28 | 180 | 188 | 220 | 260 | 284 | 332 | 272 | 228 | 220 | 352 | 292 | 292 | 232 |
| Gen-Tie Workers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 144 | 144 | 144 | 144 | 0 | 0 | 0 | 0 |
| Fire Water Tank Workers | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>96</u> | <u>96</u> | <u>96</u> | <u>96</u> | <u>0</u> | <u>0</u> |
| Total Daily Worker Trips | 16 | 44 | 180 or other erro | 188 | 220 | 260 | 284 | 476 | 416 | 468 | 460 | 448 | 388 | 292 | 232 |
| note: assumes a von of 1.10 for carpooning and an workers will leave the site during th | ις maaay, ojj p | can joi iuiicii, | or other effe | | | | | | | | | | | | |

| | | | One | -Way Tr | uck Trips | per day | | | | | | | | | |
|--|---------------------|---------------|-----------------|----------------|---------------|----------------------|----------------------|---------------|---------------|-----------|-----------|----------------|----------------|----------------|----------------|
| Total GW Well Drilling Truck Trins | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| Total BESS Truck Trips | 0 | 36 | 178 | 212 | 212 | 130 | 130 | 130 | 130 | 130 | 60 | 0 | 60 | 60 | 60 |
| Total Gen-tie Truck Trips | 0 | 0 | 0 | 0 | 28 | 0 | 0 | 72 | 72 | 118 | 118 | 46 | 0 | 0 | 0 |
| Total Fire Water Tank Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 16 | 8 | 0 | 0 |
| Total Truck Trips | 3 | 39 | 178 | 212 | 240 | 130 | 130 | 202 | 202 | 264 | 194 | 62 | 68 | 60 | 60 |
| Note: Truck Activity per month provided by the Project Applicant. Quantity of trips esimat | ed based o | n informatior | n provided by P | Project Applic | ant. | | | | | | | | | | |
| Vendor Truck Trips | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| GW Well Drilling/Testing/Equipment Install | 0 | 0 | | | | | | | | | | | | | |
| Site Preparation | | 8 | 8 | 16 | 16 | | | | | | | | | | |
| Battery/Container Installation | | | 10 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | | | | |
| Gen-tie Site Preparation (Orchard Removal) | | | | | 0 | 40 | 40 | 40 | 40 | 10 | 10 | | | | |
| Gen-tie Foundations, Tower Erection, and Underground Installation | | | | | | 40 | 40 | 40 | 16 | 16 | 16 | | | | |
| Gen-tie Stringing and Pulling | | | | | | | | | | 16 | 16 | 16 | 2 | | |
| Commissioning | | | | | | | | | | 4 | 4 | 4 | 40 | 40 | 40 |
| GW Well Drilling Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentie Truck Trips | 0 | 0 | 24 | 46 | 46 | 0 | 0 | 16 | 16 | 32 | 32 | 16 | 40 | 40 | 40 |
| Water Tank Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 | 4 | 2 | 0 | 0 |
| Hauling Truck Trips | U Month 0 | Month 1 | Month 2 | 46 Month 3 | 46 Month 4 | <u>70</u> Month 5 | <u>70</u> Month 6 | 86 Month 7 | 86 Month 8 | Month 9 | Month 10 | 20 Month 11 | 42 Month 12 | 40 Month 13 | 40 Month 14 |
| GW Well Drilling/Testing/Equipment Install | 3 | 3 | | | | | | | | | | | | | |
| Site Preparation | | 20 | 20 | 20 | 20 | | | | | | | | | | |
| Battery/Container Installation | | | 20 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | | | | | |
| Gen-tie Site Preparation (Orchard Removal) | | | | | 0 | 20 | 20 | 20 | 20 | 20 | 20 | | | | |
| Gen-tie Foundations, Tower Erection, and Underground Installation | | | | | | 20 | 20 | 30 | 30 | 30 | 30 | | _ | | |
| Gen-tie Stringing and Pulling | | | | | | | | | | 20 | 20 | 20 | 0 | | |
| Commissioning | | | | | | | | | | 0 | 6 | ö | 4 | 0 | 0 |
| GW Well Drilling Truck Trips | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentie Truck Trips | 0 | 0 | 40 | 0 | 0 | 0 | 0 | 30 | 30 | 50 | 50 | 20 | 0 | 0 | 0 |
| Water Tank Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 8 | 4 | 0 | 0 |
| Onsite Truck Trips | <u>a</u> Month 0 | Month 1 | Month 2 | SU Month 3 | Month 4 | SU Month 5 | SU Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Zo Month 11 | 4 Month 12 | Month 13 | Month 14 |
| GW Well Drilling/Testing/Equipment Install | 0 | 0 | | _ | | | | | | | | | | | |
| Site Preparation Grading | | 8 | 8 40 | 40 | 40 | | | | | | | | | | |
| Battery/Container Installation | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | | | | | |
| Gen-tie Site Preparation (Orchard Removal) Substation Installation | | | | | 2 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Gen-tie Foundations, Tower Erection, and Underground Installation | | | | | | | | 10 | 10 | 10 | 10 | | | | |
| Gen-tie Stringing and Pulling Fire Water Loop, 300K-gal Tankage, Fire pump (14 weeks) | | | | | | | | | | 10 4 | 10 4 | 10 4 | 2 | | |
| Commissioning | | | | | | | | | | | | | 20 | 20 | 20 |
| GW Well Drilling Truck Trips Bess Truck Trips | 0 0 | 0 | 0 48 | 0 50 | 0 50 | 0 10 | 0 10 | 0 10 | 0 10 | 0 10 | 0 | 0 | 0 20 | 0 20 | 0 20 |
| Gentie Truck Trips | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 10 | 10 | 20 | 20 | 10 | 0 | 0 | 0 |
| Water Tank Truck Trips | 0 0 | 0 8 | 0 48 | 0 50 | 0 52 | 0 10 | 0 10 | 0 20 | 0 20 | 4 34 | 4 24 | 4 14 | 2 22 | 0 20 | 0 20 |
| Import Fill Truck Trips | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| GW Well Drilling/Testing/Equipment Install | 0 | 0 | 0 | | | | | | | | | | | | |
| Grading | | 0 | 50 | 50 | 50 | | | | | | | | | | |
| Battery/Container Installation | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Substation Installation | | | | | U | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Gen-tie Foundations, Tower Erection, and Underground Installation | | | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| Fire Water Loop, 300K-gal Tankage, Fire pump (14 weeks) | | | | | | | | | | 0 | 0 | 0 | 0 | _ | |
| Commissioning GW Well Drilling Truck Trins | 0 | n | n | 0 | 0 | n | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bess Truck Trips | 0 | 0 | 50 | 50 | 50 | õ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentie Truck Trips Water Tank Truck Trins | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | <u>0</u> | <u>0</u> | 50 | 50 | 50 | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| Water Truck Trips | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| GW Well Drilling/Testing/Equipment Install Site Preparation | 0 | 0 | 0 | | | | | | | | | | | | |
| Grading | | | 16 | 16 | 16 | - | • | | - | | | | | | |
| Battery/Container Installation Gen-tie Site Preparation (Orchard Removal) | | | | 0 | 0 | U | U | U | 0 | 0 | | | | | |
| Substation Installation | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Gen-tie Foundations, Tower Erection, and Underground Installation Gen-tie Stringing and Pulling | | | | | | | | 16 | 16 | 16 0 | 16 0 | 0 | | | |
| Fire Water Loop, 300K-gal Tankage, Fire pump (14 weeks) | | | | | | | | | | 0 | 0 | 0 | 0 | | 2 |
| Commissioning GW Well Drilling Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bess Truck Trips | 0 | 0 | 16 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gentie Truck Trips Water Tank Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | <u>0</u> | <u>0</u> | <u>16</u> | <u>16</u> | <u>16</u> | <u>0</u> | <u>0</u> | <u>16</u> | <u>16</u> | <u>16</u> | <u>16</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| Hauling (biomass) Truck Trips | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 |
| Sive wear Drining/ resting/ equipment install Site Preparation | U | 0 | 0 | | | | | | | | | | | | |
| Grading Batten/Container Installation | | | 0 | 0 | 0 | 0 | 0 | .0 | 0 | 0 | | | | | |
| Gen-tie Site Preparation (Orchard Removal) | | | | 0 | 26 | U | U | U | 0 | 0 | | _ | | | |
| Substation Installation | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Gen-tie Stringing and Pulling | | | | | | | | J | 5 | 0 | 0 | 0 | | _ | |
| Fire Water Loop, 300K-gal Tankage, Fire pump (14 weeks) | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| GW Well Drilling Truck Trips | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bess Truck Trips | 0 | 0 | 0 | 0 | 0 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Water Tank Truck Trips | 0 | 0 | o | 0 | 0 | õ | õ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | õ |
| | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | # of one way | |
|--|-----------------------------------|-----------------|
| | # Of One-way trips/day (Corby) | Trin Longth |
| | trips/day (corby) | The Length |
| GW Well Drilling & Lesting | 0 | Defeult |
| worker | 8 | Default |
| | 2 | Default |
| Phase - GW Well Equipment Installation | 2 | |
| Worker | 8 | Default |
| Hauling | 1 | Default |
| Phase - Site Prep | 4.6 | |
| Worker | 16 | Default |
| Vendor | 8 | Default |
| Hauling | 20 | Default |
| Onsite Truck | 8 | 1.25 |
| Phase - Grading | | |
| Worker | 80 | Default |
| Vendor | 16 | Default |
| Hauling | 20 | Default |
| Onsite Truck | 40 | 1.25 |
| Import Fill Trips | 50 | 50 |
| Water Truck Trips | 16 | 7 |
| Phase - Battery/Container Install | | |
| Worker | 120 | Default |
| Vendor | 30 | Default |
| Hauling | 30 | Default |
| Onsite Truck | 10 | 1.25 |
| Gen-tie Site Preparation (Orchard Remo | val) | |
| Worker | 10 | Default |
| Vendor | 0 | Default |
| Hauling (biomass) | 26 | 50 |
| Onsite Truck | 2 | 1.25 |
| Phase - Substation Installation | | |
| Worker | 80 | Default |
| Vendor | 40 | Default |
| Hauling | 20 | Default |
| Onsite Truck | 0 | 1.25 |
| Phase - Gen-tie Foundations, Tower Ere | ction, and Undergrour | nd Installation |
| Worker | 80 | Default |
| Vendor | 16 | Default |
| Hauling | 30 | Default |
| Onsite Truck | 10 | 1.25 |
| Water Truck Trips | 16 | 7 |
| Phase - Gen-tie Stringing and Pulling | | |
| Worker | 80 | Default |
| Vendor | 16 | Default |
| Hauling | 20 | Default |
| Onsite Truck | 10 | 1 25 |
| Phase - Onsite Water Tank | 10 | 1.25 |
| Worker | 52 | Default |
| Vendor | Δ | Default |
| Hauling | 4 | Default |
| Onsite Truck | л | 1 25 |
| Phase - Commissioning | 4 | 1.23 |
| r nase - Commissioning | 150 | Default |
| Vonder | 10 | Default |
| Venuor | 40 | Default |
| naulilig | 0 | Default |
| Unsite Truck | 20 | 1.25 |

APPENDIX 3.17-B: INTERSECTION LOS WORKSHEETS

2.3

Intersection

Int Delay, s/veh

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | \$ | | | ÷ | | | \$ | | | \$ | |
| Traffic Vol, veh/h | 0 | 32 | 211 | 11 | 61 | 0 | 73 | 0 | 5 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 32 | 211 | 11 | 61 | 0 | 73 | 0 | 5 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 0 | 34 | 227 | 12 | 66 | 0 | 78 | 0 | 5 | 0 | 0 | 0 |

| Major/Minor | Major1 | | Ν | /lajor2 | | 1 | Minor1 | | Ν | linor2 | | | |
|----------------------|--------|---------|------|---------|-----|-------|--------|-------|------|--------|-----|------|--|
| Conflicting Flow All | 66 | 0 | 0 | 261 | 0 | 0 | 238 | 238 | 148 | 240 | 351 | 66 | |
| Stage 1 | - | - | - | - | - | - | 148 | 148 | - | 90 | 90 | - | |
| Stage 2 | - | - | - | - | - | - | 90 | 90 | - | 150 | 261 | - | |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | |
| Pot Cap-1 Maneuver | 1549 | - | - | 1315 | - | - | 721 | 666 | 904 | 718 | 577 | 1003 | |
| Stage 1 | - | - | - | - | - | - | 859 | 779 | - | 922 | 824 | - | |
| Stage 2 | - | - | - | - | - | - | 922 | 824 | - | 857 | 696 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1549 | - | - | 1315 | - | - | 716 | 660 | 904 | 709 | 572 | 1003 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 716 | 660 | - | 709 | 572 | - | |
| Stage 1 | - | - | - | - | - | - | 859 | 779 | - | 922 | 817 | - | |
| Stage 2 | - | - | - | - | - | - | 914 | 817 | - | 852 | 696 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0 | | | 1.2 | | | 10.6 | | | 0 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt I | VBLn1 | EBL | EBT | EBR | WBL | WBT | WBR S | BLn1 | | | | |
| Capacity (veh/h) | | 726 | 1549 | - | - | 1315 | - | - | - | | | | |
| HCM Lana V//C Patia | | 0 1 1 6 | | | | 0 000 | | | | | | | |

| HCIVI Lane V/C Ratio | 0.116 | - | - | - 0.0 | 09 | - | - | - | |
|-----------------------|-------|---|---|-------|-----|---|---|---|--|
| HCM Control Delay (s) | 10.6 | 0 | - | - 7 | 7.8 | 0 | - | 0 | |
| HCM Lane LOS | В | А | - | - | А | А | - | А | |
| HCM 95th %tile Q(veh) | 0.4 | 0 | - | - | 0 | - | - | - | |

| Int Delay, s/veh | 1 | | | | | | |
|------------------------|-------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | Y | | | ÷. | ef 👘 | | |
| Traffic Vol, veh/h | 21 | 3 | 7 | 57 | 159 | 63 | |
| Future Vol, veh/h | 21 | 3 | 7 | 57 | 159 | 63 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | , # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 3 | 0 | 0 | |
| Mvmt Flow | 24 | 3 | 8 | 66 | 183 | 72 | |

| Major/Minor | Minor2 | Ν | Major1 | Maj | or2 | |
|----------------------|--------|-----|--------|-----|-----|---|
| Conflicting Flow All | 301 | 219 | 255 | 0 | - | 0 |
| Stage 1 | 219 | - | - | - | - | - |
| Stage 2 | 82 | - | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 695 | 826 | 1322 | - | - | - |
| Stage 1 | 822 | - | - | - | - | - |
| Stage 2 | 946 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | r 691 | 826 | 1322 | - | - | - |
| Mov Cap-2 Maneuver | r 691 | - | - | - | - | - |
| Stage 1 | 817 | - | - | - | - | - |
| Stage 2 | 946 | - | - | - | - | - |
| | | | | | | |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 10.3 | 0.8 | 0 |
| HCM LOS | В | | |

| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |
|-----------------------|-------|-----------|-----|-----|
| Capacity (veh/h) | 1322 | - 705 | - | - |
| HCM Lane V/C Ratio | 0.006 | - 0.039 | - | - |
| HCM Control Delay (s) | 7.7 | 0 10.3 | - | - |
| HCM Lane LOS | А | A B | - | - |
| HCM 95th %tile Q(veh) | 0 | - 0.1 | - | - |

| Int Delay, s/veh | 0.4 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | Y | | | ÷. | et 👘 | | |
| Traffic Vol, veh/h | 6 | 0 | 3 | 58 | 134 | 28 | |
| Future Vol, veh/h | 6 | 0 | 3 | 58 | 134 | 28 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | ,#0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 7 | 0 | 3 | 63 | 146 | 30 | |

| Major/Minor | Minor2 | I | Major1 | Ma | jor2 | |
|----------------------|--------|-------|--------|----|------|---|
| Conflicting Flow All | 230 | 161 | 176 | 0 | - | 0 |
| Stage 1 | 161 | - | - | - | - | - |
| Stage 2 | 69 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |
| Pot Cap-1 Maneuver | 758 | 884 | 1400 | - | - | - |
| Stage 1 | 868 | - | - | - | - | - |
| Stage 2 | 954 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 756 | 884 | 1400 | - | - | - |
| Mov Cap-2 Maneuver | 756 | - | - | - | - | - |
| Stage 1 | 866 | - | - | - | - | - |
| Stage 2 | 954 | - | - | - | - | - |
| | | | | | | |
| Annroach | FR | | NR | | SB | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.8 | 0.4 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR | |
|-----------------------|-------|-----|-------|-----|-----|--|
| Capacity (veh/h) | 1400 | - | 756 | - | - | |
| HCM Lane V/C Ratio | 0.002 | - | 0.009 | - | - | |
| HCM Control Delay (s) | 7.6 | 0 | 9.8 | - | - | |
| HCM Lane LOS | А | А | А | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Int Delay, s/veh | 0.5 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | Y | | | ÷ | et | | |
| Traffic Vol, veh/h | 7 | 1 | 3 | 54 | 101 | 33 | |
| Future Vol, veh/h | 7 | 1 | 3 | 54 | 101 | 33 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage, | # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 8 | 1 | 3 | 59 | 110 | 36 | |

| Major/Minor | Minor2 | I | Major1 | Ma | ajor2 | |
|----------------------|--------|-------|--------|----|-------|---|
| Conflicting Flow All | 193 | 128 | 146 | 0 | - | 0 |
| Stage 1 | 128 | - | - | - | - | - |
| Stage 2 | 65 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |
| Pot Cap-1 Maneuver | 796 | 922 | 1436 | - | - | - |
| Stage 1 | 898 | - | - | - | - | - |
| Stage 2 | 958 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 794 | 922 | 1436 | - | - | - |
| Mov Cap-2 Maneuver | 794 | - | - | - | - | - |
| Stage 1 | 896 | - | - | - | - | - |
| Stage 2 | 958 | - | - | - | - | - |
| | | | | | | |
| Approach | ED | | ND | | СD | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.5 | 0.4 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR |
|-----------------------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1436 | - | 808 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | 0.011 | - | - |
| HCM Control Delay (s) | 7.5 | 0 | 9.5 | - | - |
| HCM Lane LOS | А | А | Α | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

| Int Delay, s/veh | 1.7 | | | | | | |
|------------------------|-------|--------------|------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | | ب | et - | | Y | | |
| Traffic Vol, veh/h | 0 | 6 | 16 | 54 | 18 | 0 | |
| Future Vol, veh/h | 0 | 6 | 16 | 54 | 18 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | , # - | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 0 | 7 | 17 | 59 | 20 | 0 | |

| Major/Minor | Major1 | Ν | lajor2 | I | Minor2 | |
|------------------------|----------|------|--------|------|--------|----------|
| Conflicting Flow All | 76 | 0 | - | 0 | 54 | 47 |
| Stage 1 | - | - | - | - | 47 | - |
| Stage 2 | - | - | - | - | 7 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1523 | - | - | - | 954 | 1022 |
| Stage 1 | - | - | - | - | 975 | - |
| Stage 2 | - | - | - | - | 1016 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1523 | - | - | - | 954 | 1022 |
| Mov Cap-2 Maneuver | - | - | - | - | 954 | - |
| Stage 1 | - | - | - | - | 975 | - |
| Stage 2 | - | - | - | - | 1016 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 0 | | 0 | | 8.9 | |
| HCM LOS | | | | | А | |
| | | | | | | |
| Minor Long/Major Myr | nt. | EDI | EDT | | | |
| | III | 4502 | CDI | VVDI | VDR . | |
| Capacity (ven/n) | | 1523 | - | - | - | 954 |
| HCIVI Lane V/C Ratio | ` | - | - | - | - | 0.021 |
| HCIVI Control Delay (s |) | 0 | - | - | - | 8.9 |
| HOW Lane LUS | | A | - | - | - | A 0 4 |
| HOW 95th %tile Q(Ver | 1) | U | - | - | - | 0.1 |

| Int Delay, s/veh | 0.6 | | | | | | | |
|------------------------|------|------|------|------|---------|------|--|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | | |
| Lane Configurations | Y | | | ŧ | et F | | | |
| Traffic Vol, veh/h | 7 | 1 | 3 | 50 | 69 | 33 | | |
| Future Vol, veh/h | 7 | 1 | 3 | 50 | 69 | 33 | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | |
| RT Channelized | - | None | - | None | - | None | | |
| Storage Length | 0 | - | - | - | - | - | | |
| Veh in Median Storage | ,#0 | - | - | 0 | 0 | - | | |
| Grade, % | 0 | - | - | 0 | 0 | - | | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Mvmt Flow | 8 | 1 | 3 | 54 | 75 | 36 | | |

| Major/Minor | Minor2 | I | Major1 | Maj | or2 | | |
|----------------------|--------|-------|--------|-----|-----|---|--|
| Conflicting Flow All | 153 | 93 | 111 | 0 | - | 0 | |
| Stage 1 | 93 | - | - | - | - | - | |
| Stage 2 | 60 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 839 | 964 | 1479 | - | - | - | |
| Stage 1 | 931 | - | - | - | - | - | |
| Stage 2 | 963 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 837 | 964 | 1479 | - | - | - | |
| Mov Cap-2 Maneuver | 837 | - | - | - | - | - | |
| Stage 1 | 929 | - | - | - | - | - | |
| Stage 2 | 963 | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.3 | 0.4 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR |
|-----------------------|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1479 | - | 851 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | 0.01 | - | - |
| HCM Control Delay (s) | 7.4 | 0 | 9.3 | - | - |
| HCM Lane LOS | А | Α | А | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

| Int Delay, s/veh | 5.9 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | 1 | | | 1 | | • | |
| Traffic Vol, veh/h | 71 | 0 | 0 | 114 | 0 | 38 | |
| Future Vol, veh/h | 71 | 0 | 0 | 114 | 0 | 38 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | 0 | - | - | |
| Veh in Median Storage, | # 0 | - | 0 | - | - | 0 | |
| Grade, % | 0 | - | 0 | - | - | 0 | |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 | |
| Heavy Vehicles, % | 0 | 2 | 2 | 0 | 2 | 0 | |
| Mvmt Flow | 74 | 0 | 0 | 119 | 0 | 40 | |

| Major/Minor | Minor1 | | Major2 | | |
|----------------------|--------|---|--------|---|--|
| Conflicting Flow All | 40 | - | - | - | |
| Stage 1 | 0 | - | - | - | |
| Stage 2 | 40 | - | - | - | |
| Critical Hdwy | 6.4 | - | - | - | |
| Critical Hdwy Stg 1 | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | |
| Follow-up Hdwy | 3.5 | - | - | - | |
| Pot Cap-1 Maneuver | 977 | 0 | 0 | - | |
| Stage 1 | - | 0 | 0 | - | |
| Stage 2 | 988 | 0 | 0 | - | |
| Platoon blocked, % | | | | - | |
| Mov Cap-1 Maneuver | · 977 | - | - | - | |
| Mov Cap-2 Maneuver | · 977 | - | - | - | |
| Stage 1 | - | - | - | - | |
| Stage 2 | 988 | - | - | - | |
| | | | | | |
| | 14/5 | | | | |

| Approach | WB | SB | |
|----------------------|----|----|--|
| HCM Control Delay, s | 9 | 0 | |
| HCM LOS | А | | |

| Minor Lane/Major Mvmt | WBLn1 | SBT |
|-----------------------|-------|-----|
| Capacity (veh/h) | 977 | - |
| HCM Lane V/C Ratio | 0.076 | - |
| HCM Control Delay (s) | 9 | - |
| HCM Lane LOS | А | - |
| HCM 95th %tile Q(veh) | 0.2 | - |

| Int Delay, s/veh | 5.6 | | | | | | |
|------------------------|----------|------|------|------|------|------|--|
| Movement | EBT | EBR | WBL | WBT | NBL | NBR | |
| Lane Configurations | ↑ | | | - सी | ۰¥ | | |
| Traffic Vol, veh/h | 44 | 0 | 71 | 49 | 4 | 110 | |
| Future Vol, veh/h | 44 | 0 | 71 | 49 | 4 | 110 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | , # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mvmt Flow | 46 | 0 | 74 | 51 | 4 | 115 | |

| Major/Minor | Majo | r1 | Ν | Aajor2 | 1 | Minor1 | |
|----------------------|----------|----|------|--------|-------|--------|------|
| Conflicting Flow All | | 0 | - | 46 | 0 | 245 | 46 |
| Stage 1 | | - | - | - | - | 46 | - |
| Stage 2 | | - | - | - | - | 199 | - |
| Critical Hdwy | | - | - | 4.1 | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | | - | - | 2.2 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | | - | 0 | 1575 | - | 748 | 1029 |
| Stage 1 | | - | 0 | - | - | 982 | - |
| Stage 2 | | - | 0 | - | - | 839 | - |
| Platoon blocked, % | | - | | | - | | |
| Mov Cap-1 Maneuver | - | - | - | 1575 | - | 712 | 1029 |
| Mov Cap-2 Maneuver | • | - | - | - | - | 712 | - |
| Stage 1 | | - | - | - | - | 982 | - |
| Stage 2 | | - | - | - | - | 799 | - |
| | | | | | | | |
| Annroach | F | R | | WR | | NR | |
| HCM Control Delay | <u> </u> | 0 | | | | 0 | |
| HCM LOS |) | 0 | | 4.4 | | 9 ^ | |
| | | | | | | A | |
| | | | | | | | |
| Minor Lane/Major Mv | mt | NE | 3Ln1 | EBT | WBL | WBT | |
| Capacity (veh/h) | | | 1013 | - | 1575 | - | |
| HCM Lane V/C Ratio | | 0 | .117 | - | 0.047 | - | |
| HCM Control Delay (s | 5) | | 9 | - | 7.4 | 0 | |
| HCM Lane LOS | | | Α | - | А | А | |
| HCM 95th %tile Q(vel | h) | | 0.4 | - | 0.1 | - | |

Int Delay s/yeh

| Int Delay, s/veh | 2.4 | | | | | | |
|------------------------|----------|------|------|------|------|------|---|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | <u>۲</u> | | | ↑ | | 1 | |
| Traffic Vol, veh/h | 31 | 0 | 0 | 89 | 0 | 154 | |
| Future Vol, veh/h | 31 | 0 | 0 | 89 | 0 | 154 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | I |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | ! |
| Storage Length | 0 | - | - | - | - | 0 | |
| Veh in Median Storage | , # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 | I |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mvmt Flow | 35 | 0 | 0 | 100 | 0 | 173 | |

| Major/Minor | Minor2 | N | lajor1 | |
|----------------------|--------|-------|--------|---|
| Conflicting Flow All | 100 | - | - | 0 |
| Stage 1 | 0 | - | - | - |
| Stage 2 | 100 | - | - | - |
| Critical Hdwy | 6.4 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - |
| Follow-up Hdwy | 3.5 | - | - | - |
| Pot Cap-1 Maneuver | 904 | 0 | 0 | - |
| Stage 1 | - | 0 | 0 | - |
| Stage 2 | 929 | 0 | 0 | - |
| Platoon blocked, % | | | | - |
| Mov Cap-1 Maneuver | 904 | - | - | - |
| Mov Cap-2 Maneuver | 904 | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | 929 | - | - | - |
| | | | | |
| Annroach | FR | | NR | |
| HCM Control Delay | 20 | | 0 | |
| HCM LOS | Δ | | U | |
| | Π | | | |
| | | | | |
| Minor Lane/Major Mv | mt | NBT E | BLn1 | |
| Capacity (veh/h) | | - | 904 | |
| HCM Lane V/C Ratio | | - | 0.039 | |
| HCM Control Delay (s | 6) | - | 9.1 | |
| HCM Lane LOS | | - | Α | |
| HCM 95th %tile Q(vel | h) | - | 0.1 | |
| Int Delay, s/veh | 6.1 | | | | | | |
|------------------------|-------|------|------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | | ÷ | • | | Y | | |
| Traffic Vol, veh/h | 31 | 91 | 45 | 0 | 152 | 2 | |
| Future Vol, veh/h | 31 | 91 | 45 | 0 | 152 | 2 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | , # - | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mvmt Flow | 35 | 102 | 51 | 0 | 171 | 2 | |

| Major/Minor | Major1 | Ν | /lajor2 | Ν | /linor2 | | |
|----------------------|--------|-------|---------|-------|---------|------|--|
| Conflicting Flow All | 51 | 0 | - | 0 | 223 | 51 | |
| Stage 1 | - | - | - | - | 51 | - | |
| Stage 2 | - | - | - | - | 172 | - | |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 | |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - | |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 | |
| Pot Cap-1 Maneuver | 1568 | - | - | 0 | 770 | 1023 | |
| Stage 1 | - | - | - | 0 | 977 | - | |
| Stage 2 | - | - | - | 0 | 863 | - | |
| Platoon blocked, % | | - | - | | | | |
| Mov Cap-1 Maneuver | r 1568 | - | - | - | 752 | 1023 | |
| Mov Cap-2 Maneuver | r - | - | - | - | 752 | - | |
| Stage 1 | - | - | - | - | 954 | - | |
| Stage 2 | - | - | - | - | 863 | - | |
| | | | | | | | |
| Approach | EB | | WB | | SB | | |
| HCM Control Delay, s | s 1.9 | | 0 | | 11.2 | | |
| HCM LOS | | | | | В | | |
| | | | | | | | |
| Minor Lane/Major Mv | mt | EBL | EBT | WBT S | BLn1 | | |
| Capacity (veh/h) | | 1568 | - | - | 755 | | |
| HCM Lane V/C Ratio | | 0.022 | - | - | 0.229 | | |
| HCM Control Delay (s | s) | 7.3 | 0 | - | 11.2 | | |
| HCM Lane LOS | | A | Α | - | В | | |
| HCM 95th %tile Q(ve | h) | 0.1 | - | - | 0.9 | | |

8.1

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | \$ | | | \$ | | | \$ | | | \$ | |
| Traffic Vol, veh/h | 0 | 91 | 53 | 9 | 30 | 0 | 234 | 0 | 58 | 0 | 0 | 0 |
| Future Vol, veh/h | 0 | 91 | 53 | 9 | 30 | 0 | 234 | 0 | 58 | 0 | 0 | 0 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 0 | 4 | 0 | 0 | 13 | 0 | 3 | 0 | 2 | 0 | 0 | 100 |
| Mvmt Flow | 0 | 105 | 61 | 10 | 34 | 0 | 269 | 0 | 67 | 0 | 0 | 0 |

| Major/Minor | Major1 | | Ν | /lajor2 | | | Minor1 | | Ν | /linor2 | | | |
|----------------------|--------|-------|------|---------|-----|------|--------|-----|-------|---------|-----|-----|--|
| Conflicting Flow All | 34 | 0 | 0 | 166 | 0 | 0 | 190 | 190 | 136 | 223 | 220 | 34 | |
| Stage 1 | - | - | - | - | - | - | 136 | 136 | - | 54 | 54 | - | |
| Stage 2 | - | - | - | - | - | - | 54 | 54 | - | 169 | 166 | - | |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.13 | 6.5 | 6.22 | 7.1 | 6.5 | 7.2 | |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.13 | 5.5 | - | 6.1 | 5.5 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.13 | 5.5 | - | 6.1 | 5.5 | - | |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.527 | 4 | 3.318 | 3.5 | 4 | 4.2 | |
| Pot Cap-1 Maneuver | 1591 | - | - | 1424 | - | - | 768 | 708 | 913 | 737 | 682 | 817 | |
| Stage 1 | - | - | - | - | - | - | 865 | 788 | - | 963 | 854 | - | |
| Stage 2 | - | - | - | - | - | - | 956 | 854 | - | 838 | 765 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1591 | - | - | 1424 | - | - | 764 | 703 | 913 | 680 | 677 | 817 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 764 | 703 | - | 680 | 677 | - | |
| Stage 1 | - | - | - | - | - | - | 865 | 788 | - | 963 | 848 | - | |
| Stage 2 | - | - | - | - | - | - | 949 | 848 | - | 777 | 765 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0 | | | 1.7 | | | 12.9 | | | 0 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt N | IBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | | 790 | 1591 | - | - | 1424 | - | - | - | | | | |

| HCM Lane V/C Ratio | 0.425 | - | - | - 0.007 | - | - | - | |
|-----------------------|-------|---|---|---------|---|---|---|--|
| HCM Control Delay (s) | 12.9 | 0 | - | - 7.5 | 0 | - | 0 | |
| HCM Lane LOS | В | А | - | - A | А | - | А | |
| HCM 95th %tile Q(veh) | 2.1 | 0 | - | - 0 | - | - | - | |

| Int Delay, s/veh | 3.6 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | ۰¥ | | | ्र | 4 | | |
| Traffic Vol, veh/h | 104 | 9 | 4 | 188 | 39 | 23 | |
| Future Vol, veh/h | 104 | 9 | 4 | 188 | 39 | 23 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | ,#0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 | |
| Heavy Vehicles, % | 2 | 25 | 0 | 3 | 0 | 0 | |
| Mvmt Flow | 127 | 11 | 5 | 229 | 48 | 28 | |

| Major/Minor | Minor2 | I | Major1 | Maj | jor2 | | |
|----------------------|--------|-------|--------|-----|------|---|--|
| Conflicting Flow All | 301 | 62 | 76 | 0 | - | 0 | |
| Stage 1 | 62 | - | - | - | - | - | |
| Stage 2 | 239 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.45 | 4.1 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.525 | 2.2 | - | - | - | |
| Pot Cap-1 Maneuver | 691 | 942 | 1536 | - | - | - | |
| Stage 1 | 961 | - | - | - | - | - | |
| Stage 2 | 801 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 688 | 942 | 1536 | - | - | - | |
| Mov Cap-2 Maneuver | - 688 | - | - | - | - | - | |
| Stage 1 | 957 | - | - | - | - | - | |
| Stage 2 | 801 | - | - | - | - | - | |
| | | | | | | | |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 11.4 | 0.2 | 0 |
| HCM LOS | В | | |

| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |
|-----------------------|-------|-----------|-----|-----|
| Capacity (veh/h) | 1536 | - 703 | - | - |
| HCM Lane V/C Ratio | 0.003 | - 0.196 | - | - |
| HCM Control Delay (s) | 7.4 | 0 11.4 | - | - |
| HCM Lane LOS | А | A B | - | - |
| HCM 95th %tile Q(veh) | 0 | - 0.7 | - | - |

| Int Delay, s/veh | 1.3 | | | | | | | | | |
|------------------------|--------|------|------|------|------|------|--|--|--|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | | | | |
| Lane Configurations | ۰¥ | | | ्र | 4 | | | | | |
| Traffic Vol, veh/h | 28 | 3 | 0 | 164 | 42 | 6 | | | | |
| Future Vol, veh/h | 28 | 3 | 0 | 164 | 42 | 6 | | | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | | | |
| RT Channelized | - | None | - | None | - | None | | | | |
| Storage Length | 0 | - | - | - | - | - | | | | |
| Veh in Median Storage | e, # 0 | - | - | 0 | 0 | - | | | | |
| Grade, % | 0 | - | - | 0 | 0 | - | | | | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | | | | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| Mvmt Flow | 30 | 3 | 0 | 178 | 46 | 7 | | | | |

| Major/Minor | Minor2 | I | Major1 | Maj | jor2 | | |
|----------------------|--------|-------|--------|-----|------|---|--|
| Conflicting Flow All | 228 | 50 | 53 | 0 | - | 0 | |
| Stage 1 | 50 | - | - | - | - | - | |
| Stage 2 | 178 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 760 | 1018 | 1553 | - | - | - | |
| Stage 1 | 972 | - | - | - | - | - | |
| Stage 2 | 853 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 760 | 1018 | 1553 | - | - | - | |
| Mov Cap-2 Maneuver | 760 | - | - | - | - | - | |
| Stage 1 | 972 | - | - | - | - | - | |
| Stage 2 | 853 | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |

| Approach | EB | NB | SB | |
|----------------------|-----|----|----|--|
| HCM Control Delay, s | 9.8 | 0 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | :BLn1 | SBT | SBR |
|-----------------------|------|-------|-------|-----|-----|
| Capacity (veh/h) | 1553 | - | 779 | - | - |
| HCM Lane V/C Ratio | - | - | 0.043 | - | - |
| HCM Control Delay (s) | 0 | - | 9.8 | - | - |
| HCM Lane LOS | А | - | Α | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

| Int Delay, s/veh | 1.7 | | | | | | |
|------------------------|-------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | ۰¥ | | | - सी | 4 | | |
| Traffic Vol, veh/h | 33 | 3 | 1 | 131 | 38 | 7 | |
| Future Vol, veh/h | 33 | 3 | 1 | 131 | 38 | 7 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | , # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 36 | 3 | 1 | 142 | 41 | 8 | |

| Major/Minor | Minor2 | | Major1 | Maj | or2 | | |
|----------------------|--------|-------|--------|-----|-----|---|--|
| Conflicting Flow All | 189 | 45 | 49 | 0 | - | 0 | |
| Stage 1 | 45 | - | - | - | - | - | |
| Stage 2 | 144 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 800 | 1025 | 1558 | - | - | - | |
| Stage 1 | 977 | - | - | - | - | - | |
| Stage 2 | 883 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 799 | 1025 | 1558 | - | - | - | |
| Mov Cap-2 Maneuver | 799 | - | - | - | - | - | |
| Stage 1 | 976 | - | - | - | - | - | |
| Stage 2 | 883 | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.6 | 0.1 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR |
|-----------------------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1558 | - | 814 | - | - |
| HCM Lane V/C Ratio | 0.001 | - | 0.048 | - | - |
| HCM Control Delay (s) | 7.3 | 0 | 9.6 | - | - |
| HCM Lane LOS | А | Α | Α | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

| Int Delay, s/veh | 3.5 | | | | | | |
|------------------------|-------|------|------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | | ्र | 4 | | - ¥ | | |
| Traffic Vol, veh/h | 0 | 59 | 9 | 18 | 54 | 0 | |
| Future Vol, veh/h | 0 | 59 | 9 | 18 | 54 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | , # - | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 0 | 64 | 10 | 20 | 59 | 0 | |

| Major/Minor | Major1 | Ν | /lajor2 | | Minor2 | |
|----------------------|--------|------|---------|-----|--------|-------|
| Conflicting Flow All | 30 | 0 | - | 0 | 84 | 20 |
| Stage 1 | - | - | - | - | 20 | - |
| Stage 2 | - | - | - | - | 64 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1583 | - | - | - | 918 | 1058 |
| Stage 1 | - | - | - | - | 1003 | - |
| Stage 2 | - | - | - | - | 959 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1583 | - | - | - | 918 | 1058 |
| Mov Cap-2 Maneuver | - | - | - | - | 918 | - |
| Stage 1 | - | - | - | - | 1003 | - |
| Stage 2 | - | - | - | - | 959 | - |
| | | | | | | |
| Approach | FB | | WB | | SB | |
| HCM Control Delay s | 0 | | 0 | | 9.2 | |
| HCM LOS | Ū | | U | | Δ | |
| | | | | | | |
| | | | | | | |
| Minor Lane/Major Mvr | nt | EBL | EBT | WBT | WBR | SBLn1 |
| Capacity (veh/h) | | 1583 | - | - | - | 918 |
| HCM Lane V/C Ratio | | - | - | - | - | 0.064 |
| HCM Control Delay (s | ;) | 0 | - | - | - | 9.2 |
| HCM Lane LOS | | Α | - | - | - | Α |
| HCM 95th %tile Q(veh | ו) | 0 | - | - | - | 0.2 |

| Int Delay, s/veh | 2 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | - M | | | ्रभ | ef 👘 | | |
| Traffic Vol, veh/h | 33 | 3 | 1 | 99 | 34 | 7 | |
| Future Vol, veh/h | 33 | 3 | 1 | 99 | 34 | 7 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage, | # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 36 | 3 | 1 | 108 | 37 | 8 | |

| Major/Minor | Minor2 | | Major1 | Ма | ajor2 | | |
|----------------------|--------|-------|--------|----|-----------|---|--|
| Conflicting Flow All | 151 | 41 | 45 | 0 | - | 0 | |
| Stage 1 | 41 | - | - | - | - | - | |
| Stage 2 | 110 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 841 | 1030 | 1563 | - | - | - | |
| Stage 1 | 981 | - | - | - | - | - | |
| Stage 2 | 915 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 840 | 1030 | 1563 | - | - | - | |
| Mov Cap-2 Maneuver | 840 | - | - | - | - | - | |
| Stage 1 | 980 | - | - | - | - | - | |
| Stage 2 | 915 | - | - | - | - | - | |
| | | | | | | | |
| Annraach | ГР | | ND | | <u>OD</u> | | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.4 | 0.1 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR |
|-----------------------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1563 | - | 853 | - | - |
| HCM Lane V/C Ratio | 0.001 | - (| 0.046 | - | - |
| HCM Control Delay (s) | 7.3 | 0 | 9.4 | - | - |
| HCM Lane LOS | А | А | А | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

| Int Delay, s/veh | 8 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | 1 | | | 1 | | • | |
| Traffic Vol, veh/h | 101 | 0 | 0 | 34 | 0 | 16 | |
| Future Vol, veh/h | 101 | 0 | 0 | 34 | 0 | 16 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | 0 | - | - | |
| Veh in Median Storage, | # 0 | - | 0 | - | - | 0 | |
| Grade, % | 0 | - | 0 | - | - | 0 | |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | |
| Heavy Vehicles, % | 19 | 2 | 2 | 0 | 2 | 19 | |
| Mvmt Flow | 112 | 0 | 0 | 38 | 0 | 18 | |

| Major/Minor | Minor1 | | Major2 | | |
|----------------------|--------|---|--------|---|--|
| Conflicting Flow All | 18 | - | - | - | |
| Stage 1 | 0 | - | - | - | |
| Stage 2 | 18 | - | - | - | |
| Critical Hdwy | 6.59 | - | - | - | |
| Critical Hdwy Stg 1 | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.59 | - | - | - | |
| Follow-up Hdwy | 3.671 | - | - | - | |
| Pot Cap-1 Maneuver | 958 | 0 | 0 | - | |
| Stage 1 | - | 0 | 0 | - | |
| Stage 2 | 962 | 0 | 0 | - | |
| Platoon blocked, % | | | | - | |
| Mov Cap-1 Maneuver | 958 | - | - | - | |
| Mov Cap-2 Maneuver | 958 | - | - | - | |
| Stage 1 | - | - | - | - | |
| Stage 2 | 962 | - | - | - | |
| | | | | | |

| Approach | WB | SB | |
|----------------------|-----|----|--|
| HCM Control Delay, s | 9.3 | 0 | |
| HCM LOS | А | | |

| Minor Lane/Major Mvmt | WBLn1 | SBT |
|-----------------------|-------|-----|
| Capacity (veh/h) | 958 | - |
| HCM Lane V/C Ratio | 0.117 | - |
| HCM Control Delay (s) | 9.3 | - |
| HCM Lane LOS | А | - |
| HCM 95th %tile Q(veh) | 0.4 | - |

| Int Delay, s/veh | 4.8 | | | | | | |
|------------------------|----------|------|------|------|------|------|--|
| Movement | EBT | EBR | WBL | WBT | NBL | NBR | |
| Lane Configurations | ↑ | | | ्र | - ¥ | | |
| Traffic Vol, veh/h | 24 | 0 | 101 | 63 | 2 | 32 | |
| Future Vol, veh/h | 24 | 0 | 101 | 63 | 2 | 32 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | ,# 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | |
| Heavy Vehicles, % | 2 | 2 | 19 | 10 | 0 | 0 | |
| Mvmt Flow | 27 | 0 | 112 | 70 | 2 | 36 | |

| Major/Minor | Major1 | | Major2 | 1 | Minor1 | |
|----------------------|--------|-------|--------|-------|---|------|
| Conflicting Flow All | 0 | - | 27 | 0 | 321 | 27 |
| Stage 1 | - | - | - | - | 27 | - |
| Stage 2 | - | - | - | - | 294 | - |
| Critical Hdwy | - | - | 4.29 | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | - | - | 2.371 | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | - | 0 | 1483 | - | 677 | 1054 |
| Stage 1 | - | 0 | - | - | 1001 | - |
| Stage 2 | - | 0 | - | - | 761 | - |
| Platoon blocked, % | - | | | - | | |
| Mov Cap-1 Maneuver | - | - | 1483 | - | 624 | 1054 |
| Mov Cap-2 Maneuver | - | - | - | - | 624 | - |
| Stage 1 | - | - | - | - | 1001 | - |
| Stage 2 | - | - | - | - | 701 | - |
| | | | | | | |
| Approach | FB | | WB | | NB | |
| HCM Control Delay s | 0 | | 47 | | 87 | |
| HCM LOS | U | | т.1 | | Δ | |
| | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | |
| | | | | | | |
| Minor Lane/Major Mvn | nt | NBLn1 | EBT | WBL | WBT | |
| Capacity (veh/h) | | 1013 | - | 1483 | - | |
| HCM Lane V/C Ratio | | 0.037 | - | 0.076 | - | |
| HCM Control Delay (s |) | 8.7 | - | 7.6 | 0 | |
| HCM Lane LOS | | A | - | Α | А | |
| HCM 95th %tile Q(veh | 1) | 0.1 | - | 0.2 | - | |

| Int Delay, s/veh | 1.9 | | | | | | |
|------------------------|----------|------|------|----------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | <u>۲</u> | | | ↑ | | 1 | |
| Traffic Vol, veh/h | 33 | 0 | 0 | 131 | 0 | 56 | |
| Future Vol, veh/h | 33 | 0 | 0 | 131 | 0 | 56 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | 0 | |
| Veh in Median Storage | ,# 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | |
| Heavy Vehicles, % | 12 | 2 | 2 | 9 | 2 | 7 | |
| Mvmt Flow | 37 | 0 | 0 | 146 | 0 | 62 | |

| Major/Minor | Minor2 | Μ | ajor1 | |
|----------------------|--------|-------|--------------|---|
| Conflicting Flow All | 146 | - | - | 0 |
| Stage 1 | 0 | - | - | - |
| Stage 2 | 146 | - | - | - |
| Critical Hdwy | 6.52 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.52 | - | - | - |
| Follow-up Hdwy | 3.608 | - | - | - |
| Pot Cap-1 Maneuver | 823 | 0 | 0 | - |
| Stage 1 | - | 0 | 0 | - |
| Stage 2 | 857 | 0 | 0 | - |
| Platoon blocked, % | | | | - |
| Mov Cap-1 Maneuver | 823 | - | - | - |
| Mov Cap-2 Maneuver | 823 | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | 857 | - | - | - |
| | | | | |
| Approach | FB | | NB | |
| HCM Control Delay | 9.6 | | 0 | |
| HCM LOS | Α | | Ū | |
| | | | | |
| | | | D 1 (| |
| Minor Lane/Major Mvi | mt | NBT E | BLn1 | |
| Capacity (veh/h) | | - | 823 | |
| HCM Lane V/C Ratio | | - (| 0.045 | |
| HCM Control Delay (s | s) | - | 9.6 | |
| HCM Lane LOS | | - | Α | |
| HCM 95th %tile Q(vel | h) | - | 0.1 | |

| Int Delay, s/veh | 2.4 | | | | | | |
|------------------------|-------|------|----------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | | ्र | ↑ | | - Y | | |
| Traffic Vol, veh/h | 33 | 122 | 133 | 0 | 22 | 34 | |
| Future Vol, veh/h | 33 | 122 | 133 | 0 | 22 | 34 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | , # - | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | |
| Heavy Vehicles, % | 12 | 6 | 6 | 2 | 0 | 7 | |
| Mvmt Flow | 37 | 136 | 148 | 0 | 24 | 38 | |

| Major/Minor | Major1 | Ν | Aajor2 | Ν | /linor2 | | |
|----------------------|--------|-------|--------|-------|---------|-------|--|
| Conflicting Flow All | 148 | 0 | - | 0 | 358 | 148 | |
| Stage 1 | - | - | - | - | 148 | - | |
| Stage 2 | - | - | - | - | 210 | - | |
| Critical Hdwy | 4.22 | - | - | - | 6.4 | 6.27 | |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - | |
| Follow-up Hdwy | 2.308 | - | - | - | 3.5 | 3.363 | |
| Pot Cap-1 Maneuver | 1375 | - | - | 0 | 644 | 886 | |
| Stage 1 | - | - | - | 0 | 884 | - | |
| Stage 2 | - | - | - | 0 | 830 | - | |
| Platoon blocked, % | | - | - | | | | |
| Mov Cap-1 Maneuver | 1375 | - | - | - | 625 | 886 | |
| Mov Cap-2 Maneuver | · - | - | - | - | 625 | - | |
| Stage 1 | - | - | - | - | 858 | - | |
| Stage 2 | - | - | - | - | 830 | - | |
| | | | | | | | |
| Approach | EB | | WB | | SB | | |
| HCM Control Delay, s | 5 1.6 | | 0 | | 10.2 | | |
| HCM LOS | | | | | В | | |
| | | | | | | | |
| Minor Lane/Major Mvi | mt | EBL | EBT | WBT S | BLn1 | | |
| Capacity (veh/h) | | 1375 | - | - | 761 | | |
| HCM Lane V/C Ratio | | 0.027 | - | - | 0.082 | | |
| HCM Control Delay (s | 6) | 7.7 | 0 | - | 10.2 | | |
| HCM Lane LOS | | А | А | - | В | | |
| HCM 95th %tile Q(vel | h) | 0.1 | - | - | 0.3 | | |

3

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | \$ | | | \$ | | | \$ | | | \$ | |
| Traffic Vol, veh/h | 19 | 32 | 211 | 11 | 61 | 0 | 73 | 2 | 5 | 0 | 2 | 19 |
| Future Vol, veh/h | 19 | 32 | 211 | 11 | 61 | 0 | 73 | 2 | 5 | 0 | 2 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, | # - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mvmt Flow | 20 | 34 | 227 | 12 | 66 | 0 | 78 | 2 | 5 | 0 | 2 | 20 |

| Major/Minor | Major1 | | Ν | /lajor2 | | ľ | Minor1 | | Ν | linor2 | | | |
|----------------------|--------|------|-------|---------|-----|-------|--------|-------|---------|--------|-----|------|--|
| Conflicting Flow All | 66 | 0 | 0 | 261 | 0 | 0 | 289 | 278 | 148 | 281 | 391 | 66 | |
| Stage 1 | - | - | - | - | - | - | 188 | 188 | - | 90 | 90 | - | |
| Stage 2 | - | - | - | - | - | - | 101 | 90 | - | 191 | 301 | - | |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.1 | 5.5 | - | 6.1 | 5.5 | - | |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | |
| Pot Cap-1 Maneuver | 1549 | - | - | 1315 | - | - | 667 | 633 | 904 | 675 | 548 | 1003 | |
| Stage 1 | - | - | - | - | - | - | 818 | 748 | - | 922 | 824 | - | |
| Stage 2 | - | - | - | - | - | - | 910 | 824 | - | 815 | 669 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1549 | - | - | 1315 | - | - | 639 | 617 | 904 | 657 | 534 | 1003 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 639 | 617 | - | 657 | 534 | - | |
| Stage 1 | - | - | - | - | - | - | 805 | 736 | - | 907 | 817 | - | |
| Stage 2 | - | - | - | - | - | - | 881 | 817 | - | 795 | 658 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.5 | | | 1.2 | | | 11.4 | | | 9 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt NE | 3Ln1 | EBL | EBT | EBR | WBL | WBT | WBR S | BLn1 | | | | |
| Capacity (veh/h) | | 650 | 1549 | - | - | 1315 | - | - | 926 | | | | |
| HCM Lana V//C Patia | 0 | 122 | 0.012 | | | 0 000 | | | 0 0 2 4 | | | | |

| HCM Lane V/C Ratio | 0.132 | 0.013 | - | - 0 | 1.009 | - | - (| J.024 |
|-----------------------|-------|-------|---|-----|-------|---|-----|-------|
| HCM Control Delay (s) | 11.4 | 7.4 | 0 | - | 7.8 | 0 | - | 9 |
| HCM Lane LOS | В | А | А | - | А | А | - | Α |
| HCM 95th %tile Q(veh) | 0.5 | 0 | - | - | 0 | - | - | 0.1 |

| Int Delay, s/veh | 1 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | Y | | | ÷. | et 👘 | | |
| Traffic Vol, veh/h | 21 | 3 | 7 | 59 | 161 | 63 | |
| Future Vol, veh/h | 21 | 3 | 7 | 59 | 161 | 63 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | ,# 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 3 | 0 | 0 | |
| Mvmt Flow | 24 | 3 | 8 | 68 | 185 | 72 | |

| Major/Minor | Minor2 | N | Major1 | Maj | or2 | | | |
|----------------------|--------|-----|--------|-----|-----|---|--|--|
| Conflicting Flow All | 305 | 221 | 257 | 0 | - | 0 | | |
| Stage 1 | 221 | - | - | - | - | - | | |
| Stage 2 | 84 | - | - | - | - | - | | |
| Critical Hdwy | 6.4 | 6.2 | 4.1 | - | - | - | | |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - | - | | |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - | - | | |
| Follow-up Hdwy | 3.5 | 3.3 | 2.2 | - | - | - | | |
| Pot Cap-1 Maneuver | 691 | 824 | 1320 | - | - | - | | |
| Stage 1 | 821 | - | - | - | - | - | | |
| Stage 2 | 944 | - | - | - | - | - | | |
| Platoon blocked, % | | | | - | - | - | | |
| Mov Cap-1 Maneuver | 687 | 824 | 1320 | - | - | - | | |
| Mov Cap-2 Maneuver | 687 | - | - | - | - | - | | |
| Stage 1 | 816 | - | - | - | - | - | | |
| Stage 2 | 944 | - | - | - | - | - | | |
| | | | | | | | | |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 10.3 | 0.8 | 0 |
| HCM LOS | В | | |

| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |
|-----------------------|-------|-----------|-----|-----|
| Capacity (veh/h) | 1320 | - 702 | - | - |
| HCM Lane V/C Ratio | 0.006 | - 0.039 | - | - |
| HCM Control Delay (s) | 7.7 | 0 10.3 | - | - |
| HCM Lane LOS | А | A B | - | - |
| HCM 95th %tile Q(veh) | 0 | - 0.1 | - | - |

| Int Delay, s/veh | 0.4 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | Y | | | ÷. | et 👘 | | |
| Traffic Vol, veh/h | 6 | 0 | 3 | 60 | 136 | 28 | |
| Future Vol, veh/h | 6 | 0 | 3 | 60 | 136 | 28 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage | ,#0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 7 | 0 | 3 | 65 | 148 | 30 | |

| Major/Minor | Minor2 | l | Major1 | Ma | ajor2 | |
|----------------------|--------|-------|--------|----|-------|---|
| Conflicting Flow All | 234 | 163 | 178 | 0 | - | 0 |
| Stage 1 | 163 | - | - | - | - | - |
| Stage 2 | 71 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |
| Pot Cap-1 Maneuver | 754 | 882 | 1398 | - | - | - |
| Stage 1 | 866 | - | - | - | - | - |
| Stage 2 | 952 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 752 | 882 | 1398 | - | - | - |
| Mov Cap-2 Maneuver | 752 | - | - | - | - | - |
| Stage 1 | 864 | - | - | - | - | - |
| Stage 2 | 952 | - | - | - | - | - |
| | | | | | | |
| Annroach | FR | | NR | | SB | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.8 | 0.4 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | EBLn1 | SBT | SBR |
|-----------------------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1398 | - | 752 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | 0.009 | - | - |
| HCM Control Delay (s) | 7.6 | 0 | 9.8 | - | - |
| HCM Lane LOS | А | А | А | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

| Int Delay, s/veh | 0.5 | | | | | | | |
|------------------------|--------|------|------|------|------|------|--|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | | |
| Lane Configurations | ۰¥ | | | ÷. | et 👘 | | | |
| Traffic Vol, veh/h | 7 | 1 | 3 | 56 | 103 | 33 | | |
| Future Vol, veh/h | 7 | 1 | 3 | 56 | 103 | 33 | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | |
| RT Channelized | - | None | - | None | - | None | | |
| Storage Length | 0 | - | - | - | - | - | | |
| Veh in Median Storage | e, # 0 | - | - | 0 | 0 | - | | |
| Grade, % | 0 | - | - | 0 | 0 | - | | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | | |
| Mvmt Flow | 8 | 1 | 3 | 61 | 112 | 36 | | |

| Major/Minor | Minor2 | | Major1 | Ma | jor2 | | | | |
|----------------------|--------|-------|--------|----|------|---|--|--|--|
| Conflicting Flow All | 197 | 130 | 148 | 0 | - | 0 | | | |
| Stage 1 | 130 | - | - | - | - | - | | | |
| Stage 2 | 67 | - | - | - | - | - | | | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | | | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | | | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | | | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | | | |
| Pot Cap-1 Maneuver | 792 | 920 | 1434 | - | - | - | | | |
| Stage 1 | 896 | - | - | - | - | - | | | |
| Stage 2 | 956 | - | - | - | - | - | | | |
| Platoon blocked, % | | | | - | - | - | | | |
| Mov Cap-1 Maneuver | 790 | 920 | 1434 | - | - | - | | | |
| Mov Cap-2 Maneuver | 790 | - | - | - | - | - | | | |
| Stage 1 | 894 | - | - | - | - | - | | | |
| Stage 2 | 956 | - | - | - | - | - | | | |
| | | | | | | | | | |
| Approach | EB | | NB | | SB | | | | |
| HCM Control Delay, s | 9.5 | | 0.4 | | 0 | | | | |

HCM Control Delay, s 9.5 HCM LOS A

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 1434 | - | 804 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | 0.011 | - | - |
| HCM Control Delay (s) | 7.5 | 0 | 9.5 | - | - |
| HCM Lane LOS | А | А | А | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - |

| Int Delay, s/veh | 1.7 | | | | | | |
|------------------------|--------|------|--------------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | | ्र | - 1 2 | | ۰¥ | | |
| Traffic Vol, veh/h | 0 | 6 | 16 | 54 | 18 | 0 | |
| Future Vol, veh/h | 0 | 6 | 16 | 54 | 18 | 0 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | e, # - | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | |
| Mvmt Flow | 0 | 7 | 17 | 59 | 20 | 0 | |

| Major/Minor | Major1 | Ν | /lajor2 | | Vinor2 | |
|----------------------|--------|------|---------|-----|--------|-------|
| Conflicting Flow All | 76 | 0 | - | 0 | 54 | 47 |
| Stage 1 | - | - | - | - | 47 | - |
| Stage 2 | - | - | - | - | 7 | - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 |
| Pot Cap-1 Maneuver | 1523 | - | - | - | 954 | 1022 |
| Stage 1 | - | - | - | - | 975 | - |
| Stage 2 | - | - | - | - | 1016 | - |
| Platoon blocked, % | | - | - | - | | |
| Mov Cap-1 Maneuver | 1523 | - | - | - | 954 | 1022 |
| Mov Cap-2 Maneuver | - | - | - | - | 954 | - |
| Stage 1 | - | - | - | - | 975 | - |
| Stage 2 | - | - | - | - | 1016 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | s 0 | | 0 | | 8.9 | |
| HCM LOS | | | | | А | |
| | | | | | | |
| Minor Lane/Major Mv | mt | EBL | EBT | WBT | WBR : | SBLn1 |
| Capacity (veh/h) | | 1523 | - | - | - | 954 |
| HCM Lane V/C Ratio | | - | - | - | - | 0.021 |
| HCM Control Delay (s | 5) | 0 | - | - | - | 8.9 |
| HCM Lane LOS | | А | - | - | - | А |
| HCM 95th %tile Q(vel | h) | 0 | - | - | - | 0.1 |

| Int Delay, s/veh | 0.6 | | | | | |
|------------------------|--------|------|------|----------------|------|------|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Y | | | - द | 4 | |
| Traffic Vol, veh/h | 7 | 1 | 3 | 52 | 71 | 33 |
| Future Vol, veh/h | 7 | 1 | 3 | 52 | 71 | 33 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage | e, # 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 1 | 3 | 57 | 77 | 36 |

| Major/Minor | Minor2 | l | Major1 | Ma | ajor2 | | |
|----------------------|--------|-------|--------|----|-------|---|--|
| Conflicting Flow All | 158 | 95 | 113 | 0 | - | 0 | |
| Stage 1 | 95 | - | - | - | - | - | |
| Stage 2 | 63 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 833 | 962 | 1476 | - | - | - | |
| Stage 1 | 929 | - | - | - | - | - | |
| Stage 2 | 960 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 831 | 962 | 1476 | - | - | - | |
| Mov Cap-2 Maneuver | 831 | - | - | - | - | - | |
| Stage 1 | 927 | - | - | - | - | - | |
| Stage 2 | 960 | - | - | - | - | - | |
| | | | | | | | |
| A 1 | | | | | 0.0 | | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.3 | 0.4 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR | |
|-----------------------|-------|-------|------|-----|-----|--|
| Capacity (veh/h) | 1476 | - | 845 | - | - | |
| HCM Lane V/C Ratio | 0.002 | - | 0.01 | - | - | |
| HCM Control Delay (s) | 7.4 | 0 | 9.3 | - | - | |
| HCM Lane LOS | А | А | А | - | - | |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - | - | |

| Int Delay, s/veh | 6.1 | | | | | | | |
|------------------------|--------|------|------|------|------|------|--|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | | |
| Lane Configurations | - ሽ | | | 1 | | • | | |
| Traffic Vol, veh/h | 81 | 0 | 0 | 123 | 0 | 38 | | |
| Future Vol, veh/h | 81 | 0 | 0 | 123 | 0 | 38 | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | |
| RT Channelized | - | None | - | None | - | None | | |
| Storage Length | 0 | - | - | 0 | - | - | | |
| Veh in Median Storage | e, # 0 | - | 0 | - | - | 0 | | |
| Grade, % | 0 | - | 0 | - | - | 0 | | |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 | | |
| Heavy Vehicles, % | 0 | 2 | 2 | 0 | 2 | 0 | | |
| Mvmt Flow | 84 | 0 | 0 | 128 | 0 | 40 | | |

| Major/Minor | Minor1 | | Major2 | | |
|----------------------|--------|---|--------|---|--|
| Conflicting Flow All | 40 | - | - | - | |
| Stage 1 | 0 | - | - | - | |
| Stage 2 | 40 | - | - | - | |
| Critical Hdwy | 6.4 | - | - | - | |
| Critical Hdwy Stg 1 | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | |
| Follow-up Hdwy | 3.5 | - | - | - | |
| Pot Cap-1 Maneuver | 977 | 0 | 0 | - | |
| Stage 1 | - | 0 | 0 | - | |
| Stage 2 | 988 | 0 | 0 | - | |
| Platoon blocked, % | | | | - | |
| Mov Cap-1 Maneuve | r 977 | - | - | - | |
| Mov Cap-2 Maneuve | r 977 | - | - | - | |
| Stage 1 | - | - | - | - | |
| Stage 2 | 988 | - | - | - | |
| | | | | | |

| Approach | WB | SB | |
|----------------------|----|----|--|
| HCM Control Delay, s | 9 | 0 | |
| HCM LOS | A | | |

| Minor Lane/Major Mvmt | WBLn1 | SBT |
|-----------------------|-------|-----|
| Capacity (veh/h) | 977 | - |
| HCM Lane V/C Ratio | 0.086 | - |
| HCM Control Delay (s) | 9 | - |
| HCM Lane LOS | А | - |
| HCM 95th %tile Q(veh) | 0.3 | - |

| Int Delay, s/veh | 5.8 | | | | | | |
|------------------------|----------|------|------|------|------|------|--|
| Movement | EBT | EBR | WBL | WBT | NBL | NBR | |
| Lane Configurations | ↑ | | | ्र | ۰¥ | | |
| Traffic Vol, veh/h | 44 | 0 | 81 | 49 | 4 | 119 | |
| Future Vol, veh/h | 44 | 0 | 81 | 49 | 4 | 119 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | e, # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 96 | 96 | 96 | 96 | 96 | 96 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mvmt Flow | 46 | 0 | 84 | 51 | 4 | 124 | |

| Major/Minor | Major1 | | Major2 | 1 | Minor1 | | | | | | |
|----------------------|--------|-------|--------|-------|--------|------|----|--|--|--|--|
| Conflicting Flow All | 0 | - | 46 | 0 | 265 | 46 | ; | | | | |
| Stage 1 | - | · - | - | - | 46 | - | | | | | |
| Stage 2 | - | | - | - | 219 | - | | | | | |
| Critical Hdwy | - | | 4.1 | - | 6.4 | 6.2 | 1 | | | | |
| Critical Hdwy Stg 1 | - | | - | - | 5.4 | - | | | | | |
| Critical Hdwy Stg 2 | - | | - | - | 5.4 | - | | | | | |
| Follow-up Hdwy | - | | 2.2 | - | 3.5 | 3.3 | j. | | | | |
| Pot Cap-1 Maneuver | - | · 0 | 1575 | - | 728 | 1029 |) | | | | |
| Stage 1 | - | . 0 | - | - | 982 | - | | | | | |
| Stage 2 | - | . 0 | - | - | 822 | - | | | | | |
| Platoon blocked, % | - | | | - | | | | | | | |
| Mov Cap-1 Maneuve | r - | · - | 1575 | - | 688 | 1029 | 1 | | | | |
| Mov Cap-2 Maneuve | r - | | - | - | 688 | - | | | | | |
| Stage 1 | - | | - | - | 982 | - | | | | | |
| Stage 2 | - | | - | - | 777 | - | | | | | |
| | | | | | | | | | | | |
| Approach | EB | 6 | WB | | NB | | | | | | |
| HCM Control Delay, | s 0 | | 4.6 | | 9.1 | | | | | | |
| HCM LOS | | | | | А | | | | | | |
| | | | | | | | | | | | |
| Minor Lane/Major Mv | mt | NBLn1 | EBT | WBL | WBT | | | | | | |
| Capacity (veh/h) | | 1013 | - | 1575 | - | | | | | | |
| HCM Lane V/C Ratio | 1 | 0.126 | - | 0.054 | - | | | | | | |
| HCM Control Delay (| s) | 9.1 | - | 7.4 | 0 | | | | | | |
| HCM Lane LOS | | А | - | А | А | | | | | | |
| HCM 95th %tile Q(ve | h) | 0.4 | - | 0.2 | - | | | | | | |

Int Delay, s/veh 2.2 EBL Movement EBR NBL NBT SBT SBR Lane Configurations ٦ ŧ ۴ 31 99 Traffic Vol, veh/h 0 0 0 163 Future Vol, veh/h 31 0 0 99 0 163 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized None -None -None -Storage Length 0 0 ----Veh in Median Storage, # 0 --0 0 _ Grade, % 0 0 0 ---Peak Hour Factor 89 89 89 89 89 89 Heavy Vehicles, % 0 0 0 0 0 0 Mvmt Flow 35 0 0 111 0 183

| Major/Minor | Minor2 | Μ | lajor1 | |
|-----------------------|----------|------|----------|---|
| Conflicting Flow All | 111 | - | - | 0 |
| Stage 1 | 0 | - | - | - |
| Stage 2 | 111 | - | - | - |
| Critical Hdwy | 6.4 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - |
| Follow-up Hdwy | 3.5 | - | - | - |
| Pot Cap-1 Maneuver | 891 | 0 | 0 | - |
| Stage 1 | - | 0 | 0 | - |
| Stage 2 | 919 | 0 | 0 | - |
| Platoon blocked, % | | | | - |
| Mov Cap-1 Maneuver | 891 | - | - | - |
| Mov Cap-2 Maneuver | 891 | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | 919 | - | - | - |
| | | | | |
| Approach | EB | | NB | |
| HCM Control Delay, s | 9.2 | | 0 | |
| HCM LOS | А | | | |
| | | | | |
| Minor Lane/Major Myr | nt | | RI n1 | |
| | IIL | NDIL | | |
| Capacity (ven/n) | | - | 091 | |
| HCM Cantrol Delay (a | ` | - (| J.U39 | |
| HCM Long LOS |) | - | 9.2 | |
| HCM 05th % tile O(uch | ,) | - | A 0.1 | |

| Int Delay, s/veh | 6 | | | | | | |
|------------------------|-------|------|------------|------|------|------|--|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR | |
| Lane Configurations | | ्र | - † | | ۰¥ | | |
| Traffic Vol, veh/h | 31 | 101 | 54 | 0 | 161 | 2 | |
| Future Vol, veh/h | 31 | 101 | 54 | 0 | 161 | 2 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Free | Free | Free | Free | Stop | Stop | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | - | - | - | - | 0 | - | |
| Veh in Median Storage | , # - | 0 | 0 | - | 0 | - | |
| Grade, % | - | 0 | 0 | - | 0 | - | |
| Peak Hour Factor | 89 | 89 | 89 | 89 | 89 | 89 | |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | |
| Mvmt Flow | 35 | 113 | 61 | 0 | 181 | 2 | |

| Major/Minor | Major1 | Ν | /lajor2 | Ν | /linor2 | |
|----------------------|--------|-------|---------|-------|---------|------|
| Conflicting Flow All | 61 | 0 | - | 0 | 244 | 61 |
| Stage 1 | - | - | - | - | 61 | - |
| Stage 2 | - | - | - | - | 183 | - |
| Critical Hdwy | 4.1 | - | - | - | 6.4 | 6.2 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.2 | - | - | - | 3.5 | 3.3 |
| Pot Cap-1 Maneuver | 1555 | - | - | 0 | 749 | 1010 |
| Stage 1 | - | - | - | 0 | 967 | - |
| Stage 2 | - | - | - | 0 | 853 | - |
| Platoon blocked, % | | - | - | | | |
| Mov Cap-1 Maneuver | r 1555 | - | - | - | 731 | 1010 |
| Mov Cap-2 Maneuver | r - | - | - | - | 731 | - |
| Stage 1 | - | - | - | - | 944 | - |
| Stage 2 | - | - | - | - | 853 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | s 1.7 | | 0 | | 11.5 | |
| HCM LOS | | | | | В | |
| | | | | | | |
| Minor Lane/Major Mv | mt | EBL | EBT | WBT S | BLn1 | |
| Capacity (veh/h) | | 1555 | - | - | 733 | |
| HCM Lane V/C Ratio | | 0.022 | - | - | 0.25 | |
| HCM Control Delay (s | 5) | 7.4 | 0 | - | 11.5 | |
| HCM Lane LOS | , | A | A | - | В | |
| HCM 95th %tile Q(ve | h) | 0.1 | - | - | 1 | |

9.1

Intersection

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ¢ | | | \$ | | | \$ | | | \$ | |
| Traffic Vol, veh/h | 19 | 91 | 53 | 9 | 30 | 0 | 234 | 2 | 58 | 0 | 2 | 19 |
| Future Vol, veh/h | 19 | 91 | 53 | 9 | 30 | 0 | 234 | 2 | 58 | 0 | 2 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control F | Free | Free | Free | Free | Free | Free | Stop | Stop | Stop | Stop | Stop | Stop |
| RT Channelized | - | - | None |
| Storage Length | - | - | - | - | - | - | - | - | - | - | - | - |
| Veh in Median Storage, # | ŧ - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| Heavy Vehicles, % | 0 | 4 | 0 | 0 | 13 | 0 | 3 | 0 | 2 | 0 | 0 | 100 |
| Mvmt Flow | 22 | 105 | 61 | 10 | 34 | 0 | 269 | 2 | 67 | 0 | 2 | 22 |

| Major/Minor | Major1 | | N | Major2 | | l | Minor1 | | Ν | /linor2 | | | |
|----------------------|--------|-------|-------|--------|-----|-------|--------|-----|-------|---------|-----|-----|--|
| Conflicting Flow All | 34 | 0 | 0 | 166 | 0 | 0 | 246 | 234 | 136 | 268 | 264 | 34 | |
| Stage 1 | - | - | - | - | - | - | 180 | 180 | - | 54 | 54 | - | |
| Stage 2 | - | - | - | - | - | - | 66 | 54 | - | 214 | 210 | - | |
| Critical Hdwy | 4.1 | - | - | 4.1 | - | - | 7.13 | 6.5 | 6.22 | 7.1 | 6.5 | 7.2 | |
| Critical Hdwy Stg 1 | - | - | - | - | - | - | 6.13 | 5.5 | - | 6.1 | 5.5 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | - | - | 6.13 | 5.5 | - | 6.1 | 5.5 | - | |
| Follow-up Hdwy | 2.2 | - | - | 2.2 | - | - | 3.527 | 4 | 3.318 | 3.5 | 4 | 4.2 | |
| Pot Cap-1 Maneuver | 1591 | - | - | 1424 | - | - | 706 | 670 | 913 | 689 | 645 | 817 | |
| Stage 1 | - | - | - | - | - | - | 819 | 754 | - | 963 | 854 | - | |
| Stage 2 | - | - | - | - | - | - | 942 | 854 | - | 793 | 732 | - | |
| Platoon blocked, % | | - | - | | - | - | | | | | | | |
| Mov Cap-1 Maneuver | 1591 | - | - | 1424 | - | - | 674 | 655 | 913 | 626 | 631 | 817 | |
| Mov Cap-2 Maneuver | - | - | - | - | - | - | 674 | 655 | - | 626 | 631 | - | |
| Stage 1 | - | - | - | - | - | - | 807 | 743 | - | 949 | 848 | - | |
| Stage 2 | - | - | - | - | - | - | 908 | 848 | - | 722 | 721 | - | |
| | | | | | | | | | | | | | |
| Approach | EB | | | WB | | | NB | | | SB | | | |
| HCM Control Delay, s | 0.9 | | | 1.7 | | | 14.6 | | | 9.7 | | | |
| HCM LOS | | | | | | | В | | | А | | | |
| | | | | | | | | | | | | | |
| Minor Lane/Major Mvm | nt | NBLn1 | EBL | EBT | EBR | WBL | WBT | WBR | SBLn1 | | | | |
| Capacity (veh/h) | | 711 | 1591 | _ | _ | 1424 | - | - | 795 | | | | |
| HCM Lane V/C Ratio | | 0.475 | 0.01/ | | | 0.007 | | | 0.03 | | | | |

| HUM Lane V/C Ratio | 0.475 | 0.014 | - | - (| J.UU7 | - | - | 0.03 |
|-----------------------|-------|-------|---|-----|-------|---|---|------|
| HCM Control Delay (s) | 14.6 | 7.3 | 0 | - | 7.5 | 0 | - | 9.7 |
| HCM Lane LOS | В | А | А | - | А | А | - | А |
| HCM 95th %tile Q(veh) | 2.6 | 0 | - | - | 0 | - | - | 0.1 |

| Int Delay, s/veh | 3.6 | | | | | | |
|------------------------|------|------|------|--------------|------|------|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | |
| Lane Configurations | Y | | | ب | et | | |
| Traffic Vol, veh/h | 104 | 9 | 4 | 190 | 41 | 23 | |
| Future Vol, veh/h | 104 | 9 | 4 | 190 | 41 | 23 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | - | - | - | |
| Veh in Median Storage, | # 0 | - | - | 0 | 0 | - | |
| Grade, % | 0 | - | - | 0 | 0 | - | |
| Peak Hour Factor | 82 | 82 | 82 | 82 | 82 | 82 | |
| Heavy Vehicles, % | 2 | 25 | 0 | 3 | 0 | 0 | |
| Mvmt Flow | 127 | 11 | 5 | 232 | 50 | 28 | |

| Major/Minor | Minor2 | I | Major1 | Ma | jor2 | |
|----------------------|--------|-------|--------|----|------|---|
| Conflicting Flow All | 306 | 64 | 78 | 0 | - | 0 |
| Stage 1 | 64 | - | - | - | - | - |
| Stage 2 | 242 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.45 | 4.1 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.525 | 2.2 | - | - | - |
| Pot Cap-1 Maneuver | 686 | 939 | 1533 | - | - | - |
| Stage 1 | 959 | - | - | - | - | - |
| Stage 2 | 798 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 683 | 939 | 1533 | - | - | - |
| Mov Cap-2 Maneuver | 683 | - | - | - | - | - |
| Stage 1 | 955 | - | - | - | - | - |
| Stage 2 | 798 | - | - | - | - | - |
| | | | | | | |

| Approach | EB | NB | SB |
|----------------------|------|-----|----|
| HCM Control Delay, s | 11.4 | 0.2 | 0 |
| HCMLOS | В | | |

| Minor Lane/Major Mvmt | NBL | NBT EBLn1 | SBT | SBR |
|-----------------------|-------|-----------|-----|-----|
| Capacity (veh/h) | 1533 | - 698 | - | - |
| HCM Lane V/C Ratio | 0.003 | - 0.197 | - | - |
| HCM Control Delay (s) | 7.4 | 0 11.4 | - | - |
| HCM Lane LOS | А | A B | - | - |
| HCM 95th %tile Q(veh) | 0 | - 0.7 | - | - |

| Int Delay, s/veh | 1.2 | | | | | | | | |
|------------------------|-------|------|------|------|------|------|--|--|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | | | |
| Lane Configurations | Y | | | ÷ | et 👘 | | | | |
| Traffic Vol, veh/h | 28 | 3 | 0 | 166 | 44 | 6 | | | |
| Future Vol, veh/h | 28 | 3 | 0 | 166 | 44 | 6 | | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | | |
| RT Channelized | - | None | - | None | - | None | | | |
| Storage Length | 0 | - | - | - | - | - | | | |
| Veh in Median Storage | , # 0 | - | - | 0 | 0 | - | | | |
| Grade, % | 0 | - | - | 0 | 0 | - | | | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | | | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Mvmt Flow | 30 | 3 | 0 | 180 | 48 | 7 | | | |

| Major/Minor | Minor2 | l | Major1 | Maj | or2 | | |
|----------------------|--------|-------|--------|-----|-----|---|--|
| Conflicting Flow All | 232 | 52 | 55 | 0 | - | 0 | |
| Stage 1 | 52 | - | - | - | - | - | |
| Stage 2 | 180 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 756 | 1016 | 1550 | - | - | - | |
| Stage 1 | 970 | - | - | - | - | - | |
| Stage 2 | 851 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 756 | 1016 | 1550 | - | - | - | |
| Mov Cap-2 Maneuver | 756 | - | - | - | - | - | |
| Stage 1 | 970 | - | - | - | - | - | |
| Stage 2 | 851 | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |

| Approach | EB | NB | SB | |
|----------------------|-----|----|----|--|
| HCM Control Delay, s | 9.9 | 0 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | EBLn1 | SBT | SBR |
|-----------------------|------|-------|-------|-----|-----|
| Capacity (veh/h) | 1550 | - | 775 | - | - |
| HCM Lane V/C Ratio | - | - | 0.043 | - | - |
| HCM Control Delay (s) | 0 | - | 9.9 | - | - |
| HCM Lane LOS | А | - | А | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

Int Delay, s/veh 1.7 EBL Movement EBR NBL NBT SBT SBR Y **র্ব** 133 **₽** 40 Lane Configurations 33 Traffic Vol, veh/h 3 7 1 Future Vol, veh/h 33 3 1 133 40 7 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized -None -None -None Storage Length 0 -----Veh in Median Storage, # 0 --0 0 -Grade, % 0 0 0 ---Peak Hour Factor 92 92 92 92 92 92 Heavy Vehicles, % 2 2 2 2 2 2 Mvmt Flow 36 3 1 145 43 8

| Major/Minor | Minor2 | l | Major1 | Ma | ajor2 | |
|----------------------|--------|-------|--------|----|-------|---|
| Conflicting Flow All | 194 | 47 | 51 | 0 | - | 0 |
| Stage 1 | 47 | - | - | - | - | - |
| Stage 2 | 147 | - | - | - | - | - |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - |
| Pot Cap-1 Maneuver | 795 | 1022 | 1555 | - | - | - |
| Stage 1 | 975 | - | - | - | - | - |
| Stage 2 | 880 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 794 | 1022 | 1555 | - | - | - |
| Mov Cap-2 Maneuver | 794 | - | - | - | - | - |
| Stage 1 | 974 | - | - | - | - | - |
| Stage 2 | 880 | - | - | - | - | - |
| | | | | | | |
| Annroach | FR | | NR | | SB | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.7 | 0.1 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR |
|-----------------------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1555 | - | 809 | - | - |
| HCM Lane V/C Ratio | 0.001 | - | 0.048 | - | - |
| HCM Control Delay (s) | 7.3 | 0 | 9.7 | - | - |
| HCM Lane LOS | А | А | Α | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

Int Delay, s/veh 3.5 Movement EBL EBT WBT WBR SBL SBR **₽** 9 **ब** 59 ¥ Lane Configurations Traffic Vol, veh/h 0 18 54 0 Future Vol, veh/h 0 59 9 18 54 0 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized -None -None -None Storage Length 0 --_ --Veh in Median Storage, # -0 0 -0 -Grade, % 0 0 0 ---Peak Hour Factor 92 92 92 92 92 92 Heavy Vehicles, % 2 2 2 2 2 2 Mvmt Flow 0 64 10 20 59 0

| Major/Minor | Major1 | Ν | lajor2 | | Minor2 | | |
|----------------------|--------|------|--------|-----|------------|-------|--|
| Conflicting Flow All | 30 | 0 | - | 0 | 84 | 20 | |
| Stage 1 | - | - | - | - | 20 | - | |
| Stage 2 | - | - | - | - | 64 | - | |
| Critical Hdwy | 4.12 | - | - | - | 6.42 | 6.22 | |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 | - | |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 | - | |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 | 3.318 | |
| Pot Cap-1 Maneuver | 1583 | - | - | - | 918 | 1058 | |
| Stage 1 | - | - | - | - | 1003 | - | |
| Stage 2 | - | - | - | - | 959 | - | |
| Platoon blocked, % | | - | - | - | | | |
| Mov Cap-1 Maneuver | 1583 | - | - | - | 918 | 1058 | |
| Mov Cap-2 Maneuver | · _ | - | - | - | 918 | - | |
| Stage 1 | - | - | - | - | 1003 | - | |
| Stage 2 | - | - | - | - | 959 | - | |
| | | | | | | | |
| Approach | EB | | WB | | SB | | |
| HCM Control Delay s | 0 | | 0 | | 92 | | |
| HCM LOS | | | Ū | | A | | |
| | | | | | | | |
| Miner Lene/Meise Ma | | EDI | EDT | | | | |
| Minor Lane/Major MV | mt | EBL | FRI | WRI | WBR | SBLN1 | |
| Capacity (veh/h) | | 1583 | - | - | - | 918 | |
| HCM Lane V/C Ratio | | - | - | - | - | 0.064 | |
| HCM Control Delay (s | 5) | 0 | - | - | - | 9.2 | |
| HCM Lane LOS | | А | - | - | - | А | |
| HCM 95th %tile Q(vel | n) | 0 | - | - | - | 0.2 | |

| Int Delay, s/veh | 1.9 | | | | | | | | |
|------------------------|--------|------|------|----------------|------|------|--|--|--|
| Movement | EBL | EBR | NBL | NBT | SBT | SBR | | | |
| Lane Configurations | ۰¥ | | | - द | ef 👘 | | | | |
| Traffic Vol, veh/h | 33 | 3 | 1 | 101 | 36 | 7 | | | |
| Future Vol, veh/h | 33 | 3 | 1 | 101 | 36 | 7 | | | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | | | |
| RT Channelized | - | None | - | None | - | None | | | |
| Storage Length | 0 | - | - | - | - | - | | | |
| Veh in Median Storage | e, # 0 | - | - | 0 | 0 | - | | | |
| Grade, % | 0 | - | - | 0 | 0 | - | | | |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | | | |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 | | | |
| Mvmt Flow | 36 | 3 | 1 | 110 | 39 | 8 | | | |

| Major/Minor | Minor2 | l | Major1 | Ma | ajor2 | | |
|----------------------|--------|-------|--------|----|-------|---|--|
| Conflicting Flow All | 155 | 43 | 47 | 0 | - | 0 | |
| Stage 1 | 43 | - | - | - | - | - | |
| Stage 2 | 112 | - | - | - | - | - | |
| Critical Hdwy | 6.42 | 6.22 | 4.12 | - | - | - | |
| Critical Hdwy Stg 1 | 5.42 | - | - | - | - | - | |
| Critical Hdwy Stg 2 | 5.42 | - | - | - | - | - | |
| Follow-up Hdwy | 3.518 | 3.318 | 2.218 | - | - | - | |
| Pot Cap-1 Maneuver | 836 | 1027 | 1560 | - | - | - | |
| Stage 1 | 979 | - | - | - | - | - | |
| Stage 2 | 913 | - | - | - | - | - | |
| Platoon blocked, % | | | | - | - | - | |
| Mov Cap-1 Maneuver | 835 | 1027 | 1560 | - | - | - | |
| Mov Cap-2 Maneuver | 835 | - | - | - | - | - | |
| Stage 1 | 978 | - | - | - | - | - | |
| Stage 2 | 913 | - | - | - | - | - | |
| | | | | | | | |
| | | | | | | | |

| Approach | EB | NB | SB | |
|----------------------|-----|-----|----|--|
| HCM Control Delay, s | 9.5 | 0.1 | 0 | |
| HCM LOS | А | | | |

| Minor Lane/Major Mvmt | NBL | NBT E | BLn1 | SBT | SBR |
|-----------------------|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1560 | - | 848 | - | - |
| HCM Lane V/C Ratio | 0.001 | - | 0.046 | - | - |
| HCM Control Delay (s) | 7.3 | 0 | 9.5 | - | - |
| HCM Lane LOS | А | А | А | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

| Int Delay, s/veh | 8.1 | | | | | | |
|------------------------|------|------|------|------|------|------|--|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT | |
| Lane Configurations | ۲. | | | 1 | | • | |
| Traffic Vol, veh/h | 111 | 0 | 0 | 43 | 0 | 16 | |
| Future Vol, veh/h | 111 | 0 | 0 | 43 | 0 | 16 | |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sign Control | Stop | Stop | Free | Free | Free | Free | |
| RT Channelized | - | None | - | None | - | None | |
| Storage Length | 0 | - | - | 0 | - | - | |
| Veh in Median Storage | ,#0 | - | 0 | - | - | 0 | |
| Grade, % | 0 | - | 0 | - | - | 0 | |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 | |
| Heavy Vehicles, % | 19 | 2 | 2 | 0 | 2 | 19 | |
| Mvmt Flow | 123 | 0 | 0 | 48 | 0 | 18 | |

| Minor1 | | Major2 | | |
|--------|--|--|---|---|
| 18 | - | - | - | |
| 0 | - | - | - | |
| 18 | - | - | - | |
| 6.59 | - | - | - | |
| - | - | - | - | |
| 5.59 | - | - | - | |
| 3.671 | - | - | - | |
| 958 | 0 | 0 | - | |
| - | 0 | 0 | - | |
| 962 | 0 | 0 | - | |
| | | | - | |
| 958 | - | - | - | |
| 958 | - | - | - | |
| - | - | - | - | |
| 962 | - | - | - | |
| | | | | |
| | Minor1 18 0 18 6.59 - 5.59 3.671 958 - 962 958 958 - 962 | Minor1 18 - 0 - 18 - 6.59 5.59 - 5.59 - 5.59 - 3.671 - 958 0 - 0 962 0 958 - 0 958 958 958 958 958 958 962 962 962 | Minor1 Major2 18 - 0 - 18 - 6.59 - - - 5.59 - 3.671 - 958 0 962 0 958 - 958 - 958 - 962 0 | Minor1 Major2 18 - - 0 - - 18 - - 18 - - 6.59 - - 5.59 - - 5.59 - - 3.671 - - 958 0 0 962 0 0 958 - - 958 - - 958 - - 958 - - 958 - - 958 - - 958 - - 958 - - 958 - - 958 - - 958 - - 962 - - |

| Approach | WB | SB | |
|----------------------|-----|----|--|
| HCM Control Delay, s | 9.3 | 0 | |
| HCM LOS | А | | |

| Minor Lane/Major Mvmt | WBLn1 | SBT |
|-----------------------|-------|-----|
| Capacity (veh/h) | 958 | - |
| HCM Lane V/C Ratio | 0.129 | - |
| HCM Control Delay (s) | 9.3 | - |
| HCM Lane LOS | А | - |
| HCM 95th %tile Q(veh) | 0.4 | - |

| Int Delay, s/veh | 5.1 | | | | | |
|------------------------|------|------|------|------|------|------|
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | 1 | | | ÷. | Y | |
| Traffic Vol, veh/h | 24 | 0 | 111 | 63 | 2 | 41 |
| Future Vol, veh/h | 24 | 0 | 111 | 63 | 2 | 41 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, | # 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 2 | 2 | 19 | 10 | 0 | 0 |
| Mvmt Flow | 27 | 0 | 123 | 70 | 2 | 46 |

| Major/Minor | Major1 | [| Major2 | ľ | Ainor1 | | | |
|----------------------|--------|-------|--------|-------|--------|------|--|--|
| Conflicting Flow All | 0 | - | 27 | 0 | 343 | 27 | | |
| Stage 1 | - | - | - | - | 27 | - | | |
| Stage 2 | - | - | - | - | 316 | - | | |
| Critical Hdwy | - | - | 4.29 | - | 6.4 | 6.2 | | |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - | | |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - | | |
| Follow-up Hdwy | - | - | 2.371 | - | 3.5 | 3.3 | | |
| Pot Cap-1 Maneuver | - | 0 | 1483 | - | 657 | 1054 | | |
| Stage 1 | - | 0 | - | - | 1001 | - | | |
| Stage 2 | - | 0 | - | - | 744 | - | | |
| Platoon blocked, % | - | | | - | | | | |
| Mov Cap-1 Maneuver | | - | 1483 | - | 600 | 1054 | | |
| Mov Cap-2 Maneuver | | - | - | - | 600 | - | | |
| Stage 1 | - | - | - | - | 1001 | - | | |
| Stage 2 | - | - | - | - | 680 | - | | |
| | | | | | | | | |
| Approach | EB | | WB | | NB | | | |
| HCM Control Delay, s | s 0 | | 4.9 | | 8.7 | | | |
| HCM LOS | | | | | А | | | |
| | | | | | | | | |
| Minor Lane/Major Mvi | mt N | VBLn1 | EBT | WBL | WBT | | | |
| Capacity (veh/h) | | 1018 | - | 1483 | - | | | |
| HCM Lane V/C Ratio | | 0.047 | - | 0.083 | - | | | |
| HCM Control Delay (s | 5) | 8.7 | - | 7.6 | 0 | | | |
| HCM Lane LOS | | А | - | А | А | | | |
| HCM 95th %tile Q(vel | h) | 0.1 | - | 0.3 | - | | | |

Int Delay, s/veh 1.8 Movement EBL EBR NBL NBT SBT SBR ***** 33 Lane Configurations ŧ ۴ Traffic Vol, veh/h 0 0 141 0 65 Future Vol, veh/h 33 0 0 141 0 65 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Stop Stop Free Free Free Free RT Channelized None -None -None -Storage Length 0 0 ----Veh in Median Storage, # 0 --0 0 -Grade, % 0 0 0 ---Peak Hour Factor 90 90 90 90 90 90 Heavy Vehicles, % 2 2 2 12 9 7 Mvmt Flow 37 0 0 157 0 72

| Major/Minor | Minor2 | М | lajor1 | |
|----------------------|--------|-------|--------|---|
| Conflicting Flow All | 157 | - | - | 0 |
| Stage 1 | 0 | - | - | - |
| Stage 2 | 157 | - | - | - |
| Critical Hdwy | 6.52 | - | - | - |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.52 | - | - | - |
| Follow-up Hdwy | 3.608 | - | - | - |
| Pot Cap-1 Maneuver | 811 | 0 | 0 | - |
| Stage 1 | - | 0 | 0 | - |
| Stage 2 | 848 | 0 | 0 | - |
| Platoon blocked, % | | | | - |
| Mov Cap-1 Maneuver | r 811 | - | - | - |
| Mov Cap-2 Maneuver | r 811 | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | 848 | - | - | - |
| | | | | |
| Approach | EB | | NB | |
| HCM Control Delay, s | s 9.6 | | 0 | |
| HCM LOS | А | | | |
| | | | | |
| Minor Lane/Major Mv | mt | NBT E | BLn1 | |
| Capacity (veh/h) | | - | 811 | |
| HCM Lane V/C Ratio | | - (| 0.045 | |
| HCM Control Delay (s | s) | - | 9.6 | |
| HCM Lane LOS | | - | A | |
| HCM 95th %tile Q(ve | h) | - | 0.1 | |

| Int Delay, s/veh | 2.5 | | | | | |
|------------------------|------|------|------|------|------|------|
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | ÷. | • | | Y | |
| Traffic Vol, veh/h | 33 | 132 | 142 | 0 | 31 | 34 |
| Future Vol, veh/h | 33 | 132 | 142 | 0 | 31 | 34 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage | ,# - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 90 | 90 | 90 | 90 | 90 | 90 |
| Heavy Vehicles, % | 12 | 6 | 6 | 2 | 0 | 7 |
| Mvmt Flow | 37 | 147 | 158 | 0 | 34 | 38 |

| Major/Minor | Major1 | Ν | /lajor2 | Ν | linor2 | |
|----------------------|--------|-------|---------|------|--------|-------|
| Conflicting Flow All | 158 | 0 | - | 0 | 379 | 158 |
| Stage 1 | - | - | - | - | 158 | - |
| Stage 2 | - | - | - | - | 221 | - |
| Critical Hdwy | 4.22 | - | - | - | 6.4 | 6.27 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.4 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.4 | - |
| Follow-up Hdwy | 2.308 | - | - | - | 3.5 | 3.363 |
| Pot Cap-1 Maneuver | 1363 | - | - | 0 | 627 | 874 |
| Stage 1 | - | - | - | 0 | 875 | - |
| Stage 2 | - | - | - | 0 | 821 | - |
| Platoon blocked, % | | - | - | | | |
| Mov Cap-1 Maneuver | 1363 | - | - | - | 608 | 874 |
| Mov Cap-2 Maneuver | • - | - | - | - | 608 | - |
| Stage 1 | - | - | - | - | 849 | - |
| Stage 2 | - | - | - | - | 821 | - |
| | | | | | | |
| Approach | EB | | WB | | SB | |
| HCM Control Delay, s | 1.5 | | 0 | | 10.5 | |
| HCM LOS | | | - | | В | |
| | | | | | | |
| NA: | | | CDT | | | |
| | mt | EBL | ERI | WBIS | BLUI | |
| Capacity (veh/h) | | 1363 | - | - | 723 | |
| HCM Lane V/C Ratio | | 0.027 | - | - | 0.1 | |
| HCM Control Delay (s | 6) | 7.7 | 0 | - | 10.5 | |
| HCM Lane LOS | | A | A | - | B | |
| HCM 95th %tile Q(vel | h) | 0.1 | - | - | 0.3 | |

APPENDIX 3.17-C: ROADWAY SEGMENT LOS WORKSHEETS

| Project Information | | | | | | | | | | |
|-------------------------------------|-------------------------------------|---------|-----------------------------------|-----------------------|--|--|--|--|--|--|
| Analyst | James Vorosmarti | Da | ate | | 4/17/2025 | | | | | |
| Agency | Tetra Tech | Ar | nalysis Year | | 2024 | | | | | |
| Jurisdiction | Solano County | Tir | me Analyzed | | 2024 Existing + Project Weekday Morning | | | | | |
| Project Description | Corby BESS Byrnes Roa Northbound | d Ur | nits | | U.S. Customary | | | | | |
| Segment 1 | | | | | | | | | | |
| Vehicle Inputs | | | | | | | | | | |
| Segment Type | Passing Zone | Le | ength, ft | | 5280 | | | | | |
| Measured FFS | Measured | Fre | ee-Flow Speed, I | mi/h | 59.0 | | | | | |
| Demand and Capacity | | | | | | | | | | |
| Directional Demand Flow Rate, veh/h | 65 | O | pposing Demand | d Flow Rate, veh/h | 165 | | | | | |
| Peak Hour Factor | 0.98 | То | otal Trucks, % | | 36.00 | | | | | |
| Segment Capacity, veh/h | 1700 | De | emand/Capacity | (D/C) | 0.04 | | | | | |
| Intermediate Results | | | | | | | | | | |
| Segment Vertical Class | 1 | Fre | ee-Flow Speed, I | mi/h | 59.0 | | | | | |
| Speed Slope Coefficient (m) | 4.35698 | Sp | beed Power Coef | ficient (p) | 0.54966 | | | | | |
| PF Slope Coefficient (m) | -1.20296 | PF | Power Coefficie | ent (p) | 0.81549 | | | | | |
| In Passing Lane Effective Length? | No | Fo | ollower Density, f | followers/mi/ln | 0.1 | | | | | |
| %Improvement to Percent Followers | 0.0 | % | Improvement to | Speed | 0.0 | | | | | |
| Subsegment Data | | | | | | | | | | |
| # Segment Type | Length, ft | Radius, | , ft | Superelevation, % | Average Speed, mi/h | | | | | |
| 1 Tangent | 5280 - | | | - | 59.0 | | | | | |
| Vehicle Results | | | | | | | | | | |
| Average Speed, mi/h | 59.0 | Pe | ercent Followers, | % | 12.2 | | | | | |
| Segment Travel Time, minutes | 1.02 | Ac | dj. Follower Dens | sity, followers/mi/ln | 0.1 | | | | | |
| Vehicle LOS | А | | | | | | | | | |
| Facility Results | | | | | | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower Density, follow mi/ln | | LOS | | | | | |
| 1 16 | 0.00 | | | 0.1 | A | | | | | |

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2024 Existing + Project Morning Byrnes Rd Northbound.xuf

| Project Information | | | | | | | | | | |
|-------------------------------------|-------------------------------------|---------|-------------------|-----------------------------|--|--|--|--|--|--|
| Analyst | James Vorosmarti | Da | ate | | 4/17/2025 | | | | | |
| Agency | Tetra Tech | An | nalysis Year | | 2024 | | | | | |
| Jurisdiction | Solano County | Tir | me Analyzed | | 2024 Existing + Project Weekday Morning | | | | | |
| Project Description | Corby BESS Byrnes Roa Southbound | d Ur | nits | | U.S. Customary | | | | | |
| Segment 1 | | | | | | | | | | |
| Vehicle Inputs | | | | | | | | | | |
| Segment Type | Passing Zone | Le | ngth, ft | | 5280 | | | | | |
| Measured FFS | Measured | Fre | ee-Flow Speed, I | mi/h | 60.0 | | | | | |
| Demand and Capacity | | | | | | | | | | |
| Directional Demand Flow Rate, veh/h | 195 | Op | oposing Demand | d Flow Rate, veh/h | 77 | | | | | |
| Peak Hour Factor | 0.83 | To | tal Trucks, % | | 17.00 | | | | | |
| Segment Capacity, veh/h | 1700 | De | emand/Capacity | (D/C) | 0.11 | | | | | |
| Intermediate Results | | | | | | | | | | |
| Segment Vertical Class | 1 | Fre | ee-Flow Speed, I | mi/h | 60.0 | | | | | |
| Speed Slope Coefficient (m) | 4.31472 | Sp | eed Power Coef | ficient (p) | 0.58532 | | | | | |
| PF Slope Coefficient (m) | -1.16960 | PF | Power Coefficie | ent (p) | 0.82521 | | | | | |
| In Passing Lane Effective Length? | No | Fo | llower Density, f | followers/mi/ln | 0.9 | | | | | |
| %Improvement to Percent Followers | 0.0 | %I | mprovement to | 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 | Pe | rcent Followers, | % | 26.2 | | | | | |
| Segment Travel Time, minutes | 1.02 | Ad | lj. Follower Dens | sity, followers/mi/ln | 0.9 | | | | | |
| Vehicle LOS | A | | | | | | | | | |
| Facility Results | | | | | | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS | | | | | |
| 1 41 | 0.01 | | | 0.9 | A | | | | | |

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2024 Existing + Project Morning Byrnes Rd Southbound.xuf

| Project Information | | | | | | |
|--|-----------------------------------|-------------|---------------------------------------|-----------------------|--|--|
| Analyst | James Vorosmarti | Da | te | | 4/17/2025 | |
| Agency | Tetra Tech | An | alysis Year | | 2024 | |
| Jurisdiction | Solano County | | | | 2024 Existing + Project Weekday Morning | |
| Project Description | Corby BESS Weber Roa Eastbound | ad Un | its | | U.S. Customary | |
| | Se | egmer | nt 1 | | | |
| Vehicle Inputs | | | | | | |
| Segment Type | Passing Constrained | Ler | ngth, ft | | 5280 | |
| Measured FFS | Measured | Fre | e-Flow Speed, | mi/h | 51.0 | |
| Demand and Capacity | | | | | | |
| Directional Demand Flow Rate, veh/l | ו 279 | Ор | posing Deman | d Flow Rate, veh/h | - | |
| Peak Hour Factor | 0.87 | Tot | al Trucks, % | | 20.00 | |
| Segment Capacity, veh/h | 1700 | De | mand/Capacity | (D/C) | 0.16 | |
| Intermediate Results | | | | | • | |
| Segment Vertical Class | 1 | Fre | e-Flow Speed, | mi/h | 51.0 | |
| Speed Slope Coefficient (m) | 4.62517 | Spe | eed Power Coet | ficient (p) | 0.41674 | |
| PF Slope Coefficient (m) | -1.35958 | PF | Power Coefficie | ent (p) | 0.73838 | |
| In Passing Lane Effective Length? | No | Fol | lower Density, | followers/mi/ln | 2.4 | |
| %Improvement to Percent Followers | 0.0 | %lı | mprovement to | Speed | 0.0 | |
| Subsegment Data | | | | | | |
| # Segment Type | Length, ft | Radius, | us, ft Superelev | | Average Speed, mi/h | |
| 1 Tangent | 5280 | - | - | | 48.7 | |
| Vehicle Results | | | | | | |
| Average Speed, mi/h | 48.7 | Per | rcent Followers, | % | 41.1 | |
| Segment Travel Time, minutes | 1.23 | Ad | j. Follower Den | sity, followers/mi/ln | 2.4 | |
| Vehicle LOS | В | | | | | |
| Facility Results | | | | | | |
| T VMT veh-mi/AP | VMT VHD veh-mi/AP veh-h/p | | Follower Density, followers/ mi/ln | | LOS | |
| 1 61 | 0.06 | | | 2.4 | В | |
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2024 Existing + Project Morning Weber Rd Eastbound.xuf

| Project Information | | | | | | | | | | |
|-------------------------------------|-----------------------------------|---------|-------------------|-----------------------------|--|--|--|--|--|--|
| Analyst | James Vorosmarti | Da | te | | 4/17/2025 | | | | | |
| Agency | Tetra Tech | An | alysis Year | | 2024 | | | | | |
| Jurisdiction | Solano County | Tin | ne Analyzed | | 2024 Existing + Project Weekday Morning | | | | | |
| Project Description | Corby BESS Weber Roa Westbound | d Un | its | | U.S. Customary | | | | | |
| Segment 1 | | | | | | | | | | |
| Vehicle Inputs | | | | | | | | | | |
| Segment Type | Passing Constrained | Lei | ngth, ft | | 5280 | | | | | |
| Measured FFS | Measured | Fre | e-Flow Speed, | mi/h | 48.0 | | | | | |
| Demand and Capacity | | | | | | | | | | |
| Directional Demand Flow Rate, veh/h | 140 | Op | posing Deman | d Flow Rate, veh/h | - | | | | | |
| Peak Hour Factor | 0.96 | Tot | tal Trucks, % | | 50.00 | | | | | |
| Segment Capacity, veh/h | 1700 | De | mand/Capacity | (D/C) | 0.08 | | | | | |
| Intermediate Results | | | | | | | | | | |
| Segment Vertical Class | 1 | Fre | e-Flow Speed, | mi/h | 48.0 | | | | | |
| Speed Slope Coefficient (m) | 4.62517 | Sp | eed Power Coef | ficient (p) | 0.41674 | | | | | |
| PF Slope Coefficient (m) | -1.37089 | PF | Power Coefficie | ent (p) | 0.73331 | | | | | |
| In Passing Lane Effective Length? | No | Fo | llower Density, f | followers/mi/ln | 0.8 | | | | | |
| %Improvement to Percent Followers | 0.0 | % | mprovement to | Speed | 0.0 | | | | | |
| Subsegment Data | | | | | | | | | | |
| # Segment Type | Length, ft | Radius, | ft | Superelevation, % | Average Speed, mi/h | | | | | |
| 1 Tangent | 5280 | - | - | | 46.8 | | | | | |
| Vehicle Results | | | | | | | | | | |
| Average Speed, mi/h | 46.8 | Per | rcent Followers, | % | 27.6 | | | | | |
| Segment Travel Time, minutes | 1.28 | Ad | j. Follower Dens | sity, followers/mi/ln | 0.8 | | | | | |
| Vehicle LOS | A | | | | | | | | | |
| Facility Results | | | | | | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS | | | | | |
| 1 34 | 0.02 | | | 0.8 | A | | | | | |

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2024 Existing + Project Morning Weber Rd Westbound.xuf
| Project Information | | | | | |
|-------------------------------------|-------------------------------------|--------|-----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | D | ate | | 4/17/2025 |
| Agency | Tetra Tech | A | nalysis Year | | 2026 |
| Jurisdiction | Solano County | | ime Analyzed | | 2026 Cumulative+Project Weekday Morning |
| Project Description | Corby BESS Byrnes Roa Northbound | id U | Inits | | U.S. Customary |
| | Se | egme | ent 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Zone | Le | ength, ft | | 5280 |
| Measured FFS | Measured | Fr | ree-Flow Speed, I | mi/h | 59.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 67 | 0 | pposing Demand | d Flow Rate, veh/h | 167 |
| Peak Hour Factor | 0.98 | Тс | otal Trucks, % | | 38.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.04 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Fr | Free-Flow Speed, mi/h | | 59.0 |
| Speed Slope Coefficient (m) | 4.35780 | Sp | Speed Power Coefficient (p) | | 0.54900 |
| PF Slope Coefficient (m) | -1.20331 | PI | PF Power Coefficient (p) | | 0.81562 |
| In Passing Lane Effective Length? | No | Fc | Follower Density, followers/mi/ln | | 0.1 |
| %Improvement to Percent Followers | 0.0 | % | Improvement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius | s, ft | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 59.0 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 59.0 | Pe | ercent Followers, | % | 12.5 |
| Segment Travel Time, minutes | 1.02 | A | dj. Follower Dens | sity, followers/mi/ln | 0.1 |
| Vehicle LOS | A | | | | |
| Facility Results | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 17 | 0.00 | | | 0.1 | A |

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2026 Cumulative + Project Morning Byrnes Rd Northbound.xuf

| Project Information | | | | | |
|-------------------------------------|--|-----------|---------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Dat | e | | 4/17/2025 |
| Agency | Tetra Tech | Ana | llysis Year | | 2026 |
| Jurisdiction | Solano County | Tim | e Analyzed | | 2026 Cumulative + Project Weekday Morning |
| Project Description | Corby BESS Byrnes Road Uni Southbound | | ts | | U.S. Customary |
| | Se | egmen | t 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Zone | Len | gth, ft | | 5280 |
| Measured FFS | Measured | Free | e-Flow Speed, | mi/h | 60.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 198 | Орр | oosing Demano | d Flow Rate, veh/h | 80 |
| Peak Hour Factor | 0.83 | Tota | al Trucks, % | | 18.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.12 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Free | Free-Flow Speed, mi/h | | 60.0 |
| Speed Slope Coefficient (m) | 4.31614 | Spe | Speed Power Coefficient (p) | | 0.58406 |
| PF Slope Coefficient (m) | -1.17059 | PF F | PF Power Coefficient (p) | | 0.82503 |
| In Passing Lane Effective Length? | No | Foll | llower Density, followers/mi/ln | | 0.9 |
| %Improvement to Percent Followers | 0.0 | %In | nprovement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, f | t | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 58.9 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 58.9 | Pero | cent Followers, | % | 26.4 |
| Segment Travel Time, minutes | 1.02 | | Follower Dens | sity, followers/mi/ln | 0.9 |
| Vehicle LOS | A | | | | |
| Facility Results | - | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 41 | 0.01 | | | 0.9 | А |

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2026 Cumulative + Project Morning Byrnes Rd Southbound.xuf

| Project Information | | | | | |
|-------------------------------------|-----------------------------------|---------|-----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Da | ate | | 4/17/2025 |
| Agency | Tetra Tech | Ai | nalysis Year | | 2024 |
| Jurisdiction | Solano County | | me Analyzed | | 2026 Cumulative + Project Weekday Morning |
| Project Description | Corby BESS Weber Roa Eastbound | d Ui | nits | | U.S. Customary |
| | Se | egme | nt 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Constrained | Le | ength, ft | | 5280 |
| Measured FFS | Measured | Fr | ree-Flow Speed, | mi/h | 51.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 301 | 0 | pposing Deman | d Flow Rate, veh/h | - |
| Peak Hour Factor | 0.87 | Tc | otal Trucks, % | | 26.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.18 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Fr | Free-Flow Speed, mi/h | | 51.0 |
| Speed Slope Coefficient (m) | 4.62517 | Sp | Speed Power Coefficient (p) | | 0.41674 |
| PF Slope Coefficient (m) | -1.35883 | PF | PF Power Coefficient (p) | | 0.73924 |
| In Passing Lane Effective Length? | No | Fo | Follower Density, followers/mi/ln | | 2.7 |
| %Improvement to Percent Followers | 0.0 | % | Improvement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, | , ft | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 48.6 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 48.6 | Pe | ercent Followers, | % | 42.9 |
| Segment Travel Time, minutes | 1.23 | A | dj. Follower Dens | sity, followers/mi/ln | 2.7 |
| Vehicle LOS | В | | | | |
| Facility Results | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 66 | 0.06 | | | 2.7 | В |

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2026 Cumulative + Project Morning Weber Rd Eastbound.xuf

| Project | Information | | | | | |
|-------------|--|-----------------------------------|---------------|-----------------------------------|-----------------------------|---|
| Analyst | | James Vorosmarti | | Date | | 4/17/2025 |
| Agency | | Tetra Tech | | Analysis Year | | 2026 |
| Jurisdictio | on | Solano County | Solano County | | | 2026 Cumulative +Project Weekday Morning |
| Project D | escription | Corby BESS Weber Roa Westbound | ad | Units | | U.S. Customary |
| | | Se | egm | nent 1 | | |
| Vehicle | Inputs | | | | | |
| Segment | Туре | Passing Constrained | | Length, ft | | 5280 |
| Measured | d FFS | Measured | | Free-Flow Speed, | mi/h | 48.0 |
| Deman | d and Capacity | | | | | |
| Direction | al Demand Flow Rate, veh/h | 159 | | Opposing Deman | d Flow Rate, veh/h | - |
| Peak Hou | ır Factor | 0.96 | | Total Trucks, % | | 56.00 |
| Segment | Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.09 |
| Interme | ediate Results | | | | | |
| Segment | Vertical Class | 1 | | Free-Flow Speed, mi/h | | 48.0 |
| Speed Slo | ope Coefficient (m) | 4.62517 | | Speed Power Coefficient (p) | | 0.41674 |
| PF Slope | Coefficient (m) | -1.37013 | | PF Power Coefficient (p) | | 0.73417 |
| In Passing | g Lane Effective Length? | No | | Follower Density, followers/mi/In | | 1.0 |
| %Improv | ement to Percent Followers | 0.0 | | %Improvement to | Speed | 0.0 |
| Subseg | ment Data | | | | | |
| # Seg | gment Type | Length, ft | Radi | ius, ft | Superelevation, % | Average Speed, mi/h |
| 1 Tan | igent | 5280 | - | | - | 46.6 |
| Vehicle | Results | | | | | |
| Average | Speed, mi/h | 46.6 | | Percent Followers, | % | 29.9 |
| Segment | Travel Time, minutes | 1.29 | | Adj. Follower Den | sity, followers/mi/ln | 1.0 |
| Vehicle L | OS | A | | | | |
| Facility | Results | | | | | |
| Т | VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 | 38 | 0.02 | | | 1.0 | А |
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2026 Cumulative + Project Morning Weber Rd Westbound.xuf

| Project Information | | | | | |
|-------------------------------------|-------------------------------------|--|----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Dat | e | | 4/17/2025 |
| Agency | Tetra Tech | Ana | alysis Year | | 2024 |
| Jurisdiction | Solano County | | e Analyzed | | 2024 Existing + Project Weekday Afternoon |
| Project Description | Corby BESS Byrnes Roa Northbound | Corby BESS Byrnes Road Units Northbound | | | U.S. Customary |
| | Se | gmen | it 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Zone | Len | igth, ft | | 5280 |
| Measured FFS | Measured | Fre | e-Flow Speed, | mi/h | 59.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 231 | Ор | posing Demano | d Flow Rate, veh/h | 58 |
| Peak Hour Factor | 0.83 | Tot | al Trucks, % | | 13.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.14 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Fre | Free-Flow Speed, mi/h | | 59.0 |
| Speed Slope Coefficient (m) | 4.30253 | Spe | Speed Power Coefficient (p) | | 0.59636 |
| PF Slope Coefficient (m) | -1.16452 | PF I | PF Power Coefficient (p) | | 0.82461 |
| In Passing Lane Effective Length? | No | Foll | ollower Density, followers/mi/ln | | 1.2 |
| %Improvement to Percent Followers | 0.0 | %Ir | nprovement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, f | ft | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 57.7 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 57.7 | Per | cent Followers, | % | 29.4 |
| Segment Travel Time, minutes | 1.04 | | . Follower Dens | sity, followers/mi/ln | 1.2 |
| Vehicle LOS | A | | | | |
| Facility Results | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 48 | 0.02 | | | 1.2 | А |

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2024 Existing + Project Afternoon Byrnes Rd Northbound.xuf

| Project Information | | | | | |
|-------------------------------------|-------------------------------------|---------|-----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Da | te | | 4/17/2025 |
| Agency | Tetra Tech | An | alysis Year | | 2024 |
| Jurisdiction | Solano County | | ne Analyzed | | 2024 Existing + Project Weekday Afternoon |
| Project Description | Corby BESS Byrnes Roa Southbound | d Un | its | | U.S. Customary |
| | Se | egmer | nt 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Zone | Lei | ngth, ft | | 5280 |
| Measured FFS | Measured | Fre | e-Flow Speed, | mi/h | 60.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 87 | Op | posing Deman | d Flow Rate, veh/h | 349 |
| Peak Hour Factor | 0.55 | Tot | tal Trucks, % | | 50.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.05 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Fre | Free-Flow Speed, mi/h | | 60.0 |
| Speed Slope Coefficient (m) | 4.41738 | Sp | Speed Power Coefficient (p) | | 0.50564 |
| PF Slope Coefficient (m) | -1.23439 | PF | PF Power Coefficient (p) | | 0.80769 |
| In Passing Lane Effective Length? | No | Fo | Follower Density, followers/mi/ln | | 0.2 |
| %Improvement to Percent Followers | 0.0 | %I | mprovement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, | ft | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 60.0 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 60.0 | Pe | rcent Followers, | % | 15.8 |
| Segment Travel Time, minutes | 1.00 | | j. Follower Dens | sity, followers/mi/ln | 0.2 |
| Vehicle LOS | A | | | | |
| Facility Results | - | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 12 | 0.00 | | | 0.2 | A |

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2024 Existing + Project Afternoon Byrnes Rd Southbound.xuf

| Project Information | | | | | |
|-------------------------------------|------------------------------------|---------|-----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Da | ate | | 4/17/2025 |
| Agency | Tetra Tech | Ar | nalysis Year | | 2024 |
| Jurisdiction | Solano County | | me Analyzed | | 2024 Existing + Project Weekday Afternoon |
| Project Description | Corby BESS Weber Road Eastbound | | nits | | U.S. Customary |
| | Se | egme | nt 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Constrained | Le | ength, ft | | 5280 |
| Measured FFS | Measured | Fre | ee-Flow Speed, | mi/h | 51.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 178 | O | pposing Demano | d Flow Rate, veh/h | - |
| Peak Hour Factor | 0.81 | То | otal Trucks, % | | 34.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.10 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Fre | Free-Flow Speed, mi/h | | 51.0 |
| Speed Slope Coefficient (m) | 4.62517 | Sp | Speed Power Coefficient (p) | | 0.41674 |
| PF Slope Coefficient (m) | -1.35784 | PF | PF Power Coefficient (p) | | 0.74039 |
| In Passing Lane Effective Length? | No | Fo | Follower Density, followers/mi/In | | 1.1 |
| %Improvement to Percent Followers | 0.0 | % | Improvement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, | , ft | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 49.4 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 49.4 | Pe | ercent Followers, | % | 31.5 |
| Segment Travel Time, minutes | 1.21 | | dj. Follower Dens | sity, followers/mi/ln | 1.1 |
| Vehicle LOS | A | | | | |
| Facility Results | - | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 36 | 0.02 | | | 1.1 | A |

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2024 Existing + Project Afternoon Weber Rd Eastbound.xuf

| Project Information | | | | | |
|-------------------------------------|------------------------------------|---------|-----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Da | ate | | 4/17/2025 |
| Agency | Tetra Tech | Ar | nalysis Year | | 2024 |
| Jurisdiction | Solano County | | me Analyzed | | 2024 Existing + Project Weekday Afternoon |
| Project Description | Corby BESS Weber Road Westbound | | nits | | U.S. Customary |
| | Se | gmei | nt 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Constrained | Le | ength, ft | | 5280 |
| Measured FFS | Measured | Fre | ee-Flow Speed, | mi/h | 48.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 278 | Op | pposing Demano | d Flow Rate, veh/h | - |
| Peak Hour Factor | 0.95 | To | otal Trucks, % | | 28.00 |
| Segment Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.16 |
| Intermediate Results | | | | | |
| Segment Vertical Class | 1 | Fre | Free-Flow Speed, mi/h | | 48.0 |
| Speed Slope Coefficient (m) | 4.62517 | Sp | Speed Power Coefficient (p) | | 0.41674 |
| PF Slope Coefficient (m) | -1.37365 | PF | PF Power Coefficient (p) | | 0.73018 |
| In Passing Lane Effective Length? | No | Fo | Follower Density, followers/mi/ln | | 2.5 |
| %Improvement to Percent Followers | 0.0 | %I | Improvement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, | ft | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 45.7 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 45.7 | Pe | ercent Followers, | % | 41.7 |
| Segment Travel Time, minutes | 1.31 | | dj. Follower Dens | sity, followers/mi/ln | 2.5 |
| Vehicle LOS | В | | | | |
| Facility Results | | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 66 | 0.07 | | | 2.5 | В |

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2024 Existing + Project Afternoon Weber Rd Westbound.xuf

| Project l | nformation | | | | | |
|---------------|--|-------------------------------------|---------------|-----------------------------------|-----------------------------|--|
| rojecti | | | | D : | | 4.47.0005 |
| Analyst | | James Vorosmarti | | Date | | 4/17/2025 |
| Agency | | Tetra Tech | | Analysis Year | | 2026 |
| Jurisdictior | ı | Solano County | Solano County | | | 2026 Cumulative+Project Weekday Afternoon |
| Project Des | scription | Corby BESS Byrnes Roa Northbound | ad | Units | | U.S. Customary |
| | | Se | egm | nent 1 | | |
| Vehicle I | nputs | | | | | |
| Segment T | уре | Passing Zone | | Length, ft | | 5280 |
| Measured | FFS | Measured | | Free-Flow Speed, | mi/h | 59.0 |
| Demand | and Capacity | | | | | |
| Directional | l Demand Flow Rate, veh/h | 234 | | Opposing Deman | d Flow Rate, veh/h | 60 |
| Peak Hour | Factor | 0.83 | | Total Trucks, % | | 14.00 |
| Segment C | Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.14 |
| Intermed | diate Results | | | | | |
| Segment V | /ertical Class | 1 | | Free-Flow Speed, mi/h | | 59.0 |
| Speed Slop | pe Coefficient (m) | 4.30416 | | Speed Power Coefficient (p) | | 0.59487 |
| PF Slope C | oefficient (m) | -1.16572 | | PF Power Coefficient (p) | | 0.82436 |
| In Passing | Lane Effective Length? | No | | Follower Density, followers/mi/ln | | 1.2 |
| %Improver | ment to Percent Followers | 0.0 | | %Improvement to Speed | | 0.0 |
| Subsegm | nent Data | | | | | |
| # Segn | nent Type | Length, ft | Radi | ius, ft | Superelevation, % | Average Speed, mi/h |
| 1 Tang | lent | 5280 | - | | - | 57.7 |
| Vehicle R | Results | | | | | |
| Average Sp | peed, mi/h | 57.7 | | Percent Followers, | % | 29.7 |
| Segment T | ravel Time, minutes | 1.04 | | Adj. Follower Den | sity, followers/mi/ln | 1.2 |
| Vehicle LOS | S | A | | | | |
| Facility R | Results | | | | | |
| т | VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 | 49 | 0.02 | | | 1.2 | А |
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2026 Cumulative + Project Afternoon Byrnes Rd Northbound.xuf

| Project Information | | | | | |
|-------------------------------------|-------------------------------------|-----------|-----------------------------------|-----------------------------|--|
| Analyst | James Vorosmarti | Dat | e | | 4/17/2025 |
| Agency | Tetra Tech | Ana | alysis Year | | 2026 |
| Jurisdiction | Solano County | Tim | e Analyzed | | 2026 Cumulative + Project Weekday Afternoon |
| Project Description | Corby BESS Byrnes Roa Southbound | id Uni | ts | | U.S. Customary |
| | Se | egmen | t 1 | | |
| Vehicle Inputs | | | | | |
| Segment Type | Passing Zone | Len | gth, ft | | 5280 |
| Measured FFS | Measured | Free | e-Flow Speed, | mi/h | 60.0 |
| Demand and Capacity | | | | | |
| Directional Demand Flow Rate, veh/h | 91 | Ор | posing Deman | d Flow Rate, veh/h | 353 |
| Peak Hour Factor | 0.55 | Tota | Total Trucks, % | | 52.00 |
| Segment Capacity, veh/h | 1700 | Der | Demand/Capacity (D/C) | | 0.05 |
| Intermediate Results | - | | | | |
| Segment Vertical Class | 1 | Free | Free-Flow Speed, mi/h | | 60.0 |
| Speed Slope Coefficient (m) | 4.41838 | Spe | Speed Power Coefficient (p) | | 0.50497 |
| PF Slope Coefficient (m) | -1.23472 | PF I | PF Power Coefficient (p) | | 0.80779 |
| In Passing Lane Effective Length? | No | Foll | Follower Density, followers/mi/ln | | 0.2 |
| %Improvement to Percent Followers | 0.0 | %In | nprovement to | Speed | 0.0 |
| Subsegment Data | | | | | |
| # Segment Type | Length, ft | Radius, f | ť | Superelevation, % | Average Speed, mi/h |
| 1 Tangent | 5280 | - | | - | 60.0 |
| Vehicle Results | | | | | |
| Average Speed, mi/h | 60.0 | Per | cent Followers, | % | 16.3 |
| Segment Travel Time, minutes | 1.00 | Adj | . Follower Den | sity, followers/mi/ln | 0.2 |
| Vehicle LOS | A | | | | |
| Facility Results | - - | | | | |
| T VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 13 | 0.00 | | 0.2 | | А |

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2026 Cumulative + Project Afternoon Byrnes Rd Southbound.xuf

| Project | Information | | | | | |
|-------------|--|-----------------------------------|----------|-----------------------------------|-----------------------------|--|
| Analyst | | James Vorosmarti | [| Date | | 4/17/2025 |
| Agency | | Tetra Tech | ŀ | Analysis Year | | 2024 |
| Jurisdicti | on | Solano County | 1 | Time Analyzed | | 2026 Cumulative + Project Weekday Afternoon |
| Project D | Description | Corby BESS Weber Roa Eastbound | ad l | Jnits | | U.S. Customary |
| | | Se | egme | ent 1 | | |
| Vehicle | Inputs | | | | | |
| Segment | t Туре | Passing Constrained | L | _ength, ft | | 5280 |
| Measure | d FFS | Measured | F | Free-Flow Speed, | mi/h | 51.0 |
| Deman | d and Capacity | | | | | |
| Direction | nal Demand Flow Rate, veh/h | 201 | (| Opposing Deman | d Flow Rate, veh/h | - |
| Peak Hou | ur Factor | 0.81 | 1 | Fotal Trucks, % | | 42.00 |
| Segment | t Capacity, veh/h | 1700 | C | Demand/Capacity (D/C) | | 0.12 |
| Interm | ediate Results | - | | | | |
| Segment | t Vertical Class | 1 | F | Free-Flow Speed, mi/h | | 51.0 |
| Speed Sl | ope Coefficient (m) | 4.62517 | 5 | Speed Power Coefficient (p) | | 0.41674 |
| PF Slope | Coefficient (m) | -1.35685 | F | PF Power Coefficient (p) | | 0.74153 |
| In Passin | g Lane Effective Length? | No | F | Follower Density, followers/mi/ln | | 1.4 |
| %Improv | vement to Percent Followers | 0.0 | ç | %Improvement to | Speed | 0.0 |
| Subseg | jment Data | | | | | |
| # Seg | gment Type | Length, ft | Radiu | ıs, ft | Superelevation, % | Average Speed, mi/h |
| 1 Tar | ngent | 5280 | - | | - | 49.2 |
| Vehicle | Results | | | | | |
| Average | Speed, mi/h | 49.2 | F | Percent Followers, | % | 33.8 |
| Segment | t Travel Time, minutes | 1.22 | | Adj. Follower Den | sity, followers/mi/ln | 1.4 |
| Vehicle L | OS | A | | | | |
| Facility | ⁷ Results | | | | | |
| Т | VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 | 41 | 0.03 | | | 1.4 | А |
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2026 Cumulative + Project Afternoon Weber Rd Eastbound.xuf

| | | | _ | | | |
|-------------|--|-----------------------------------|---------------|-----------------------------------|-----------------------------|---|
| Project | Information | | | | | |
| Analyst | | James Vorosmarti | | Date | | 4/17/2025 |
| Agency | | Tetra Tech | | Analysis Year | | 2026 |
| Jurisdicti | on | Solano County | Solano County | | | 2026 Cumulative +Project Weekday Afternoon |
| Project D | Description | Corby BESS Weber Roa Westbound | ad | Units | | U.S. Customary |
| | | Se | egm | ent 1 | | |
| Vehicle | Inputs | | | | | |
| Segment | t Туре | Passing Constrained | | Length, ft | | 5280 |
| Measure | d FFS | Measured | | Free-Flow Speed, | mi/h | 48.0 |
| Deman | d and Capacity | | | | | |
| Directior | nal Demand Flow Rate, veh/h | 298 | | Opposing Deman | d Flow Rate, veh/h | - |
| Peak Hou | ur Factor | 0.95 | | Total Trucks, % | | 33.00 |
| Segment | t Capacity, veh/h | 1700 | | Demand/Capacity (D/C) | | 0.18 |
| Interm | ediate Results | | | | | |
| Segment | t Vertical Class | 1 | | Free-Flow Speed, mi/h | | 48.0 |
| Speed SI | ope Coefficient (m) | 4.62517 | | Speed Power Coefficient (p) | | 0.41674 |
| PF Slope | Coefficient (m) | -1.37302 | | PF Power Coefficient (p) | | 0.73089 |
| In Passin | g Lane Effective Length? | No | | Follower Density, followers/mi/ln | | 2.8 |
| %Improv | vement to Percent Followers | 0.0 | | %Improvement to | Speed | 0.0 |
| Subseg | ment Data | | | | | |
| # Se | gment Type | Length, ft | Radiu | us, ft | Superelevation, % | Average Speed, mi/h |
| 1 Tar | ngent | 5280 | - | | - | 45.6 |
| Vehicle | Results | | | | | |
| Average | Speed, mi/h | 45.6 | | Percent Followers, | % | 43.3 |
| Segment | t Travel Time, minutes | 1.31 | | Adj. Follower Den | sity, followers/mi/ln | 2.8 |
| Vehicle L | .OS | В | | | | |
| Facility | ⁷ Results | | | | | |
| Т | VMT veh-mi/AP | VHD veh-h/p | | Follower De | ensity, followers/ mi/ln | LOS |
| 1 | 71 | 0.08 | | | 2.8 | В |
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APPENDIX 3.17-D: DAILY VMT SUMMARY

Corby Battery Energy Storage System Project Total Project Vehicle Miles Traveled Summary

| | | | | Total | Project | Vehicle | Miles Tr | aveled S | ummar | Y | | | | | | |
|---|--|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| _ | Month 0 Feb-26 | Month 1 Mar-26 | Month 2 Apr-26 | Month 3 May-26 | Month 4 Jun-26 | Month 5 Jul-26 | Month 6 Aug-26 | Month 7 Sep-26 | Month 8 Oct-26 | Month 9 Nov-26 | Month 10 Dec-26 | Month 11 Jan-27 | Month 12 Feb-27 | Month 13 Mar-27 | Month 14 Apr-27 | Total Worker Vehicle Miles Traveled |
| Workdays per month 20 23 23 21 22 22 22 21 20 22 20 21 24 24 24 Average Daily Workforce 4 12 49 52 61 71 78 131 115 129 126 132 106 80 64 | | | | | | | | | | | | | | | | |
| Workdays per month ZU Z3 Z3 Z1 Z2 Z2 Z1 Z0 Z2 Z1 Z0 Z1 Z4 Z2 Average Daily Workfore 4 12 49 52 61 71 78 131 115 129 126 123 160 80 64 | | | | | | | | | | | | | | | | |
| Average Daily Total Worker VMT | Average Daily Workforce 4 12 49 52 61 71 78 131 115 129 126 126 80 64 Average Daily Workforce 49 520 61 78 131 115 129 126 123 106 80 64 Average Daily Total Worker VMT 189 560 2247 2357 2776 3283 3537 5955 5201 5890 5762 5611 4845 3647 2914 | | | | | | | | | | | | | | | |
| Daily Worker VMT per Capita | Average Daily Total Worker VMT 189 560 2247 2357 2776 3283 3537 5955 5201 5890 5762 5611 4845 3647 2914 Daily Worker VMT per Capita 47.3 46.7 45.3 46.2 45.3 45.5 45.2 45.7 45.6 45.6 45.5 45.7 | | | | | | | | | | | | | | | |
| Daily Worker VMI per Capita 47.3 46.7 45.9 45.3 46.2 45.3 45.5 45.7 45.6 45.7 45.7 45.6 45.7 45.6 45.7 45.6 45.7 <t< td=""><td>1,179,346</td></t<> | | | | | | | | | | | | | | | 1,179,346 | |
| | | | | | | | | | | | | | | | | |
| Average Daily Trucks on Site | 2 | 20 | 89 | 106 | 120 | 65 | 65 | 101 | 101 | 132 | 97 | 31 | 34 | 30 | 30 | |
| Average Daily Total Truck VMT | 52 | 676 | 4075 | 4766 | 6568 | 2625 | 2625 | 3812 | 3812 | 4924 | 3565 | 1058 | 1013 | 897 | 897 | |
| Daily VMT per Truck | 26.0 | 33.8 | 45.8 | 45.0 | 54.7 | 40.4 | 40.4 | 37.7 | 37.7 | 37.3 | 36.8 | 34.1 | 29.8 | 29.9 | 29.9 | |
| Average Monthly Total Truck VMT | 1,040 | 15,548 | 93,725 | 100,076 | 144,496 | 57,739 | 57,739 | 83,864 | 80,052 | 98,470 | 78,430 | 21,150 | 21,263 | 21,528 | 19,734 | 894,853 |
| | | | | | | | | | | | | | | | | |
| Average Daily Total Combined VMT | 241 | 1,236 | 6,322 | 7,123 | 9,344 | 5,908 | 6,162 | 9,767 | 9,013 | 10,814 | 9,327 | 6,669 | 5,858 | 4,544 | 3,811 | |
| Average Monthly Total Combined VMT | 4,820 | 28,428 | 145,406 | 149,573 | 205,568 | 129,965 | 135,553 | 214,874 | 189,273 | 216,270 | 205,194 | 133,370 | 123,008 | 109,056 | 83,842 | 2,074,199 |

Note: Workdays per month exclude Federal Holidays; Average Daily Workforce and Truck Estimates provided by Project Applicant

| | | | | | | | Corby Bat | tery Energy | y Storage S | ystem Pro | ject | | | | | | | |
|------------------------------|------------------------|----------------------|---------|---------|---------|---------|-----------|--------------|-------------|------------|---------|---------|----------|----------|----------|----------|----------|--------------------|
| | | | | | | | Worker Ve | ehicle Miles | Traveled | to/from He | ome | | | | | | | |
| | | | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | Total Worker |
| | We | orkdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Commuting Vehicle |
| | Average Daily Workforc | e Commuting Trips | 8 | 22 | 90 | 94 | 110 | 130 | 142 | 238 | 208 | 234 | 230 | 224 | 194 | 146 | 116 | - ivilies traveled |
| | Distance to Site | Worker Population | | | | | | | | | | | | | | | | |
| Town/City | (miles) | Residency | | | | | | | | | | | | | | | | |
| Vacaville, California | 7 | 15.46% | 2 | 3 | 14 | 15 | 16 | 19 | 22 | 37 | 32 | 36 | 36 | 35 | 31 | 23 | 18 | |
| Dixon, California | 7 | 3.19% | 0 | 1 | 3 | 3 | 4 | 4 | 5 | 8 | 7 | 7 | 7 | 7 | 6 | 5 | 4 | |
| Fairfield, California | 15 | 13.26% | 1 | 3 | 12 | 12 | 14 | 17 | 19 | 32 | 28 | 31 | 30 | 30 | 26 | 19 | 15 | |
| Cordelia, California | 20 | 5.00% | 0 | 1 | 5 | 5 | 6 | 7 | 7 | 12 | 10 | 12 | 12 | 11 | 10 | 7 | 6 | |
| Napa, California | 34 | 4.32% | 0 | 1 | 4 | 4 | 5 | 6 | 6 | 10 | 9 | 10 | 10 | 10 | 8 | 6 | 5 | |
| Vallejo, California | 31 | 13.57% | 1 | 3 | 12 | 13 | 15 | 18 | 19 | 32 | 28 | 32 | 31 | 30 | 26 | 20 | 16 | |
| Rodeo, California | 36 | 0.71% | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | |
| Davis, California | 15 | 8.93% | 1 | 2 | 8 | 8 | 10 | 12 | 13 | 21 | 19 | 21 | 21 | 20 | 17 | 13 | 10 | |
| Sacramento, California | 30 | 26.02% | 3 | 6 | 23 | 25 | 27 | 33 | 36 | 61 | 54 | 61 | 60 | 58 | 50 | 38 | 29 | |
| Woodland, California | 24 | 6.14% | 0 | 1 | 6 | 6 | 7 | 8 | 9 | 15 | 13 | 14 | 14 | 14 | 12 | 9 | 7 | |
| Rio Vista, California | 27 | 0.52% | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Esparto, California | 30 | 0.52% | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| Concord, California | 40 | 2.36% | 0 | 1 | 2 | 2 | 3 | 3 | 3 | 6 | 5 | 6 | 5 | 5 | 5 | 3 | 3 | |
| Weighted Average Trip Length | 22.1 | 100.00% | | | | | | | | | | | | | | | | |
| | Average Daily Wo | orker Commuting VMT | 165 | 494 | 1,977 | 2,075 | 2,446 | 2,893 | 3,111 | 5,241 | 4,577 | 5,188 | 5,072 | 4,939 | 4,263 | 3,209 | 2,566 | |
| | Average Monthly Wo | orker Commuting VMT | 3,300 | 11,362 | 45,471 | 43,575 | 53,812 | 63,646 | 68,442 | 115,302 | 96,117 | 103,760 | 111,584 | 98,780 | 89,523 | 77,016 | 56,452 | 1,038,142 |

Note: Workdays per month exclude Federal Holidays. Worker Population Residency based on US Census Workforce population levels. Average Daily Workforce levels provided by Project Applicant. Distance to Site Measured from approximate city population centroid.

| | | | | | | | Corby Bat Worker Ve | tery Energy hicle Miles | y Storage S Traveled | öystem Proj to/From Lu | ject Inch | | | | | | | |
|---------------------|-----------------------------|----------------------------|---------|---------|---------|---------|------------------------|----------------------------|-------------------------|---------------------------|--------------|---------|----------|----------|----------|----------|----------|---------------------|
| | | | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | Total Worker Lunch |
| | Wa | orkdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Break Vehicle Miles |
| | Average Daily Workforce | Lunch Break Trips | 8 | 22 | 90 | 94 | 110 | 130 | 142 | 238 | 208 | 234 | 230 | 224 | 194 | 146 | 116 | Traveleu |
| Town/City | Distance to Site (miles) | Worker Route Assignment | | | | | | | | | | | | | | | | |
| Local Roadways | 3 | 100.00% | 8 | 22 | 90 | 94 | 110 | 130 | 142 | 238 | 208 | 234 | 230 | 224 | 194 | 146 | 116 | |
| Average Trip Length | 3.0 | 100.00% | | | | | | | | | | | | | | | | |
| | Average Daily Wor | ker Lunch Break VMT | 24 | 66 | 270 | 282 | 330 | 390 | 426 | 714 | 624 | 702 | 690 | 672 | 582 | 438 | 348 | |
| | Average Monthly Wor | ker Lunch Break VMT | 480 | 1,518 | 6,210 | 5,922 | 7,260 | 8,580 | 9,372 | 15,708 | 13,104 | 14,040 | 15,180 | 13,440 | 12,222 | 10,512 | 7,656 | 141,204 |

Note: Workdays per month exclude Federal Holidays. Average Daily Workforce levels provided by Project Applicant. Due to the proximity of retail and restaurants to the Site, three mile trips were assumed for lunch breaks, additionally all workers are expected to leave the site for lunch.

Source: Tetra Tech

P:\67639\143-67639-24014\SupportDocs\Calcs\VMT Analysis\Corby BESS VMT & Gravity Model 2025.04.16.xlsx

| | | | | | | | Corby Bat Vendo | tery Energ or Trucks V | y Storage S ehicle Mile | System Pro es Traveled | ject | | | | | | | |
|------------------------------|------------------|---------------------------|---------|---------|---------|---------|--------------------|---------------------------|----------------------------|---------------------------|---------|---------|----------|----------|----------|----------|----------|--------------------|
| | | | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | Total Vandar Truck |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | Vohiclo Milos |
| | Wo | orkdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Traveled |
| | Average Daily \ | /endor Truck Trips | 0 | 8 | 24 | 46 | 46 | 70 | 70 | 86 | 86 | 106 | 76 | 20 | 42 | 40 | 40 | Traveleu |
| T | Distance to Site | Truck Route Assignment | | | | | | | | | | | | | | | | |
| | (miles) | 45.460/ | 0 | 2 | 4 | 0 | 0 | 12 | 12 | 12 | 12 | 10 | 12 | 2 | 7 | 7 | 7 | |
| Vacaville, California | / | 15.46% | 0 | 2 | 4 | 8 | 8 | 12 | 12 | 13 | 13 | 16 | 12 | 3 | / | / | / | |
| Dixon, California | / | 3.19% | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | |
| Fairfield, California | 15 | 13.26% | 0 | 1 | 3 | 6 | 6 | g | g | 11 | 11 | 14 | 10 | 3 | 6 | 5 | 5 | |
| Cordelia, California | 20 | 5.00% | 0 | 0 | 1 | 2 | 2 | 4 | 4 | 4 | 4 | 5 | 4 | 1 | 2 | 2 | 2 | |
| Napa, California | 34 | 4.32% | 0 | 0 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 3 | 1 | 2 | 2 | 2 | |
| Vallejo, California | 31 | 13.57% | 0 | 1 | 3 | 6 | 6 | 9 | 9 | 12 | 12 | 14 | 10 | 3 | 6 | 5 | 5 | |
| Rodeo, California | 36 | 0.71% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | |
| Davis, California | 15 | 8.93% | 0 | 1 | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 9 | 7 | 2 | 4 | 4 | 4 | |
| Sacramento, California | 30 | 26.02% | 0 | 3 | 7 | 13 | 13 | 19 | 19 | 23 | 23 | 27 | 20 | 5 | 11 | 11 | 11 | |
| Woodland, California | 24 | 6.14% | 0 | 0 | 1 | 3 | 3 | 4 | 4 | 5 | 5 | 7 | 5 | 1 | 3 | 2 | 2 | |
| Rio Vista, California | 27 | 0.52% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| Esparto, California | 30 | 0.52% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| Concord, California | 40 | 2.36% | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 2 | 0 | 0 | 1 | 1 | |
| Weighted Average Trip Length | 22.1 | 100.00% | | | | | | | | | | | | | | | | |
| | Average Da | ily Vendor Truck VMT | 0 | 165 | 531 | 1,009 | 1,009 | 1,530 | 1,530 | 1,911 | 1,911 | 2,373 | 1,681 | 424 | 902 | 872 | 872 | |
| | Average Month | nly Vendor Truck VMT | 0 | 3,795 | 12,213 | 21,189 | 22,198 | 33,660 | 33,660 | 42,042 | 40,131 | 47,460 | 36,982 | 8,480 | 18,942 | 20,928 | 19,184 | 360,864 |

Note: Workdays per month exclude Federal Holidays. Average Daily Vendor Trucks provided by Project Applicant. Due to the availibility of construction materials near population centers, vendor truck trips were assigned to the same distribution patterns as the construction workforce

Corby Battery Energy Storage System Project Hauling Trucks Vehicle Miles Traveled

| | | | | | | | | 0 | •••••• | | | | | | | | | |
|------------------------------|------------------|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|------------------|
| | | | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | Total Haul Truck |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | Vohiclo Milos |
| | Wo | rkdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Travolod |
| | Average Dail | y Haul Truck Trips | 3 | 23 | 40 | 50 | 50 | 50 | 50 | 80 | 80 | 108 | 78 | 28 | 4 | 0 | 0 | Haveleu |
| | Distance to Site | Truck Route | | | | | | | | | | | | | | | | |
| Town/City | (miles) | Assignment | | | | | | | | | | | | | | | | |
| Vacaville, California | 7 | 15.46% | 1 | 4 | 7 | 8 | 8 | 8 | 8 | 12 | 12 | 17 | 12 | 4 | 1 | 0 | 0 | |
| Dixon, California | 7 | 3.19% | 0 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 1 | 0 | 0 | 0 | |
| Fairfield, California | 15 | 13.26% | 1 | 3 | 5 | 7 | 7 | 7 | 7 | 11 | 11 | 14 | 10 | 4 | 1 | 0 | 0 | |
| Cordelia, California | 20 | 5.00% | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 5 | 4 | 1 | 0 | 0 | 0 | |
| Napa, California | 34 | 4.32% | 0 | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 5 | 3 | 1 | 0 | 0 | 0 | |
| Vallejo, California | 31 | 13.57% | 0 | 3 | 5 | 7 | 7 | 7 | 7 | 11 | 11 | 15 | 11 | 4 | 1 | 0 | 0 | |
| Rodeo, California | 36 | 0.71% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | |
| Davis, California | 15 | 8.93% | 0 | 2 | 4 | 4 | 4 | 4 | 4 | 7 | 7 | 10 | 7 | 3 | 0 | 0 | 0 | |
| Sacramento, California | 30 | 26.02% | 1 | 6 | 11 | 13 | 13 | 13 | 13 | 21 | 21 | 26 | 21 | 7 | 1 | 0 | 0 | |
| Woodland, California | 24 | 6.14% | 0 | 1 | 2 | 3 | 3 | 3 | 3 | 5 | 5 | 7 | 5 | 2 | 0 | 0 | 0 | |
| Rio Vista, California | 27 | 0.52% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| Esparto, California | 30 | 0.52% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| Concord, California | 40 | 2.36% | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 2 | 1 | 0 | 0 | 0 | |
| Weighted Average Trip Length | 22.1 | 100.00% | | | | | | | | | | | | | | | | |
| | Average [| Daily Haul Truck VMT | 52 | 501 | 872 | 1,082 | 1,082 | 1,082 | 1,082 | 1,764 | 1,764 | 2,396 | 1,742 | 616 | 83 | 0 | 0 | |
| | Average Mon | thly Haul Truck VMT | 1,040 | 11,523 | 20,056 | 22,722 | 23,804 | 23,804 | 23,804 | 38,808 | 37,044 | 47,920 | 38,324 | 12,320 | 1,743 | 0 | 0 | 302,912 |

Note: Workdays per month exclude Federal Holidays. Average Daily Haul Trucks provided by Project Applicant. Due to the availibility of construction materials near population centers, haul truck trips were assigned to the same distribution patterns as the construction workforce.

| | | | | | | | Corby Bat Onsite | tery Energ e Trucks Ve | y Storage S ehicle Miles | ystem Proj s Traveled | ject | | | | | | | |
|---------------------|--|----------------------|---|-----|-------|-------|---------------------|---------------------------|-----------------------------|--------------------------|------|-----|-----|-----|-----|---------------------|---------------|----------|
| | Month 0 Month 1 Month 2 Month 3 Month 4 Month 5 Month 6 Month 7 Month 8 Month 9 Month 10 Month 12 Month 13 Month 13 Month 14 Feb-26 Mar-26 Apr-26 May-26 Jun-26 Jul-26 Aug-26 Sep-26 Oct-26 Nov-26 Jan-27 Feb-27 Mar-27 Apr-27 | | | | | | | | | | | | | | | Total On-Site Truck | | |
| | Feb-26 Mar-26 Apr-26 May-26 Jun-26 Jul-26 Aug-26 Sep-26 Oct-26 Nov-26 Jan-27 Feb-27 Mar-27 Apr Workdays per month 20 23 21 22 22 22 21 20 22 20 21 20 21 24 24 24 | | | | | | | | | | | | | | | Apr-27 | Vehicle Miles | |
| | Workdays per month 20 23 23 21 22 22 22 21 20 22 21 24 | | | | | | | | | | | | | | | 22 | Traveled | |
| | Average Daily C | On-Site Truck Trips | 0 | 8 | 48 | 50 | 52 | 10 | 10 | 20 | 20 | 34 | 24 | 14 | 22 | 20 | 20 | Traveleu |
| | Average Daily On-Site Truck Trips 0 8 48 50 52 10 10 20 34 24 14 22 20 Distance to Site Truck Route Image: Construct Truck T | | | | | | | | | | | | | | | | | |
| Town/City | (miles) | Assignment | | | | | | | | | | | | | | | | |
| Local Roadways | 1.25 | 100.00% | 0 | 8 | 48 | 50 | 52 | 10 | 10 | 20 | 20 | 34 | 24 | 14 | 22 | 20 | 20 | |
| Average Trip Length | 1.25 | 100.00% | | | | | | | | | | | | | | | | |
| | Average Dai | ly On-Site Truck VMT | 0 | 10 | 60 | 63 | 65 | 13 | 13 | 25 | 25 | 43 | 30 | 18 | 28 | 25 | 25 | |
| | Average Month | ly On-Site Truck VMT | 0 | 230 | 1,380 | 1,313 | 1,430 | 275 | 275 | 550 | 525 | 850 | 660 | 350 | 578 | 600 | 550 | 9,565 |

Note: Workdays per month exclude Federal Holidays. Average Daily On-Site Trucks provided by Project Applicant. Due to the location of the Site Driveways, on-site truck trips were conservatively assigned 1.25 miles on the local roadways.

Corby Battery Energy Storage System Project Import Fill Trucks Vehicle Miles Traveled

| | | | | | | | | | | | - | | | | | | | |
|---------------------|-------------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|----------|----------|-------------------|
| | | | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | Total Import Fill |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | |
| | Wo | orkdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Travolod |
| | Average Daily Imp | ort Fill Truck Trips | 0 | 0 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Taveleu |
| | Distance to Site | Truck Route | | | | | | | | | | | | | | | 1 | |
| | (miles) | Assignment | | | | | | | | | | | | | | | | |
| | 50 | 100.00% | 0 | 0 | 50 | 50 | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Average Trip Length | 50.0 | 100.00% | | | | | | | | | | | | | | | 1 | |
| | Average Daily | Import Fill Truck VMT | 0 | 0 | 2,500 | 2,500 | 2,500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Average Monthly | Import Fill Truck VMT | 0 | 0 | 57,500 | 52,500 | 55,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165,000 |
| | | | | | | | | | | | | | | | | | | |

Note: Workdays per month exclude Federal Holidays. Average Daily Import FIII Trucks provided by Project Applicant. Import Fill Truck travel distance provided by Project Applicant.

| | | | | | | | Corby Bat Wate | tery Energy r Trucks Ve | y Storage S hicle Miles | ystem Proj Traveled | ect | | | | | | | |
|---------------------|------------------|---------------------|---------|---------|---------|---------|-------------------|----------------------------|----------------------------|------------------------|---------|---------|----------|----------|----------|----------|----------|-------------------|
| | | | Month 0 | Month 1 | Month 2 | Month 3 | Month 4 | Month 5 | Month 6 | Month 7 | Month 8 | Month 9 | Month 10 | Month 11 | Month 12 | Month 13 | Month 14 | Total Water Truck |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | Vehicle Miles |
| | Wor | kdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Traveled |
| | Average Daily \ | Water Truck Trips | 0 | 0 | 16 | 16 | 16 | 0 | 0 | 16 | 16 | 16 | 16 | 0 | 0 | 0 | 0 | Traveleu |
| | Distance to Site | Truck Route | | | | | | | | | | | | | | | | |
| | (miles) | Assignment | | | | | | | | | | | | | | | | |
| | 7 | 100.00% | 0 | 0 | 16 | 16 | 16 | 0 | 0 | 16 | 16 | 16 | 16 | 0 | 0 | 0 | 0 | |
| Average Trip Length | 7.0 | 100.00% | | | | | | | | | | | | | | | | |
| | Average Dai | ily Water Truck VMT | 0 | 0 | 112 | 112 | 112 | 0 | 0 | 112 | 112 | 112 | 112 | 0 | 0 | 0 | 0 | |
| | Average Month | ly Water Truck VMT | 0 | 0 | 2,576 | 2,352 | 2,464 | 0 | 0 | 2,464 | 2,352 | 2,240 | 2,464 | 0 | 0 | 0 | 0 | 16,912 |

Note: Workdays per month exclude Federal Holidays. Average Daily Water Trucks provided by Project Applicant. Water Truck travel distance provided by Project Applicant.

| | | | | | | H | Corby Bat lauling (Bio | tery Energ omass) Tru | y Storage S cks Vehicle | ystem Proj Miles Trav | ject veled | | | | | | | |
|--|-----------------------|---------------------|--------|--------|--------|--------|---------------------------|--------------------------|----------------------------|--------------------------|---------------|--------|--------|--------|---------------|--------|--------|-----------------|
| Month 0 Month 1 Month 2 Month 3 Month 4 Month 5 Month 6 Month 7 Month 8 Month 9 Month 10 Month 12 Month 13 Month 14 5xb 26 Max 27 | | | | | | | | | | | | | | | Total Hauling | | | |
| | | | Feb-26 | Mar-26 | Apr-26 | May-26 | Jun-26 | Jul-26 | Aug-26 | Sep-26 | Oct-26 | Nov-26 | Dec-26 | Jan-27 | Feb-27 | Mar-27 | Apr-27 | (Biomass) Truck |
| | Wa | orkdays per month | 20 | 23 | 23 | 21 | 22 | 22 | 22 | 22 | 21 | 20 | 22 | 20 | 21 | 24 | 22 | Vehicle Miles |
| Avera | ge Daily Hauling (Bio | omass) Truck Trips | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Traveled |
| | Distance to Site | Truck Route | | | | | | | | | | | | | | | | |
| | (miles) | Assignment | | | | | | | | | | | | | | | | |
| | 50 | 100.00% | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Average Trip Length | 50.0 | 100.00% | | | | | | | | | | | | | | | | |
| | Average Daily Hauling | (Biomass) Truck VMT | 0 | 0 | 0 | 0 | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ave | erage Monthly Hauling | (Biomass) Truck VMT | 0 | 0 | 0 | 0 | 39,600 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39,600 |

Note: Workdays per month exclude Federal Holidays. Average Daily Hauling (Biomass) Trucks provided by Project Applicant. Hauling (Biomass) Truck travel distance provided by Project Applicant.