

April 14, 2026

Rainbow Industrial Park:

Traffic Impact Assessment (TIA):

PREPARED FOR:

Modus Holdings



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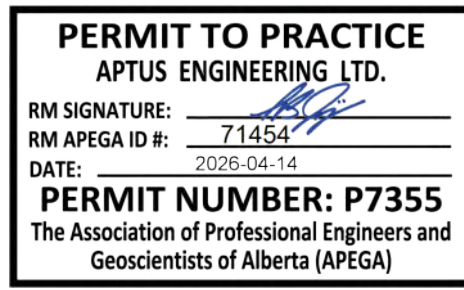
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Corporate Authorization

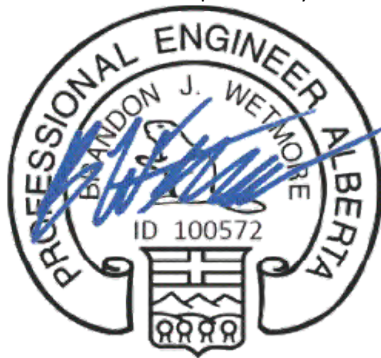
This study entitled “Rainbow Industrial Park – Traffic Impact Assessment” was prepared by Aptus Engineering Ltd. for Modus Holdings.

The design and recommendations put forward reflect Aptus’ best professional judgment based on the information available at the time of preparing this report. Any use of this information in a manner not intended or with the knowledge that situations have changed shall not be the responsibility of Aptus Engineering Ltd.



Corporate Permit

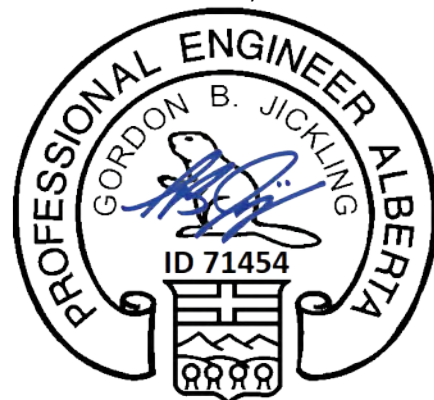
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2026-04-14

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1.0 Executive Summary

Modus Holdings is proposing to build an Industrial subdivision at NE23-29-1-W5 (51° 30' 2.94" N, 114° 1' 52.26" W) called the Rainbow Industrial Park. The location of the industrial park is approximately 8km south of Carstairs on Highway 2A. The Industrial Park would access onto Highway 2A, via Rainbow Drive and Township Road 294/Rainbow Road.

The proposed Rainbow Industrial Park will be accessed via two existing intersections on Highway 2A, at Rainbow Drive and Township Road 294. Both of which are currently configured as Type II intersections. Traffic associated with Phase 1 of the development does not warrant any intersection improvements, and capacity analysis indicates that both intersections will continue to operate effectively under these conditions.

With the addition of Phase 2 traffic, combined with projected background growth on Highway 2A, the intersections may meet the warrants for a Type III configuration. However, capacity modelling indicates that both intersections are expected to operate within acceptable limits under the 2050 ultimate scenario without upgrades.

Given that the projected traffic volumes exceed those currently observed from existing industrial development in the area, it is recommended that Phase 1 proceed without modification. Prior to advancing Phase 2, a review of actual traffic volumes at these intersections should be completed to confirm whether upgrades to a Type III configuration are required.

Signalization and illumination are not anticipated to be necessary at either intersection. Access to the Highway 2A and Township Road 294 intersection will be supported by constructing the Rainbow Road and Township Road 294 intersection as a Type I intersection, rather than limiting it to emergency access. Traffic volumes at this location are expected to remain low, with no anticipated capacity concerns.

TIA Summary Chart

| | | | |
|----------------|---|-------------------|------------------------|
| Date | April 10, 2026 | Consultant | Aptus Engineering Ltd. |
| Project | Traffic Impact Assessment - Rainbow Industrial Park | | |

Site Information

| | | | |
|---|----------------------------|-------------------------|-------|
| Development Type | Industrial Park | | |
| Highway No. | 2A | Control Section | 2A:12 |
| Legal Land Description | NE23-29-1-W5 | | |
| Posted Speed | 100 | Design Speed | 110 |
| Design Vehicle (include turning templates in appendix) | WB-21/WB-23 | | |
| Sight Distance Available | 500m | Min. Requirement | 220m |
| Lane Configuration | 1 Northbound, 1 Southbound | | |
| Existing Right of Way Width | 50m | | |

Warrants

| | Existing | Improvement Required | |
|--------------------------------------|----------|----------------------|----------|
| | | Interim | Ultimate |
| Year | 2026 | 2027 | 2030 |
| Left Turn Lane | Type II | Type II | Type III |
| Right Turn Lane | Type II | Type II | Type III |
| Signal/Roundabout | N/A | No | No |
| Illumination (please specify) | None | None | None |
| Pedestrian | None | None | None |

Intersection Treatment

| | Existing | Proposed |
|------------------------------------|-----------------|------------------|
| Intersection Treatment Type | Typical Type II | Typical Type III |
| Additional Modifications | N/A | None |
| Design Constraints | N/A | N/A |

Additional Comments

Existing Intersections of Hwy 2A/Rainbow Drive and Highway 2A/Twp Rd 294 are a Typical Type II intersection. No improvements are required for Phase 1 of the development. The traffic volumes should be analyzed prior to the construction of Phase 2 to determine if an upgrade to a Type III is required.

Disclaimer: Please note this chart does not summarize all of the guideline requirements and does not mean the categories not listed here can be excluded from the TIA

2.0 Introduction & Proposed Development Information

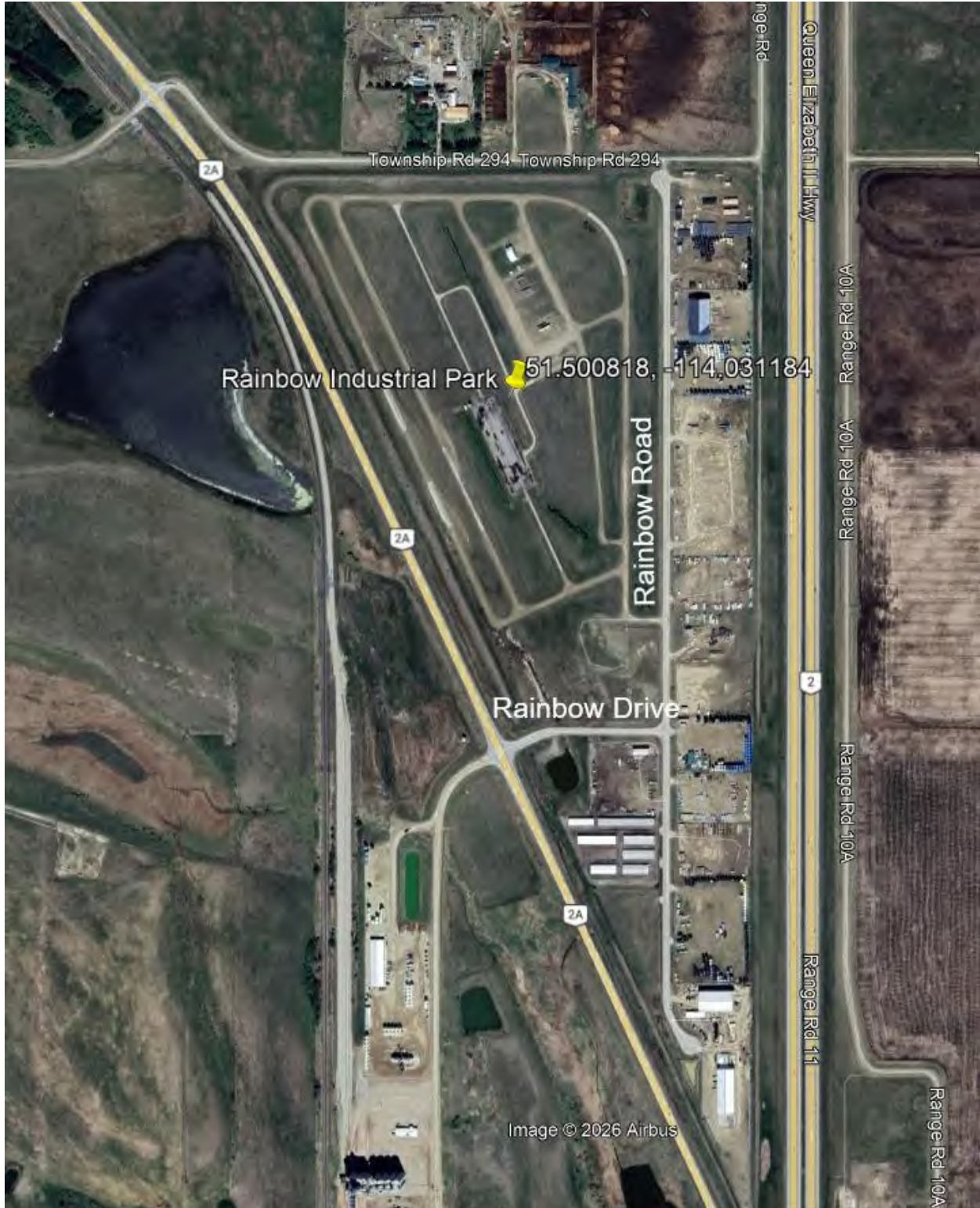
Rainbow Industrial Park is located at NE23-29-1-W5 (51° 30' 2.94" N, 114° 1' 52.26" W), adjacent to the Dave Striker Industrial Subdivision, and forms part of the South Carstairs Area Structure Plan. The proposed development area was previously used as a driver training facility for Schlumberger Canada and is proposed to be redeveloped as an industrial subdivision.

Key characteristics of the proposed development include:

- Total development area of approximately 32.1 ha.
- Development consisting of 26 industrial lots constructed in two phases.
- Lot sizes ranging from approximately 1.0 ha to 1.3 ha.

The site is bound by the following roadways:

- Highway 2A to the west
- Rainbow Road to the east
- Rainbow Drive to the south
- Township Road 294 to the north



The goal of this study is to evaluate the impact of the new development to the following intersections:

- Highway 2A & Rainbow Drive
- Township Road 294 & Rainbow Road
- Highway 2A & Township Road 294

2.1.1 Proposed Development

The proposed accesses for the development are as follows:

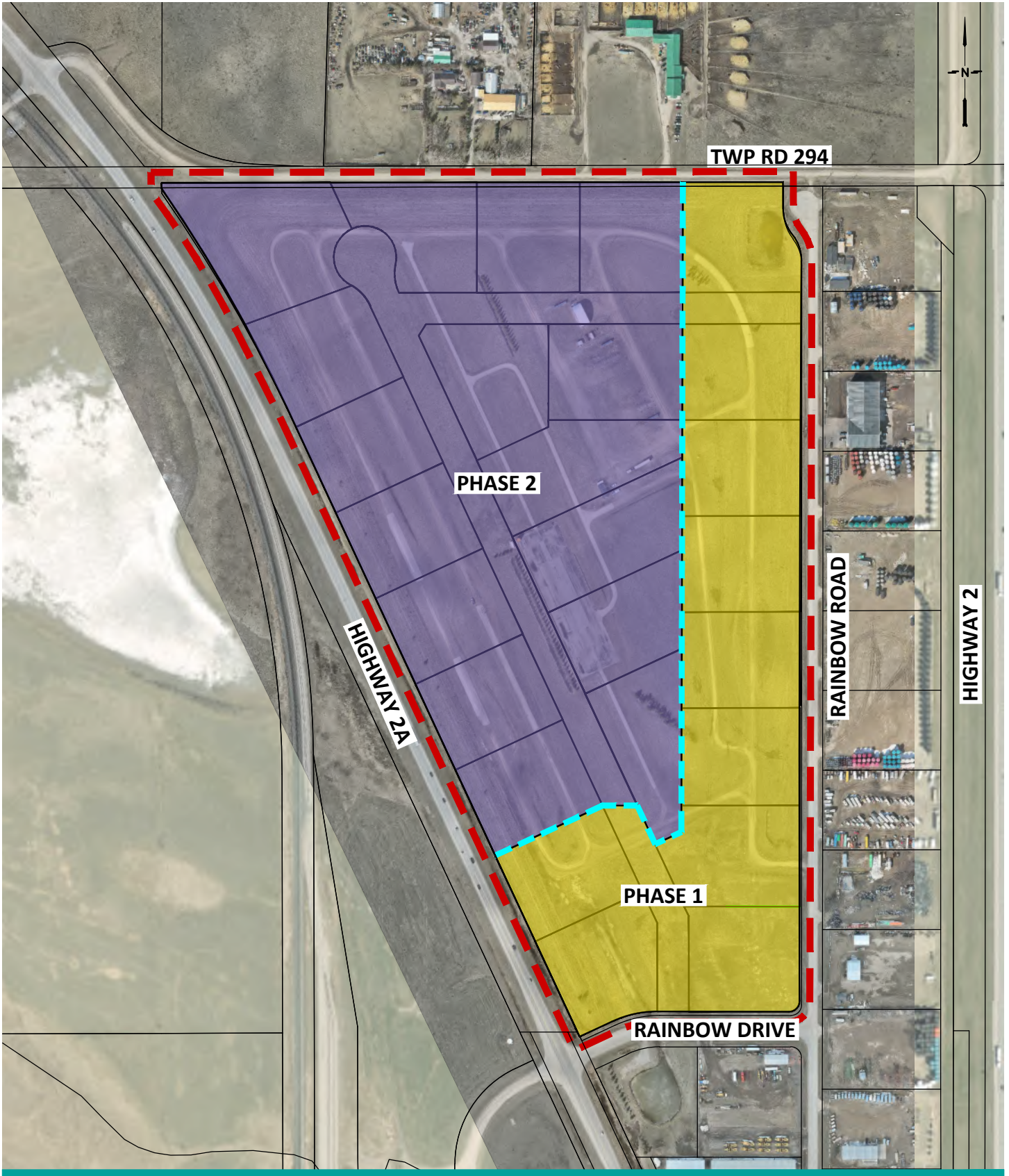
- Rainbow Drive – Approximately 110m east of the Highway 2A intersection.
- Rainbow Road – Approximately 130m south of the Twp Rd 294 intersection.

The proposed development encompasses a total area of approximately 32.1 hectares and consists of 26 industrial lots to be constructed in two phases.

Phase 1 consists of 10 Lots and consists of 11.90 ha of total area. This phase is expected to be completed in 2027. Construction is expected to begin in 2027 with lots being available in late 2027.

Phase 2 consists of 16 lots and 20.22ha of total area. This phase is expected to be completed in 2030.

The individual lot sizes are anticipated to range from approximately 1.0 to 1.3 hectares, See Figure 1.



RAINBOW INDUSTRIAL PARK
 TRAFFIC IMPACT ASSESSMENT
 NE23-29-1-W5
 PROPOSED DEVELOPMENT

F01

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 5923

2.1.2 Study Area

This study will focus on the intersections of Highway 2A/ Rainbow Drive, Township Road 294/Rainbow Road, and Highway 2A/Twp Rd 294.

3.0 Existing Infrastructure Conditions

3.1 Existing Highway and Road Network Conditions

3.1.1 Highway 2A

Highway 2A is a two lane Rural Arterial undivided Highway that runs north-south, south of Carstairs. The current speed limit is 100km/h. The pavement width is 10.4m wide, with two 3.7m lanes. The highway has white shoulder lines and a dashed yellow centerline.



3.1.2 Township Road 294

Township Road 294 is a two lane Rural local gravel road that runs east-west, south of Carstairs. There is no posted speed limit, so it is assumed to be 80km/h, typical for gravel roads. The road width is 6.0m wide, with two 3.0m lanes. The roadway is gravel so has no paint markings.

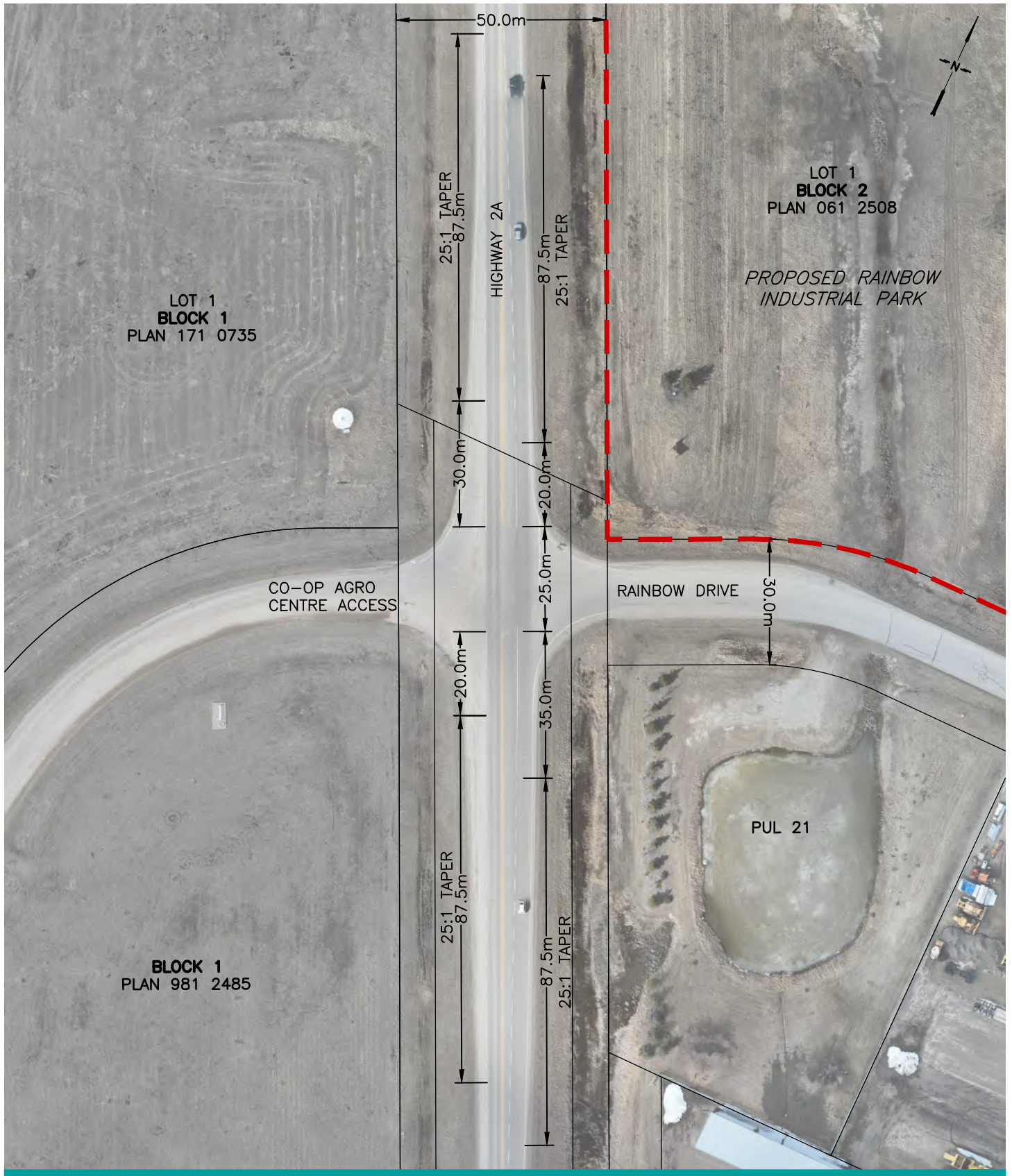


3.2 Existing Intersection Conditions

3.2.1 Highway 2A – Rainbow Drive

The existing intersection of Hwy 2A and Rainbow Drive is a Type II intersection with a northbound left turn lane and a southbound right turn lane. The intersection is stop controlled with stop signs on Rainbow Drive and the Co-op Agro Centre Access.

Details of the existing intersection can be seen on Figure 2:



RAINBOW INDUSTRIAL PARK

TRAFFIC IMPACT ASSESSMENT

NE23-29-1-W5

EXISTING HIGHWAY 2A - RAINBOW DRIVE INTERSECTION

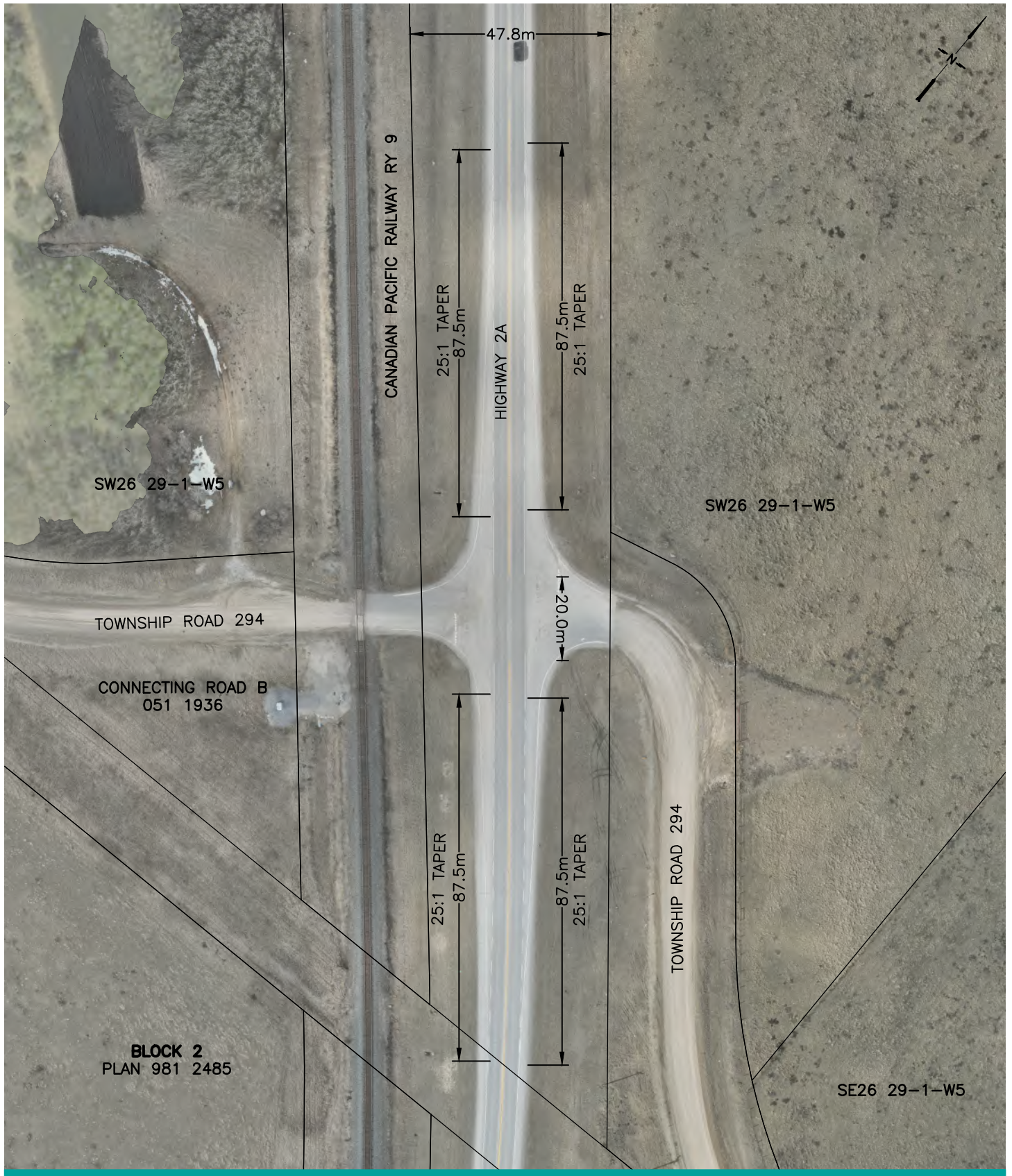
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3.2.2 Highway 2A – Township Road 294

The existing intersection of Hwy 2A and Township Road 294 is a Type II intersection with a northbound right turn lane and a southbound right turn lane. The intersection is stop controlled with stop signs on Township Road 294.

Details of the existing intersection can be seen on Figure 3:



RAINBOW INDUSTRIAL PARK
 TRAFFIC IMPACT ASSESSMENT
 NE23-29-1-W5
 EXISTING HIGHWAY 2A-TOWNSHIP ROAD 294 INTERSECTION

F03

3.2.1 Township Road 294 – Rainbow Road

Currently there a limited access connection between Township Road 294 and Rainbow Road. The intersection is currently used as a second emergency exit at the end of the cul-de-sac. The intersection will be constructed as part of the Rainbow Industrial Park development.



3.3 Proposed Access Configuration

The development would have two proposed accesses. The access onto Rainbow Drive would be approximately 110m east of the Highway 2A intersection. The access onto Rainbow Road would be approximately 130m south of the Twp Rd 294 intersection. Both intersections will be internal development roads and will not have any additional turning lanes. There will be a stop control on the development side of intersection.

4.0 Background Traffic & Projections

4.1 Existing Traffic Conditions

4.1.1 Traffic Counts

Traffic counts were taken at the following intersections on Tuesday March 10, 2026:

- Highway 2A & Rainbow Drive
- Highway 2A & Township Road 294
- Township Road 294 & Rainbow Road

This traffic data will be the basis for the 2026 Traffic Count scenario. Traffic Count volumes are shown on the table in Appendix A.

4.1.2 ATR Adjustment

The 2025 traffic data taken from ATR 60201258 on Highway 2A, located 5.2 km south of Highway 2A and Highway 580 in Carstairs adjacent to the development, was used to adjust the traffic count data. The Two-way 100th Highest Hour traffic volume for 2025 was 663. As traffic count data is not yet available for 2026, the two-way traffic for the AM and PM Peak for the second Tuesday in March (March 11, 2025) was compared to the AADT for 2025 to create an ATR Adjustment factor.

$$Factor = \frac{AADT \text{ in last year}}{ATR \text{ 24 hr daily volume on count date in last year}}$$

Table 1 - ATR Adjustment Factor

| 2025 Data | Two-Way Traffic Volume |
|------------------------------------|------------------------|
| AADT | 5866 |
| ATR 24 Hour Count – March 11, 2025 | 5954 |
| ATR Adjustment Factor | 0.99 |

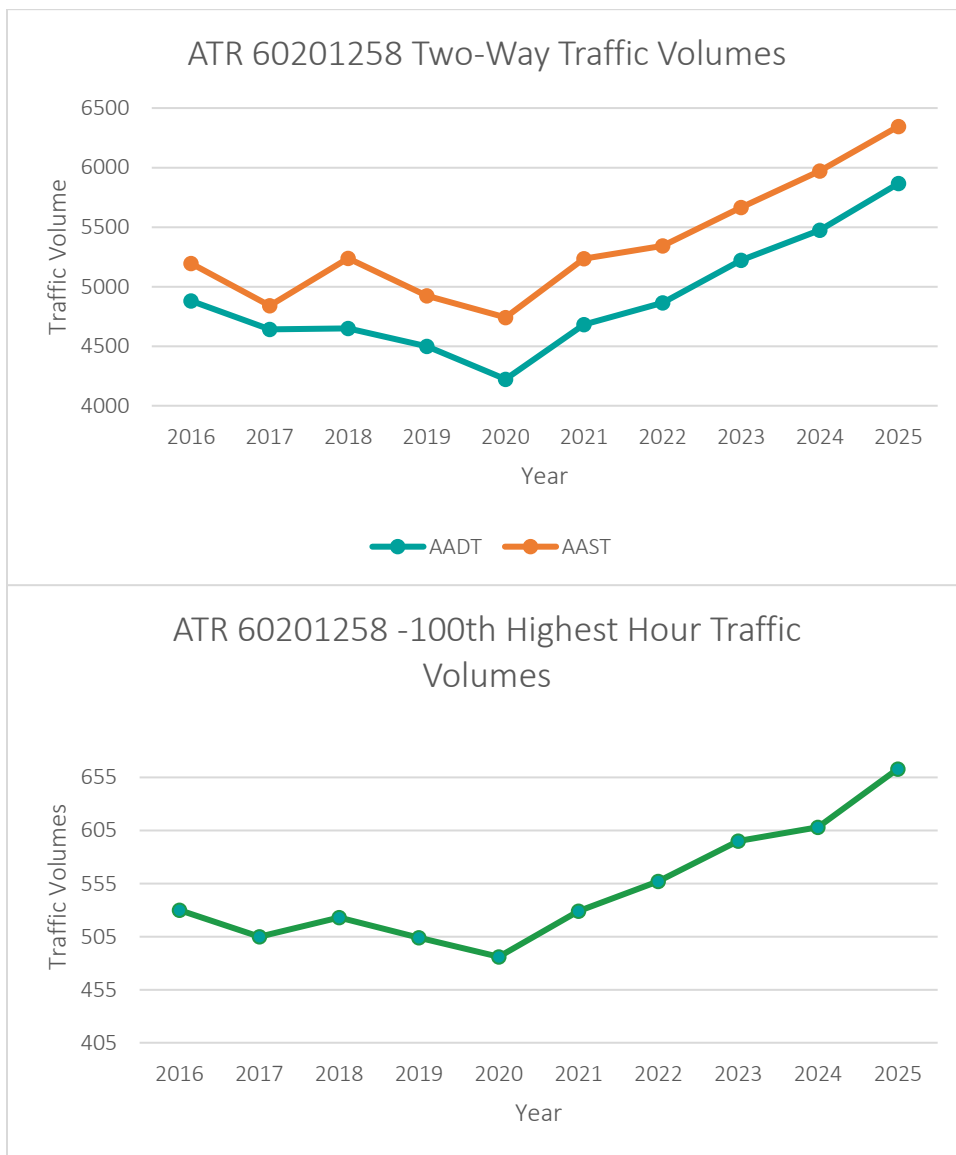
4.1.3 Background Growth

The past 10 years of data from ATR 60201258 on Highway 2A, located 5.2 km south of Highway 2A and Highway 580 in Carstairs, were analyzed to determine the background growth rate for

Highway 2A. The Average Annual Daily Traffic (AADT), Average Summer Daily Traffic (ASDT) and 100th Highest Hour for each year were analyzed.

| Year | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---------------------------|------|------|------|------|------|------|------|------|------|------|
| AADT | 4881 | 4641 | 4651 | 4500 | 4223 | 4683 | 4865 | 5222 | 5475 | 5866 |
| AAST | 5194 | 4841 | 5237 | 4925 | 4742 | 5236 | 5342 | 5666 | 5972 | 6346 |
| 100th Highest Hour | 530 | 505 | 523 | 504 | 486 | 529 | 557 | 595 | 608 | 663 |

Both the Daily and Peak Hour volumes on this roadway have shown an increase over the 10-year period. The AADT increased by 20% (2.0% per year on average), the ASDT by 22% (2.2% per year on average) and the 100th highest hour by 25% (2.5% per year on average).



The Alberta Transportation Traffic Impact Assessment Guidelines state that a compounded

growth rate of 2% should be used as a lower limit for Provincial Highway background growth. As such a background growth rate of 2.5% was chosen for background traffic for all the intersections that were analyzed as part of this report to be conservative.

4.2 Projected Background Traffic

4.2.1 2027 & 2030 Opening Day Scenario

A growth rate of 2.5% per year linear (not compounded), was used to increase the background traffic from 2026 to 2027 for Phase 1 and 2030 for Phase 2. Future Background Traffic is shown in Appendix A.

4.2.2 2040 & 2050 Ultimate Scenario

Similarly, a growth rate of 2.5% per year linear (not compounded), was used to increase the background traffic further for the 10 Year Horizon (2040) and 20 Year Horizon (2050). Future Background Traffic is shown in Appendix A.

4.3 Traffic Generated by Other Developments

At this time, there were no identified projects in the immediate vicinity of the analyzed intersections that would impact the traffic volumes. Any other development further away is assumed to be captured in the background traffic growth.

5.0 Development Traffic

5.1 Trip Generation Rates

Trip Generation data was taken from the ITE Trip Generation 11th Edition. As trip generation rates are based on square feet of a building, lot areas were used assuming a 10% FAR (Floor Area Ratio) which is typical for industrial development and is similar to the existing nearby industrial lots. Trip generation rates and total trips generated are shown in the table below:

Table 2 – ITE Trip Generation Rates

| Phase | Code | Description | Units | Generation Rates | | Expected Units | Total Generated Trips | |
|-------|------|-----------------|------------------|------------------|---------|----------------|-----------------------|---------|
| | | | | AM Peak | PM Peak | | AM Peak | PM Peak |
| 1 | 130 | Industrial Park | 1000 Sq. Ft. GFA | 0.34 | 0.34 | 113.4 | 39 | 39 |
| 2 | 130 | Industrial Park | 1000 Sq. Ft. GFA | 0.34 | 0.34 | 192.6 | 65 | 65 |
| Total | | | | | | 306 | 104 | 104 |

These traffic volumes are much higher than the traffic volumes from the existing industrial lots in the area so these volumes should be considered very conservative.

Trip distribution was also taken from the ITE Trip Generation manual and is shown in the table

below:

Table 3 - ITE Trip Distribution Rates

| Phase | Total Generated Trips | | AM Peak | | PM Peak | | AM Peak | | PM Peak | |
|-------|-----------------------|---------|---------|-----|---------|-----|---------|-----|---------|-----|
| | AM Peak | PM Peak | In | Out | In | Out | In | Out | In | Out |
| 1 | 39 | 39 | 81% | 19% | 22% | 78% | 32 | 7 | 9 | 30 |
| 2 | 65 | 65 | 81% | 19% | 22% | 78% | 53 | 12 | 14 | 51 |
| Total | 104 | 104 | | | | | 85 | 19 | 23 | 81 |

Due to the proposed land use, all trips were assumed to be site generated with no Pass-by or Linked Trips.

5.2 Trip Distribution

As access to Highway 2A via Township Road 294 is provided by a gravel road, and the majority of trips are expected to originate from or be destined to the south leg of Highway 2A, it has been assumed that 90% of traffic will use the Highway 2A and Rainbow Drive intersection to access the site, with the remaining 10% using Rainbow Road and Township Road 294.

The distribution at the intersection of Highway 2A and Rainbow Drive is anticipated to be 88% southbound and 12% northbound (80% of total trips head southbound, 10% of total trips head northbound). The distribution at the intersection of Highway 2A and Township Road 294 is anticipated to be 50% southbound and 50% northbound (5% of total trips head southbound, 5% of total trips head northbound).

Trip distribution figures are provided in Appendix A.

6.0 Post Development Traffic

Post Development Traffic was considered for four scenarios: the 2027 Phase 1 - Opening Day, 2030 Phase 2 Commencement Day, the 2040 – 10 Year Horizon and 2050 – 20 Year Horizon Scenarios.

The background traffic for 2027 was combined with the traffic from generated from the Phase 1 only for the Opening Day Scenario.

The background traffic for 2030, 2040 and 2050 were combined with the traffic from generated from the entire development for the other scenarios.

7.0 Intersection Treatment Warrants

7.1 Turn Lane Warrant Analysis

Turn lane warrant analysis was performed for both Highway 2A intersections in all scenarios. The warrant Analysis was performed using the “AT_IntersectionAnalysis” Spreadsheet, provided by Alberta Transportation and Economic Corridors.

7.1.1 Highway 2A-Rainbow Drive

Turn Lane Warrant Analysis was performed for all scenarios for the Intersection of Highway 2A and Rainbow Drive. The intersection is currently a Type II intersection. A Type II intersection was warranted from the background traffic in all scenarios. The Total traffic in the 2030 Ultimate Scenario warranted an upgrade to a Type III intersection treatment based on the increase in traffic on Rainbow Drive. The results of the turn lane warrant analysis are shown below. Details of the Turn Lane Warrant Analysis is included in Appendix C.

Table 4 - Highway 2A-Rainbow Drive - Turn Lane Warrant Analysis

| Scenario | Treatment Warranted |
|-------------------------|---------------------|
| 2027 Background Traffic | Type II |
| 2027 Total Traffic | Type II |
| 2030 Background Traffic | Type II |
| 2030 Total Traffic | Type III |
| 2040 Background Traffic | Type II |
| 2040 Total Traffic | Type III |
| 2050 Background Traffic | Type II |
| 2050 Total Traffic | Type III |

7.1.2 Highway 2A-Township Road 294

Turn Lane Warrant Analysis was performed for all scenarios for the Intersection of Highway 2A and Township Road 294. The intersection is currently a Type II intersection. A type II intersection was warranted from the background traffic in all scenarios. The Total traffic in the 2030 Ultimate Scenario warranted an upgrade to a Type III intersection treatment based on the increase in traffic on Township Road 294. The results of the turn lane warrant analysis are shown below. Details of the Turn Lane Warrant Analysis is included in Appendix C.

Table 5 - Highway 2A-Township Road 294 - Turn Lane Warrant Analysis

| Scenario | Treatment Warranted |
|-------------------------|---------------------|
| 2027 Background Traffic | Type II |
| 2027 Total Traffic | Type II |
| 2030 Background Traffic | Type II |
| 2030 Total Traffic | Type III |
| 2040 Background Traffic | Type II |
| 2040 Total Traffic | Type III |
| 2050 Background Traffic | Type II |
| 2050 Total Traffic | Type III |

7.2 Signal Warrant Analysis

Signal Warrant Analysis was performed for both Highway 2A intersections in the 2050 Total Traffic Scenario. Signals were not warranted for either intersection. Signal Warrant Analysis is included in Appendix C.

8.0 Analyses

8.1 Capacity Analysis

The intersection analysis performed follows the guidelines in the Highway Capacity Manual 6, for both unsignalized and signalized intersections. The analysis and resulting Level of Service (LOS) is based on the movements through the intersections. Results of the analysis has been included in Appendix C.

The resulting LOS for each minor movement, as well as the overall intersection, is defined based on the average delay for that movement, in seconds per vehicle. The LOS Criteria for Two Way Stop Controlled (TWSC) Intersections, roundabouts and Signalized Intersections are as follows:

Table 6: Level of Service Criteria

| Level of Service | Average Control Delay (s/veh) | | |
|------------------|-------------------------------|------------------|-------------------------|
| | Signalized | Unsignalized | Sidra Roundabout Method |
| A | $d \leq 10$ | $d \leq 10$ | $d \leq 10$ |
| B | $10 < d \leq 20$ | $10 < d \leq 15$ | $10 < d \leq 20$ |
| C | $20 < d \leq 35$ | $15 < d \leq 25$ | $20 < d \leq 35$ |
| D | $35 < d \leq 55$ | $25 < d \leq 35$ | $35 < d \leq 50$ |
| E | $55 < d \leq 80$ | $35 < d \leq 50$ | $50 < d \leq 70$ |
| F | $80 < d$ | $50 < d$ | $70 < d$ |

8.2 Highway 2A-Rainbow Drive

Capacity analysis for the Highway 2A and Rainbow Drive intersection was completed using Synchro by Trafficware. Background and Total Traffic scenarios were analyzed using both the existing intersection configuration. A summary of the modelling results is below:

Table 7 - Highway 2A-Rainbow Drive Modelling Results

| Year | Intersection Conditions | Scenario | Peak | Max v/c Ratio | Intersection Delay (s) | Intersection LOS |
|------|-------------------------|------------|------|---------------|------------------------|------------------|
| 2026 | Existing | Background | AM | 0.01 | 0.5 | A |
| | | | PM | 0.03 | 0.5 | A |
| 2027 | Existing | Background | AM | 0.01 | 0.5 | A |
| | | | PM | 0.03 | 0.5 | A |
| | | Total | AM | 0.01 | 0.7 | A |
| | | | PM | 0.09 | 1.1 | A |
| 2030 | Existing | Background | AM | 0.02 | 0.5 | A |
| | | | PM | 0.04 | 0.5 | A |
| | | Total | AM | 0.06 | 1.0 | A |
| | | | PM | 0.25 | 2.3 | A |
| 2040 | Existing | Background | AM | 0.02 | 0.6 | A |
| | | | PM | 0.05 | 0.6 | A |
| | | Total | AM | 0.08 | 1.0 | A |
| | | | PM | 0.32 | 2.6 | A |
| 2050 | Existing | Background | AM | 0.03 | 0.6 | A |
| | | | PM | 0.07 | 0.7 | A |
| | | Total | AM | 0.10 | 1.0 | A |
| | | | PM | 0.42 | 3.1 | A |

Based on the modelling results, the intersection would still have a LOS of A in the 2050 Total Traffic scenario with the existing Type II configuration.

8.3 Highway 2A – Township Road 294

Capacity analysis for the Highway 2A and Township Road 294 intersection was completed using Synchro by Trafficware. All background and Total Traffic scenarios were analyzed using the existing Type II intersection. A summary of the modelling results is below:

Table 8 - Highway 2A-Township Road 294 Modelling Results

| Year | Intersection Conditions | Scenario | Peak | Max v/c Ratio | Intersection Delay (s) | Intersection LOS |
|------|-------------------------|------------|------|---------------|------------------------|------------------|
| 2026 | Existing | Background | AM | 0.01 | 0.2 | A |
| | | | PM | 0.01 | 0.1 | A |
| 2027 | Existing | Background | AM | 0.01 | 0.2 | A |
| | | | PM | 0.01 | 0.1 | A |
| | | Total | AM | 0.01 | 0.2 | A |
| | | | PM | 0.02 | 0.2 | A |
| 2030 | Existing | Background | AM | 0.01 | 0.2 | A |
| | | | PM | 0.01 | 0.1 | A |
| | | Total | AM | 0.01 | 0.3 | A |
| | | | PM | 0.04 | 0.3 | A |
| 2040 | Existing | Background | AM | 0.01 | 0.2 | A |
| | | | PM | 0.02 | 0.1 | A |
| | | Total | AM | 0.01 | 0.3 | A |
| | | | PM | 0.05 | 0.3 | A |
| 2050 | Existing | Background | AM | 0.01 | 0.2 | A |
| | | | PM | 0.03 | 0.2 | A |
| | | Total | AM | 0.01 | 0.3 | A |
| | | | PM | 0.07 | 0.4 | A |

Based on the modelling results, the intersection would have a LOS of A in the 2050 Total Traffic scenario with the existing Type II configuration. The model showed no issues with capacity or delay with the existing configuration.

8.4 Township Road 294 – Rainbow Road

Capacity analysis for the Township Road 294 and Rainbow Road intersection was completed using Synchro by Trafficware. All background and Total Traffic scenarios were analyzed using a Type I intersection. A summary of the modelling results is below:

Table 9 - Township Road 294 – Rainbow Road Modelling Results

| Year | Intersection Conditions | Scenario | Peak | Max v/c Ratio | Intersection Delay (s) | Intersection LOS |
|------|-------------------------|------------|------|---------------|------------------------|------------------|
| 2026 | Existing | Background | AM | 0.01 | 4.8 | A |
| | | | PM | 0.00 | 2.8 | A |
| 2027 | Existing | Background | AM | 0.01 | 4.8 | A |
| | | | PM | 0.00 | 2.8 | A |
| | | Total | AM | 0.01 | 3.6 | A |
| | | | PM | 0.01 | 5.7 | A |
| 2030 | Existing | Background | AM | 0.01 | 4.8 | A |
| | | | PM | 0.00 | 2.8 | A |
| | | Total | AM | 0.01 | 2.7 | A |
| | | | PM | 0.01 | 6.5 | A |
| 2040 | Existing | Background | AM | 0.01 | 5.4 | A |
| | | | PM | 0.00 | 2.8 | A |
| | | Total | AM | 0.01 | 3.1 | A |
| | | | PM | 0.01 | 6.5 | A |
| 2050 | Existing | Background | AM | 0.01 | 4.4 | A |
| | | | PM | 0.00 | 4.2 | A |
| | | Total | AM | 0.01 | 3.0 | A |
| | | | PM | 0.01 | 6.6 | A |

Based on the modelling results, the intersection would have a LOS of A in the 2050 Total Traffic scenario with the Type I configuration. The model showed no issues with capacity or delay with the Type I configuration.

8.5 Traffic Safety

The area surrounding Highway 2A is flat and open with no hills or valleys close to the intersection. Sightlines are not anticipated to be a problem. The minimum stopping sight distance (SSD) for speed limit of 100 km/h (design speed=110km/h) is 220m as per the Alberta Transportation Geometric Road Design Guide, Chapter B. Sight distance at both Highway 2A intersections would be over 500m in either direction.

Exhibit 1 – Highway 2A-Rainbow Drive Facing South



Exhibit 2 - Highway 2A-Rainbow Drive Facing North



Exhibit 3 – Highway 2A-Township Road 294 Facing South



Exhibit 4 - Highway 2A-Township Road 294 Facing North



8.6 Design Vehicle Accommodation

The design vehicles for the proposed development were the WB-21 and WB-23.

8.6.1 Highway 2A-Rainbow Drive

This intersection is currently a Type II intersection which would be able to accommodate the design vehicles without crossing the centerline, as per Chapter D of the Alberta Highway Geometric Design Guide.

8.6.2 Highway 2A-Township Road 294

This intersection is currently a Type II intersection which would be able to accommodate the design vehicles without crossing the centerline, as per Chapter D of the Alberta Highway Geometric Design Guide.

8.6.3 Township Road 294 – Rainbow Road

This intersection is proposed as a Type I intersection onto a gravel road. As such larger vehicles will have to cross the centerline to make the turning movement. As this is a secondary access, it is anticipated that larger vehicles would use the Rainbow Drive access.

8.7 Illumination Warrant Analysis

Illumination warrant analysis was performed for both of the Highway 2A intersections for the 2050 Ultimate Scenario. Neither intersection warranted illumination. Illumination Analysis can be found in Appendix D.

9.0 Conclusions and Recommendations

The proposed Rainbow Industrial Park will have two access points onto Highway 2A at the existing Rainbow Drive and Township Road 294 intersections. Both intersections are currently built to a type II standard.

Phase 1 of the development did not warrant any intersection improvements and capacity analysis showed no issue at with either intersection.

Phase 2 of the development increased the traffic on Rainbow Drive and Township Road 294, along with increased background traffic on Highway 2A, causes these intersections to warrant a Type III intersection treatment. However, capacity modelling showed no issues with the existing configuration up to the 2050 Ultimate scenario.

As the capacity modelling showed no issues with the current configuration and the projected traffic volumes are much higher than the traffic generated from the existing industrial development in the area, it is recommended that Phase 1 be permitted to proceed. Prior to Phase 2 being permitted, the traffic volumes at these intersections should be evaluated to determine if an upgrade to a Type III intersection is warranted.

Neither signalization nor illumination are required for either intersection.

To access the Highway 2A and Township Road 294 intersection, the intersection of Rainbow Road and Township Road 294 shall be constructed as a type I intersection onto the gravel road, rather than an emergency access only. Volumes at this intersection are not anticipated to be very high and modelling showed there were no issues with capacity.

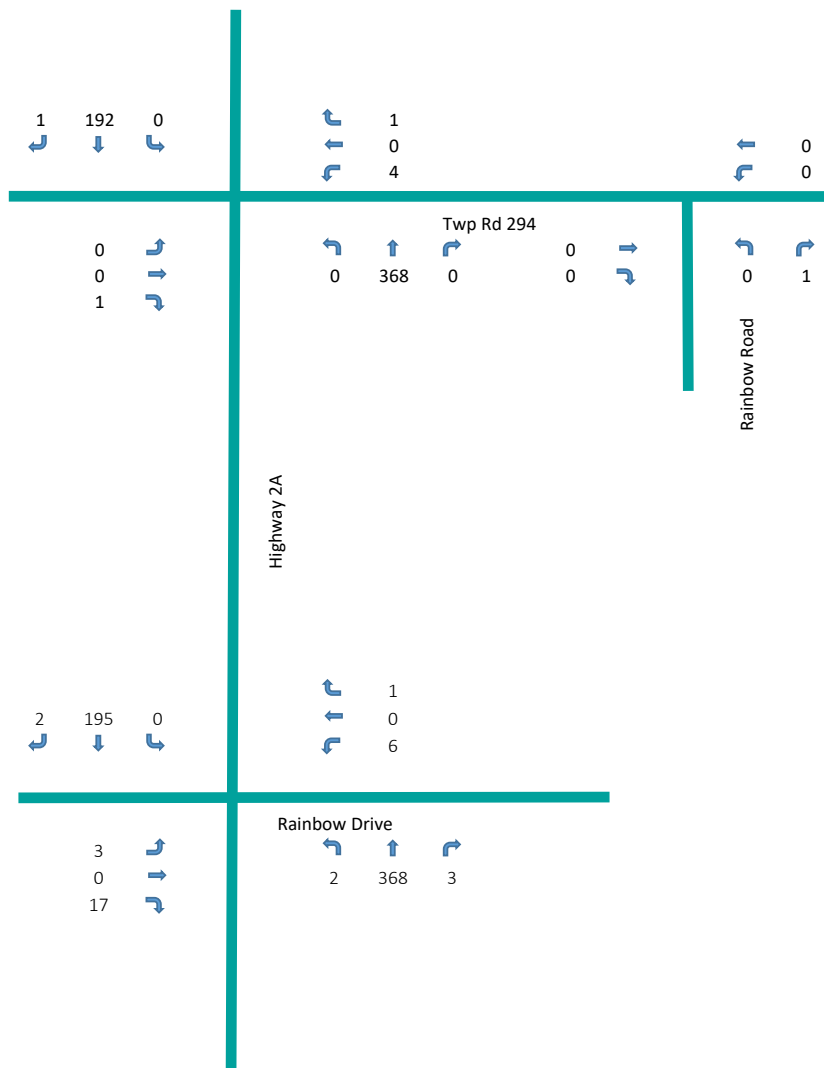
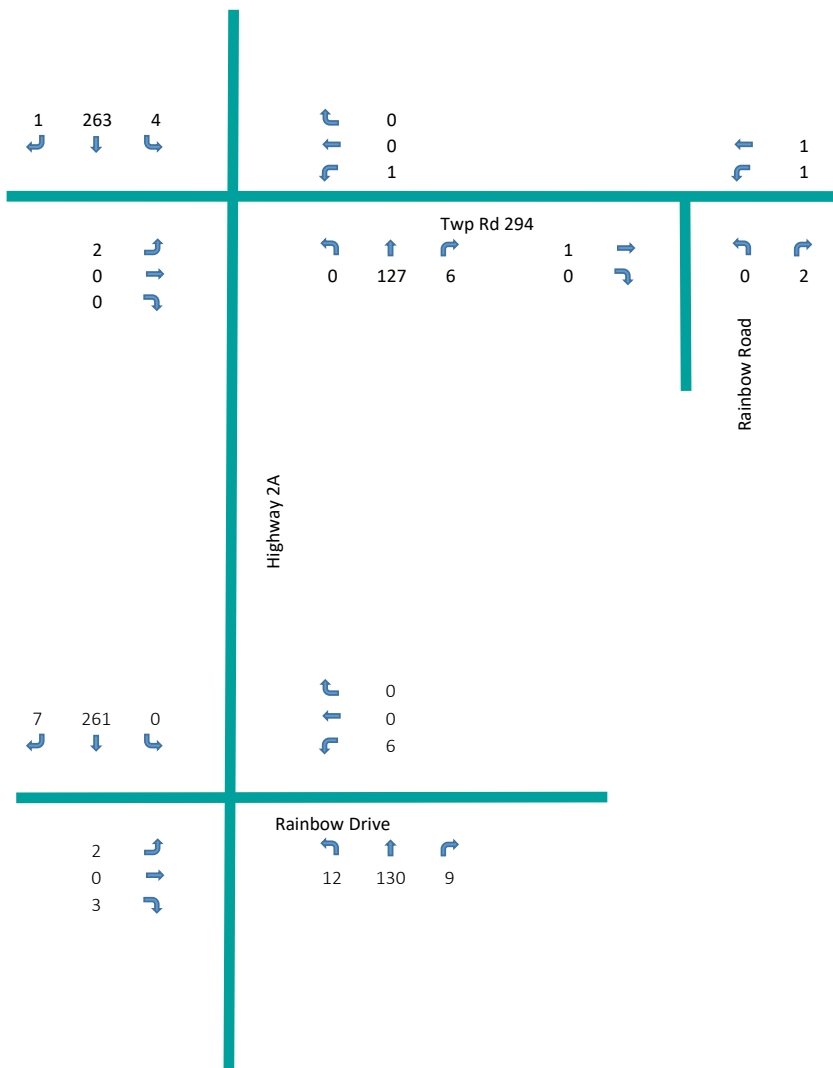
Appendix A

Traffic Volume Information

2026 Traffic Count

AM Peak

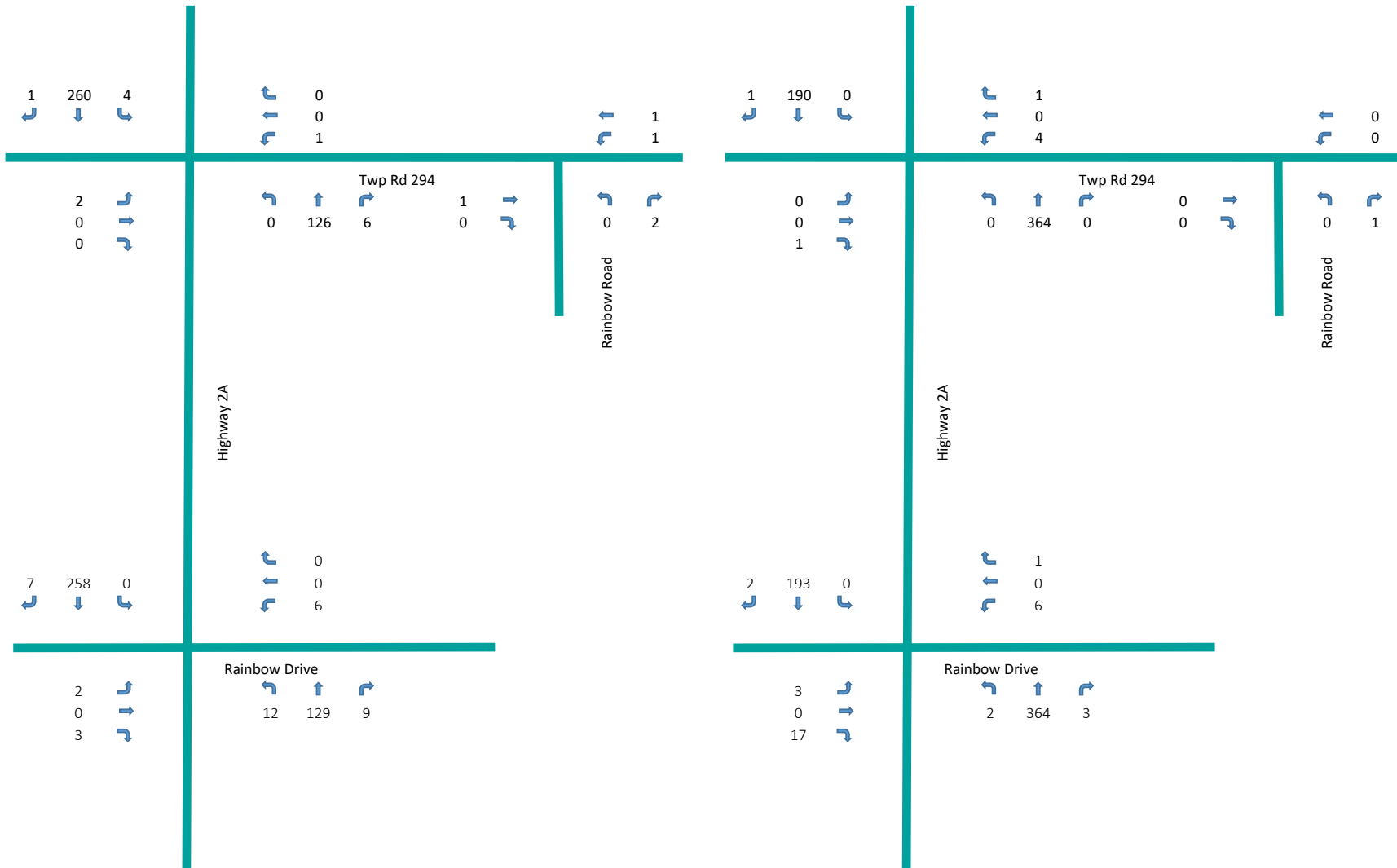
PM Peak



ATR Adjusted Traffic

AM Peak

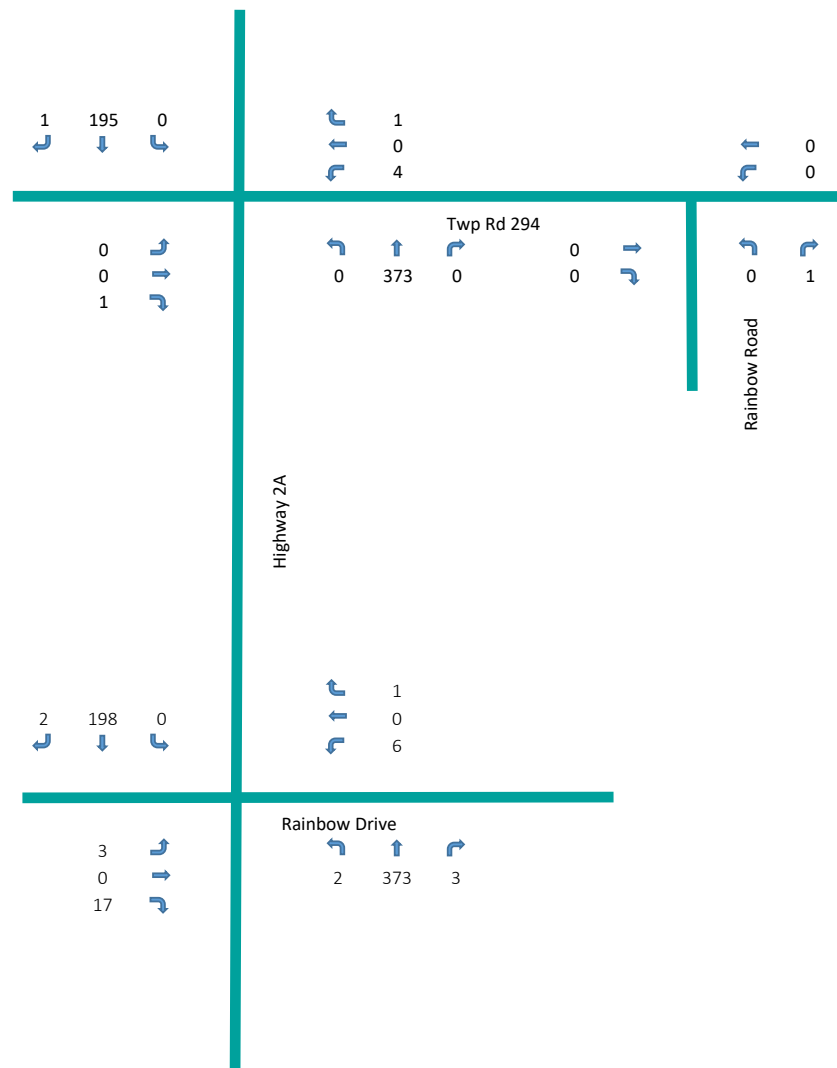
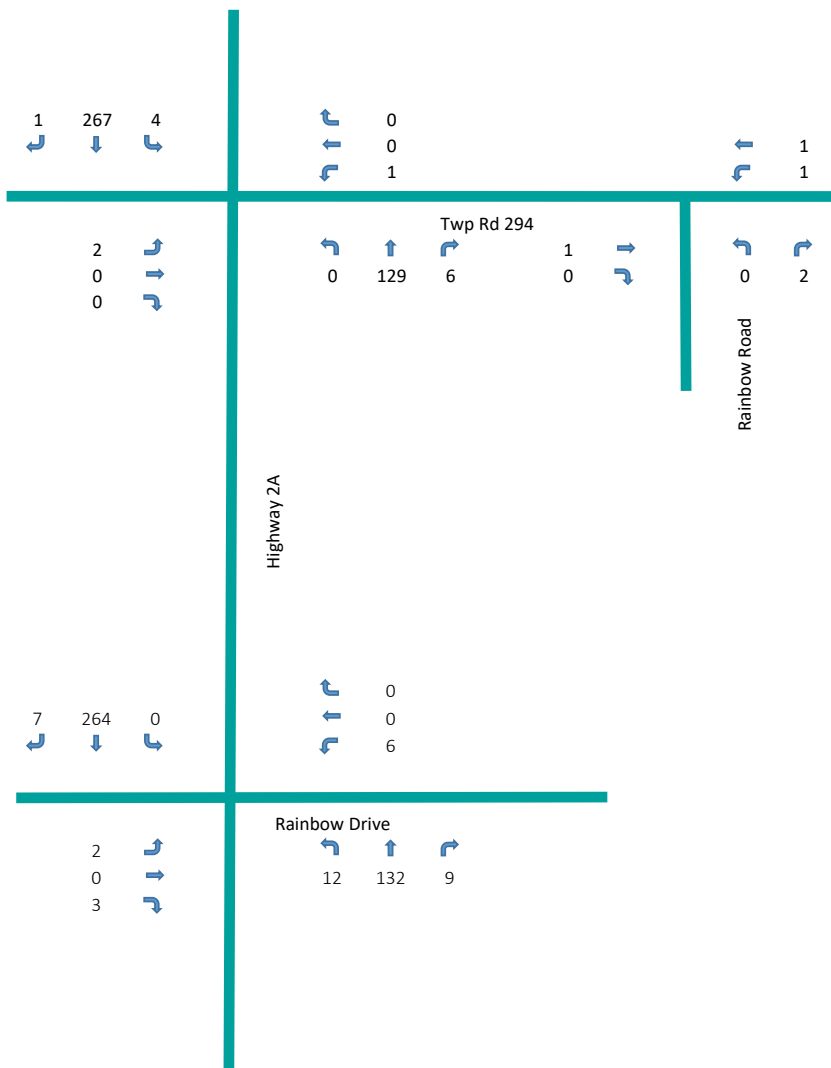
PM Peak



2027 Background Traffic

AM Peak

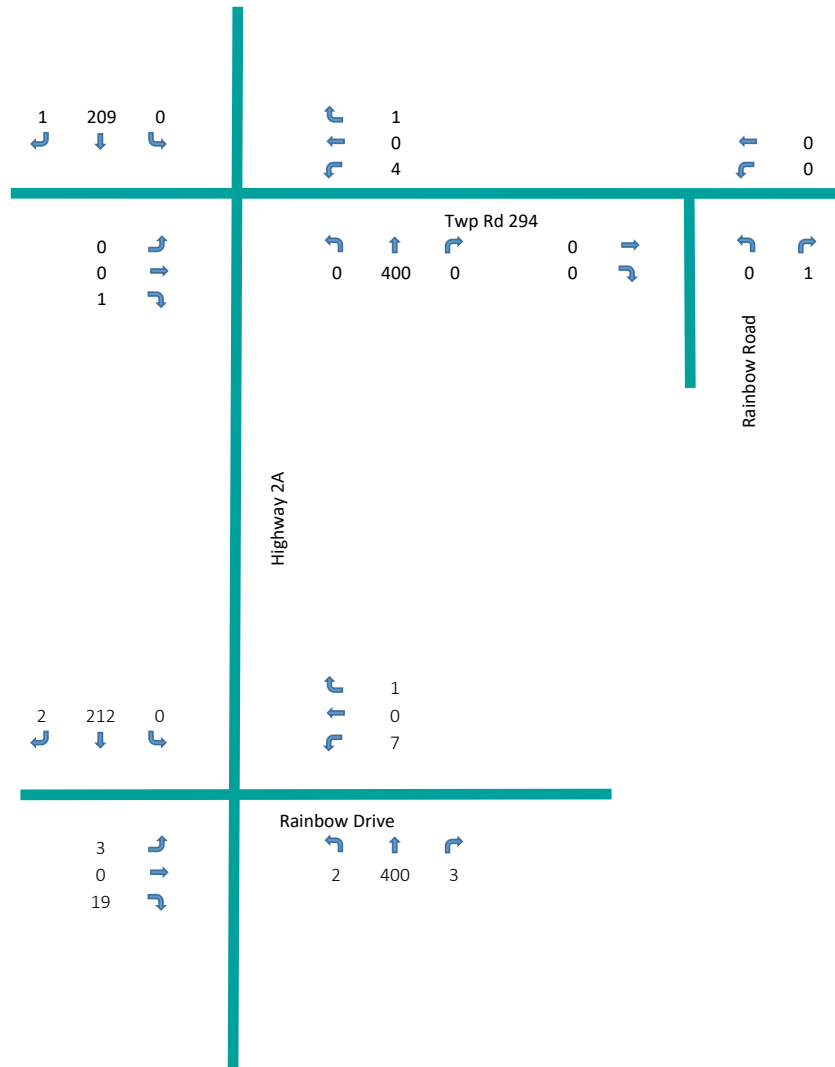
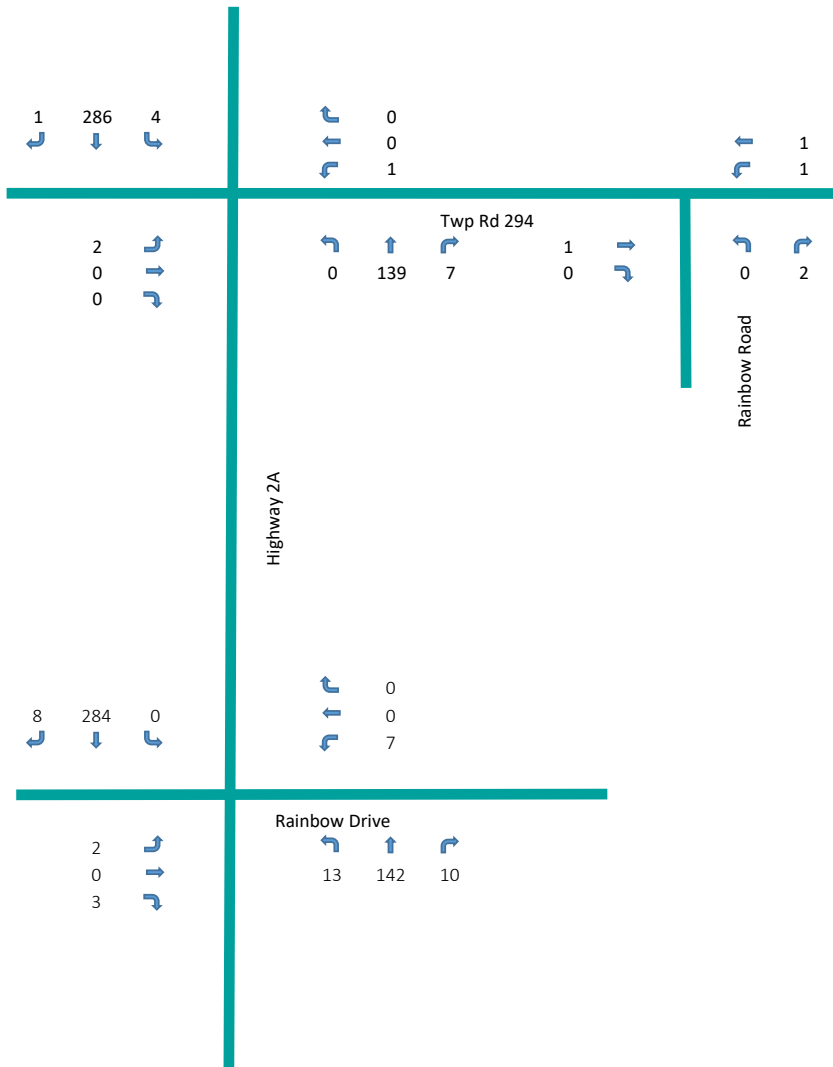
PM Peak



2030 Background Traffic

AM Peak

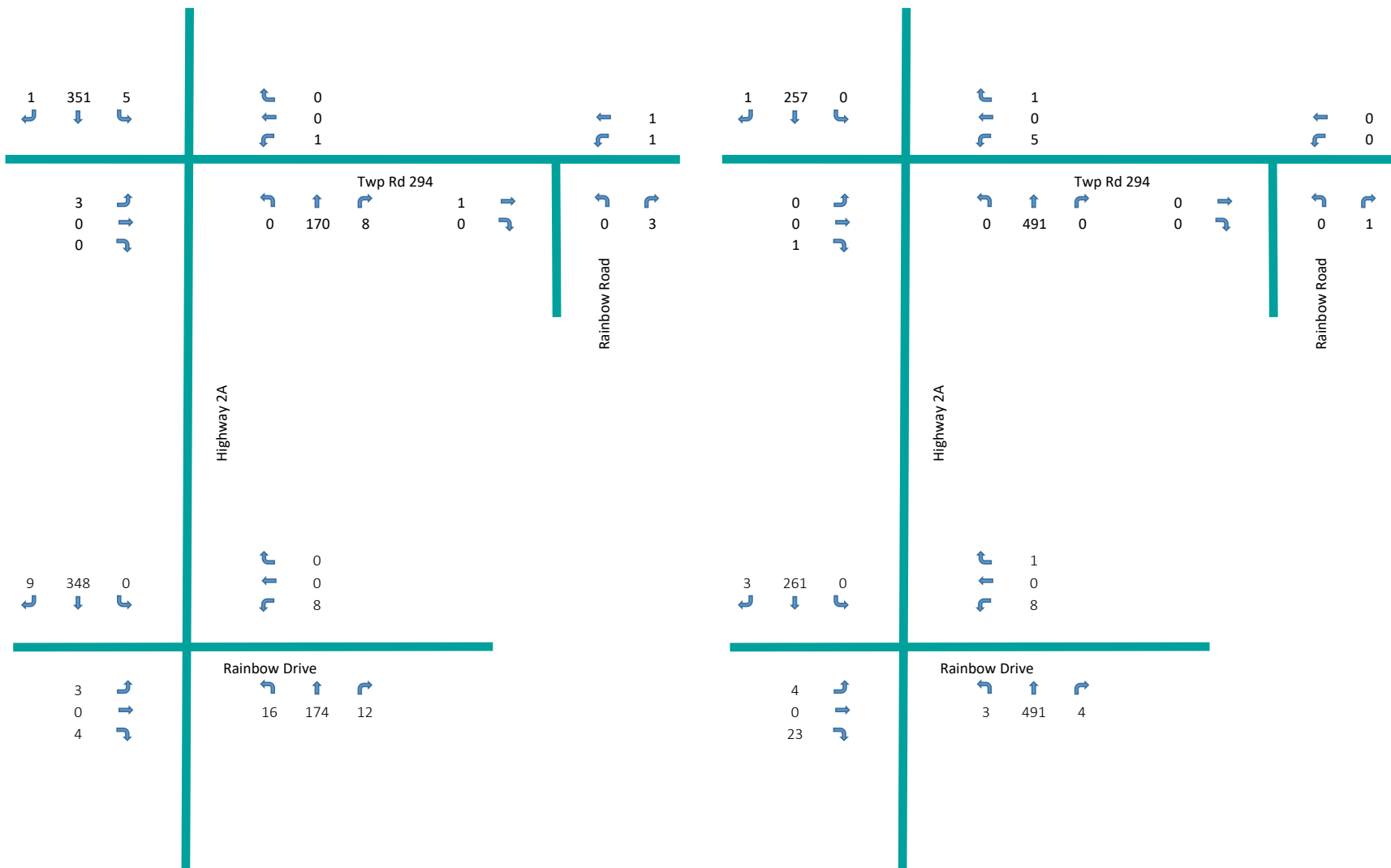
PM Peak



2040 Background Traffic

AM Peak

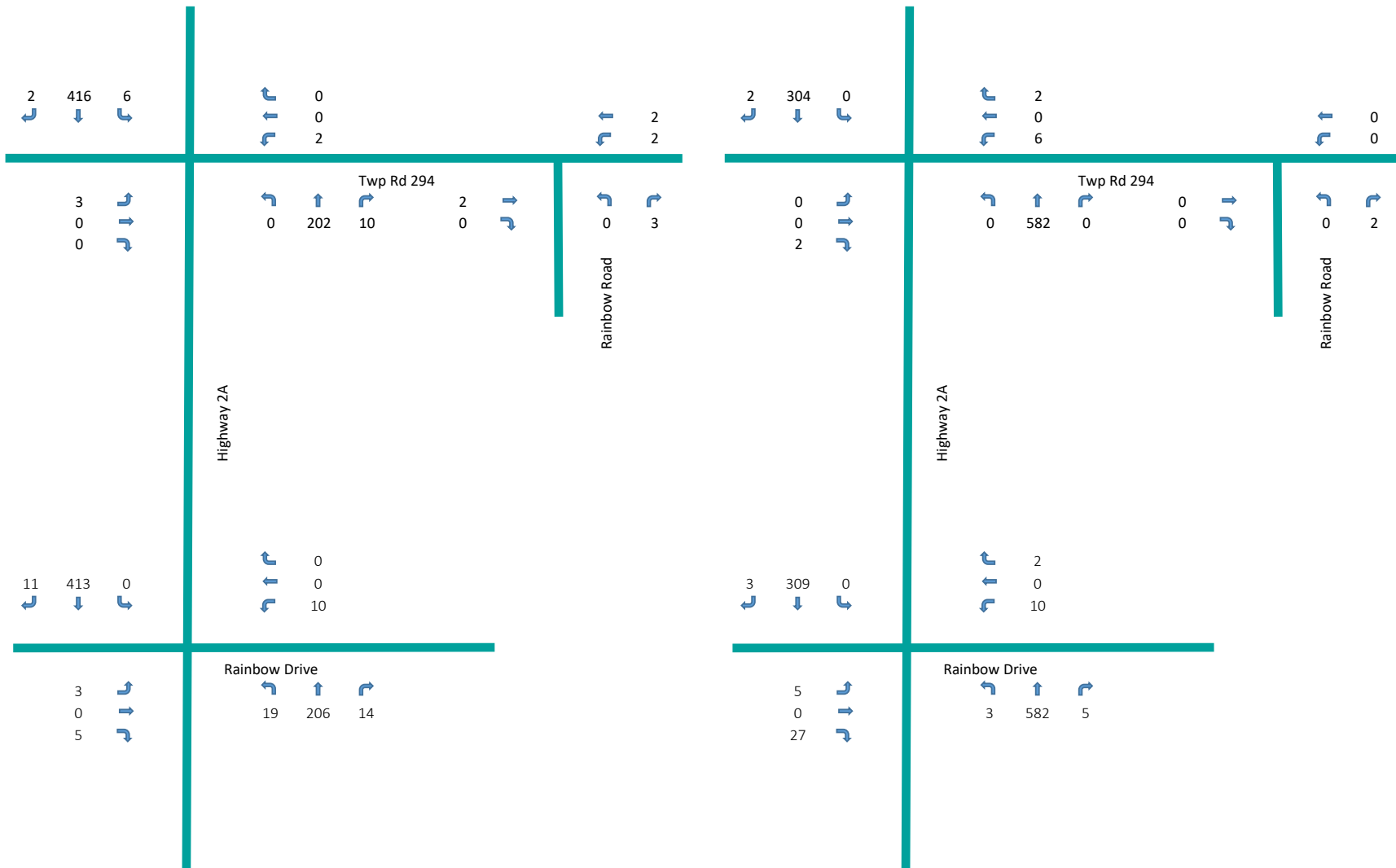
PM Peak



2050 Background Traffic

AM Peak

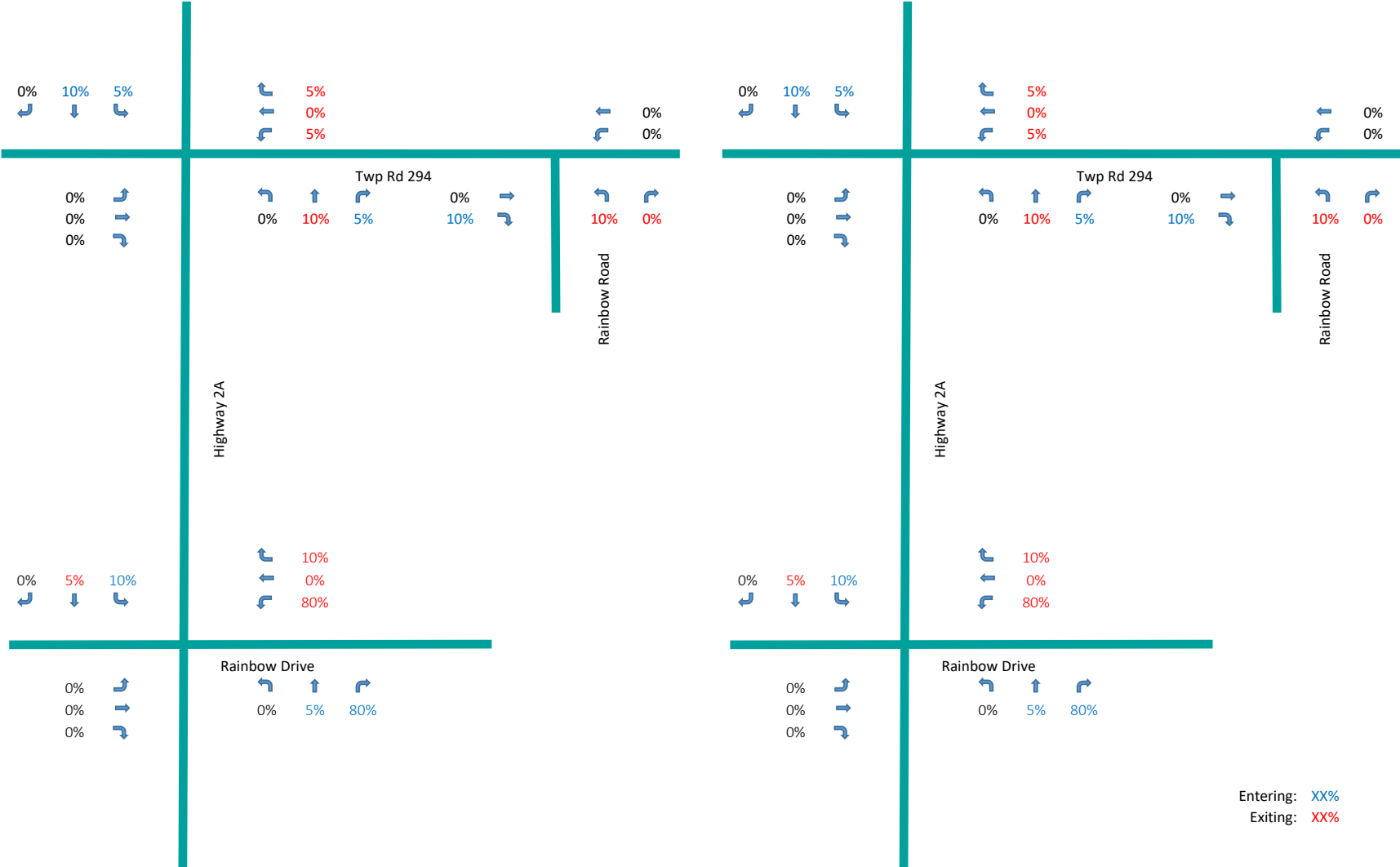
PM Peak



Generated Traffic Trip Distribution

AM Peak

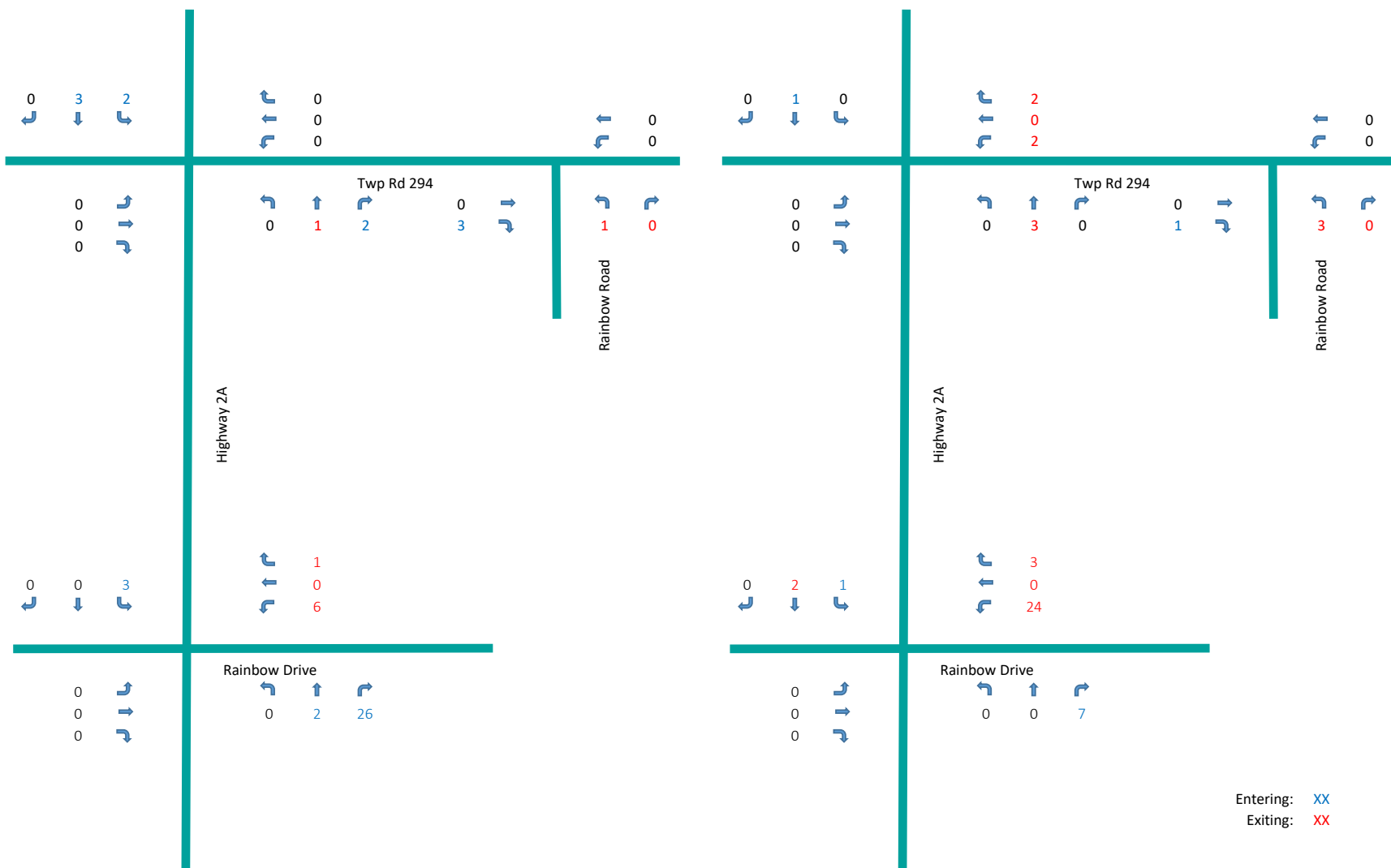
PM Peak



Phase 1 Generated Traffic

AM Peak

PM Peak

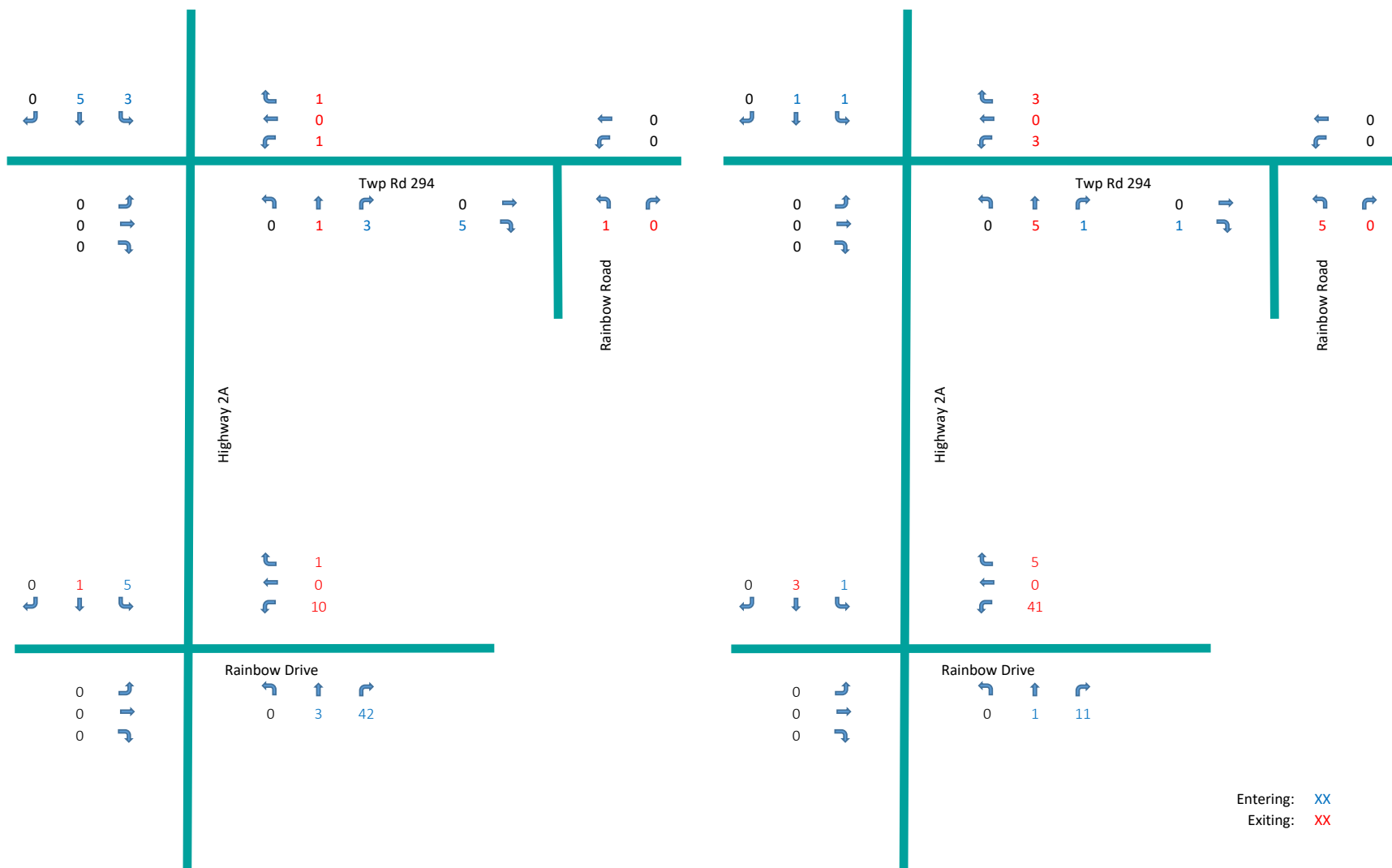


Entering: XX
 Exiting: XX

Phase 2 Generated Traffic

AM Peak

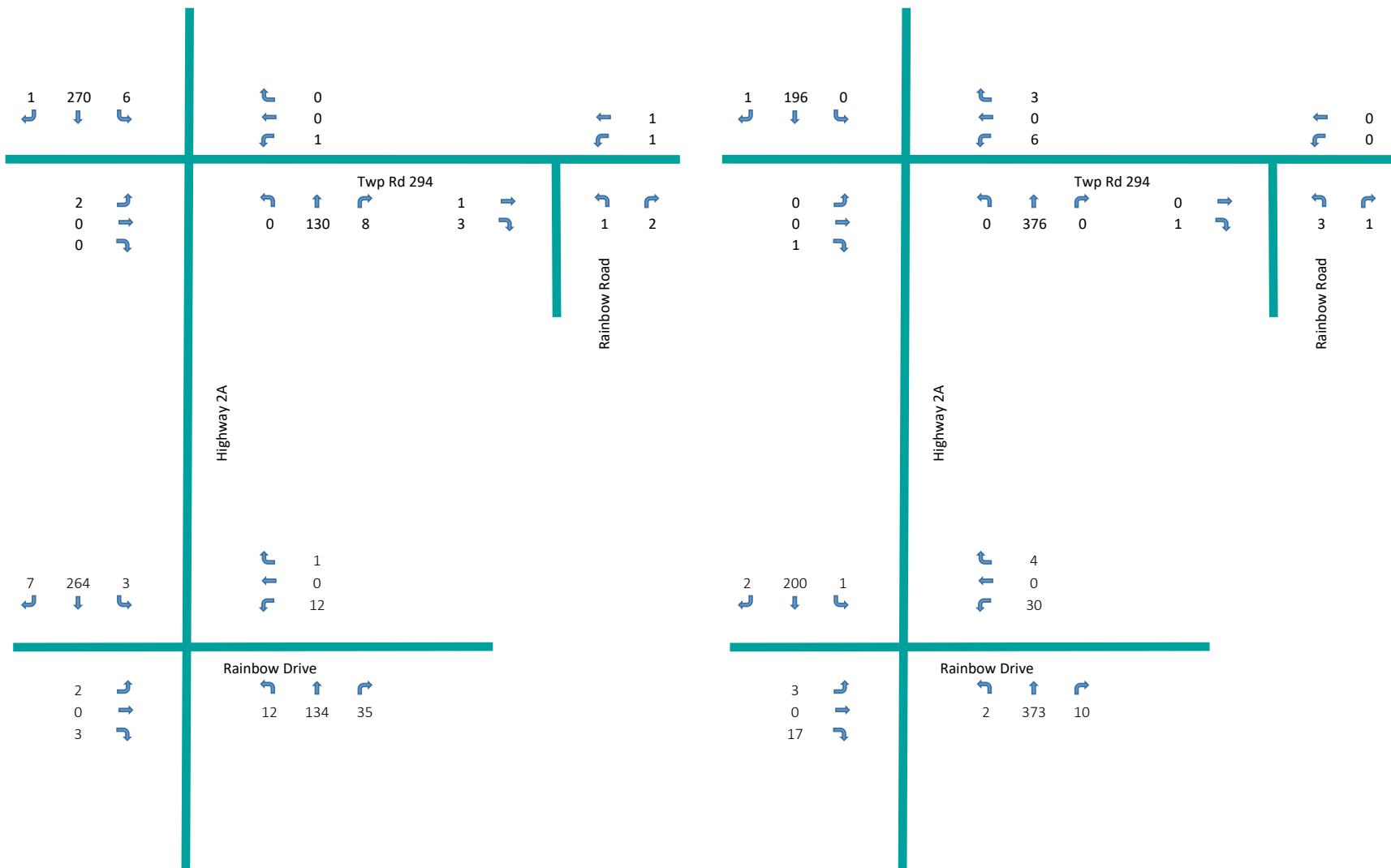
PM Peak



2027 Total Traffic

AM Peak

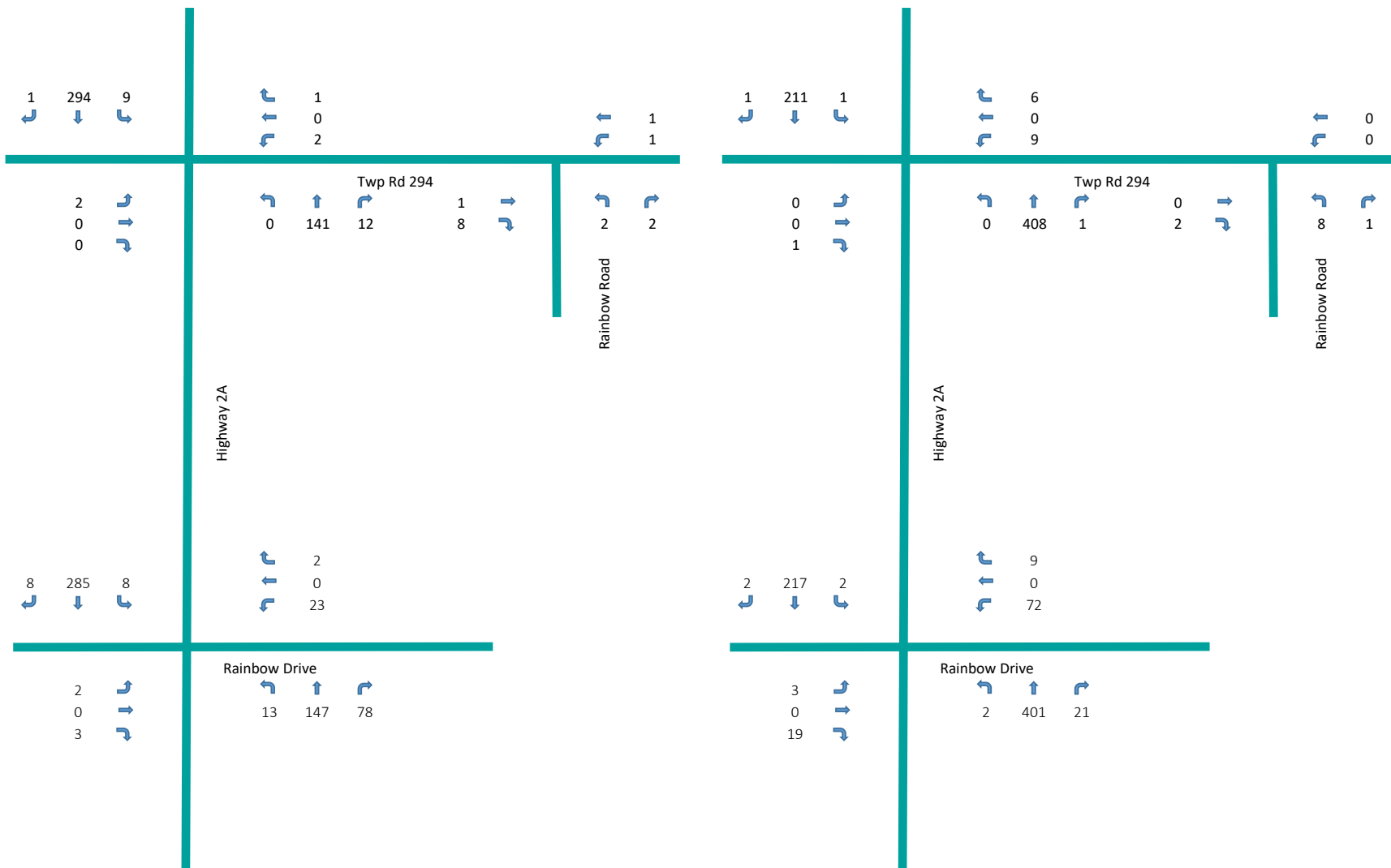
PM Peak



2030 Total Traffic

AM Peak

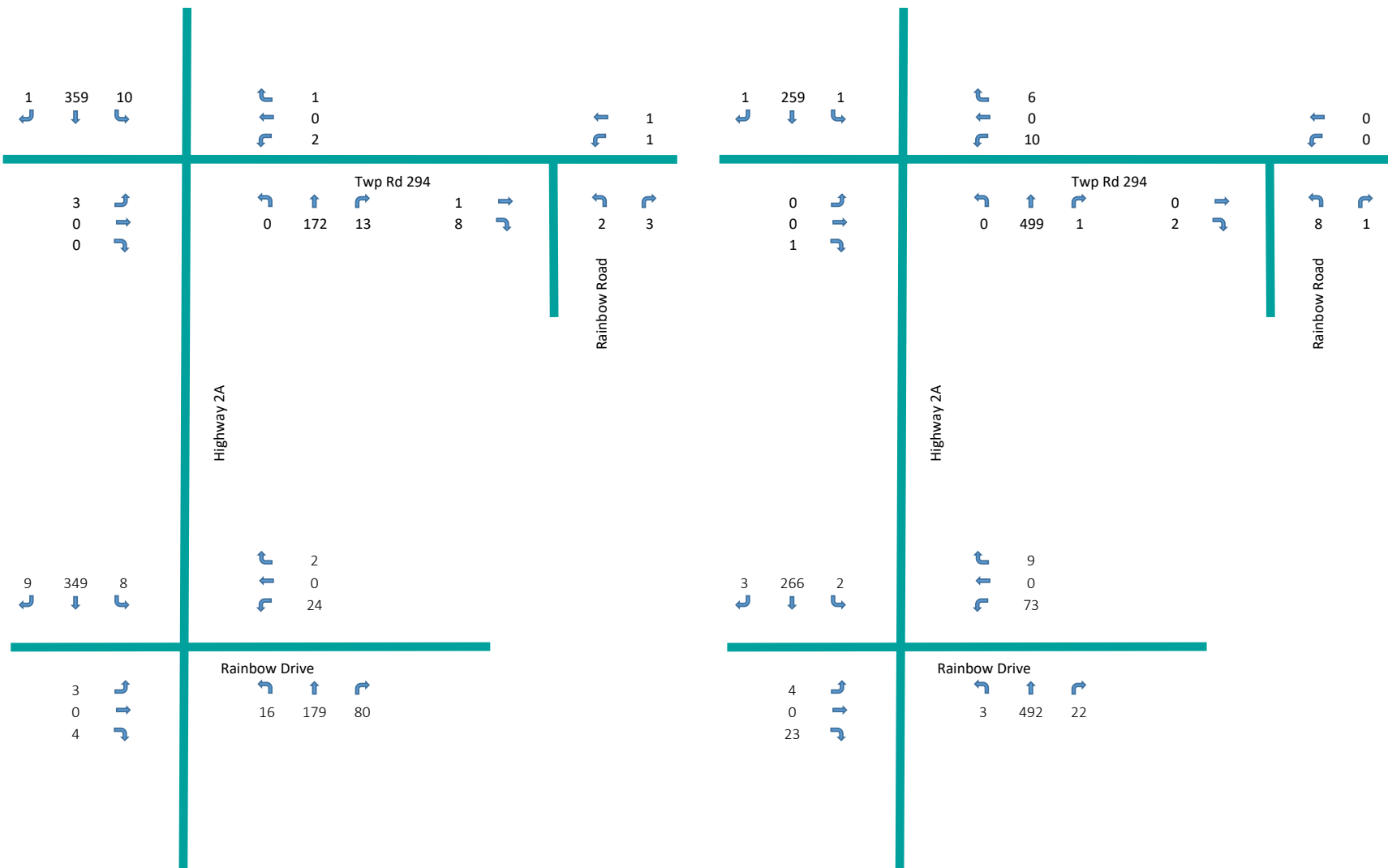
PM Peak



2040 Total Traffic

AM Peak

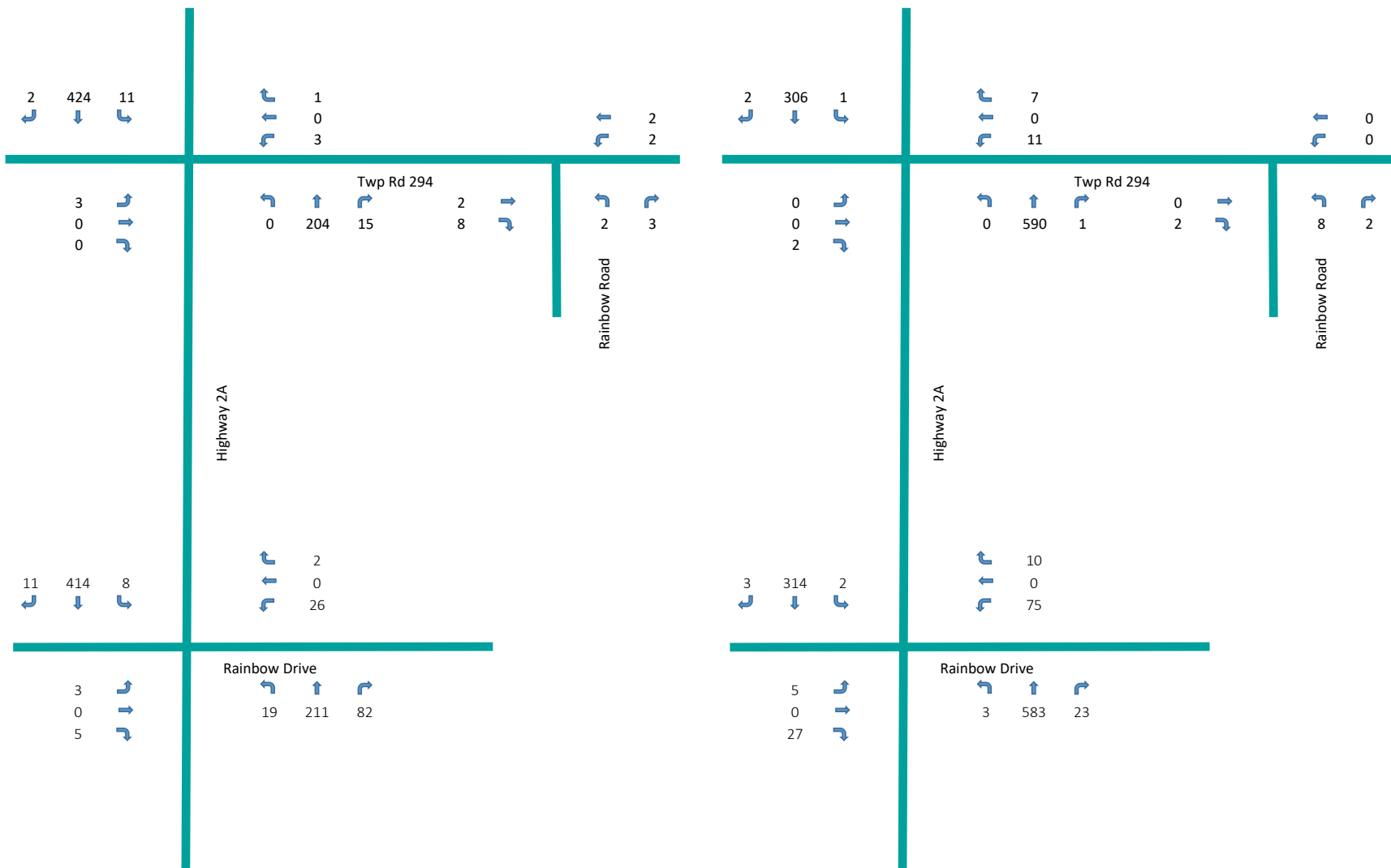
PM Peak



2050 Total Traffic

AM Peak

PM Peak



Appendix B

Capacity Analysis

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 2 | 0 | 3 | 6 | 0 | 0 | 12 | 130 | 9 | 0 | 261 | 7 |
| Future Vol, veh/h | 2 | 0 | 3 | 6 | 0 | 0 | 12 | 130 | 9 | 0 | 261 | 7 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 3 | 7 | 0 | 0 | 13 | 141 | 10 | 0 | 284 | 8 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 456 | 461 | 284 | 462 | 464 | 146 | 292 | 0 | 0 | 151 | 0 | 0 |
| Stage 1 | 284 | 284 | - | 172 | 172 | - | - | - | - | - | - | - |
| Stage 2 | 172 | 177 | - | 290 | 292 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 510 | 493 | 748 | 505 | 491 | 893 | 1253 | - | - | 1412 | - | - |
| Stage 1 | 717 | 671 | - | 823 | 751 | - | - | - | - | - | - | - |
| Stage 2 | 823 | 747 | - | 711 | 666 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 506 | 488 | 748 | 499 | 486 | 893 | 1253 | - | - | 1412 | - | - |
| Mov Cap-2 Maneuve | 506 | 488 | - | 499 | 486 | - | - | - | - | - | - | - |
| Stage 1 | 710 | 671 | - | 815 | 743 | - | - | - | - | - | - | - |
| Stage 2 | 814 | 740 | - | 708 | 666 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|-----|--|----|--|
| HCM Control Delay, s | 10.8 | | 12.3 | | 0.6 | | 0 | |
| HCM LOS | B | | B | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1253 | - | - | 628 | 499 | 1412 | - | - |
| HCM Lane V/C Ratio | 0.01 | - | - | 0.009 | 0.013 | - | - | - |
| HCM Control Delay (s) | 7.9 | - | - | 10.8 | 12.3 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 4 | 263 | 1 | 0 | 127 | 6 | 2 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 4 | 263 | 1 | 0 | 127 | 6 | 2 | 0 | 0 | 1 | 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 4 | 286 | 1 | 0 | 138 | 7 | 2 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 145 | 0 | 0 | 287 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 419 | - | - | 1258 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 419 | - | - | 1258 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.1 | 0 | 11.9 | 11.8 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 524 | 1258 | - | - | 1419 | - | - | 527 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.003 | - | - | 0.002 |
| HCM Control Delay (s) | 11.9 | 0 | - | - | 7.5 | 0 | - | 11.8 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 4.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↔ | | | ↔ | ↔ | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 2 |
| Future Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 0 | 1 | 1 | 0 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 4 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1010 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1009 |
| Mov Cap-2 Maneuver | - | - | - | - | 1009 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1075 | - | - | 1602 | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.4 | - | - | 7.2 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 2 | 0 | 17 | 6 | 0 | 1 | 2 | 368 | 3 | 0 | 195 | 2 |
| Future Vol, veh/h | 2 | 0 | 17 | 6 | 0 | 1 | 2 | 368 | 3 | 0 | 195 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 18 | 7 | 0 | 1 | 2 | 400 | 3 | 0 | 212 | 2 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 618 | 619 | 212 | 628 | 620 | 402 | 214 | 0 | 0 | 403 | 0 | 0 |
| Stage 1 | 212 | 212 | - | 406 | 406 | - | - | - | - | - | - | - |
| Stage 2 | 406 | 407 | - | 222 | 214 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 897 | 400 | 821 | 391 | 400 | 642 | 1338 | - | - | 1140 | - | - |
| Stage 1 | 783 | 721 | - | 616 | 593 | - | - | - | - | - | - | - |
| Stage 2 | 616 | 592 | - | 774 | 720 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 896 | 400 | 821 | 382 | 400 | 642 | 1338 | - | - | 1140 | - | - |
| Mov Cap-2 Maneuve | 896 | 400 | - | 382 | 400 | - | - | - | - | - | - | - |
| Stage 1 | 782 | 721 | - | 615 | 592 | - | - | - | - | - | - | - |
| Stage 2 | 614 | 591 | - | 757 | 720 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|-------------------------|----|--|------|--|----|--|----|--|
| HCM Control Delay, s/10 | | | 14.1 | | 0 | | 0 | |
| HCM LOS | B | | B | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1338 | - | - | 738 | 405 | 1140 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.028 | 0.019 | - | - | - |
| HCM Control Delay (s) | 7.7 | - | - | 10 | 14.1 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 192 | 1 | 0 | 368 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| Future Vol, veh/h | 0 | 192 | 1 | 0 | 368 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 209 | 1 | 0 | 400 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 400 | 0 | 0 | 210 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 143 | - | - | 1343 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 143 | - | - | 1343 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|------|
| HCM Control Delay, s | 0 | 0 | 9.4 | 13.4 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|------|-----|-----|--------|
| Capacity (veh/h) | 824 | 1343 | - | - | 1143 | - | - | 435 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | - | - | - | -0.012 |
| HCM Control Delay (s) | 9.4 | 0 | - | - | 0 | - | - | 13.4 |
| HCM Lane LOS | A | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 2.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↔ | | | ↔ | ↔ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 2 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 1 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major MvmNBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|------|
| Capacity (veh/h) | 1075 | - | - | 1602 |
| HCM Lane V/C Ratio | 0.001 | - | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 0 |
| HCM Lane LOS | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 2 | 0 | 3 | 6 | 0 | 0 | 12 | 132 | 9 | 0 | 264 | 7 |
| Future Vol, veh/h | 2 | 0 | 3 | 6 | 0 | 0 | 12 | 132 | 9 | 0 | 264 | 7 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 3 | 7 | 0 | 0 | 13 | 143 | 10 | 0 | 287 | 8 |

| Major/Minor | Minor2 | Minor1 | | Major1 | | Major2 | | | | | | |
|----------------------|--------|--------|-------|--------|-------|--------|-------|---|---|-------|---|---|
| Conflicting Flow All | 461 | 466 | 287 | 467 | 469 | 148 | 295 | 0 | 0 | 153 | 0 | 0 |
| Stage 1 | 287 | 287 | - | 174 | 174 | - | - | - | - | - | - | - |
| Stage 2 | 174 | 179 | - | 293 | 295 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 506 | 490 | 745 | 501 | 488 | 891 | 1249 | - | - | 1409 | - | - |
| Stage 1 | 714 | 669 | - | 821 | 749 | - | - | - | - | - | - | - |
| Stage 2 | 821 | 746 | - | 709 | 664 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 502 | 485 | 745 | 495 | 483 | 891 | 1249 | - | - | 1409 | - | - |
| Mov Cap-2 Maneuve | 502 | 485 | - | 495 | 483 | - | - | - | - | - | - | - |
| Stage 1 | 707 | 669 | - | 813 | 742 | - | - | - | - | - | - | - |
| Stage 2 | 812 | 739 | - | 706 | 664 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|------|------|-----|----|
| HCM Control Delay, s | 10.8 | 12.4 | 0.6 | 0 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1249 | - | - | 624 | 495 | 1409 | - | - |
| HCM Lane V/C Ratio | 0.01 | - | - | 0.009 | 0.013 | - | - | - |
| HCM Control Delay (s) | 7.9 | - | - | 10.8 | 12.4 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 4 | 267 | 1 | 0 | 129 | 6 | 2 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 4 | 267 | 1 | 0 | 129 | 6 | 2 | 0 | 0 | 1 | 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 4 | 290 | 1 | 0 | 140 | 7 | 2 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 147 | 0 | 0 | 291 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 417 | - | - | 1254 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 417 | - | - | 1254 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|----|------|
| HCM Control Delay, s | 0.1 | 0 | 12 | 11.9 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 520 | 1254 | - | - | 1417 | - | - | 522 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.003 | - | - | 0.002 |
| HCM Control Delay (s) | 12 | 0 | - | - | 7.5 | 0 | - | 11.9 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 4.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 2 |
| Future Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 0 | 1 | 1 | 0 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 4 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1010 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1009 |
| Mov Cap-2 Maneuver | - | - | - | - | 1009 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1075 | - | - | 1602 | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.4 | - | - | 7.2 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 17 | 6 | 0 | 1 | 2 | 373 | 3 | 0 | 198 | 2 |
| Future Vol, veh/h | 3 | 0 | 17 | 6 | 0 | 1 | 2 | 373 | 3 | 0 | 198 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 18 | 7 | 0 | 1 | 2 | 405 | 3 | 0 | 215 | 2 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 626 | 627 | 215 | 636 | 628 | 407 | 217 | 0 | 0 | 408 | 0 | 0 |
| Stage 1 | 215 | 215 | - | 411 | 411 | - | - | - | - | - | - | - |
| Stage 2 | 411 | 412 | - | 225 | 217 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 892 | 396 | 817 | 386 | 396 | 638 | 1335 | - | - | 1135 | - | - |
| Stage 1 | 780 | 719 | - | 612 | 590 | - | - | - | - | - | - | - |
| Stage 2 | 612 | 589 | - | 771 | 718 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 891 | 396 | 817 | 377 | 396 | 638 | 1335 | - | - | 1135 | - | - |
| Mov Cap-2 Maneuve | 891 | 396 | - | 377 | 396 | - | - | - | - | - | - | - |
| Stage 1 | 779 | 719 | - | 611 | 589 | - | - | - | - | - | - | - |
| Stage 2 | 610 | 588 | - | 754 | 718 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|----|--|----|--|
| HCM Control Delay, s | 10.3 | | 14.2 | | 0 | | 0 | |
| HCM LOS | B | | B | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1335 | - | - | 702 | 400 | 1135 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.031 | 0.019 | - | - | - |
| HCM Control Delay (s) | 7.7 | - | - | 10.3 | 14.2 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 0 | 195 | 1 | 0 | 373 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| Future Vol, veh/h | 0 | 195 | 1 | 0 | 373 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 212 | 1 | 0 | 405 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 405 | 0 | 0 | 213 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 138 | - | - | 1340 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 138 | - | - | 1340 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|------|
| HCM Control Delay, s | 0 | 0 | 9.4 | 13.5 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|------|-----|-----|--------|
| Capacity (veh/h) | 821 | 1340 | - | - | 1138 | - | - | 430 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | 0 | - | - | -0.013 |
| HCM Control Delay (s) | 9.4 | 0 | - | - | 0 | - | - | 13.5 |
| HCM Lane LOS | A | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 2.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↔ | | | ↔ | ↔ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 2 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 1 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major MvmNBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|------|
| Capacity (veh/h) | 1075 | - | - | 1602 |
| HCM Lane V/C Ratio | 0.001 | - | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 0 |
| HCM Lane LOS | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 2 | 0 | 3 | 12 | 0 | 1 | 12 | 134 | 35 | 3 | 264 | 7 |
| Future Vol, veh/h | 2 | 0 | 3 | 12 | 0 | 1 | 12 | 134 | 35 | 3 | 264 | 7 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 3 | 13 | 0 | 1 | 13 | 146 | 38 | 3 | 287 | 8 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 485 | 503 | 287 | 490 | 492 | 165 | 295 | 0 | 0 | 184 | 0 | 0 |
| Stage 1 | 293 | 293 | - | 191 | 191 | - | - | - | - | - | - | - |
| Stage 2 | 192 | 210 | - | 299 | 301 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuver | 487 | 467 | 745 | 484 | 473 | 872 | 1249 | - | - | 1373 | - | - |
| Stage 1 | 709 | 665 | - | 804 | 737 | - | - | - | - | - | - | - |
| Stage 2 | 803 | 723 | - | 703 | 660 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 482 | 461 | 745 | 477 | 467 | 872 | 1249 | - | - | 1373 | - | - |
| Mov Cap-2 Maneuver | 482 | 461 | - | 477 | 467 | - | - | - | - | - | - | - |
| Stage 1 | 702 | 663 | - | 796 | 730 | - | - | - | - | - | - | - |
| Stage 2 | 794 | 716 | - | 698 | 658 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 10.9 | | 12.5 | | 0.5 | | 0.1 | |
| HCM LOS | B | | B | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1249 | - | - | 612 | 494 | 1373 | - | - |
| HCM Lane V/C Ratio | 0.01 | - | - | 0.009 | 0.029 | 0.002 | - | - |
| HCM Control Delay (s) | 7.9 | - | - | 10.9 | 12.5 | 7.6 | 0 | - |
| HCM Lane LOS | A | - | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 6 | 270 | 1 | 0 | 130 | 8 | 2 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 6 | 270 | 1 | 0 | 130 | 8 | 2 | 0 | 0 | 1 | 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 7 | 293 | 1 | 0 | 141 | 9 | 2 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 150 | 0 | 0 | 294 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 413 | - | - | 1251 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 413 | - | - | 1251 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|----|
| HCM Control Delay, s | 0.2 | 0 | 12.1 | 12 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 509 | 1251 | - | - | 1413 | - | - | 512 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.005 | - | - | 0.002 |
| HCM Control Delay (s) | 12.1 | 0 | - | - | 7.6 | 0 | - | 12 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 3.6 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1 | 3 | 1 | 1 | 1 | 2 |
| Future Vol, veh/h | 1 | 3 | 1 | 1 | 1 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 3 | 1 | 1 | 1 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 4 | 0 | 6 |
| Stage 1 | - | - | - | - | 3 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1598 | - | 1008 |
| Stage 1 | - | - | - | - | 1012 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1598 | - | 1007 |
| Mov Cap-2 Maneuver | - | - | - | - | 1007 |
| Stage 1 | - | - | - | - | 1012 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1049 | - | - | 1598 | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.4 | - | - | 7.3 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 17 | 30 | 0 | 4 | 2 | 373 | 10 | 1 | 200 | 2 |
| Future Vol, veh/h | 3 | 0 | 17 | 30 | 0 | 4 | 2 | 373 | 10 | 1 | 200 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 18 | 33 | 0 | 4 | 2 | 405 | 11 | 1 | 217 | 2 |

| Major/Minor | Minor2 | Minor1 | | Major1 | | Major2 | | | | | | |
|----------------------|--------|--------|-------|--------|-------|--------|-------|---|---|-------|---|---|
| Conflicting Flow All | 636 | 639 | 217 | 644 | 636 | 411 | 219 | 0 | 0 | 416 | 0 | 0 |
| Stage 1 | 219 | 219 | - | 415 | 415 | - | - | - | - | - | - | - |
| Stage 2 | 417 | 420 | - | 229 | 221 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 886 | 390 | 815 | 382 | 392 | 634 | 1333 | - | - | 1127 | - | - |
| Stage 1 | 777 | 716 | - | 609 | 587 | - | - | - | - | - | - | - |
| Stage 2 | 607 | 584 | - | 767 | 715 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 883 | 389 | 815 | 372 | 391 | 634 | 1333 | - | - | 1127 | - | - |
| Mov Cap-2 Maneuve | 883 | 389 | - | 372 | 391 | - | - | - | - | - | - | - |
| Stage 1 | 775 | 715 | - | 608 | 586 | - | - | - | - | - | - | - |
| Stage 2 | 602 | 583 | - | 749 | 714 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|------|------|----|----|
| HCM Control Delay, s | 10.3 | 15.2 | 0 | 0 |
| HCM LOS | B | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1333 | - | - | 697 | 391 | 1127 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.031 | 0.095 | 0.001 | - | - |
| HCM Control Delay (s) | 7.7 | - | - | 10.3 | 15.2 | 8.2 | 0 | - |
| HCM Lane LOS | A | - | - | B | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.3 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 196 | 1 | 0 | 376 | 0 | 0 | 0 | 1 | 6 | 0 | 3 |
| Future Vol, veh/h | 0 | 196 | 1 | 0 | 376 | 0 | 0 | 0 | 1 | 6 | 0 | 3 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 213 | 1 | 0 | 409 | 0 | 0 | 0 | 1 | 7 | 0 | 3 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 409 | 0 | 0 | 214 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 134 | - | - | 1338 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 134 | - | - | 1338 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|------|
| HCM Control Delay, s | 0 | 0 | 9.4 | 13.2 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|------|-----|-----|--------|
| Capacity (veh/h) | 820 | 1338 | - | - | 1134 | - | - | 451 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | - | - | - | -0.022 |
| HCM Control Delay (s) | 9.4 | 0 | - | - | 0 | - | - | 13.2 |
| HCM Lane LOS | A | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.1 |

Intersection

Int Delay, s/veh 5.7

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|-------------------------|--------|------|--------|------|--------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 1 | 0 | 0 | 3 | 1 |
| Future Vol, veh/h | 0 | 1 | 0 | 0 | 3 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 1 | 0 | 0 | 3 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 1 |
| Stage 1 | - | - | - |
| Stage 2 | - | - | - |
| Critical Hdwy | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - |
| Critical Hdwy Stg 2 | - | - | - |
| Follow-up Hdwy | - | - | 2.245 |
| Pot Cap-1 Maneuver | - | - | 1602 |
| Stage 1 | - | - | - |
| Stage 2 | - | - | - |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 |
| Mov Cap-2 Maneuver | - | - | - |
| Stage 1 | - | - | - |
| Stage 2 | - | - | - |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.5 |
| HCM LOS | | | A |

| Minor Lane/Major MvmNBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|------|
| Capacity (veh/h) | 1028 | - | - | 1602 |
| HCM Lane V/C Ratio | 0.004 | - | - | - |
| HCM Control Delay (s) | 8.5 | - | - | 0 |
| HCM Lane LOS | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 |

Intersection

Int Delay, s/veh 0.5

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 2 | 0 | 3 | 7 | 0 | 0 | 13 | 142 | 10 | 0 | 284 | 8 |
| Future Vol, veh/h | 2 | 0 | 3 | 7 | 0 | 0 | 13 | 142 | 10 | 0 | 284 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 3 | 8 | 0 | 0 | 14 | 154 | 11 | 0 | 309 | 9 |

| Major/Minor | Minor2 | Minor1 | | Major1 | | Major2 | | | | | | |
|----------------------|--------|--------|-------|--------|-------|--------|-------|---|---|-------|---|---|
| Conflicting Flow All | 497 | 502 | 309 | 503 | 506 | 160 | 318 | 0 | 0 | 165 | 0 | 0 |
| Stage 1 | 309 | 309 | - | 188 | 188 | - | - | - | - | - | - | - |
| Stage 2 | 188 | 193 | - | 315 | 318 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuver | 479 | 467 | 724 | 474 | 465 | 877 | 1225 | - | - | 1395 | - | - |
| Stage 1 | 695 | 654 | - | 807 | 739 | - | - | - | - | - | - | - |
| Stage 2 | 807 | 735 | - | 690 | 648 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 475 | 462 | 724 | 468 | 460 | 877 | 1225 | - | - | 1395 | - | - |
| Mov Cap-2 Maneuver | 475 | 462 | - | 468 | 460 | - | - | - | - | - | - | - |
| Stage 1 | 687 | 654 | - | 798 | 731 | - | - | - | - | - | - | - |
| Stage 2 | 798 | 727 | - | 687 | 648 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|-----|------|-----|----|
| HCM Control Delay, s | 1.1 | 12.8 | 0.6 | 0 |
| HCM LOS | B | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1225 | - | - | 599 | 468 | 1395 | - | - |
| HCM Lane V/C Ratio | 0.012 | - | - | 0.009 | 0.016 | - | - | - |
| HCM Control Delay (s) | 8 | - | - | 11.1 | 12.8 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 4 | 286 | 1 | 0 | 139 | 7 | 2 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 4 | 286 | 1 | 0 | 139 | 7 | 2 | 0 | 0 | 1 | 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 4 | 311 | 1 | 0 | 151 | 8 | 2 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 159 | 0 | 0 | 312 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 402 | - | - | 1232 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 402 | - | - | 1232 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.1 | 0 | 12.3 | 12.3 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 495 | 1232 | - | - | 1402 | - | - | 497 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.003 | - | - | 0.002 |
| HCM Control Delay (s) | 12.3 | 0 | - | - | 7.6 | 0 | - | 12.3 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 4.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 2 |
| Future Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 0 | 1 | 1 | 0 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 4 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1010 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1009 |
| Mov Cap-2 Maneuver | - | - | - | - | 1009 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1075 | - | - | 1602 | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.4 | - | - | 7.2 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 19 | 7 | 0 | 1 | 2 | 400 | 3 | 0 | 212 | 2 |
| Future Vol, veh/h | 3 | 0 | 19 | 7 | 0 | 1 | 2 | 400 | 3 | 0 | 212 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 21 | 8 | 0 | 1 | 2 | 435 | 3 | 0 | 230 | 2 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 671 | 672 | 230 | 683 | 673 | 437 | 232 | 0 | 0 | 438 | 0 | 0 |
| Stage 1 | 230 | 230 | - | 441 | 441 | - | - | - | - | - | - | - |
| Stage 2 | 441 | 442 | - | 242 | 232 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 366 | 373 | 802 | 359 | 373 | 613 | 1318 | - | - | 1106 | - | - |
| Stage 1 | 766 | 708 | - | 589 | 572 | - | - | - | - | - | - | - |
| Stage 2 | 589 | 571 | - | 755 | 707 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 365 | 372 | 802 | 349 | 372 | 613 | 1318 | - | - | 1106 | - | - |
| Mov Cap-2 Maneuve | 365 | 372 | - | 349 | 372 | - | - | - | - | - | - | - |
| Stage 1 | 764 | 708 | - | 588 | 571 | - | - | - | - | - | - | - |
| Stage 2 | 587 | 570 | - | 736 | 707 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|----|--|----|--|----|--|
| HCM Control Delay, s | 10.4 | | 15 | | 0 | | 0 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1318 | - | - | 689 | 369 | 1106 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.035 | 0.024 | - | - | - |
| HCM Control Delay (s) | 7.7 | - | - | 10.4 | 15 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | C | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 209 | 1 | 0 | 400 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| Future Vol, veh/h | 0 | 209 | 1 | 0 | 400 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 227 | 1 | 0 | 435 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 435 | 0 | 0 | 228 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 109 | - | - | 1323 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 109 | - | - | 1323 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|------|
| HCM Control Delay, s | 0 | 0 | 9.5 | 14.1 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|------|-----|-----|--------|
| Capacity (veh/h) | 805 | 1323 | - | - | 1109 | - | - | 403 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | - | - | - | -0.013 |
| HCM Control Delay (s) | 9.5 | 0 | - | - | 0 | - | - | 14.1 |
| HCM Lane LOS | A | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 2.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 2 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 1 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 1075 | - | - | 1602 | - |
| HCM Lane V/C Ratio | 0.001 | - | - | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 0 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 2 | 0 | 3 | 23 | 0 | 2 | 13 | 147 | 78 | 8 | 285 | 8 |
| Future Vol, veh/h | 2 | 0 | 3 | 23 | 0 | 2 | 13 | 147 | 78 | 8 | 285 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 3 | 25 | 0 | 2 | 14 | 160 | 85 | 9 | 310 | 9 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 560 | 601 | 310 | 565 | 568 | 203 | 319 | 0 | 0 | 245 | 0 | 0 |
| Stage 1 | 328 | 328 | - | 231 | 231 | - | - | - | - | - | - | - |
| Stage 2 | 232 | 273 | - | 334 | 337 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuver | 434 | 410 | 723 | 431 | 428 | 830 | 1224 | - | - | 1304 | - | - |
| Stage 1 | 679 | 642 | - | 765 | 708 | - | - | - | - | - | - | - |
| Stage 2 | 764 | 678 | - | 674 | 636 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 427 | 402 | 723 | 423 | 420 | 830 | 1224 | - | - | 1304 | - | - |
| Mov Cap-2 Maneuver | 427 | 402 | - | 423 | 420 | - | - | - | - | - | - | - |
| Stage 1 | 672 | 637 | - | 757 | 700 | - | - | - | - | - | - | - |
| Stage 2 | 753 | 671 | - | 666 | 631 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|-----|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 1.4 | | 13.7 | | 0.4 | | 0.2 | |
| HCM LOS | B | | B | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1224 | - | - | 566 | 440 | 1304 | - | - |
| HCM Lane V/C Ratio | 0.012 | - | - | 0.01 | 0.062 | 0.007 | - | - |
| HCM Control Delay (s) | 8 | - | - | 11.4 | 13.7 | 7.8 | 0 | - |
| HCM Lane LOS | A | - | - | B | B | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.2 | 0 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 9 | 294 | 1 | 0 | 141 | 12 | 2 | 0 | 0 | 2 | 0 | 1 |
| Future Vol, veh/h | 9 | 294 | 1 | 0 | 141 | 12 | 2 | 0 | 0 | 2 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 10 | 320 | 1 | 0 | 153 | 13 | 2 | 0 | 0 | 2 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 166 | 0 | 0 | 321 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 394 | - | - | 1222 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 394 | - | - | 1222 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.2 | 0 | 12.7 | 11.4 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 472 | 1222 | - | - | 1394 | - | - | 565 |
| HCM Lane V/C Ratio | 0.005 | - | - | - | 0.007 | - | - | 0.006 |
| HCM Control Delay (s) | 12.7 | 0 | - | - | 7.6 | 0 | - | 11.4 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 2.7 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1 | 8 | 1 | 1 | 2 | 2 |
| Future Vol, veh/h | 1 | 8 | 1 | 1 | 2 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 9 | 1 | 1 | 2 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 10 | 0 | 9 |
| Stage 1 | - | - | - | - | 6 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1590 | - | 1004 |
| Stage 1 | - | - | - | - | 1009 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1590 | - | 1003 |
| Mov Cap-2 Maneuver | - | - | - | - | 1003 |
| Stage 1 | - | - | - | - | 1009 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.5 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1034 | - | - | 1590 | - |
| HCM Lane V/C Ratio | 0.004 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.5 | - | - | 7.3 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.3 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 19 | 72 | 0 | 9 | 2 | 401 | 21 | 2 | 217 | 2 |
| Future Vol, veh/h | 3 | 0 | 19 | 72 | 0 | 9 | 2 | 401 | 21 | 2 | 217 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 21 | 78 | 0 | 10 | 2 | 436 | 23 | 2 | 236 | 2 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 697 | 703 | 236 | 704 | 694 | 448 | 238 | 0 | 0 | 459 | 0 | 0 |
| Stage 1 | 240 | 240 | - | 452 | 452 | - | - | - | - | - | - | - |
| Stage 2 | 457 | 463 | - | 252 | 242 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 852 | 358 | 796 | 348 | 363 | 604 | 1311 | - | - | 1086 | - | - |
| Stage 1 | 757 | 701 | - | 581 | 565 | - | - | - | - | - | - | - |
| Stage 2 | 578 | 559 | - | 746 | 700 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 845 | 357 | 796 | 338 | 362 | 604 | 1311 | - | - | 1086 | - | - |
| Mov Cap-2 Maneuve | 845 | 357 | - | 338 | 362 | - | - | - | - | - | - | - |
| Stage 1 | 755 | 700 | - | 580 | 564 | - | - | - | - | - | - | - |
| Stage 2 | 568 | 558 | - | 725 | 699 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|----|--|-----|--|
| HCM Control Delay, s | 10.5 | | 18.5 | | 0 | | 0.1 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1311 | - | - | 676 | 355 | 1086 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.035 | 0.248 | 0.002 | - | - |
| HCM Control Delay (s) | 7.8 | - | - | 10.5 | 18.5 | 8.3 | 0 | - |
| HCM Lane LOS | A | - | - | B | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 1 | 211 | 1 | 0 | 408 | 1 | 0 | 0 | 1 | 9 | 0 | 6 |
| Future Vol, veh/h | 1 | 211 | 1 | 0 | 408 | 1 | 0 | 0 | 1 | 9 | 0 | 6 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 229 | 1 | 0 | 443 | 1 | 0 | 0 | 1 | 10 | 0 | 7 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 444 | 0 | 0 | 230 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 100 | - | - | 1320 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 100 | - | - | 1320 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|------|
| HCM Control Delay, s | 0 | 0 | 9.5 | 13.6 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 803 | 1320 | - | - | 1100 | - | - | 433 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | 0.001 | - | - | 0.038 |
| HCM Control Delay (s) | 9.5 | 0 | - | - | 8.3 | 0 | - | 13.6 |
| HCM Lane LOS | A | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.1 |

Intersection

Int Delay, s/veh 6.5

| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
|-------------------------|------|------|------|------|------|------|
| Lane Configurations | ↔ | | | ↔ | ↔ | |
| Traffic Vol, veh/h | 0 | 2 | 0 | 0 | 8 | 1 |
| Future Vol, veh/h | 0 | 2 | 0 | 0 | 8 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 2 | 0 | 0 | 9 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 2 |
| Stage 1 | - | - | 1 |
| Stage 2 | - | - | 1 |
| Critical Hdwy | - | 4.15 | 6.45 |
| Critical Hdwy Stg 1 | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | 5.45 |
| Follow-up Hdwy | - | 2.245 | 3.345 |
| Pot Cap-1 Maneuver | - | 1601 | 1013 |
| Stage 1 | - | - | 1014 |
| Stage 2 | - | - | 1014 |
| Platoon blocked, % | - | - | - |
| Mov Cap-1 Maneuver | - | 1601 | 1013 |
| Mov Cap-2 Maneuver | - | - | 1013 |
| Stage 1 | - | - | 1014 |
| Stage 2 | - | - | 1014 |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.6 |
| HCM LOS | | | A |

| Minor Lane/Major MvmNBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|------|-----|------|-----|
| Capacity (veh/h) | 1020 | - | 1601 | - |
| HCM Lane V/C Ratio | 0.01 | - | - | - |
| HCM Control Delay (s) | 8.6 | - | 0 | - |
| HCM Lane LOS | A | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 4 | 8 | 0 | 0 | 16 | 174 | 12 | 0 | 348 | 9 |
| Future Vol, veh/h | 3 | 0 | 4 | 8 | 0 | 0 | 16 | 174 | 12 | 0 | 348 | 9 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 4 | 9 | 0 | 0 | 17 | 189 | 13 | 0 | 378 | 10 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 608 | 614 | 378 | 615 | 618 | 196 | 388 | 0 | 0 | 202 | 0 | 0 |
| Stage 1 | 378 | 378 | - | 230 | 230 | - | - | - | - | - | - | - |
| Stage 2 | 230 | 236 | - | 385 | 388 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuver | 403 | 403 | 662 | 399 | 401 | 838 | 1154 | - | - | 1352 | - | - |
| Stage 1 | 638 | 610 | - | 766 | 708 | - | - | - | - | - | - | - |
| Stage 2 | 766 | 704 | - | 632 | 604 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 399 | 397 | 662 | 392 | 395 | 838 | 1154 | - | - | 1352 | - | - |
| Mov Cap-2 Maneuver | 399 | 397 | - | 392 | 395 | - | - | - | - | - | - | - |
| Stage 1 | 628 | 610 | - | 755 | 697 | - | - | - | - | - | - | - |
| Stage 2 | 755 | 693 | - | 628 | 604 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|-----|--|----|--|
| HCM Control Delay, s | 12.1 | | 14.4 | | 0.6 | | 0 | |
| HCM LOS | B | | B | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1154 | - | - | 516 | 392 | 1352 | - | - |
| HCM Lane V/C Ratio | 0.015 | - | - | 0.015 | 0.022 | - | - | - |
| HCM Control Delay (s) | 8.2 | - | - | 12.1 | 14.4 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | B | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 5 | 351 | 1 | 0 | 170 | 8 | 3 | 0 | 0 | 1 | 0 | 0 |
| Future Vol, veh/h | 5 | 351 | 1 | 0 | 170 | 8 | 3 | 0 | 0 | 1 | 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 5 | 382 | 1 | 0 | 185 | 9 | 3 | 0 | 0 | 1 | 0 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 194 | 0 | 0 | 383 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 361 | - | - | 1159 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 361 | - | - | 1159 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.1 | 0 | 13.7 | 13.6 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 418 | 1159 | - | - | 1361 | - | - | 421 |
| HCM Lane V/C Ratio | 0.008 | - | - | - | 0.004 | - | - | 0.003 |
| HCM Control Delay (s) | 13.7 | 0 | - | - | 7.7 | 0 | - | 13.6 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 5.4 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 3 |
| Future Vol, veh/h | 1 | 0 | 1 | 1 | 0 | 3 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 0 | 1 | 1 | 0 | 3 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 4 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1010 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1009 |
| Mov Cap-2 Maneuver | - | - | - | - | 1009 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1075 | - | - | 1602 | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.4 | - | - | 7.2 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 19 | 7 | 0 | 1 | 2 | 400 | 3 | 0 | 212 | 2 |
| Future Vol, veh/h | 3 | 0 | 19 | 7 | 0 | 1 | 2 | 400 | 3 | 0 | 212 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 21 | 8 | 0 | 1 | 2 | 435 | 3 | 0 | 230 | 2 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 671 | 672 | 230 | 683 | 673 | 437 | 232 | 0 | 0 | 438 | 0 | 0 |
| Stage 1 | 230 | 230 | - | 441 | 441 | - | - | - | - | - | - | - |
| Stage 2 | 441 | 442 | - | 242 | 232 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 366 | 373 | 802 | 359 | 373 | 613 | 1318 | - | - | 1106 | - | - |
| Stage 1 | 766 | 708 | - | 589 | 572 | - | - | - | - | - | - | - |
| Stage 2 | 589 | 571 | - | 755 | 707 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 365 | 372 | 802 | 349 | 372 | 613 | 1318 | - | - | 1106 | - | - |
| Mov Cap-2 Maneuve | 365 | 372 | - | 349 | 372 | - | - | - | - | - | - | - |
| Stage 1 | 764 | 708 | - | 588 | 571 | - | - | - | - | - | - | - |
| Stage 2 | 587 | 570 | - | 736 | 707 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|----|--|----|--|----|--|
| HCM Control Delay, s | 10.4 | | 15 | | 0 | | 0 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1318 | - | - | 689 | 369 | 1106 | - | - |
| HCM Lane V/C Ratio | 0.002 | - | - | 0.035 | 0.024 | - | - | - |
| HCM Control Delay (s) | 7.7 | - | - | 10.4 | 15 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | C | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.1 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.1

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 209 | 1 | 0 | 400 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| Future Vol, veh/h | 0 | 209 | 1 | 0 | 400 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 227 | 1 | 0 | 435 | 0 | 0 | 0 | 1 | 4 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 435 | 0 | 0 | 228 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 109 | - | - | 1323 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 109 | - | - | 1323 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|------|
| HCM Control Delay, s | 0 | 0 | 9.5 | 14.1 |
| HCM LOS | | | A | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|------|-----|-----|--------|
| Capacity (veh/h) | 805 | 1323 | - | - | 1109 | - | - | 403 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | - | - | - | -0.013 |
| HCM Control Delay (s) | 9.5 | 0 | - | - | 0 | - | - | 14.1 |
| HCM Lane LOS | A | A | - | - | A | - | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 2.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | ↔ | | | ↔ | ↔ | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | | | |
|----------------------|--------|--------|--------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 2 | 1 |
| Stage 1 | - | - | - | - | 1 | - |
| Stage 2 | - | - | - | - | 1 | - |
| Critical Hdwy | - | - | 4.15 | - | 6.45 | 6.25 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 | - |
| Follow-up Hdwy | - | - | 2.245 | - | 3.545 | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1013 | 1075 |
| Stage 1 | - | - | - | - | 1014 | - |
| Stage 2 | - | - | - | - | 1014 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1013 | 1075 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 | - |
| Stage 1 | - | - | - | - | 1014 | - |
| Stage 2 | - | - | - | - | 1014 | - |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major MvmNBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|------|
| Capacity (veh/h) | 1075 | - | - | 1602 |
| HCM Lane V/C Ratio | 0.001 | - | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 0 |
| HCM Lane LOS | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 4 | 24 | 0 | 2 | 16 | 179 | 80 | 8 | 349 | 9 |
| Future Vol, veh/h | 3 | 0 | 4 | 24 | 0 | 2 | 16 | 179 | 80 | 8 | 349 | 9 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 4 | 26 | 0 | 2 | 17 | 195 | 87 | 9 | 379 | 10 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 671 | 713 | 379 | 677 | 680 | 239 | 389 | 0 | 0 | 282 | 0 | 0 |
| Stage 1 | 397 | 397 | - | 273 | 273 | - | - | - | - | - | - | - |
| Stage 2 | 274 | 316 | - | 404 | 407 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 366 | 354 | 661 | 363 | 369 | 793 | 1153 | - | - | 1263 | - | - |
| Stage 1 | 623 | 598 | - | 726 | 678 | - | - | - | - | - | - | - |
| Stage 2 | 726 | 650 | - | 617 | 592 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 358 | 346 | 661 | 354 | 360 | 793 | 1153 | - | - | 1263 | - | - |
| Mov Cap-2 Maneuve | 358 | 346 | - | 354 | 360 | - | - | - | - | - | - | - |
| Stage 1 | 614 | 593 | - | 715 | 668 | - | - | - | - | - | - | - |
| Stage 2 | 713 | 640 | - | 607 | 587 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|-----|--|-----|--|
| HCM Control Delay, s | 12.5 | | 15.5 | | 0.5 | | 0.2 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1153 | - | - | 485 | 370 | 1263 | - | - |
| HCM Lane V/C Ratio | 0.015 | - | - | 0.016 | 0.076 | 0.007 | - | - |
| HCM Control Delay (s) | 8.2 | - | - | 12.5 | 15.5 | 7.9 | 0 | - |
| HCM Lane LOS | A | - | - | B | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | 0.2 | 0 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 10 | 359 | 1 | 0 | 172 | 13 | 3 | 0 | 0 | 2 | 0 | 1 |
| Future Vol, veh/h | 10 | 359 | 1 | 0 | 172 | 13 | 3 | 0 | 0 | 2 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 11 | 390 | 1 | 0 | 187 | 14 | 3 | 0 | 0 | 2 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 201 | 0 | 0 | 391 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 353 | - | - | 1151 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 353 | - | - | 1151 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.2 | 0 | 14.1 | 12.4 |
| HCM LOS | | | B | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|--------|-----|-----|--------|
| Capacity (veh/h) | 400 | 1151 | - | - | 1353 | - | - | 490 |
| HCM Lane V/C Ratio | 0.008 | - | - | - | -0.008 | - | - | -0.007 |
| HCM Control Delay (s) | 14.1 | 0 | - | - | 7.7 | 0 | - | 12.4 |
| HCM Lane LOS | B | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 3.1 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 1 | 8 | 1 | 1 | 2 | 3 |
| Future Vol, veh/h | 1 | 8 | 1 | 1 | 2 | 3 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 9 | 1 | 1 | 2 | 3 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|--------|-------|
| Conflicting Flow All | 0 | 0 | 10 | 0 | 9 |
| Stage 1 | - | - | - | - | 6 |
| Stage 2 | - | - | - | - | 3 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | -2.245 | - | -3.545 | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1590 | - | 1004 |
| Stage 1 | - | - | - | - | 1009 |
| Stage 2 | - | - | - | - | 1012 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1590 | - | 1003 |
| Mov Cap-2 Maneuver | - | - | - | - | 1003 |
| Stage 1 | - | - | - | - | 1009 |
| Stage 2 | - | - | - | - | 1011 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.5 |
| HCM LOS | | | A |

| Minor Lane/Major MvmNBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|-------|
| Capacity (veh/h) | 1041 | - | - | 1590 |
| HCM Lane V/C Ratio | 0.005 | - | - | 0.001 |
| HCM Control Delay (s) | 8.5 | - | - | 7.3 |
| HCM Lane LOS | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 4 | 0 | 23 | 73 | 0 | 9 | 3 | 492 | 22 | 2 | 266 | 3 |
| Future Vol, veh/h | 4 | 0 | 23 | 73 | 0 | 9 | 3 | 492 | 22 | 2 | 266 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 4 | 0 | 25 | 79 | 0 | 10 | 3 | 535 | 24 | 2 | 289 | 3 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 851 | 858 | 289 | 860 | 849 | 547 | 292 | 0 | 0 | 559 | 0 | 0 |
| Stage 1 | 293 | 293 | - | 553 | 553 | - | - | - | - | - | - | - |
| Stage 2 | 558 | 565 | - | 307 | 296 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuver | 277 | 291 | 743 | 273 | 295 | 531 | 1253 | - | - | 997 | - | - |
| Stage 1 | 709 | 665 | - | 512 | 509 | - | - | - | - | - | - | - |
| Stage 2 | 509 | 503 | - | 696 | 663 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 271 | 290 | 743 | 263 | 294 | 531 | 1253 | - | - | 997 | - | - |
| Mov Cap-2 Maneuver | 271 | 290 | - | 263 | 294 | - | - | - | - | - | - | - |
| Stage 1 | 708 | 664 | - | 511 | 508 | - | - | - | - | - | - | - |
| Stage 2 | 498 | 502 | - | 671 | 662 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|----|--|-----|--|
| HCM Control Delay, s | 14.4 | | 23.9 | | 0 | | 0.1 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1253 | - | - | 591 | 278 | 997 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.05 | 0.32 | 0.002 | - | - |
| HCM Control Delay (s) | 7.9 | - | - | 11.4 | 23.9 | 8.6 | 0 | - |
| HCM Lane LOS | A | - | - | B | C | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.2 | 1.3 | 0 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 1 | 259 | 1 | 0 | 499 | 1 | 0 | 0 | 1 | 10 | 0 | 6 |
| Future Vol, veh/h | 1 | 259 | 1 | 0 | 499 | 1 | 0 | 0 | 1 | 10 | 0 | 6 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 282 | 1 | 0 | 542 | 1 | 0 | 0 | 1 | 11 | 0 | 7 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 543 | 0 | 0 | 283 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 1011 | - | - | 1262 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 1011 | - | - | 1262 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|-----|----|
| HCM Control Delay, s | 0 | 0 | 9.8 | 16 |
| HCM LOS | | | A | C |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 750 | 1262 | - | - | 1011 | - | - | 346 |
| HCM Lane V/C Ratio | 0.001 | - | - | - | 0.001 | - | - | 0.05 |
| HCM Control Delay (s) | 9.8 | 0 | - | - | 8.6 | 0 | - | 16 |
| HCM Lane LOS | A | A | - | - | A | A | - | C |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.2 |

Intersection

Int Delay, s/veh 6.5

Movement EBT EBR WBL WBT NBL NBR

| | | | | | | |
|-------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 2 | 0 | 0 | 8 | 1 |
| Future Vol, veh/h | 0 | 2 | 0 | 0 | 8 | 1 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 2 | 0 | 0 | 9 | 1 |

Major/Minor Major1 Major2 Minor1

| | | | | | | |
|----------------------|---|---|-------|---|-------|-------|
| Conflicting Flow All | 0 | 0 | 2 | 0 | 2 | 1 |
| Stage 1 | - | - | - | - | 1 | - |
| Stage 2 | - | - | - | - | 1 | - |
| Critical Hdwy | - | - | 4.15 | - | 6.45 | 6.25 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 | - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 | - |
| Follow-up Hdwy | - | - | 2.245 | - | 3.545 | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1601 | - | 1013 | 1075 |
| Stage 1 | - | - | - | - | 1014 | - |
| Stage 2 | - | - | - | - | 1014 | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1601 | - | 1013 | 1075 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 | - |
| Stage 1 | - | - | - | - | 1014 | - |
| Stage 2 | - | - | - | - | 1014 | - |

Approach EB WB NB

| | | | |
|----------------------|---|---|-----|
| HCM Control Delay, s | 0 | 0 | 8.6 |
| HCM LOS | | | A |

Minor Lane/Major MvmNBLn1 EBT EBR WBL WBT

| | | | | | |
|-----------------------|------|---|---|------|---|
| Capacity (veh/h) | 1020 | - | - | 1601 | - |
| HCM Lane V/C Ratio | 0.01 | - | - | - | - |
| HCM Control Delay (s) | 8.6 | - | - | 0 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.6 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 5 | 10 | 0 | 0 | 19 | 206 | 14 | 0 | 413 | 11 |
| Future Vol, veh/h | 3 | 0 | 5 | 10 | 0 | 0 | 19 | 206 | 14 | 0 | 413 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 5 | 11 | 0 | 0 | 21 | 224 | 15 | 0 | 449 | 12 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 723 | 730 | 449 | 732 | 735 | 232 | 461 | 0 | 0 | 239 | 0 | 0 |
| Stage 1 | 449 | 449 | - | 274 | 274 | - | - | - | - | - | - | - |
| Stage 2 | 274 | 281 | - | 458 | 461 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 838 | 346 | 604 | 333 | 343 | 800 | 1084 | - | - | 1310 | - | - |
| Stage 1 | 584 | 567 | - | 726 | 678 | - | - | - | - | - | - | - |
| Stage 2 | 726 | 673 | - | 577 | 560 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 833 | 339 | 604 | 325 | 336 | 800 | 1084 | - | - | 1310 | - | - |
| Mov Cap-2 Maneuve | 833 | 339 | - | 325 | 336 | - | - | - | - | - | - | - |
| Stage 1 | 573 | 567 | - | 712 | 665 | - | - | - | - | - | - | - |
| Stage 2 | 712 | 660 | - | 572 | 560 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|------|--|-----|--|----|--|
| HCM Control Delay, s | 12.9 | | 16.5 | | 0.7 | | 0 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|------|-----|-----|
| Capacity (veh/h) | 1084 | - | - | 463 | 325 | 1310 | - | - |
| HCM Lane V/C Ratio | 0.019 | - | - | 0.019 | 0.033 | - | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 12.9 | 16.5 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | C | A | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | 0.1 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 6 | 416 | 2 | 0 | 202 | 10 | 3 | 0 | 0 | 2 | 0 | 0 |
| Future Vol, veh/h | 6 | 416 | 2 | 0 | 202 | 10 | 3 | 0 | 0 | 2 | 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 7 | 452 | 2 | 0 | 220 | 11 | 3 | 0 | 0 | 2 | 0 | 0 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 231 | 0 | 0 | 454 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 319 | - | - | 1091 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 319 | - | - | 1091 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.1 | 0 | 15.3 | 15.2 |
| HCM LOS | | | C | C |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|-------|------|-----|-----|-------|-----|-------|
| Capacity (veh/h) | | 352 | 1091 | - | - | 1319 | - | - |
| HCM Lane V/C Ratio | | 0.009 | - | - | - | 0.005 | - | - |
| HCM Control Delay (s) | | 15.3 | 0 | - | - | 7.7 | 0 | - |
| HCM Lane LOS | | C | A | - | - | A | A | - |
| HCM 95th %tile Q(veh) | | 0 | 0 | - | - | 0 | - | 0 |

| Intersection | | | | | | |
|-------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 4.4 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | T | | | T | T | |
| Traffic Vol, veh/h | 2 | 0 | 2 | 2 | 0 | 3 |
| Future Vol, veh/h | 2 | 0 | 2 | 2 | 0 | 3 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 0 | 2 | 2 | 0 | 3 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 2 | 0 | 8 2 |
| Stage 1 | - | - | - | - | 2 - |
| Stage 2 | - | - | - | - | 6 - |
| Critical Hdwy | - | - | 4.15 | - | 6.45 6.25 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 - |
| Follow-up Hdwy | - | - | 2.245 | - | 3.545 3.345 |
| Pot Cap-1 Maneuver | - | - | 1601 | - | 1005 1073 |
| Stage 1 | - | - | - | - | 1013 - |
| Stage 2 | - | - | - | - | 1009 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1601 | - | 1004 1073 |
| Mov Cap-2 Maneuver | - | - | - | - | 1004 - |
| Stage 1 | - | - | - | - | 1013 - |
| Stage 2 | - | - | - | - | 1008 - |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1073 | - | - | 1601 | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.4 | - | - | 7.3 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

Intersection

Int Delay, s/veh 0.7

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 5 | 0 | 27 | 10 | 0 | 2 | 3 | 582 | 5 | 0 | 309 | 3 |
| Future Vol, veh/h | 5 | 0 | 27 | 10 | 0 | 2 | 3 | 582 | 5 | 0 | 309 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage,-# | 0 | - | - | 0 | - | - | 0 | - | 0 | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 5 | 0 | 29 | 11 | 0 | 2 | 3 | 633 | 5 | 0 | 336 | 3 |

| Major/Minor | Minor2 | Minor1 | Major1 | Major2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 979 | 980 | 336 | 994 |
| Stage 1 | 336 | 336 | - | 642 |
| Stage 2 | 643 | 644 | - | 352 |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 |
| Pot Cap-1 Maneuver | 226 | 247 | 699 | 221 |
| Stage 1 | 672 | 637 | - | 458 |
| Stage 2 | 457 | 463 | - | 659 |
| Platoon blocked, % | | | | |
| Mov Cap-1 Maneuver | 225 | 247 | 699 | 211 |
| Mov Cap-2 Maneuver | 225 | 247 | - | 211 |
| Stage 1 | 671 | 637 | - | 457 |
| Stage 2 | 454 | 462 | - | 631 |

| Approach | EB | WB | NB | SB |
|----------------------|------|------|----|----|
| HCM Control Delay, s | 12.3 | 21.4 | 0 | 0 |
| HCM LOS | B | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-----|-----|-----|
| Capacity (veh/h) | 1204 | - | - | 526 | 232 | 932 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.066 | 0.056 | - | - | - |
| HCM Control Delay (s) | 8 | - | - | 12.3 | 21.4 | 0 | - | - |
| HCM Lane LOS | A | - | - | B | C | A | - | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.2 | 0.2 | 0 | - | - |

Intersection

Int Delay, s/veh 0.2

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 0 | 304 | 2 | 0 | 582 | 0 | 0 | 0 | 2 | 6 | 0 | 2 |
| Future Vol, veh/h | 0 | 304 | 2 | 0 | 582 | 0 | 0 | 0 | 2 | 6 | 0 | 2 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 330 | 2 | 0 | 633 | 0 | 0 | 0 | 2 | 7 | 0 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 633 | 0 | 0 | 332 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 936 | - | - | 1211 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 936 | - | - | 1211 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|------|------|
| HCM Control Delay, s | 0 | 0 | 10.1 | 19.1 |
| HCM LOS | | | B | C |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-----|-----|-----|--------|
| Capacity (veh/h) | 705 | 1211 | - | - | 936 | - | - | 264 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0 | - | - | -0.033 |
| HCM Control Delay (s) | 10.1 | 0 | - | - | 0 | - | - | 19.1 |
| HCM Lane LOS | B | A | - | - | A | - | - | C |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.1 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 4.2 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 2 |
| Future Vol, veh/h | 0 | 0 | 0 | 0 | 0 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 0 | 0 | 0 | 0 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 1 | 0 | 2 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 1 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1602 | - | 1013 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.4 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 1075 | - | - | 1602 | - |
| HCM Lane V/C Ratio | 0.002 | - | - | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 0 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 3 | 0 | 5 | 26 | 0 | 2 | 19 | 211 | 82 | 8 | 414 | 11 |
| Future Vol, veh/h | 3 | 0 | 5 | 26 | 0 | 2 | 19 | 211 | 82 | 8 | 414 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 3 | 0 | 5 | 28 | 0 | 2 | 21 | 229 | 89 | 9 | 450 | 12 |

| Major/Minor | Minor2 | | Minor1 | | Major1 | | Major2 | | | | | |
|----------------------|--------|-------|--------|-------|--------|-------|--------|---|---|-------|---|---|
| Conflicting Flow All | 785 | 828 | 450 | 793 | 796 | 274 | 462 | 0 | 0 | 318 | 0 | 0 |
| Stage 1 | 468 | 468 | - | 316 | 316 | - | - | - | - | - | - | - |
| Stage 2 | 317 | 360 | - | 477 | 480 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuve | 307 | 303 | 603 | 303 | 316 | 758 | 1084 | - | - | 1225 | - | - |
| Stage 1 | 570 | 556 | - | 689 | 650 | - | - | - | - | - | - | - |
| Stage 2 | 688 | 621 | - | 563 | 549 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuve | 299 | 294 | 603 | 294 | 307 | 758 | 1084 | - | - | 1225 | - | - |
| Mov Cap-2 Maneuve | 299 | 294 | - | 294 | 307 | - | - | - | - | - | - | - |
| Stage 1 | 559 | 550 | - | 676 | 638 | - | - | - | - | - | - | - |
| Stage 2 | 673 | 609 | - | 552 | 544 | - | - | - | - | - | - | - |

| Approach | EB | | WB | | NB | | SB | |
|----------------------|------|--|----|--|-----|--|-----|--|
| HCM Control Delay, s | 13.4 | | 18 | | 0.5 | | 0.1 | |
| HCM LOS | B | | C | | | | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1084 | - | - | 437 | 307 | 1225 | - | - |
| HCM Lane V/C Ratio | 0.019 | - | - | 0.020 | 0.099 | 0.007 | - | - |
| HCM Control Delay (s) | 8.4 | - | - | 13.4 | 18 | 8 | 0 | - |
| HCM Lane LOS | A | - | - | B | C | A | A | - |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.1 | 0.3 | 0 | - | - |

Intersection

Int Delay, s/veh 0.3

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | | ↕ | |
| Traffic Vol, veh/h | 11 | 424 | 2 | 0 | 204 | 15 | 3 | 0 | 0 | 3 | 0 | 1 |
| Future Vol, veh/h | 11 | 424 | 2 | 0 | 204 | 15 | 3 | 0 | 0 | 3 | 0 | 1 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 12 | 461 | 2 | 0 | 222 | 16 | 3 | 0 | 0 | 3 | 0 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 238 | 0 | 0 | 463 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 311 | - | - | 1083 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 311 | - | - | 1083 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|-----|----|------|------|
| HCM Control Delay, s | 0.2 | 0 | 15.8 | 14.1 |
| HCM LOS | | | C | B |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|--------|-----|-----|--------|
| Capacity (veh/h) | 338 | 1083 | - | - | 1311 | - | - | 401 |
| HCM Lane V/C Ratio | 0.01 | - | - | - | -0.009 | - | - | -0.011 |
| HCM Control Delay (s) | 15.8 | 0 | - | - | 7.8 | 0 | - | 14.1 |
| HCM Lane LOS | C | A | - | - | A | A | - | B |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 3 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 2 | 8 | 2 | 2 | 2 | 3 |
| Future Vol, veh/h | 2 | 8 | 2 | 2 | 2 | 3 |
| 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 2 | 9 | 2 | 2 | 2 | 3 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|--------|-------|
| Conflicting Flow All | 0 | 0 | 11 | 0 | 13 |
| Stage 1 | - | - | - | - | 7 |
| Stage 2 | - | - | - | - | 6 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | -2.245 | - | -3.545 | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1589 | - | 998 |
| Stage 1 | - | - | - | - | 1008 |
| Stage 2 | - | - | - | - | 1009 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1589 | - | 997 |
| Mov Cap-2 Maneuver | - | - | - | - | 997 |
| Stage 1 | - | - | - | - | 1008 |
| Stage 2 | - | - | - | - | 1008 |

| Approach | EB | WB | NB |
|----------------------|----|-----|-----|
| HCM Control Delay, s | 0 | 3.6 | 8.5 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 1038 | - | - | 1589 | - |
| HCM Lane V/C Ratio | 0.005 | - | - | 0.001 | - |
| HCM Control Delay (s) | 8.5 | - | - | 7.3 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 3.1 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | | ↕ | | | ↕ | | ↕ | ↕ | | | ↕ | ↕ |
| Traffic Vol, veh/h | 5 | 0 | 27 | 75 | 0 | 10 | 3 | 583 | 23 | 2 | 314 | 3 |
| Future Vol, veh/h | 5 | 0 | 27 | 75 | 0 | 10 | 3 | 583 | 23 | 2 | 314 | 3 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | - | - | - | - | 0 | - | - | - | - | 0 |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 5 | 0 | 29 | 82 | 0 | 11 | 3 | 634 | 25 | 2 | 341 | 3 |

| Major/Minor | Minor2 | Minor1 | | Major1 | | Major2 | | | | | | |
|----------------------|--------|--------|-------|--------|-------|--------|-------|---|---|-------|---|---|
| Conflicting Flow All | 1003 | 1010 | 341 | 1014 | 1001 | 647 | 344 | 0 | 0 | 659 | 0 | 0 |
| Stage 1 | 345 | 345 | - | 653 | 653 | - | - | - | - | - | - | - |
| Stage 2 | 658 | 665 | - | 361 | 348 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.15 | 6.55 | 6.25 | 7.15 | 6.55 | 6.25 | 4.15 | - | - | 4.15 | - | - |
| Critical Hdwy Stg 1 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.15 | 5.55 | - | 6.15 | 5.55 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.545 | 4.045 | 3.345 | 3.545 | 4.045 | 3.345 | 2.245 | - | - | 2.245 | - | - |
| Pot Cap-1 Maneuver | 218 | 237 | 695 | 214 | 240 | 466 | 1198 | - | - | 915 | - | - |
| Stage 1 | 664 | 631 | - | 451 | 459 | - | - | - | - | - | - | - |
| Stage 2 | 448 | 453 | - | 651 | 629 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 212 | 236 | 695 | 204 | 239 | 466 | 1198 | - | - | 915 | - | - |
| Mov Cap-2 Maneuver | 212 | 236 | - | 204 | 239 | - | - | - | - | - | - | - |
| Stage 1 | 662 | 629 | - | 450 | 458 | - | - | - | - | - | - | - |
| Stage 2 | 436 | 452 | - | 622 | 627 | - | - | - | - | - | - | - |

| Approach | EB | WB | NB | SB |
|----------------------|------|------|----|-----|
| HCM Control Delay, s | 12.5 | 33.1 | 0 | 0.1 |
| HCM LOS | B | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | WBLn1 | SBL | SBT | SBR |
|-----------------------|-------|-----|-----|-------|-------|-------|-----|-----|
| Capacity (veh/h) | 1198 | - | - | 513 | 218 | 915 | - | - |
| HCM Lane V/C Ratio | 0.003 | - | - | 0.068 | 0.424 | 0.002 | - | - |
| HCM Control Delay (s) | 8 | - | - | 12.5 | 33.1 | 8.9 | 0 | - |
| HCM Lane LOS | A | - | - | B | D | A | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.2 | 2 | 0 | - | - |

Intersection

Int Delay, s/veh 0.4

| Movement | SEL | SET | SER | NWL | NWT | NWR | NEL | NET | NER | SWL | SWT | SWR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | ↕ | | ↕ | ↕ | | ↕ | | ↕ | ↕ | |
| Traffic Vol, veh/h | 1 | 306 | 1 | 0 | 590 | 1 | 0 | 0 | 2 | 11 | 0 | 7 |
| Future Vol, veh/h | 1 | 306 | 1 | 0 | 590 | 1 | 0 | 0 | 2 | 11 | 0 | 7 |
| 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 | - | - | None | - | - | None | - | - | None |
| Storage Length | - | - | 0 | - | - | 0 | - | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 1 | 333 | 1 | 0 | 641 | 1 | 0 | 0 | 2 | 12 | 0 | 8 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 |
|----------------------|--------|--------|--------|--------|
| Conflicting Flow All | 642 | 0 | 0 | 334 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Critical Hdwy | 4.15 | - | - | 4.15 |
| Critical Hdwy Stg 1 | - | - | - | - |
| Critical Hdwy Stg 2 | - | - | - | - |
| Follow-up Hdwy | 2.245 | - | - | 2.245 |
| Pot Cap-1 Maneuver | 928 | - | - | 1209 |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 928 | - | - | 1209 |
| Mov Cap-2 Maneuver | - | - | - | - |
| Stage 1 | - | - | - | - |
| Stage 2 | - | - | - | - |

| Approach | SE | NW | NE | SW |
|----------------------|----|----|------|------|
| HCM Control Delay, s | 0 | 0 | 10.1 | 18.7 |
| HCM LOS | | | B | C |

| Minor Lane/Major Mvm | NELn1 | NWL | NWT | NWR | SEL | SET | SER | SWLn1 |
|-----------------------|-------|------|-----|-----|-------|-----|-----|-------|
| Capacity (veh/h) | 702 | 1209 | - | - | 928 | - | - | 283 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.001 | - | - | 0.069 |
| HCM Control Delay (s) | 10.1 | 0 | - | - | 8.9 | 0 | - | 18.7 |
| HCM Lane LOS | B | A | - | - | A | A | - | C |
| HCM 95th %tile Q(veh) | 0 | 0 | - | - | 0 | - | - | 0.2 |

| Intersection | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|
| Int Delay, s/veh | 6.6 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 0 | 2 | 0 | 0 | 8 | 2 |
| Future Vol, veh/h | 0 | 2 | 0 | 0 | 8 | 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 Storage0# | - | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 5 | 5 | 5 | 5 | 5 | 5 |
| Mvmt Flow | 0 | 2 | 0 | 0 | 9 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 2 | 0 | 2 |
| Stage 1 | - | - | - | - | 1 |
| Stage 2 | - | - | - | - | 1 |
| Critical Hdwy | - | - | 4.15 | - | 6.45 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.45 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.45 |
| Follow-up Hdwy | - | - | 2.245 | - | 3.345 |
| Pot Cap-1 Maneuver | - | - | 1601 | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1601 | - | 1013 |
| Mov Cap-2 Maneuver | - | - | - | - | 1013 |
| Stage 1 | - | - | - | - | 1014 |
| Stage 2 | - | - | - | - | 1014 |

| Approach | EB | WB | NB |
|----------------------|----|----|-----|
| HCM Control Delay, s | 0 | 0 | 8.6 |
| HCM LOS | | | A |

| Minor Lane/Major Mvm | NBLn1 | EBT | EBR | WBL | WBT |
|-----------------------|-------|-----|-----|------|-----|
| Capacity (veh/h) | 1025 | - | - | 1601 | - |
| HCM Lane V/C Ratio | 0.011 | - | - | - | - |
| HCM Control Delay (s) | 8.6 | - | - | 0 | - |
| HCM Lane LOS | A | - | - | A | - |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

Appendix C

Turn Lane and Signal Warrant Analysis

**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2027 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,172 |
| Minor (intersecting) Road A.A.D.T | 91 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 271 |
| Opposing volume (V_{opp}), veh/h: | 153 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 7 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.4% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

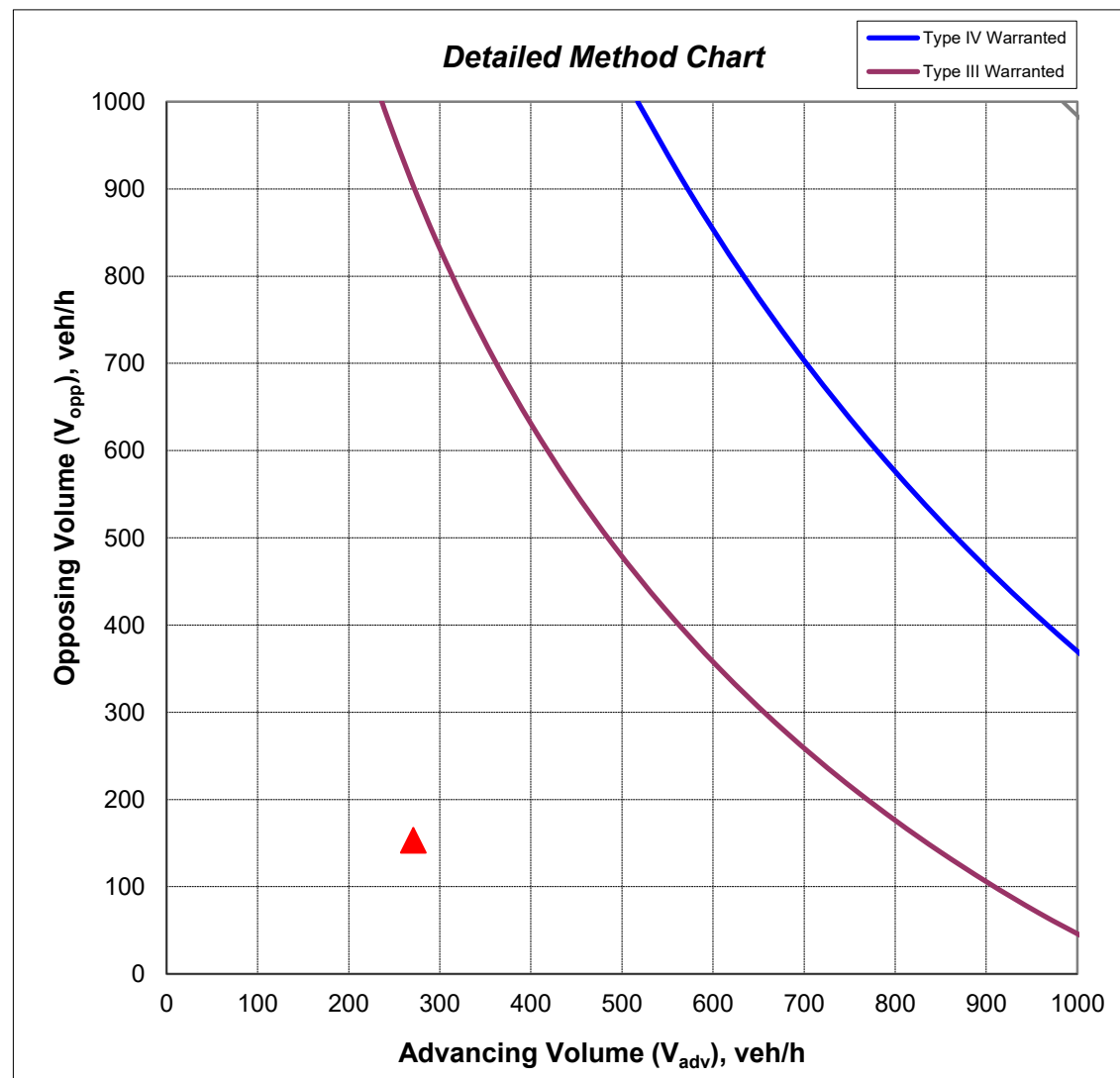
Type I or Type II

Detailed Method Not Required

| | | |
|--|-------------------------------------|---|
| | <i>base storage requirement</i> | - |
| | <i>- standard storage length</i> | - |
| | <i>+ additional truck storage</i> | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2027 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,172 |
| Minor (intersecting) Road A.A.D.T | 91 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 200 |
| Opposing volume (V_{opp}), veh/h: | 378 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

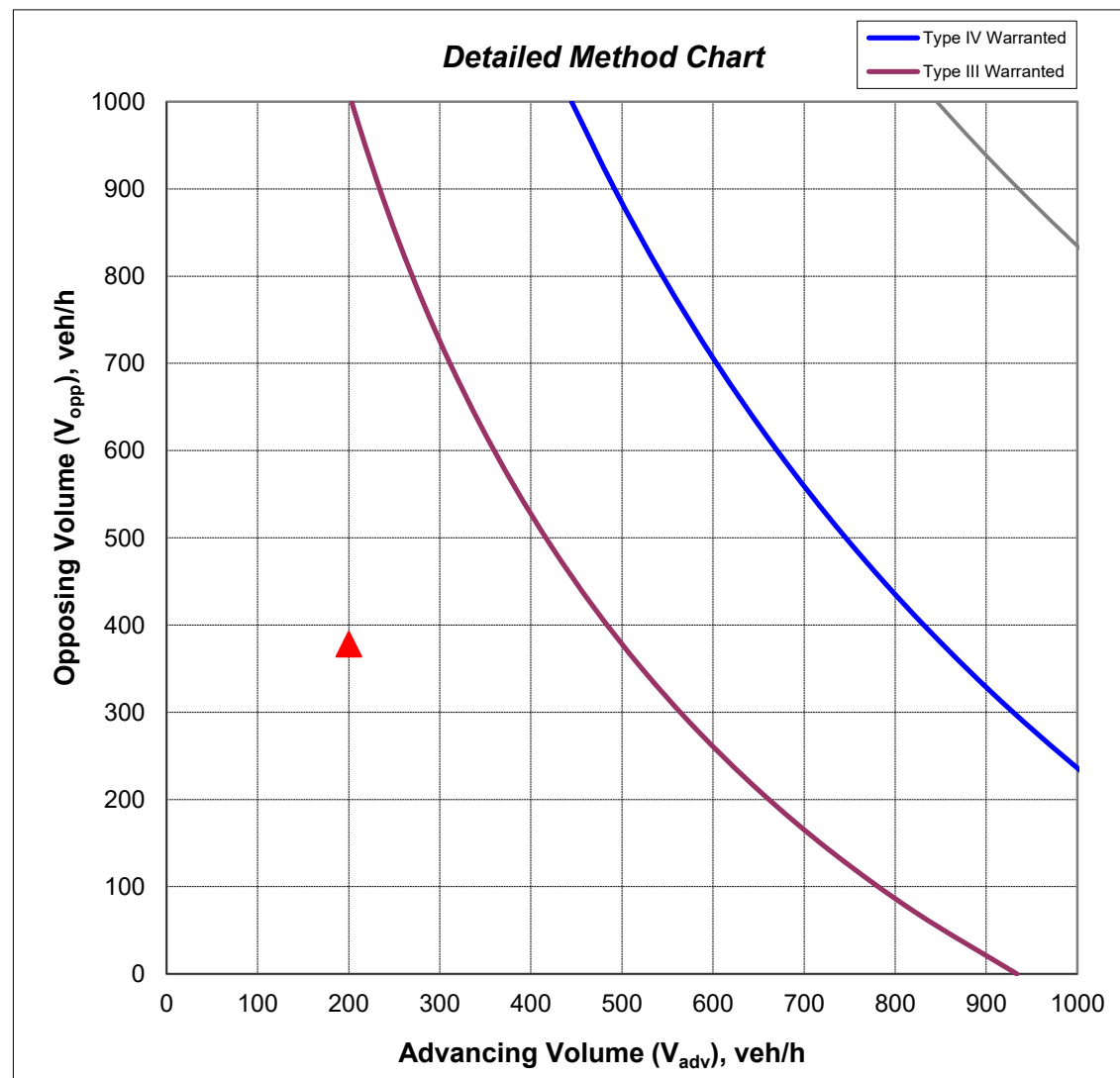
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2030 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,617 |
| Minor (intersecting) Road A.A.D.T | 100 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 292 |
| Opposing volume (V_{opp}), veh/h: | 165 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 8 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.3% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

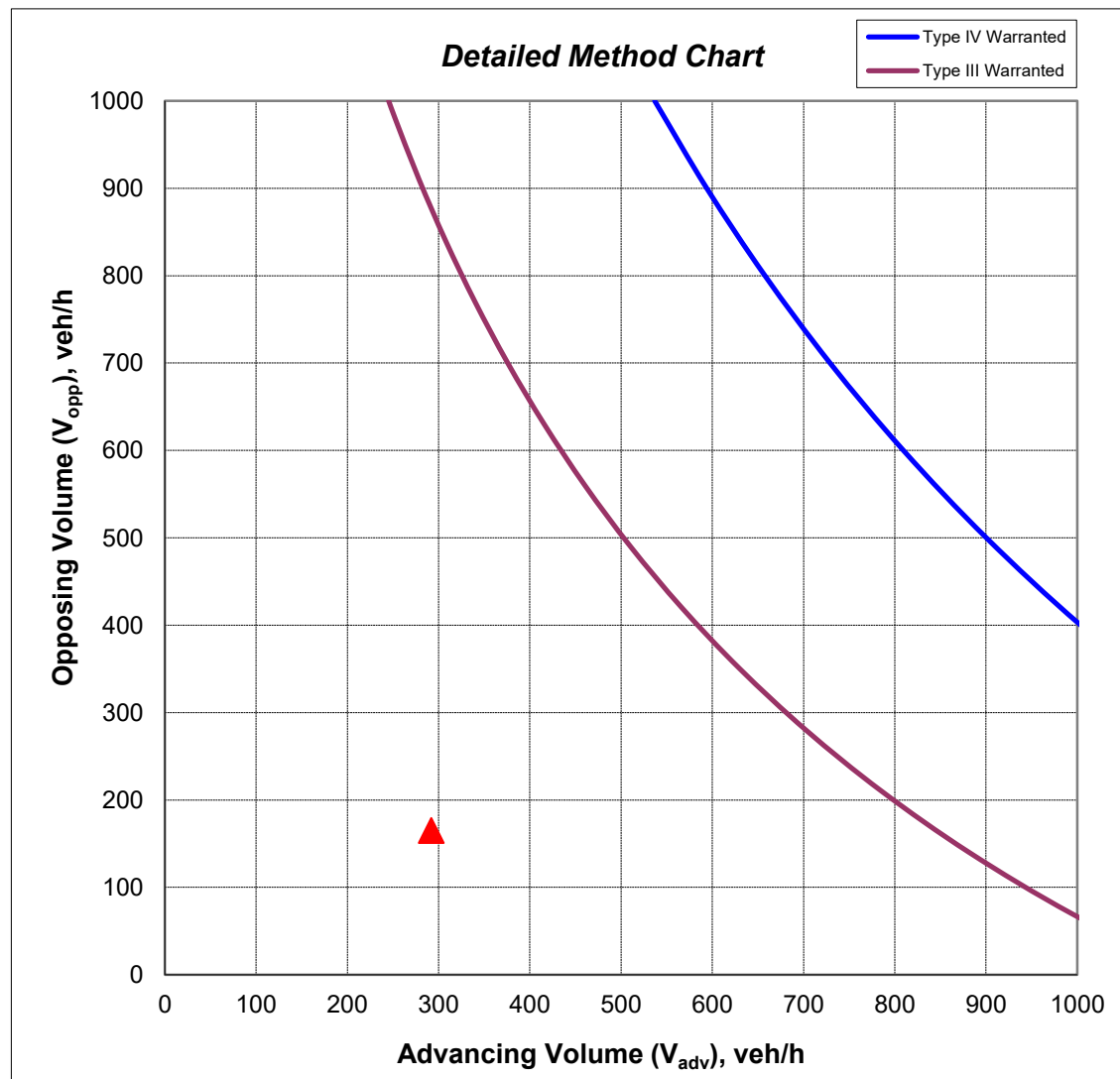
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2030 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,617 |
| Minor (intersecting) Road A.A.D.T | 100 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 214 |
| Opposing volume (V_{opp}), veh/h: | 405 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

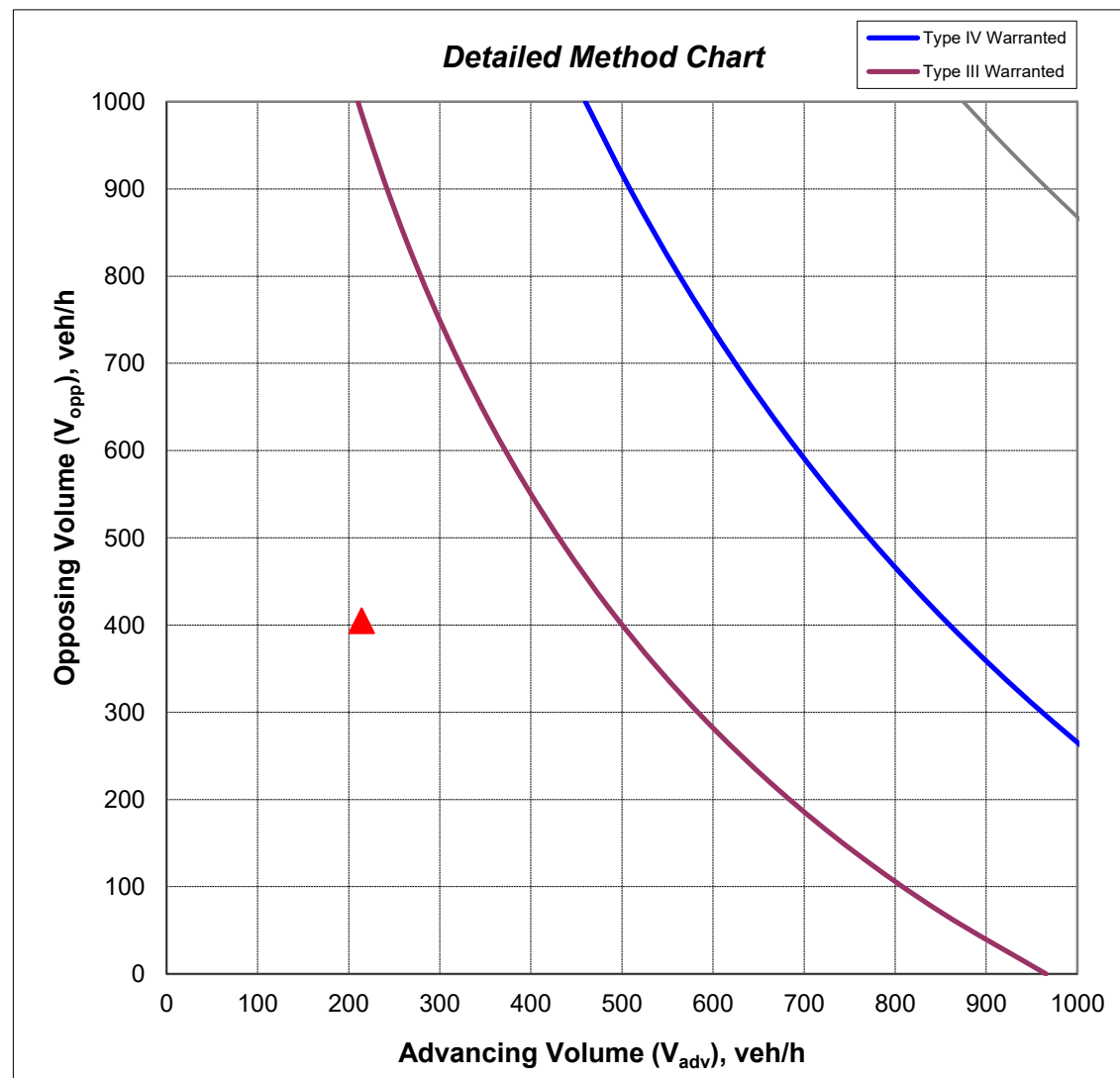
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | <i>base storage requirement</i> | - |
| | <i>- standard storage length</i> | - |
| | <i>+ additional truck storage</i> | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2040 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 6,909 |
| Minor (intersecting) Road A.A.D.T | 118 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 357 |
| Opposing volume (V_{opp}), veh/h: | 202 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 9 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.3% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

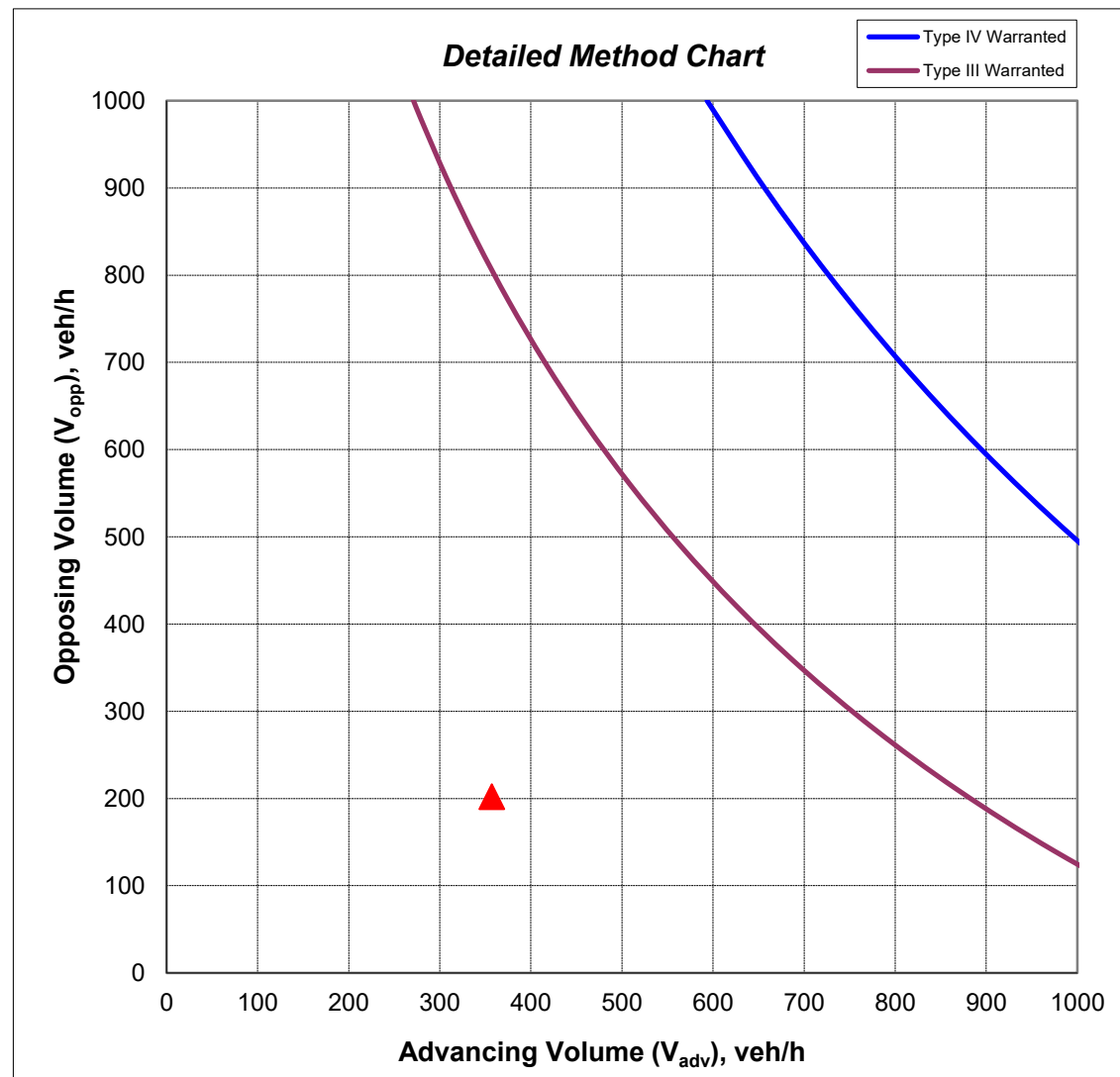
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2040 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 6,909 |
| Minor (intersecting) Road A.A.D.T | 118 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 264 |
| Opposing volume (V_{opp}), veh/h: | 498 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 3 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.4% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.1 |

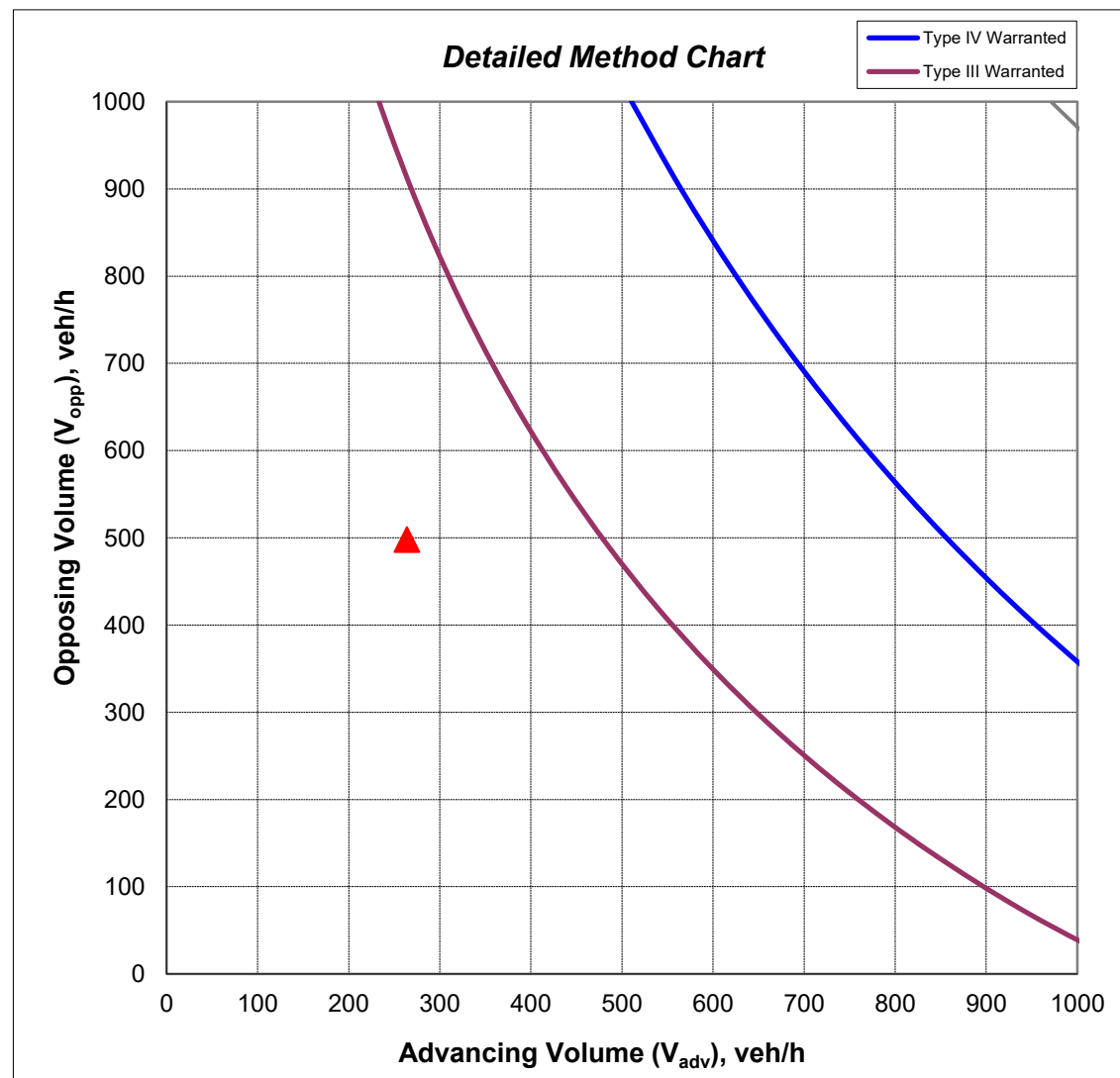
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2050 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,190 |
| Minor (intersecting) Road A.A.D.T | 154 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 424 |
| Opposing volume (V_{opp}), veh/h: | 239 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 11 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.2% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.2 |

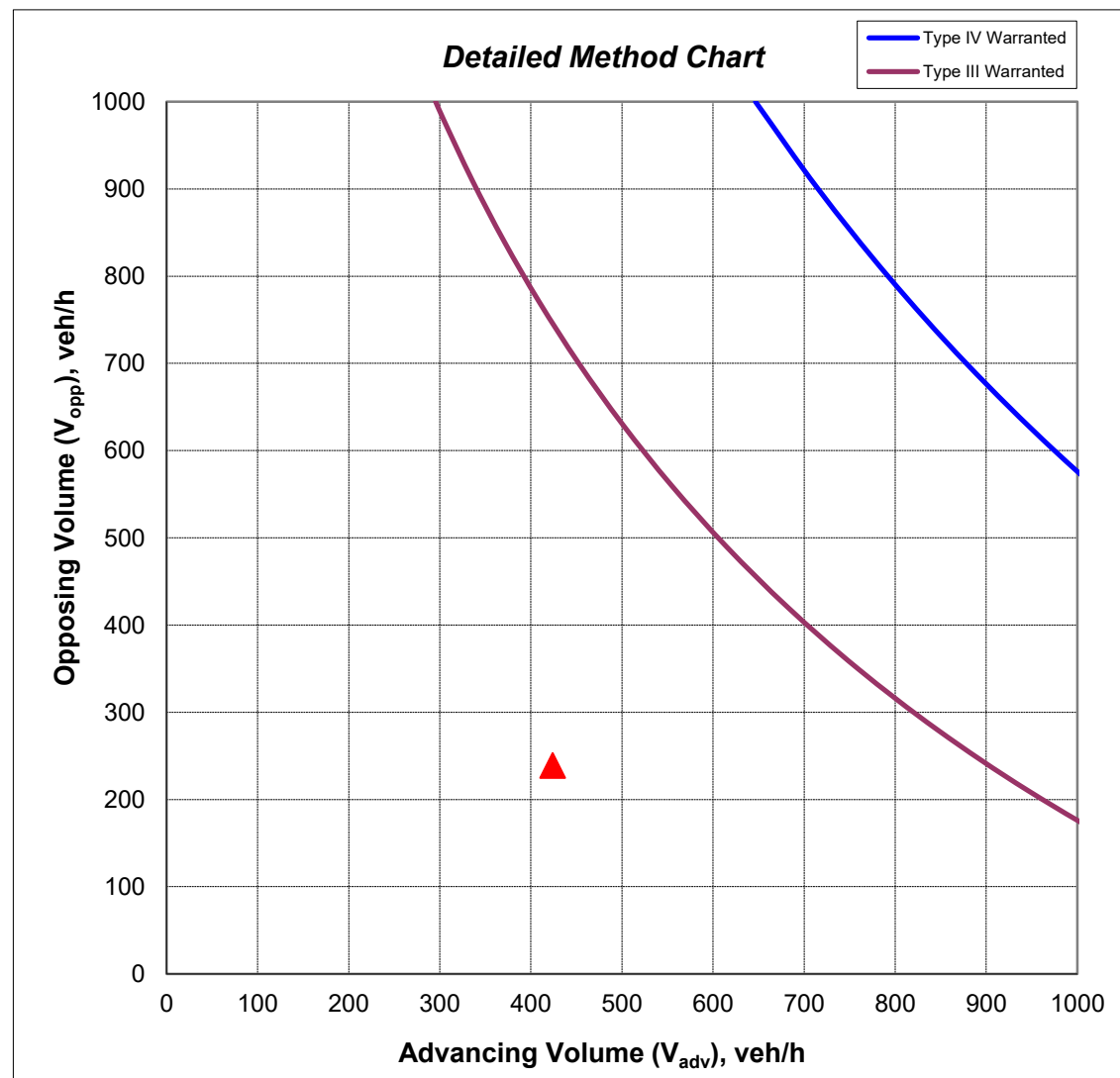
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2050 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,190 |
| Minor (intersecting) Road A.A.D.T | 154 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 312 |
| Opposing volume (V_{opp}), veh/h: | 590 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 3 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.3% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.2 |

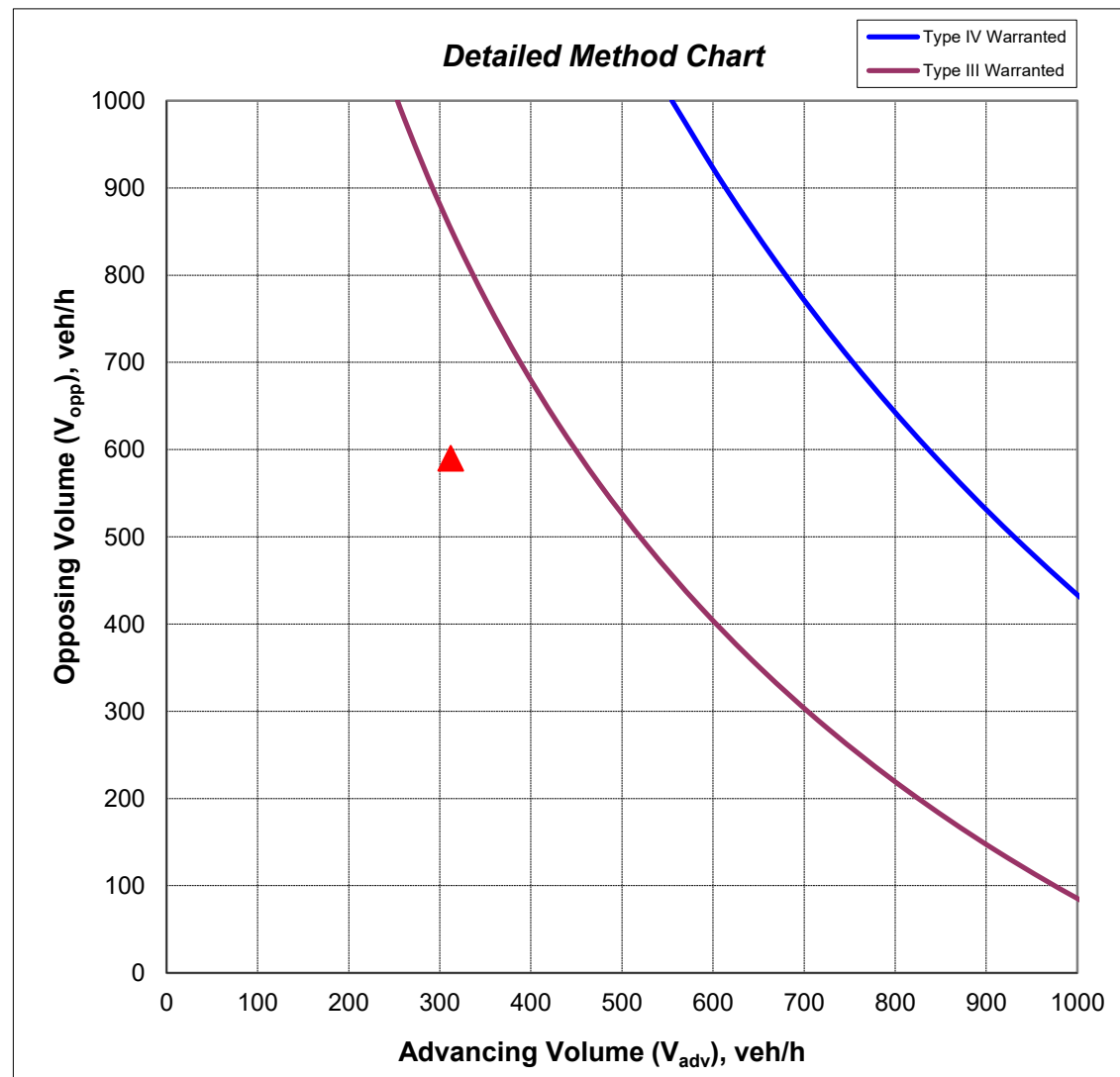
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | <i>base storage requirement</i> | - |
| | <i>- standard storage length</i> | - |
| | <i>+ additional truck storage</i> | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2027 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,299 |
| Minor (intersecting) Road A.A.D.T | 409 |
| Left turn volume (V_{LT}), veh/h: | 3 |
| Advancing volume (V_{adv}), veh/h: | 274 |
| Opposing volume (V_{opp}), veh/h: | 181 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 7 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 1.1% |
| Percent trucks in left turn volume: | 33.3% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.2 |

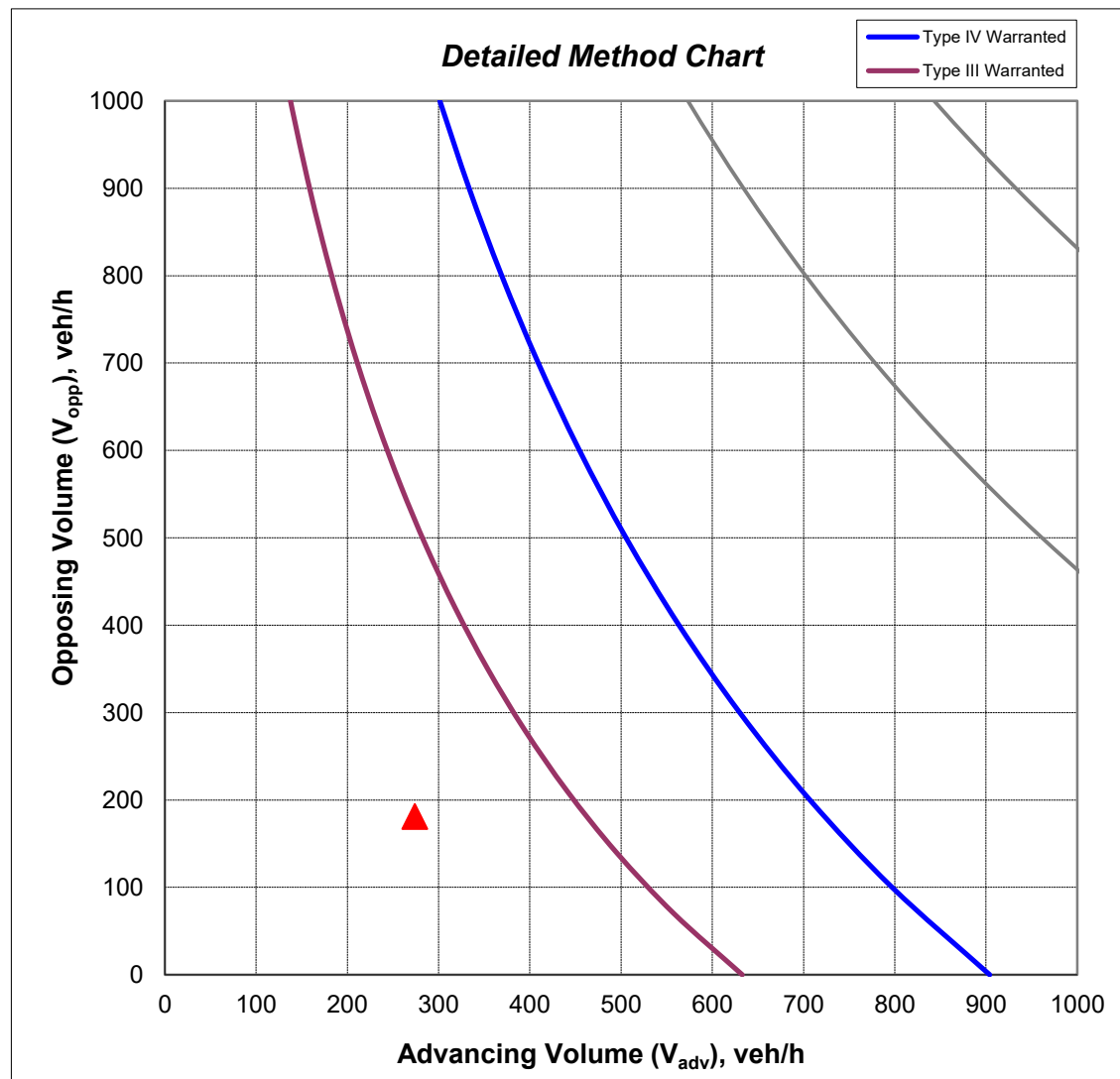
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2027 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,299 |
| Minor (intersecting) Road A.A.D.T | 409 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 203 |
| Opposing volume (V_{opp}), veh/h: | 385 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

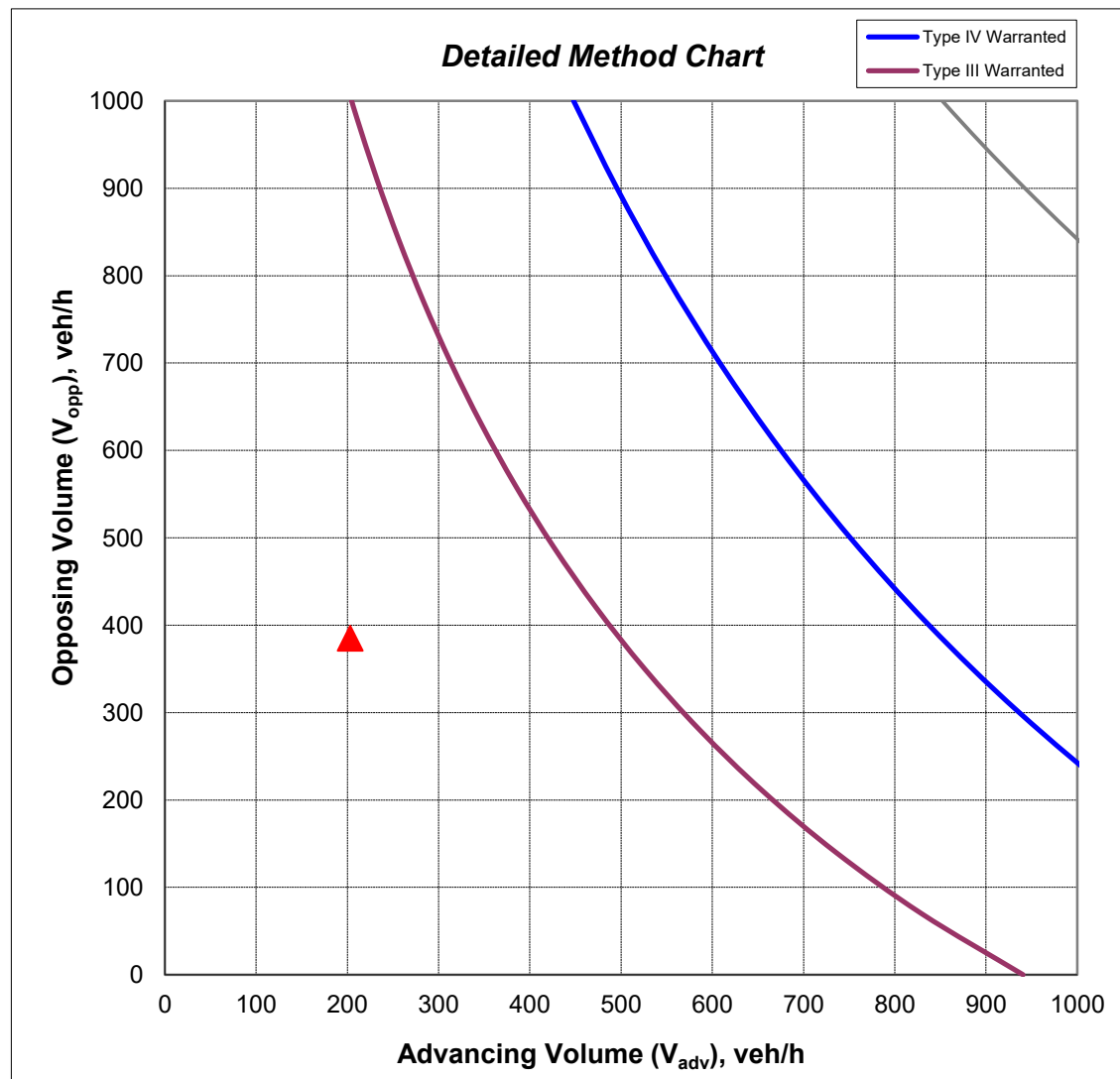
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2030 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,763 |
| Minor (intersecting) Road A.A.D.T | 946 |
| Left turn volume (V_{LT}), veh/h: | 8 |
| Advancing volume (V_{adv}), veh/h: | 301 |
| Opposing volume (V_{opp}), veh/h: | 238 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 8 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 2.7% |
| Percent trucks in left turn volume: | 12.5% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.3% |
| Calculated conflicts per hour, veh/h: | 0.8 |

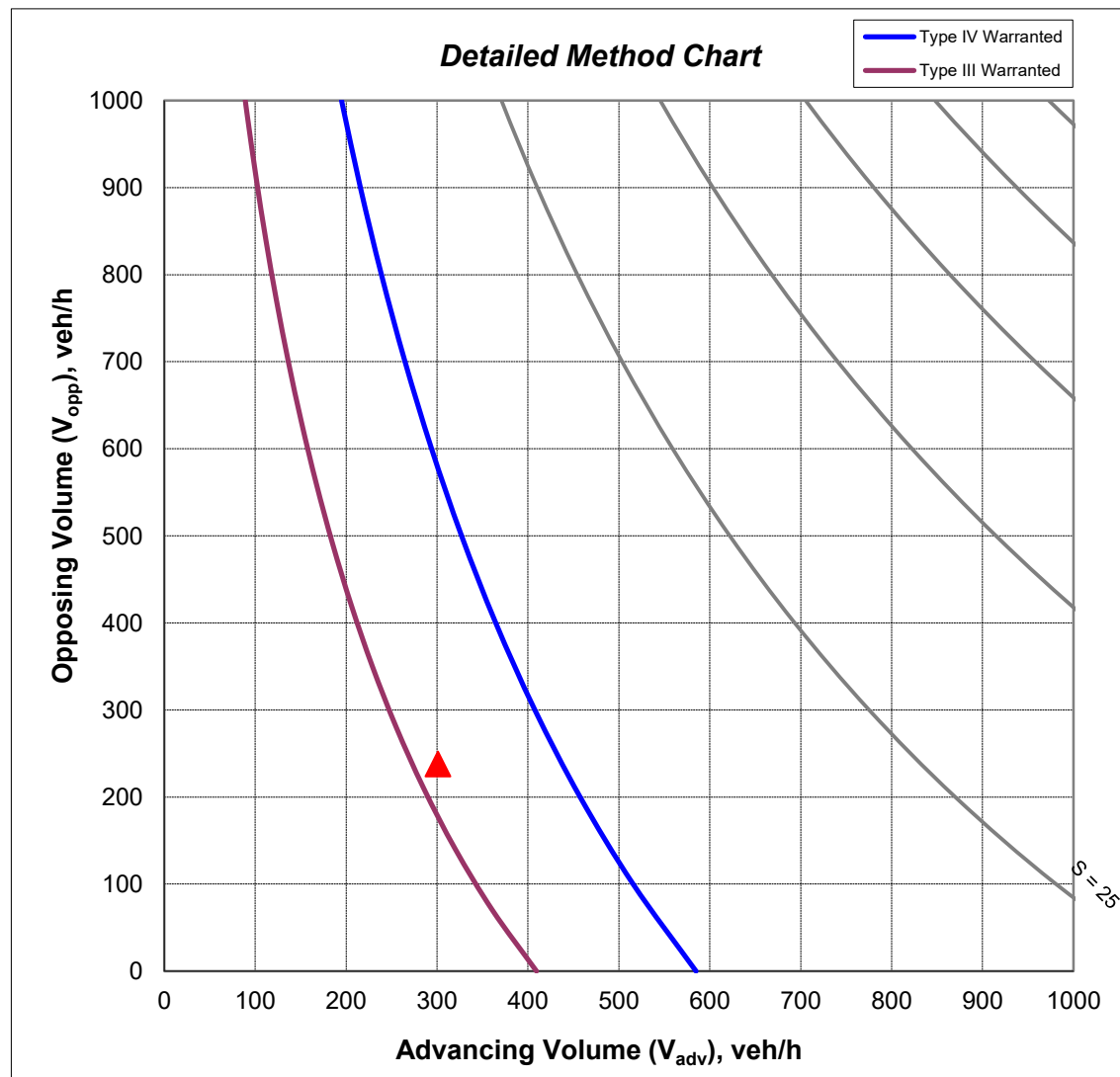
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2027 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,299 |
| Minor (intersecting) Road A.A.D.T | 409 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 203 |
| Opposing volume (V_{opp}), veh/h: | 385 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

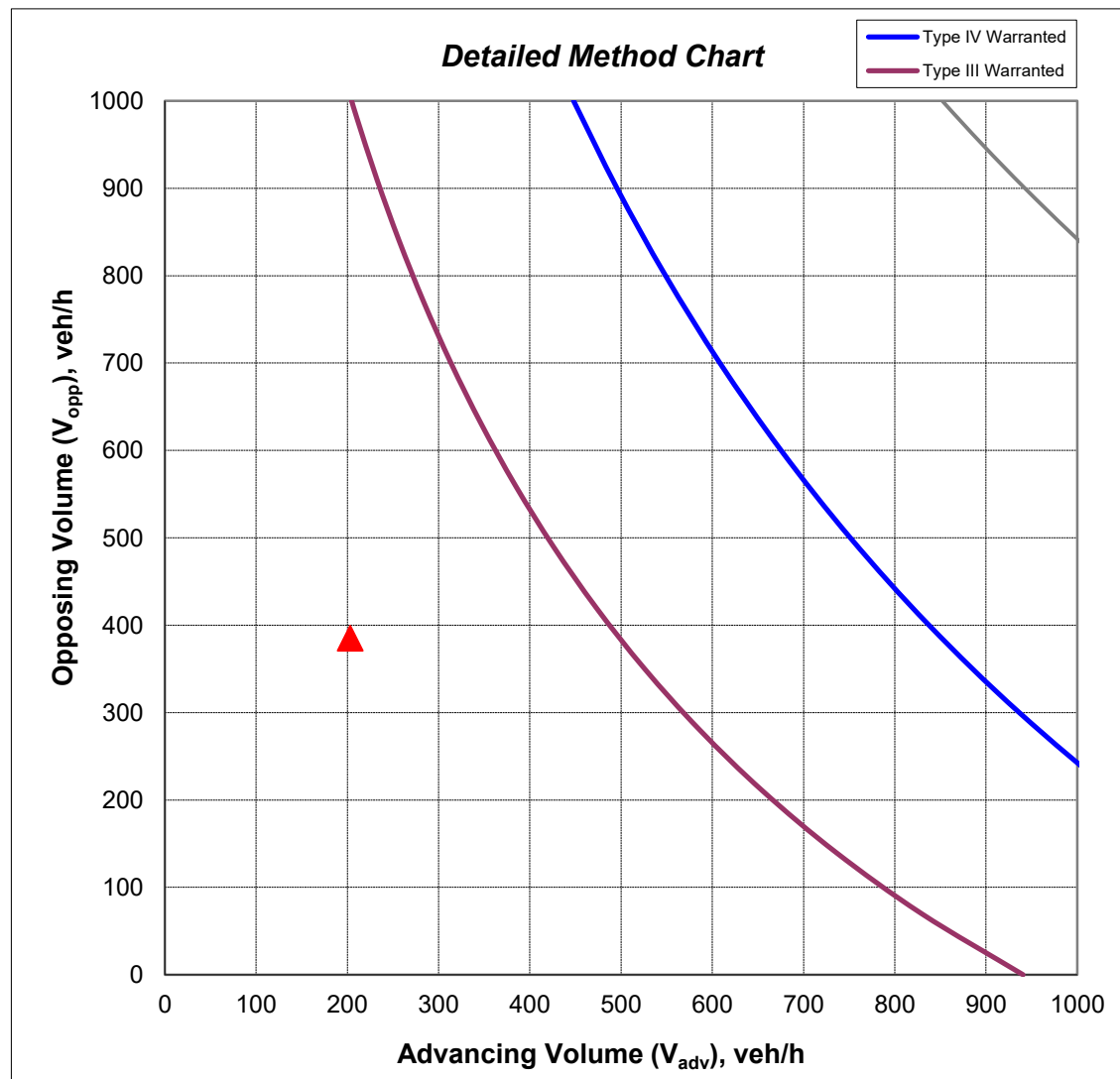
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2040 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 7,054 |
| Minor (intersecting) Road A.A.D.T | 964 |
| Left turn volume (V_{LT}), veh/h: | 8 |
| Advancing volume (V_{adv}), veh/h: | 366 |
| Opposing volume (V_{opp}), veh/h: | 275 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 9 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 2.2% |
| Percent trucks in left turn volume: | 12.5% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.4% |
| Calculated conflicts per hour, veh/h: | 1.3 |

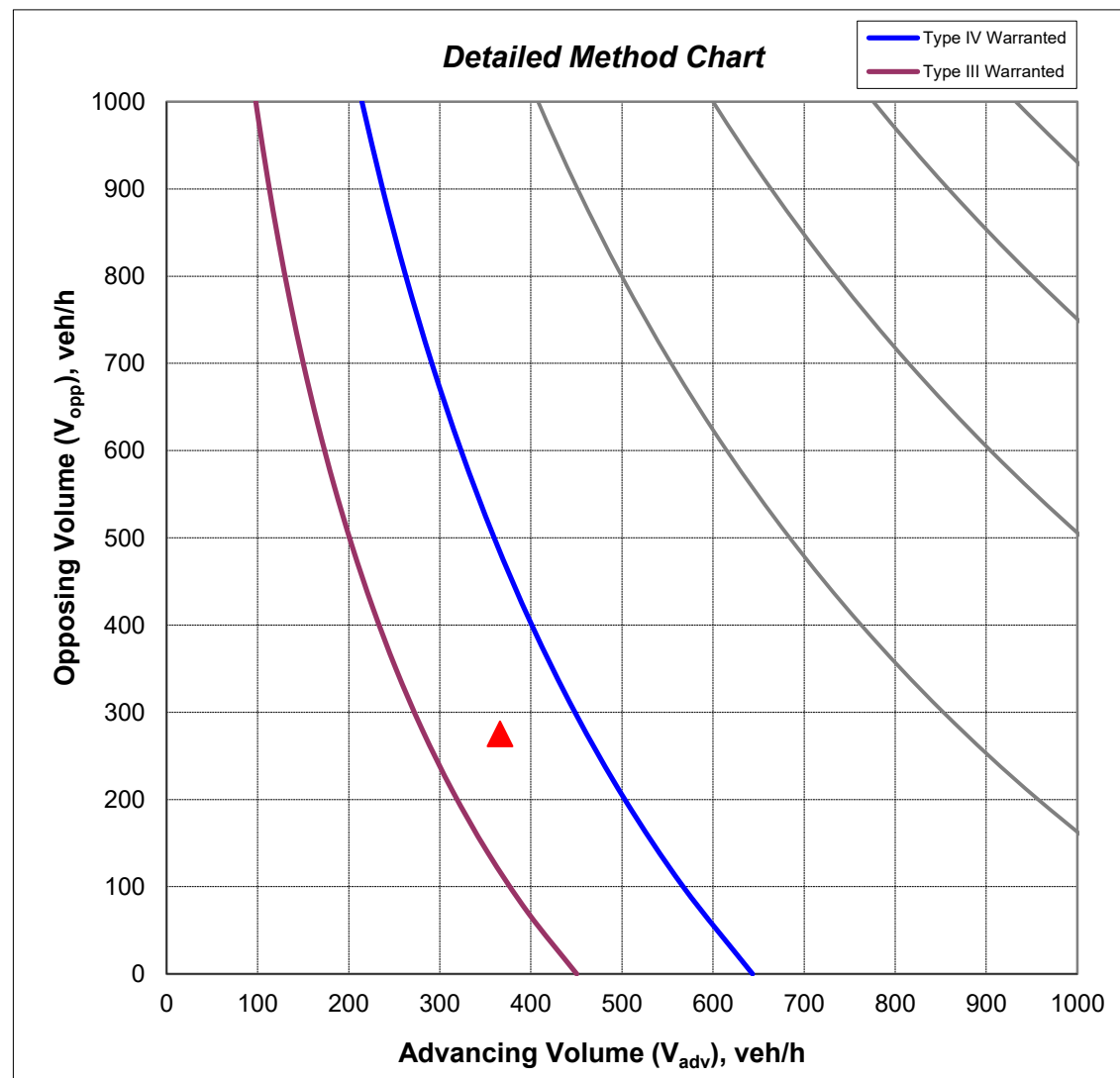
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2040 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 7,054 |
| Minor (intersecting) Road A.A.D.T | 964 |
| Left turn volume (V_{LT}), veh/h: | 2 |
| Advancing volume (V_{adv}), veh/h: | 271 |
| Opposing volume (V_{opp}), veh/h: | 517 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 3 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 0.7% |
| Percent trucks in left turn volume: | 50.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.3 |

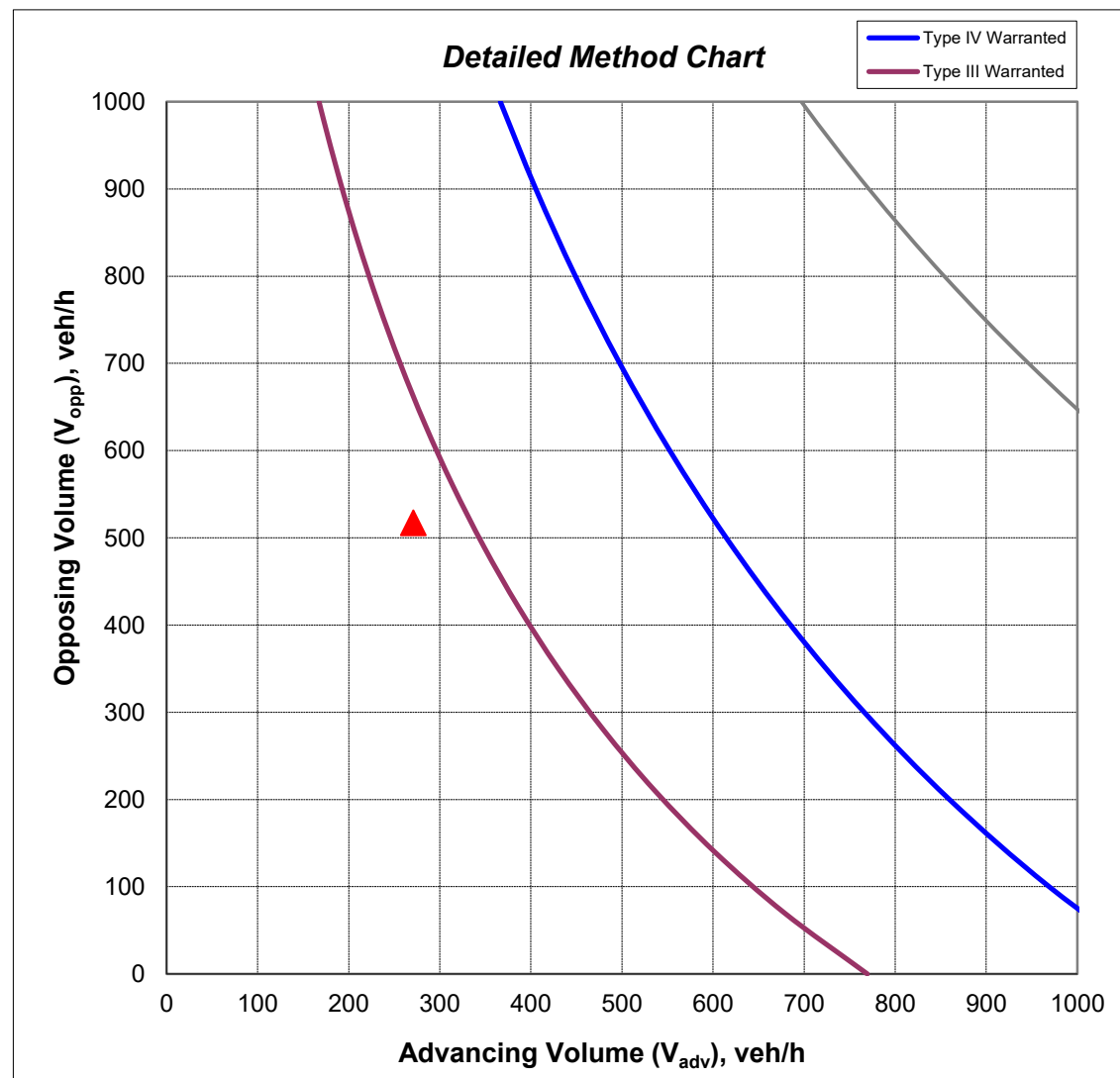
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2050 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,336 |
| Minor (intersecting) Road A.A.D.T | 1,000 |
| Left turn volume (V_{LT}), veh/h: | 8 |
| Advancing volume (V_{adv}), veh/h: | 433 |
| Opposing volume (V_{opp}), veh/h: | 312 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 11 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 1.8% |
| Percent trucks in left turn volume: | 12.5% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.5% |
| Calculated conflicts per hour, veh/h: | 2.1 |

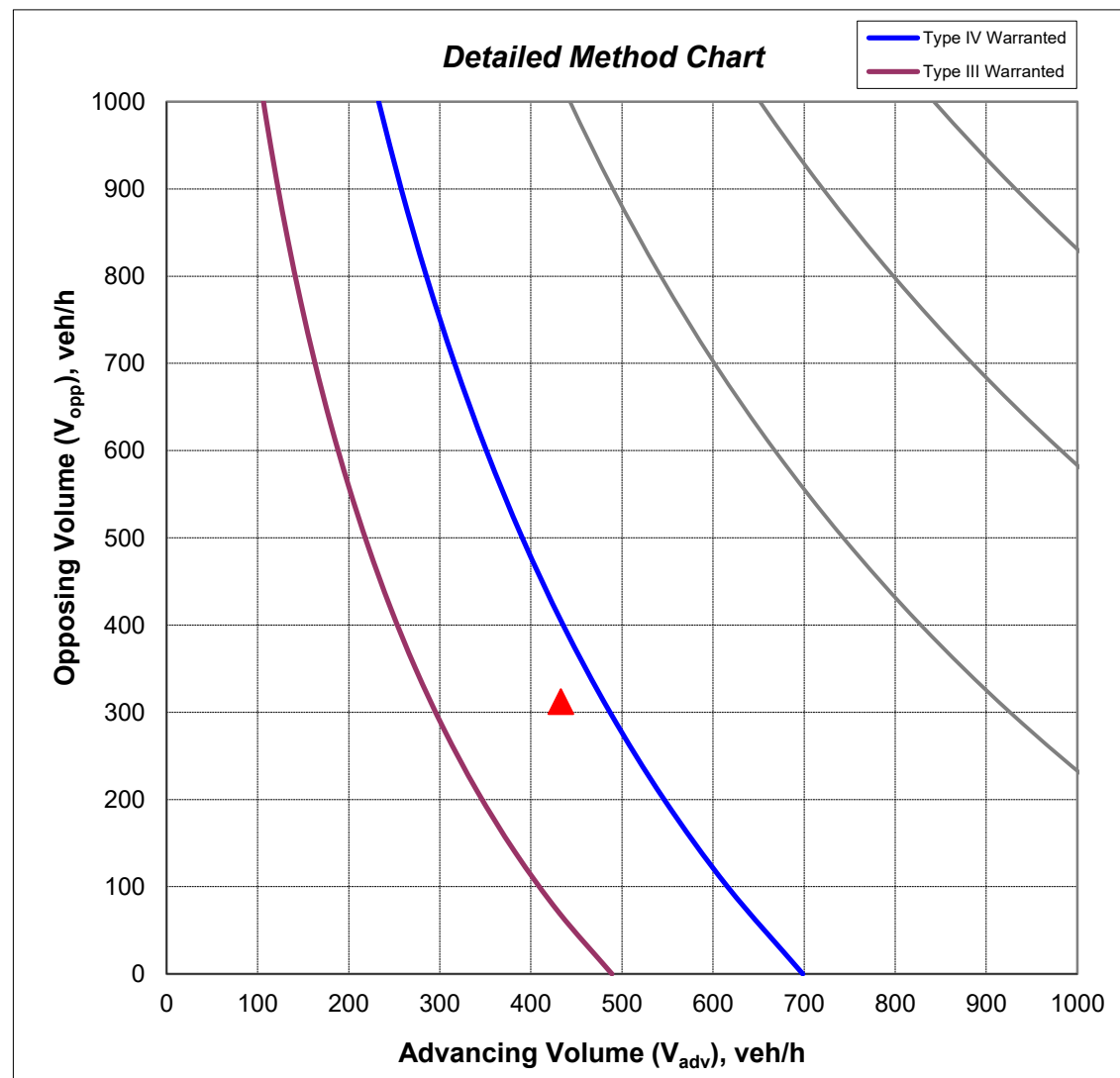
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: PM. Peak

Year of Analysis: 2050 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,336 |
| Minor (intersecting) Road A.A.D.T | 1,000 |
| Left turn volume (V_{LT}), veh/h: | 2 |
| Advancing volume (V_{adv}), veh/h: | 319 |
| Opposing volume (V_{opp}), veh/h: | 609 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 3 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 0.6% |
| Percent trucks in left turn volume: | 50.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.2% |
| Calculated conflicts per hour, veh/h: | 0.5 |

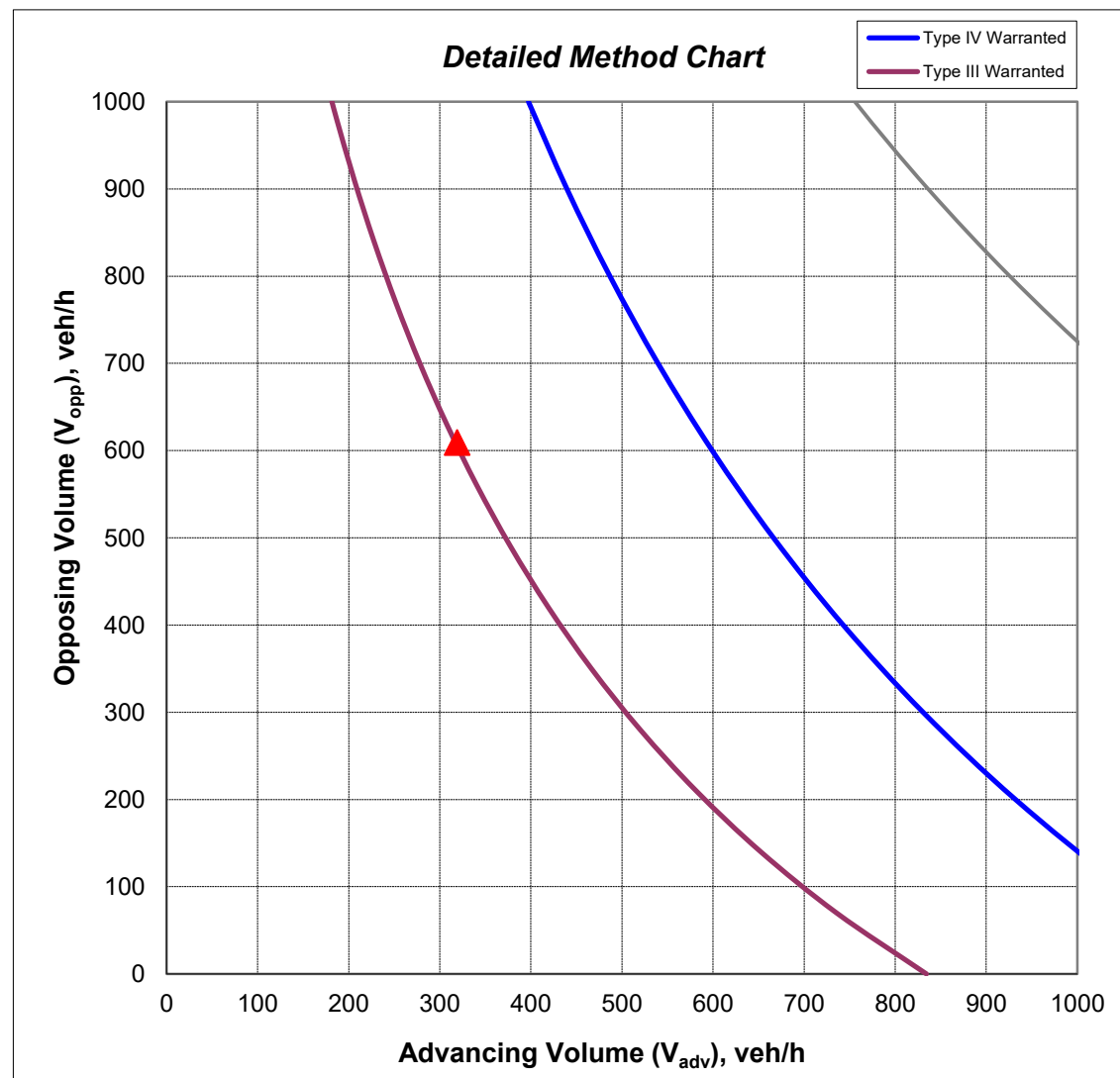
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2027 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,182 |
| Minor (intersecting) Road A.A.D.T | 45 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 272 |
| Opposing volume (V_{opp}), veh/h: | 135 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.4% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

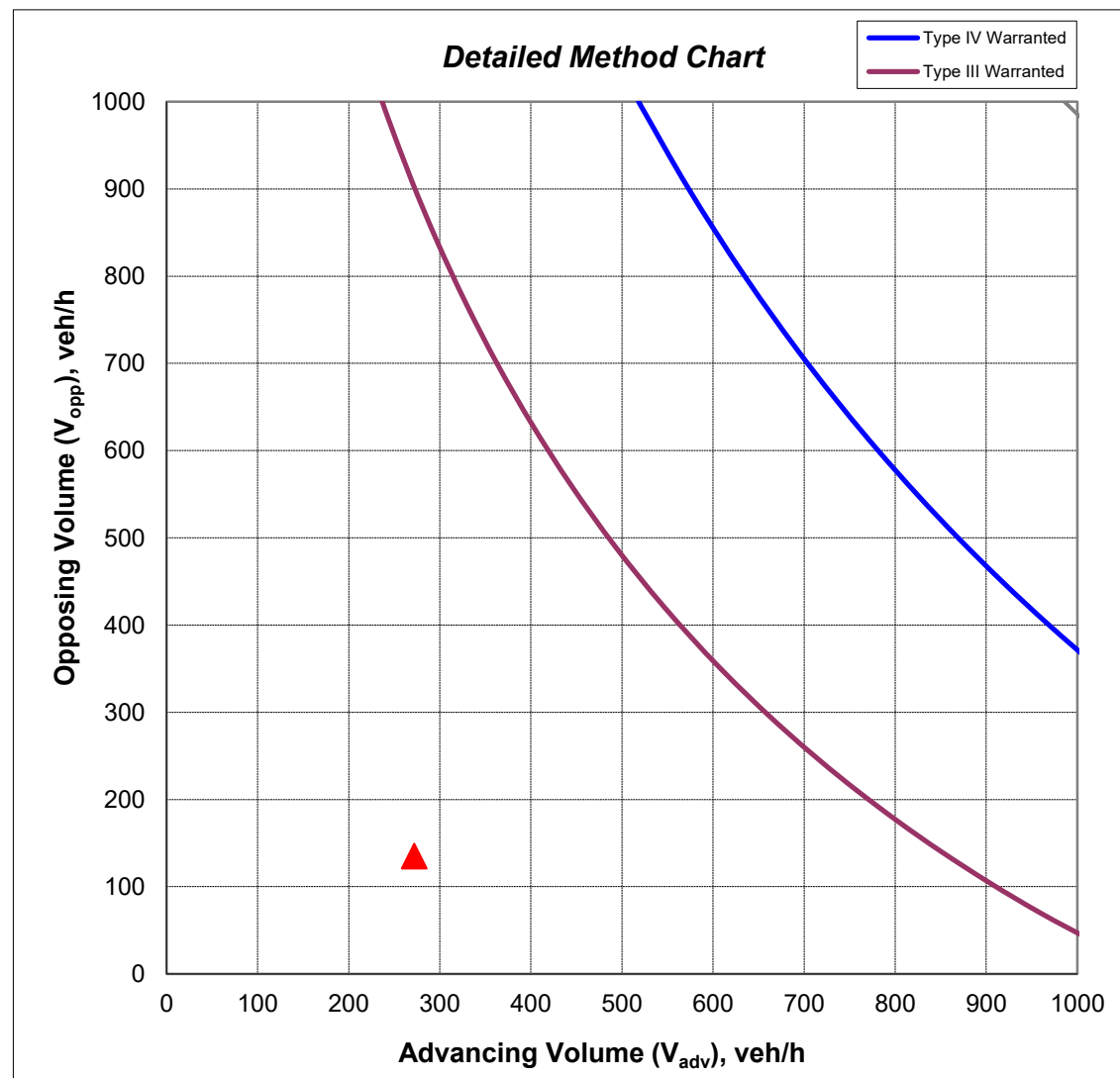
Type I or Type II

Detailed Method Not Required

| | | |
|--|-------------------------------------|---|
| | <i>base storage requirement</i> | - |
| | <i>- standard storage length</i> | - |
| | <i>+ additional truck storage</i> | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2027 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,182 |
| Minor (intersecting) Road A.A.D.T | 45 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 196 |
| Opposing volume (V_{opp}), veh/h: | 373 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

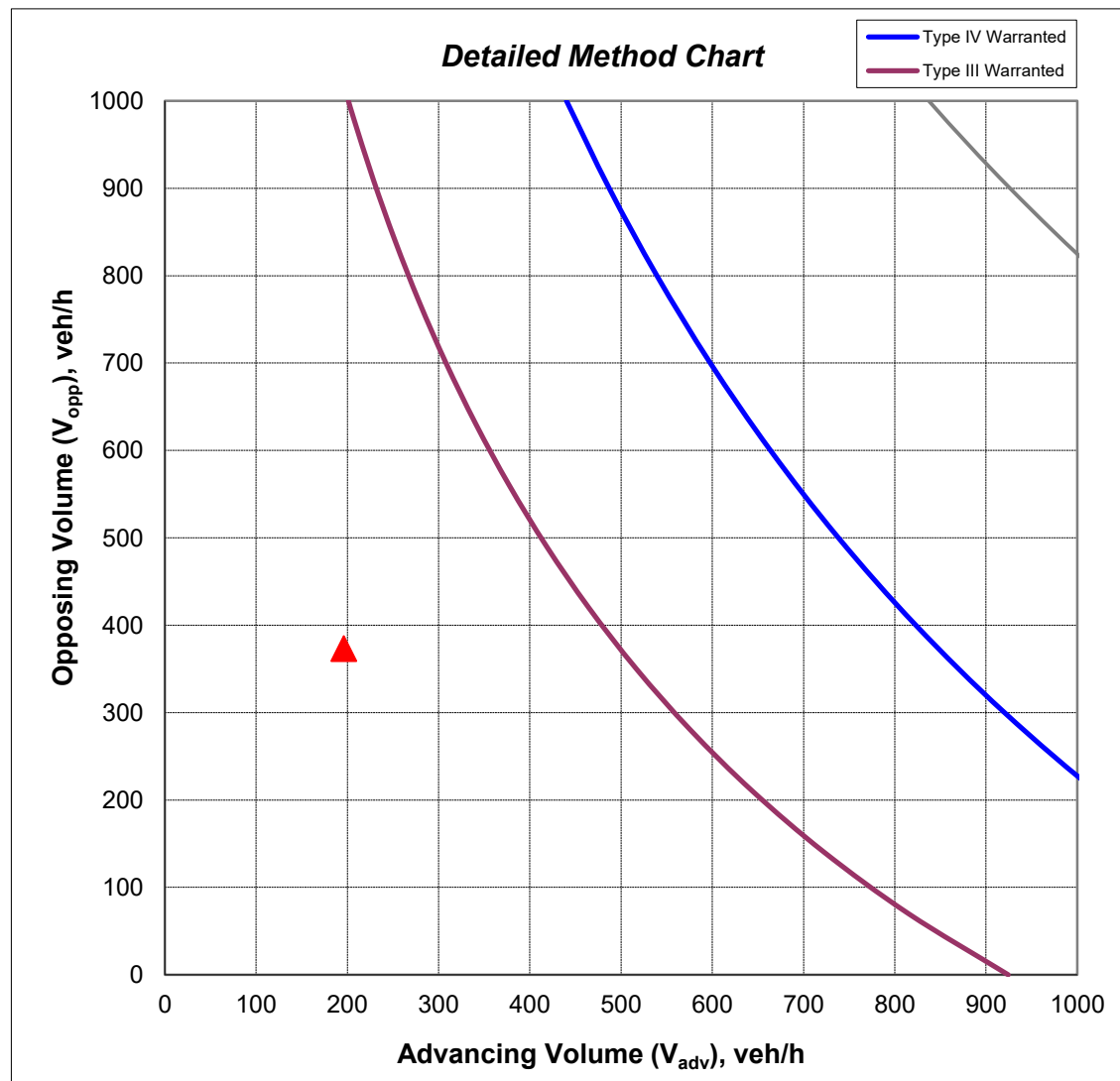
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2030 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,554 |
| Minor (intersecting) Road A.A.D.T | 45 |
| Left turn volume (V_{LT}), veh/h: | 4 |
| Advancing volume (V_{adv}), veh/h: | 291 |
| Opposing volume (V_{opp}), veh/h: | 146 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 1.4% |
| Percent trucks in left turn volume: | 25.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.3 |

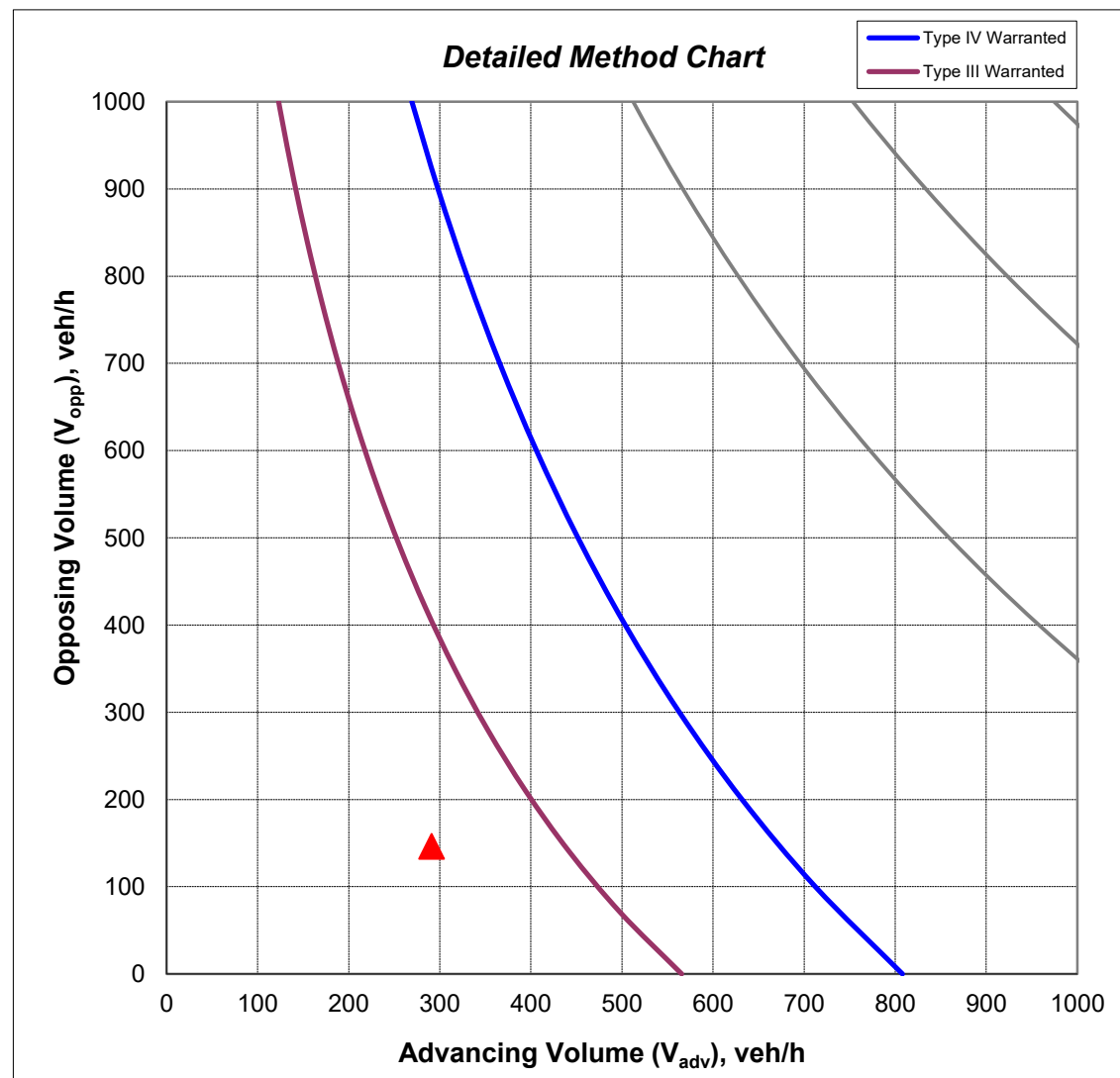
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2030 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,554 |
| Minor (intersecting) Road A.A.D.T | 45 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 210 |
| Opposing volume (V_{opp}), veh/h: | 400 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

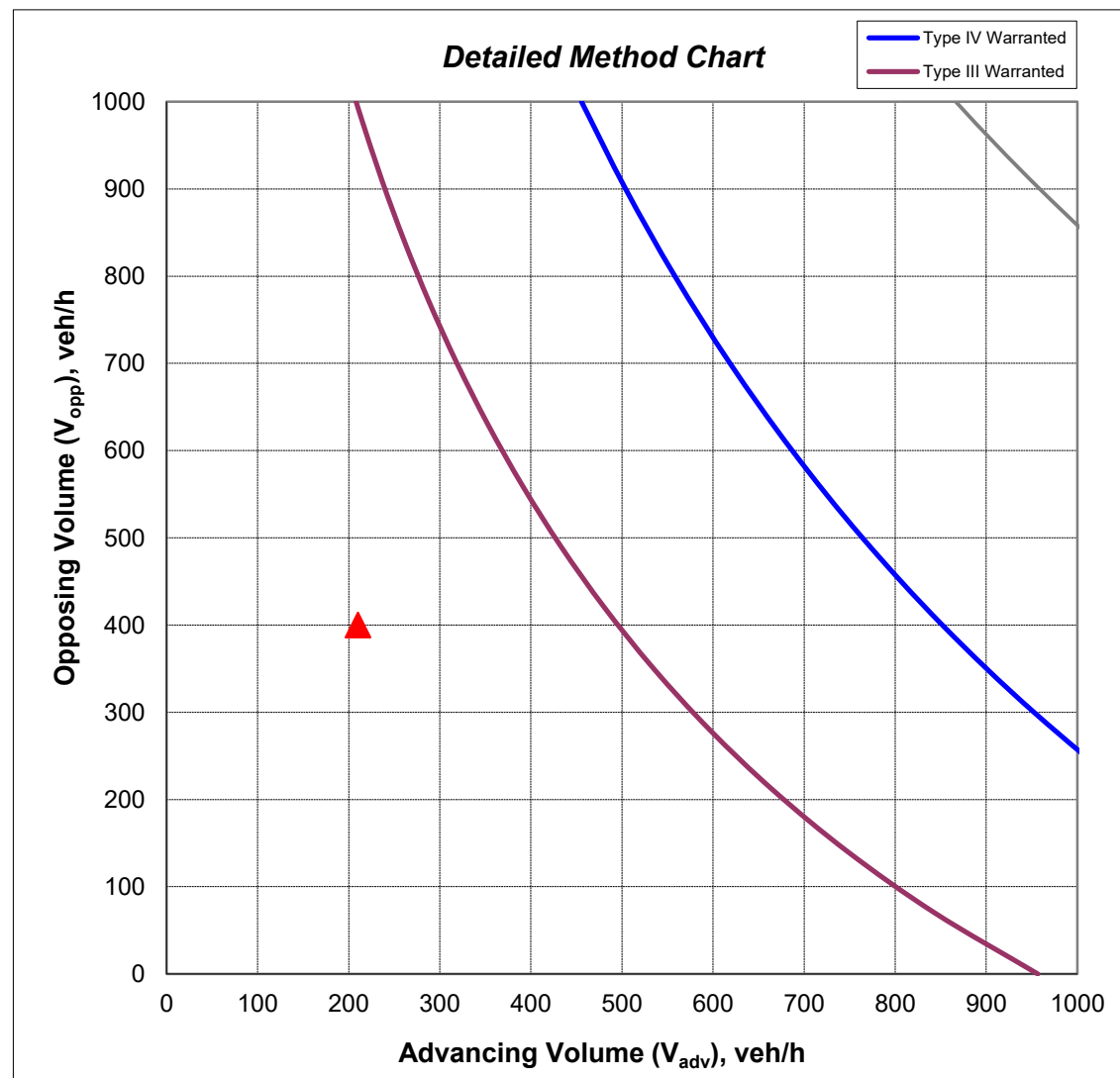
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2040 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 6,818 |
| Minor (intersecting) Road A.A.D.T | 54 |
| Left turn volume (V_{LT}), veh/h: | 5 |
| Advancing volume (V_{adv}), veh/h: | 357 |
| Opposing volume (V_{opp}), veh/h: | 178 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 1.4% |
| Percent trucks in left turn volume: | 20.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.2% |
| Calculated conflicts per hour, veh/h: | 0.6 |

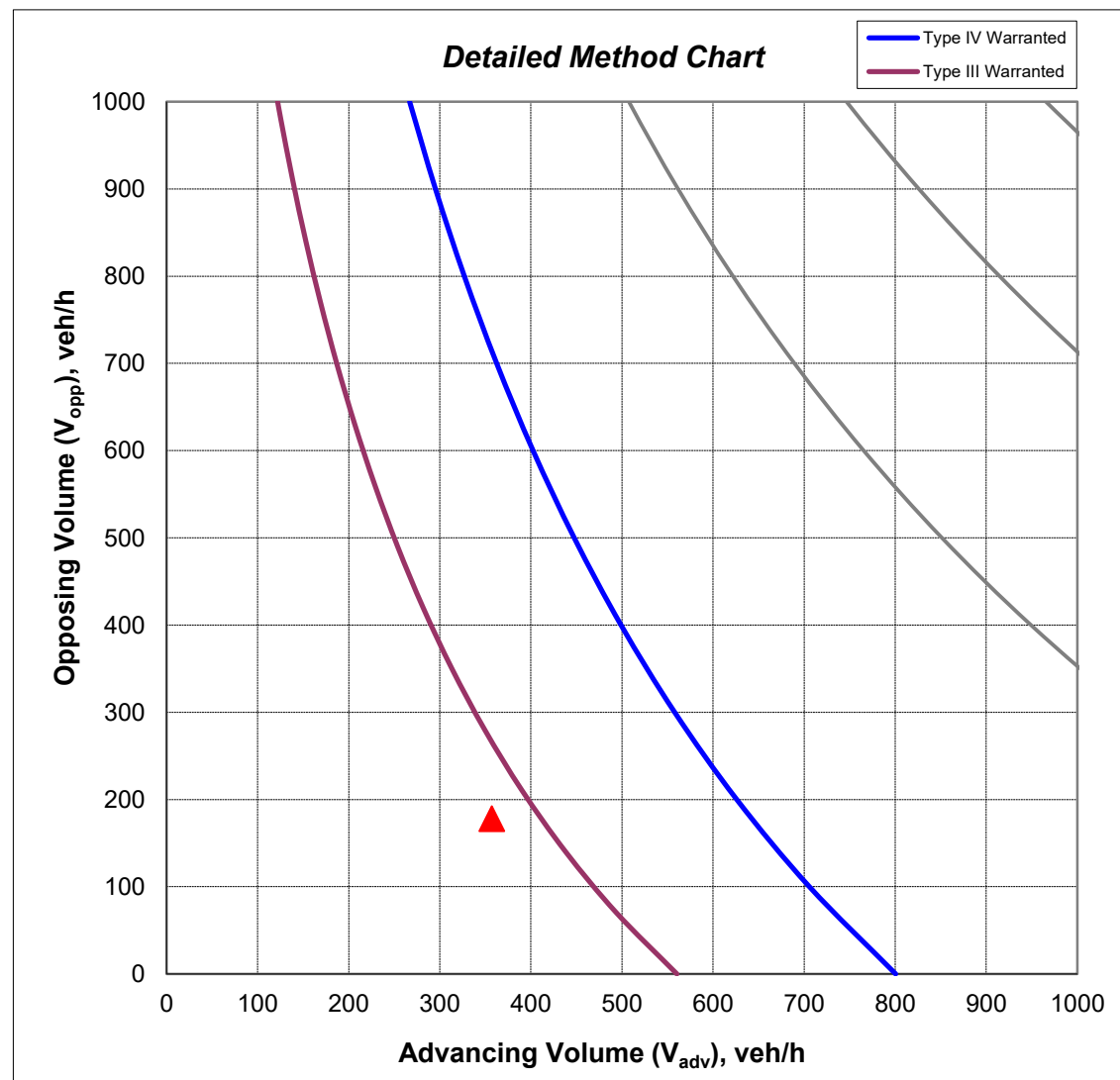
Type I or Type II

Detailed Method Not Required

| | | |
|--|-------------------------------------|---|
| | <i>base storage requirement</i> | - |
| | <i>- standard storage length</i> | - |
| | <i>+ additional truck storage</i> | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2040 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 6,818 |
| Minor (intersecting) Road A.A.D.T | 54 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 258 |
| Opposing volume (V_{opp}), veh/h: | 491 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.4% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.1 |

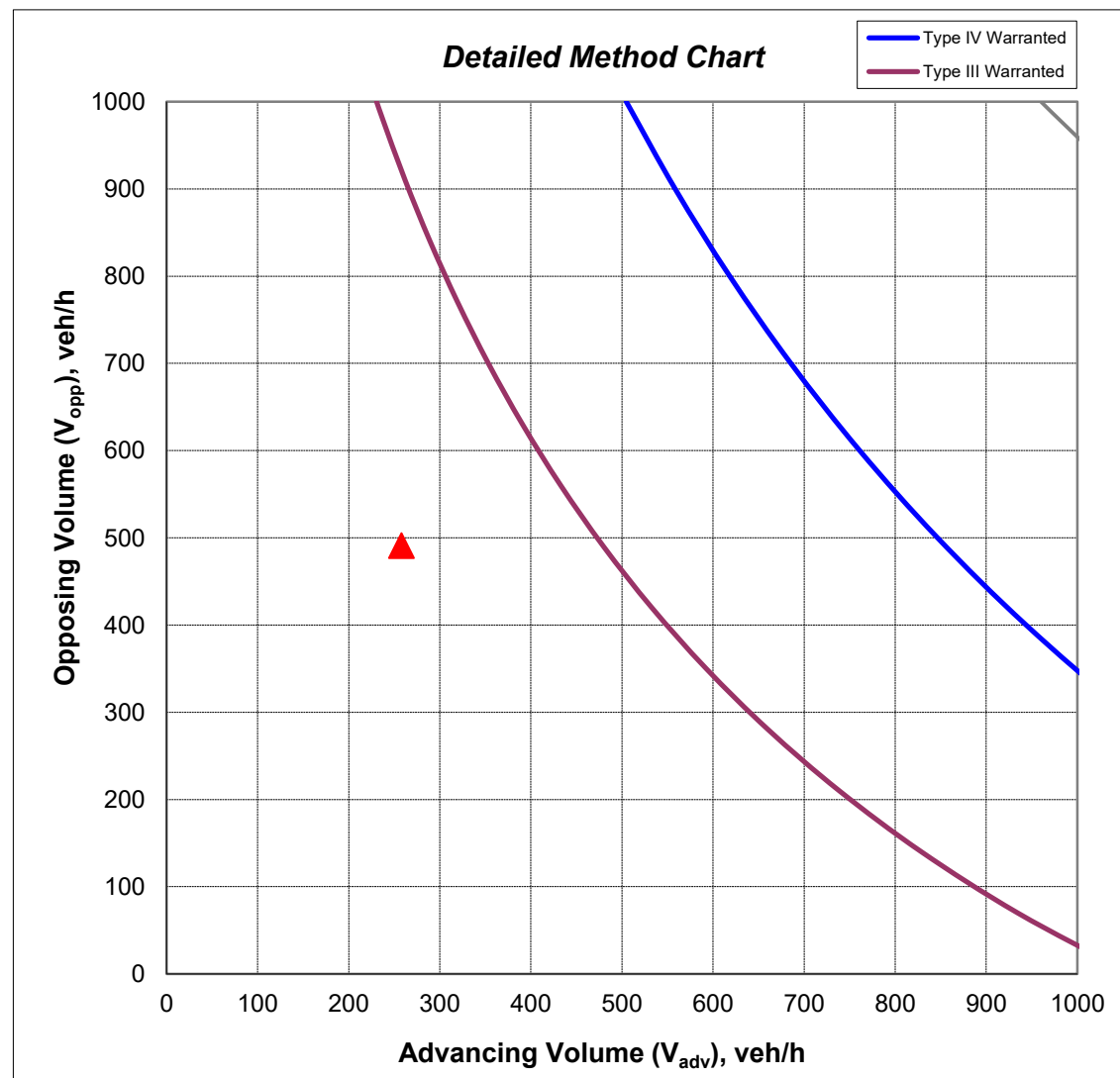
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2050 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,091 |
| Minor (intersecting) Road A.A.D.T | 73 |
| Left turn volume (V_{LT}), veh/h: | 6 |
| Advancing volume (V_{adv}), veh/h: | 424 |
| Opposing volume (V_{opp}), veh/h: | 212 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 1.4% |
| Percent trucks in left turn volume: | 16.7% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.3% |
| Calculated conflicts per hour, veh/h: | 1.2 |

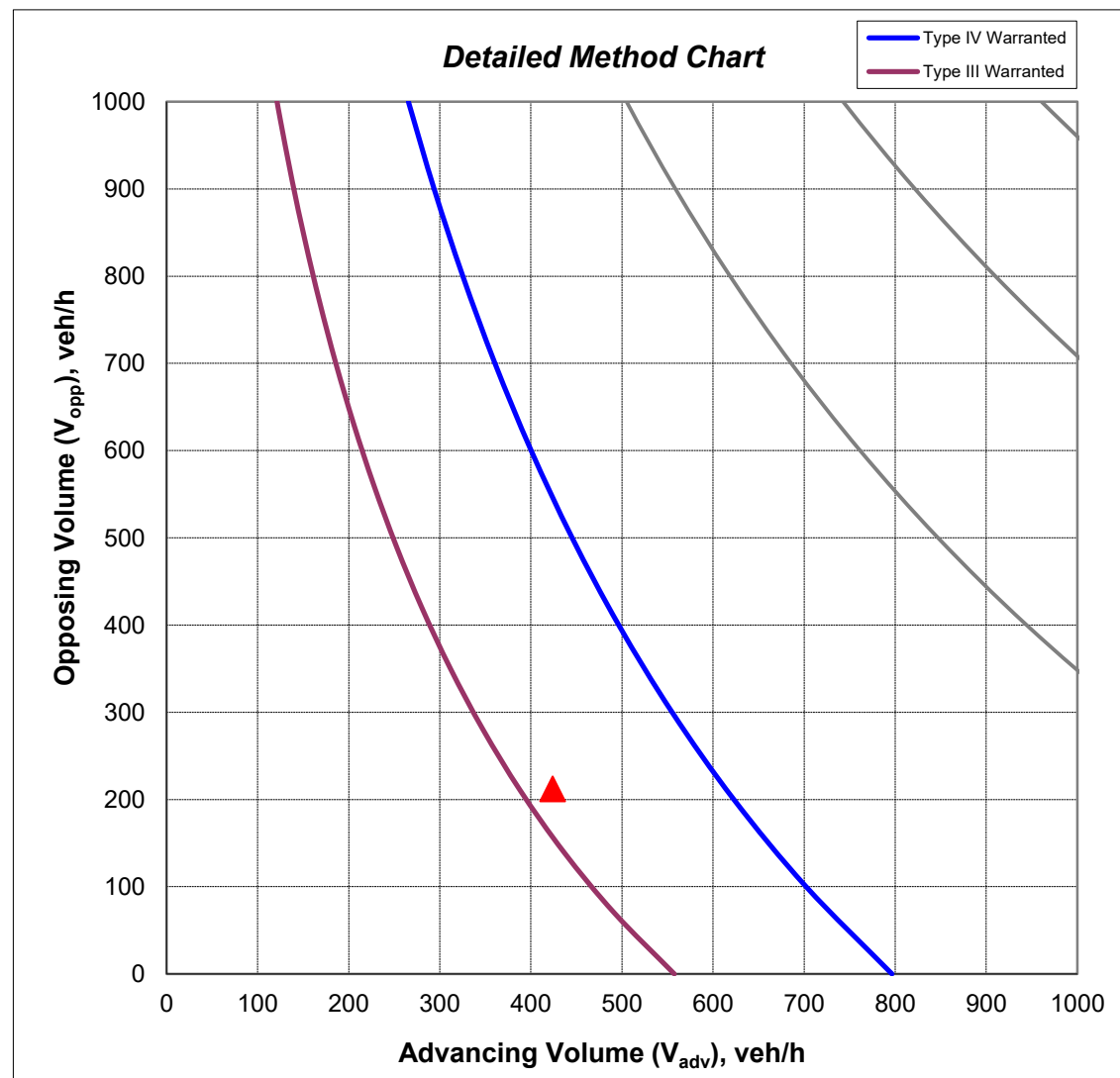
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2050 Background
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,091 |
| Minor (intersecting) Road A.A.D.T | 73 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 306 |
| Opposing volume (V_{opp}), veh/h: | 582 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.3% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.2 |

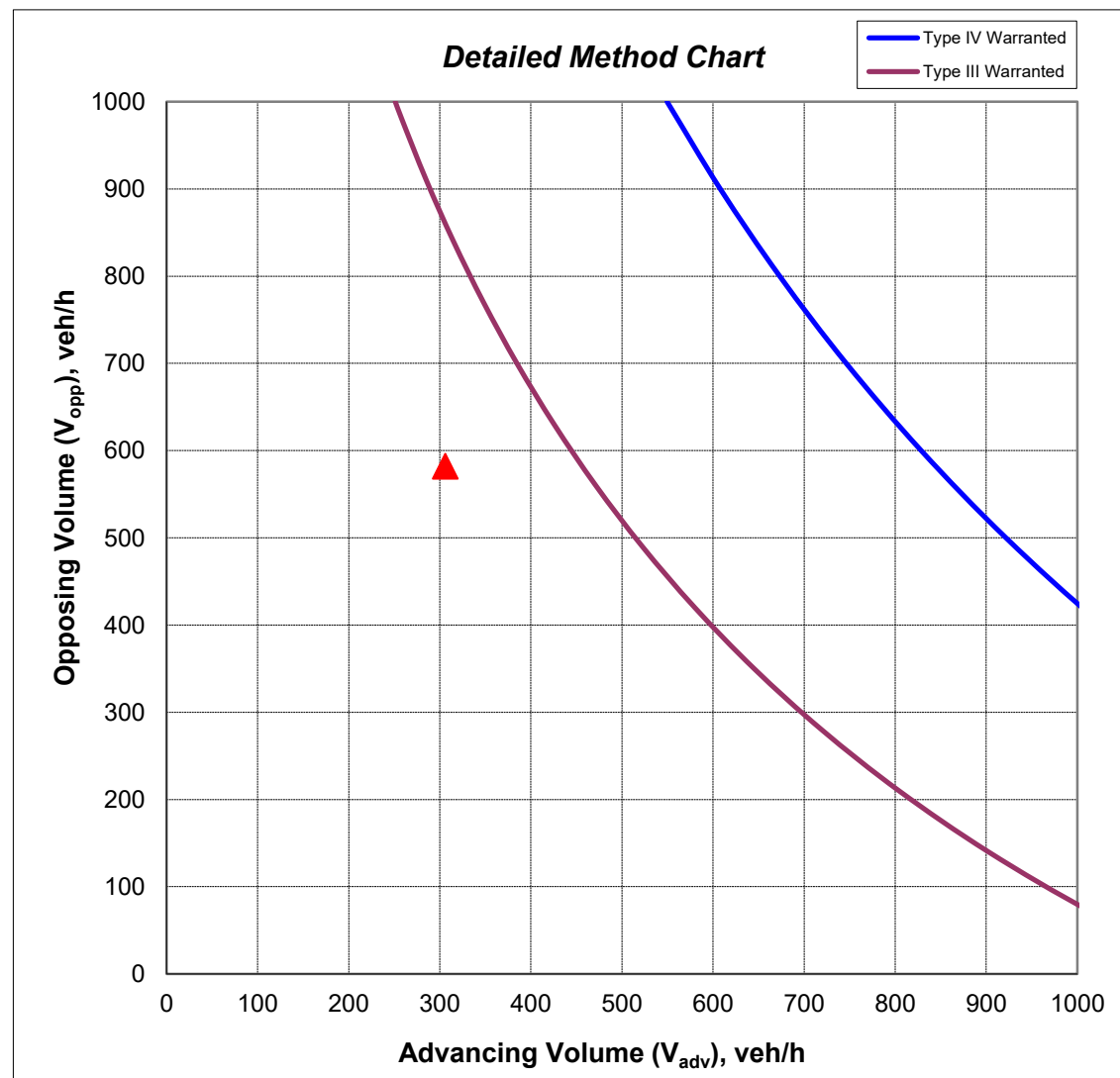
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Rainbow Drive

Direction: SB
Period: AM. Peak

Year of Analysis: 2027 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,236 |
| Minor (intersecting) Road A.A.D.T | 82 |
| Left turn volume (V_{LT}), veh/h: | 6 |
| Advancing volume (V_{adv}), veh/h: | 277 |
| Opposing volume (V_{opp}), veh/h: | 138 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 2.2% |
| Percent trucks in left turn volume: | 16.7% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.2% |
| Calculated conflicts per hour, veh/h: | 0.4 |

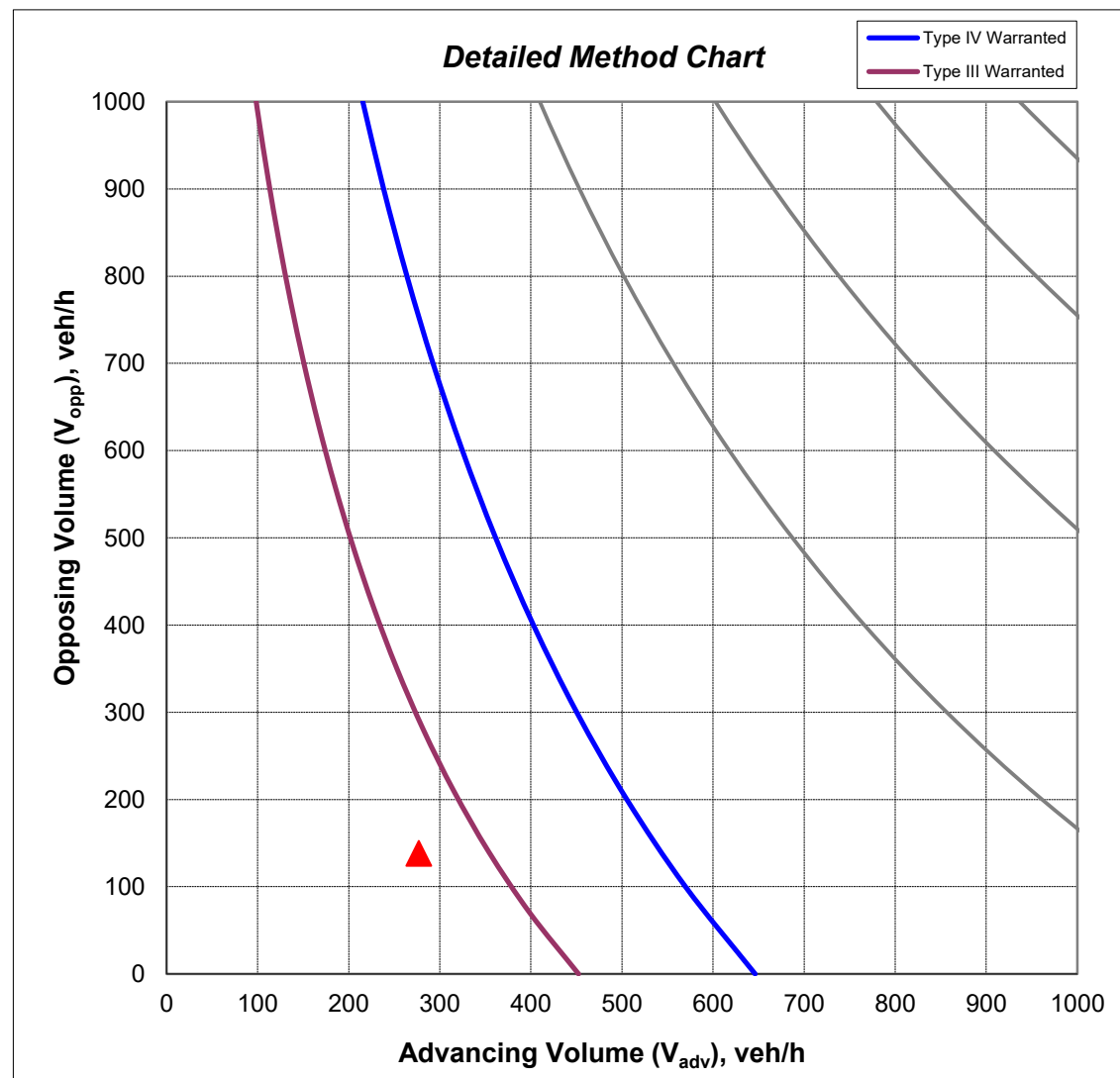
Type I or Type II

Detailed Method Not Required

| | | |
|--|-------------------------------------|---|
| | <i>base storage requirement</i> | - |
| | <i>- standard storage length</i> | - |
| | <i>+ additional truck storage</i> | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2027 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,236 |
| Minor (intersecting) Road A.A.D.T | 82 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 197 |
| Opposing volume (V_{opp}), veh/h: | 376 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

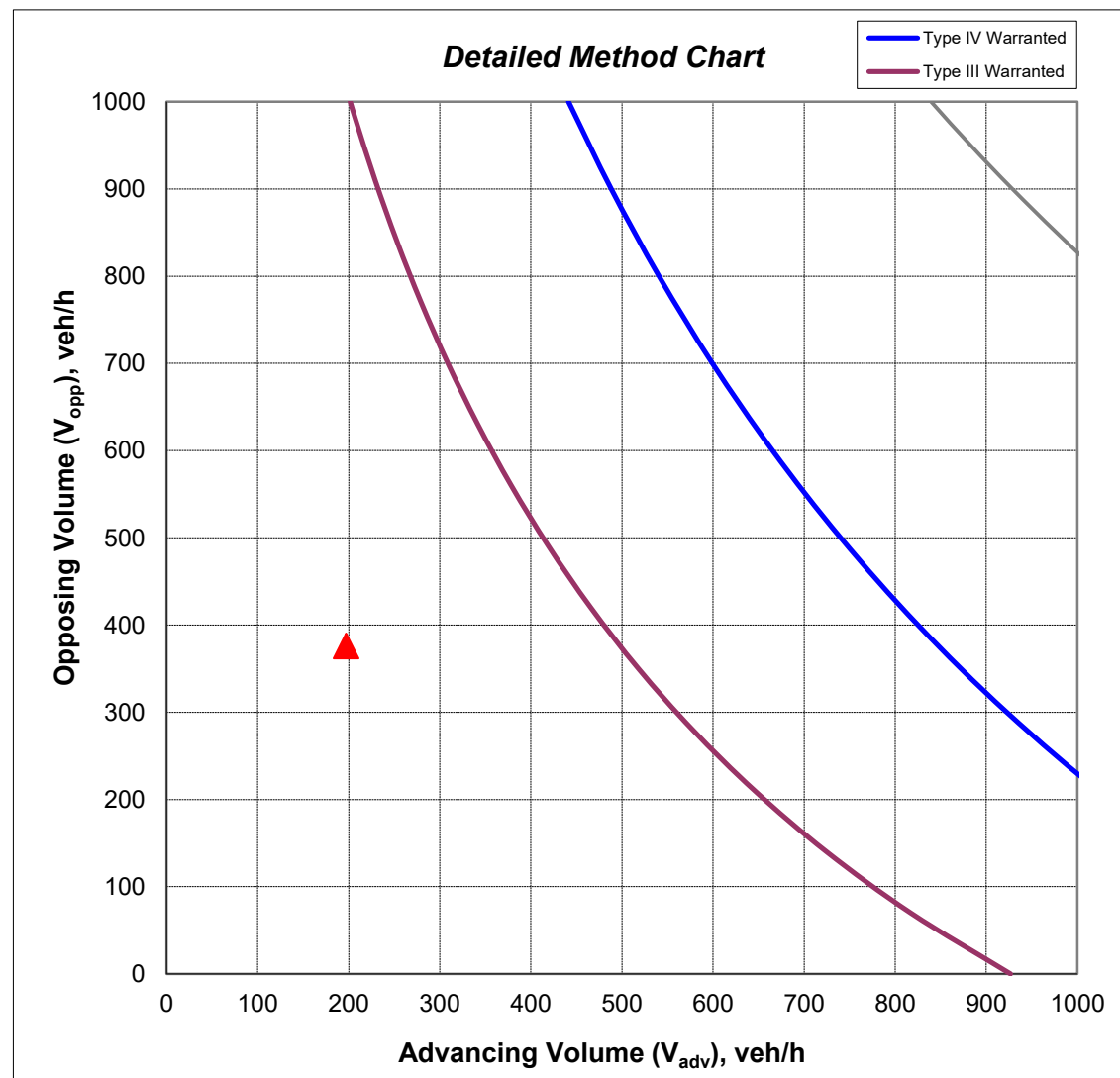
Type I or Type II

Detailed Method Not Required

| | |
|-------------------------------------|---|
| <i>base storage requirement</i> | - |
| <i>- standard storage length</i> | - |
| <i>+ additional truck storage</i> | - |
| = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2030 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,700 |
| Minor (intersecting) Road A.A.D.T | 155 |
| Left turn volume (V_{LT}), veh/h: | 9 |
| Advancing volume (V_{adv}), veh/h: | 304 |
| Opposing volume (V_{opp}), veh/h: | 153 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 3.0% |
| Percent trucks in left turn volume: | 11.1% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.3% |
| Calculated conflicts per hour, veh/h: | 0.8 |

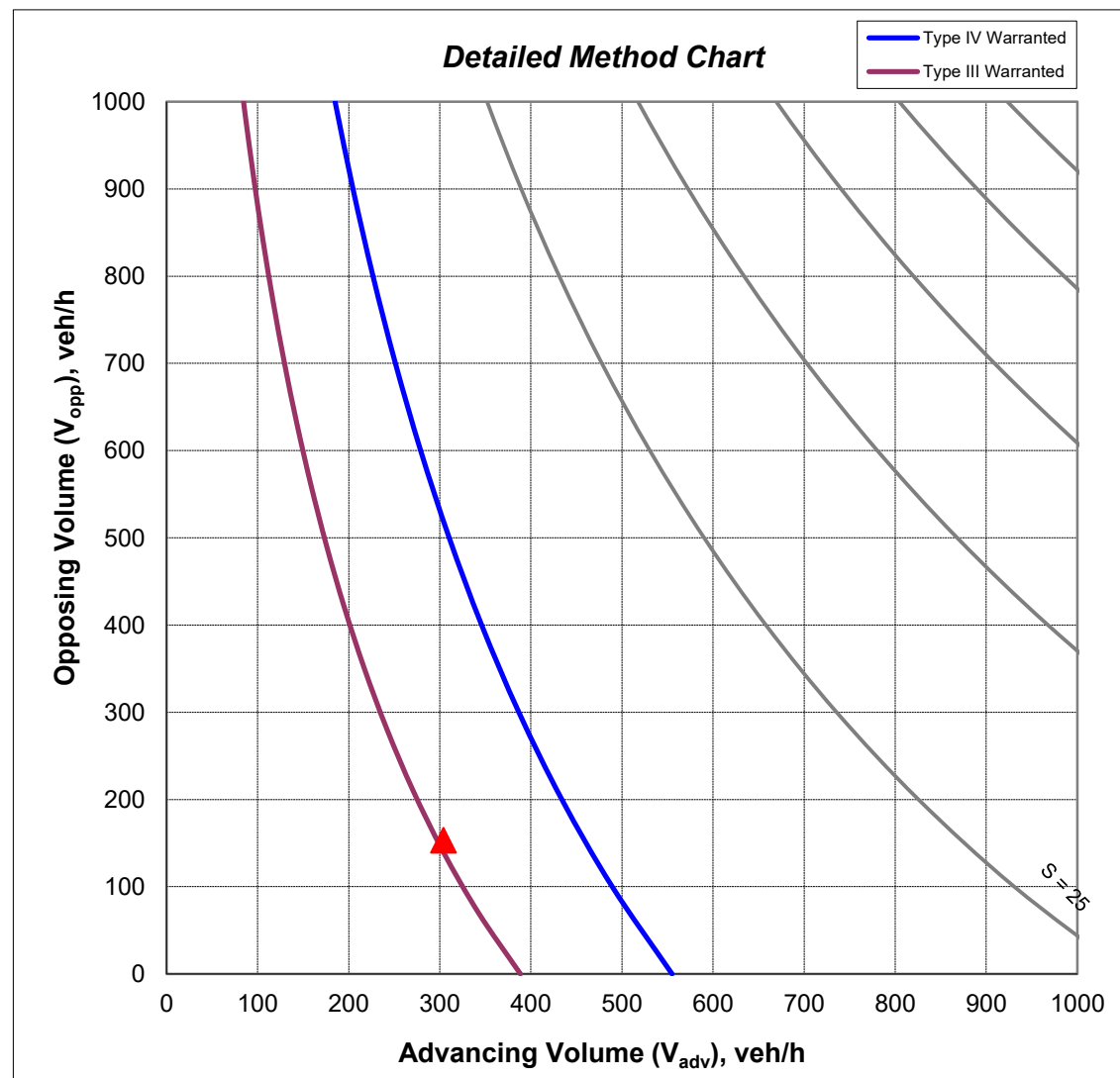
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2030 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 5,700 |
| Minor (intersecting) Road A.A.D.T | 155 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 213 |
| Opposing volume (V_{opp}), veh/h: | 409 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.5% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.0% |
| Calculated conflicts per hour, veh/h: | 0.1 |

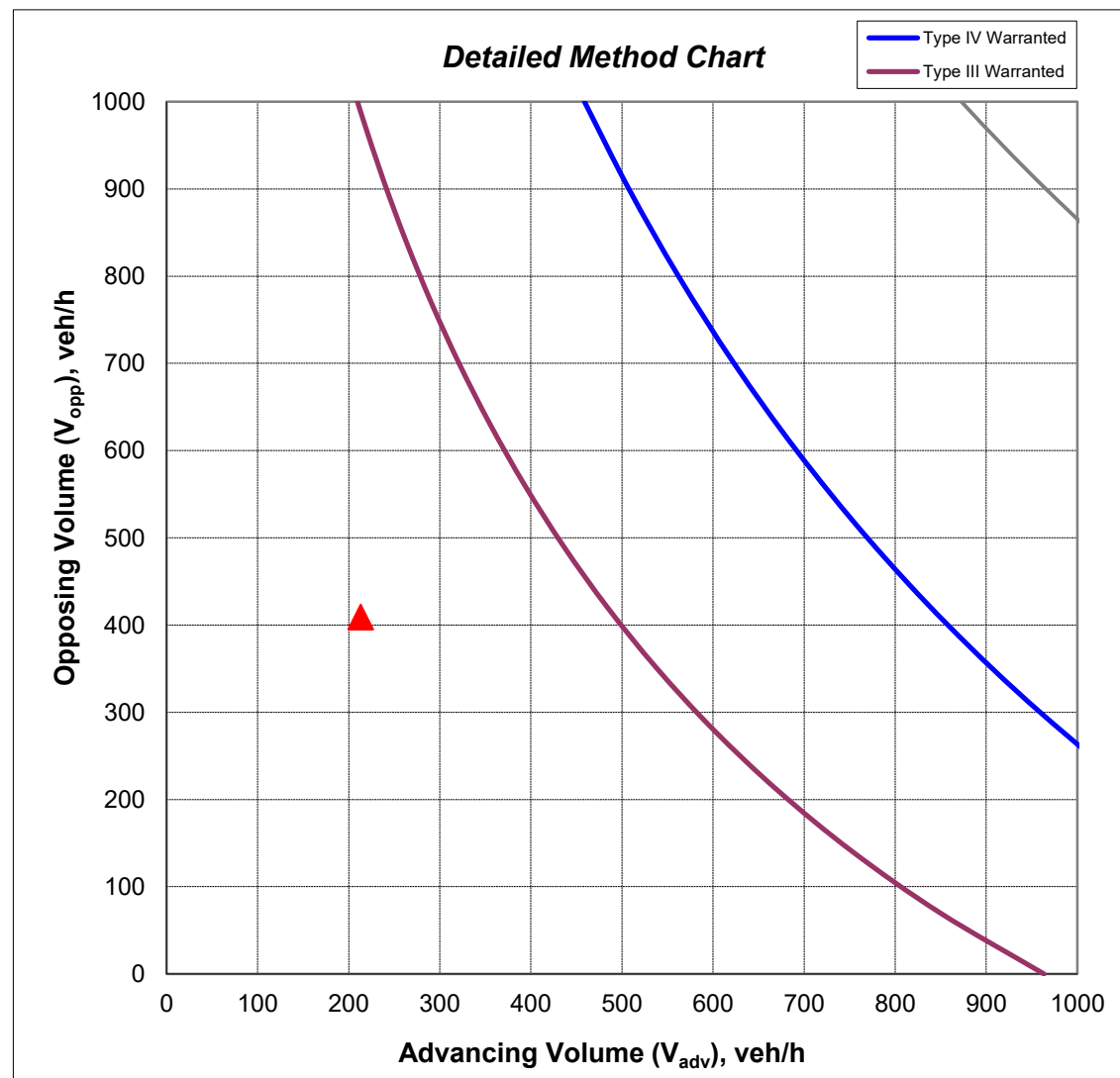
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2040 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 6,964 |
| Minor (intersecting) Road A.A.D.T | 164 |
| Left turn volume (V_{LT}), veh/h: | 10 |
| Advancing volume (V_{adv}), veh/h: | 370 |
| Opposing volume (V_{opp}), veh/h: | 185 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 2.7% |
| Percent trucks in left turn volume: | 10.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.4% |
| Calculated conflicts per hour, veh/h: | 1.4 |

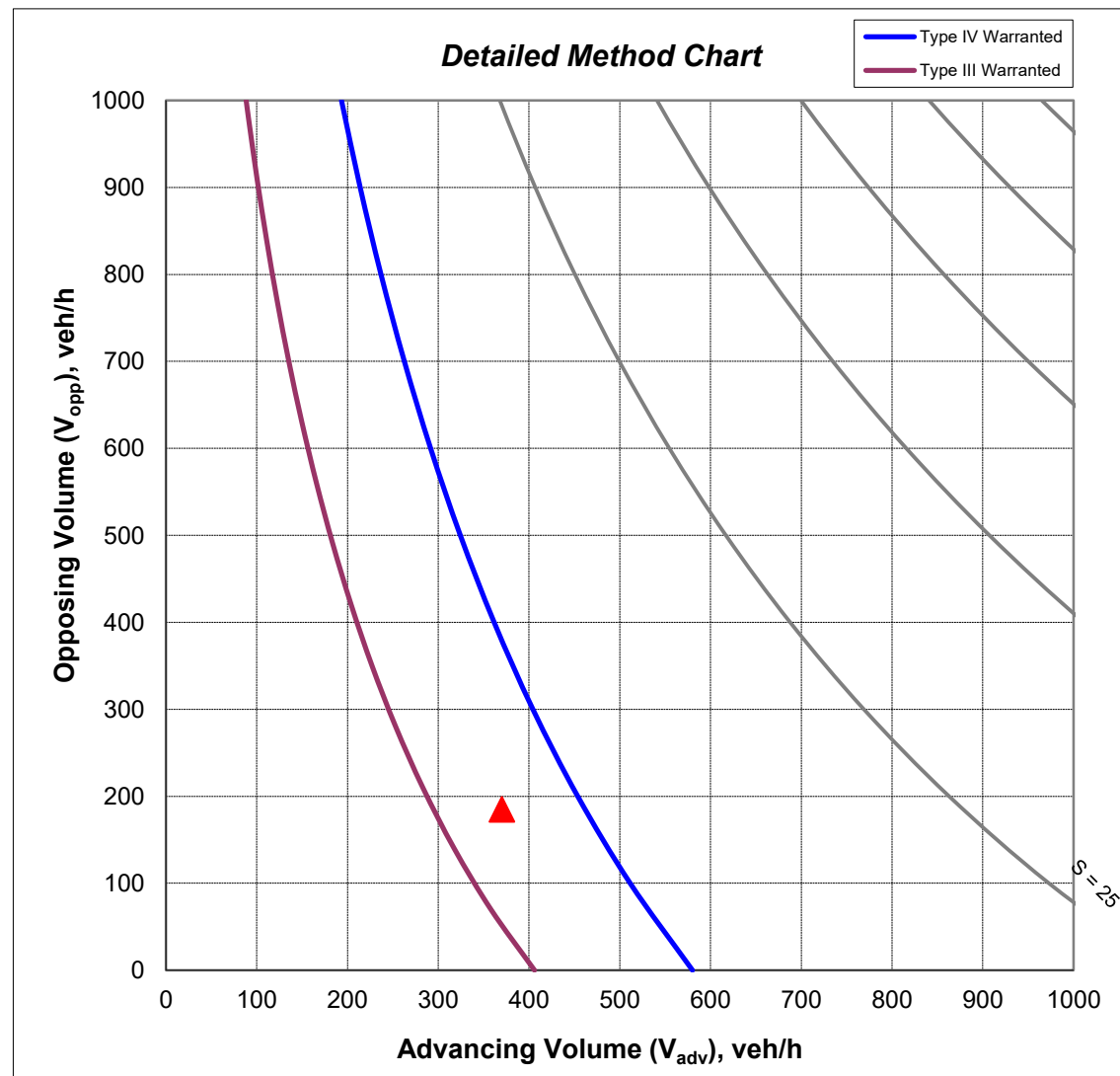
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2040 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 6,964 |
| Minor (intersecting) Road A.A.D.T | 164 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 261 |
| Opposing volume (V_{opp}), veh/h: | 500 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 1 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.4% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.1 |

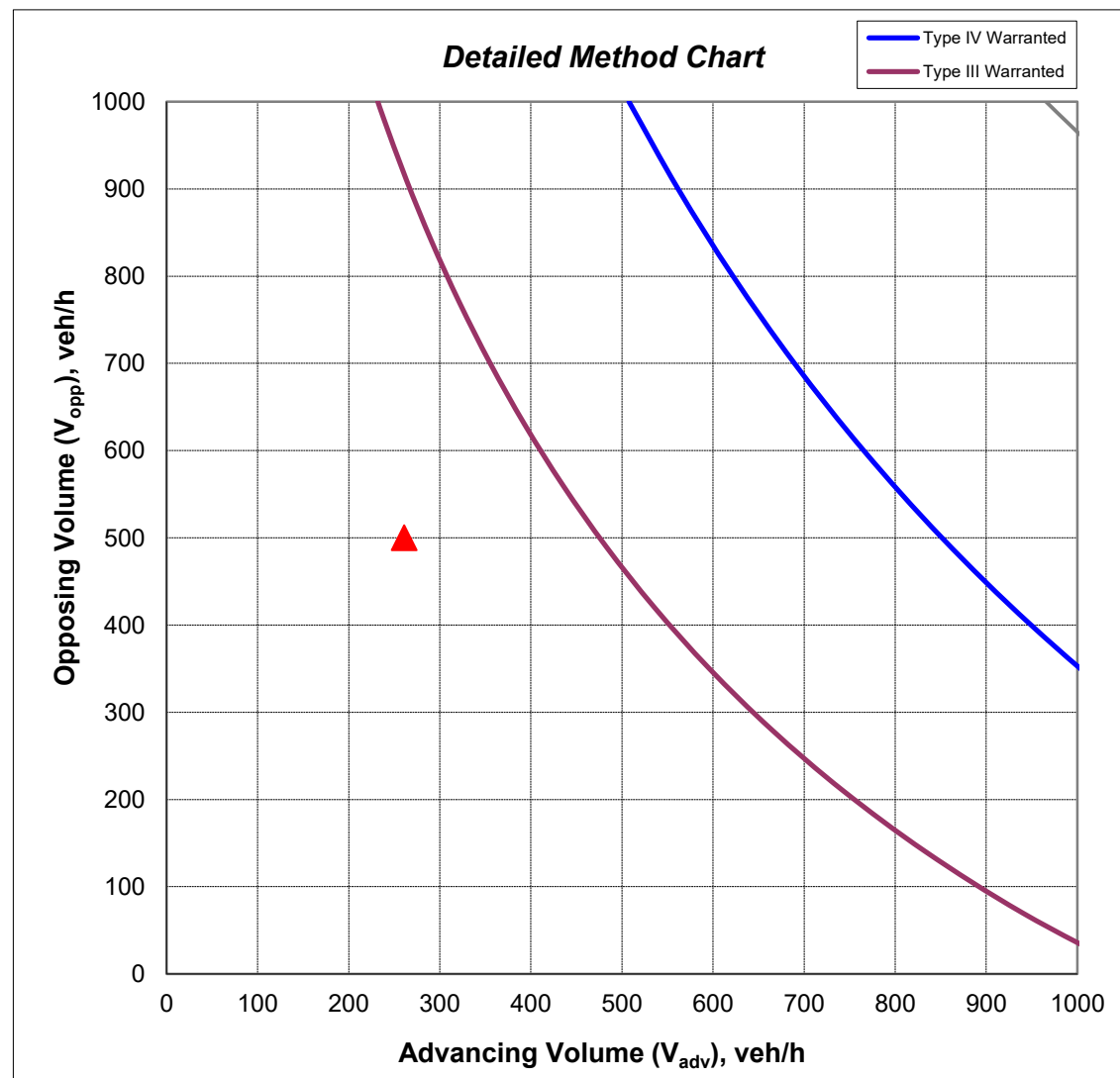
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: AM. Peak

Year of Analysis: 2050 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,237 |
| Minor (intersecting) Road A.A.D.T | 182 |
| Left turn volume (V_{LT}), veh/h: | 11 |
| Advancing volume (V_{adv}), veh/h: | 437 |
| Opposing volume (V_{opp}), veh/h: | 219 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|-------|
| Percent left-turns in advancing volume: | 2.5% |
| Percent trucks in left turn volume: | 9.1% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.5% |
| Calculated conflicts per hour, veh/h: | 2.3 |

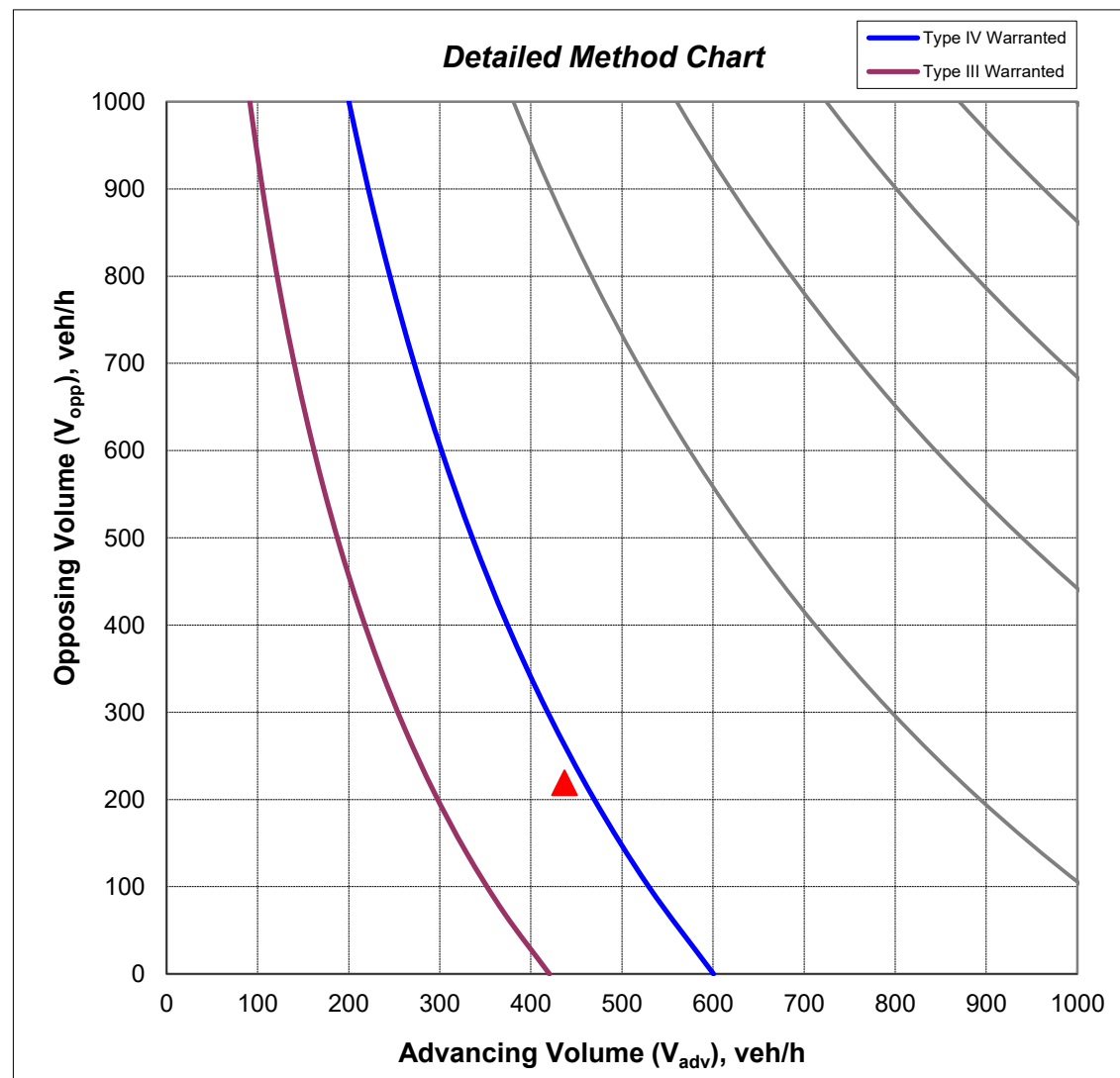
Use Detailed Method

Type III

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |



**Alberta Transportation
Intersection Analysis
Two-Lane Undivided Highways**

Main Rd: Highway 2A
Minor Rd: Township Road 294

Direction: SB
Period: PM. Peak

Year of Analysis: 2050 Total
Date of Analysis: 09-Apr-2026

| INPUT | Value |
|--|-------|
| 85 th percentile speed, km/h: | 110 |
| Main Road A.A.D.T. | 8,237 |
| Minor (intersecting) Road A.A.D.T | 182 |
| Left turn volume (V_{LT}), veh/h: | 1 |
| Advancing volume (V_{adv}), veh/h: | 309 |
| Opposing volume (V_{opp}), veh/h: | 591 |
| Left turn truck volume, trucks/h: | 1 |
| Right turn volume (V_{RT}), veh/h: | 2 |

| OUTPUT | Value |
|--|--------|
| Percent left-turns in advancing volume: | 0.3% |
| Percent trucks in left turn volume: | 100.0% |
| Probability of conflict threshold: | 0.58% |
| Calculated probability of conflicting arrival: | 0.1% |
| Calculated conflicts per hour, veh/h: | 0.2 |

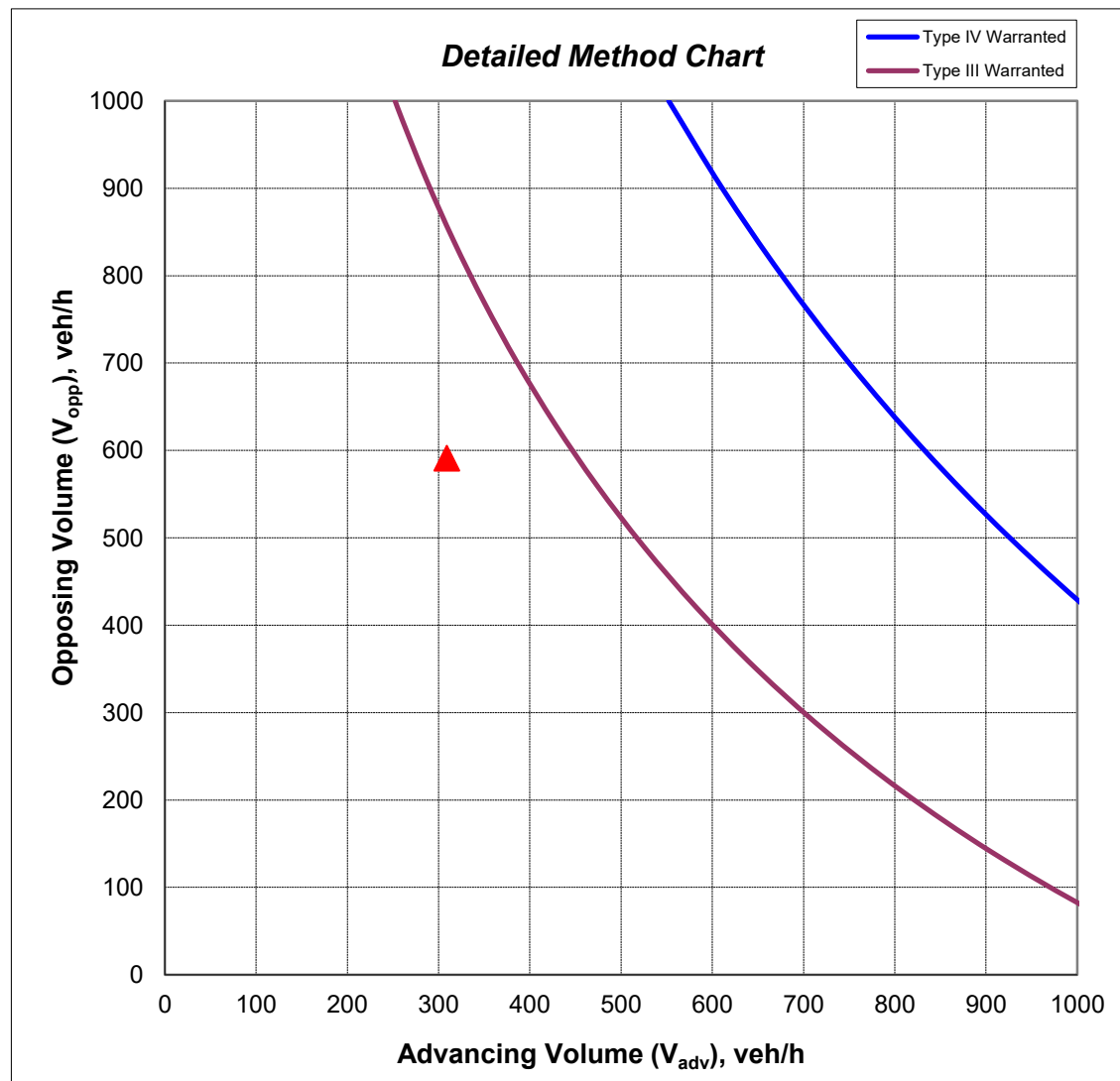
Use Detailed Method

Type II

| | | |
|--|-------------------------------------|---|
| Additional Storage Not Required | base storage requirement | - |
| | - standard storage length | - |
| | + additional truck storage | - |
| | = total additional storage required | - |

CALIBRATION CONSTANTS

| Variable | Value |
|---------------------------------------|-------|
| Average time for making left-turn, s: | 3.0 |
| Critical headway (gap), s: | 5.0 |
| Average time to clear, s: | 1.9 |





Alberta Transportation - Traffic Signal Warrant Analysis

| | | | |
|---|---------------|----------------------|--------------------|
| Main Street (name) | Highway 2A | Direction (EW or NS) | NS |
| Side Street (name) | Rainbow Drive | Direction (EW or NS) | EW |
| Quadrant / Int # | 1 | Comments | 2050 Total Traffic |
| for Warrant Calculation Results, please hit 'Page Down' | | | |
| CHECK SHEET | | | |

| | |
|--------------------|------------------------|
| Road Authority: | Alberta Transportation |
| City: | Mountain View County |
| Analysis Date: | 2026 Apr 10, Fri |
| Count Date: | 2026 Mar 10, Tue |
| Date Entry Format: | (yyyy-mm-dd) |

| Lane Configuration | | Excl LT | Th & LT | Through | Th+RT+LT | Th & RT | Excl RT | UpStream Signal (m) | # of Thru Lanes |
|--------------------|----|---------|---------|---------|----------|---------|---------|---------------------|-----------------|
| Highway 2A | NB | 1 | | | | 1 | | 1,000 | 1 |
| Highway 2A | SB | | 1 | | | | 1 | 1,000 | 1 |
| Rainbow Drive | WB | | | | 1 | | | | |
| Rainbow Drive | EB | | | | 1 | | | | |

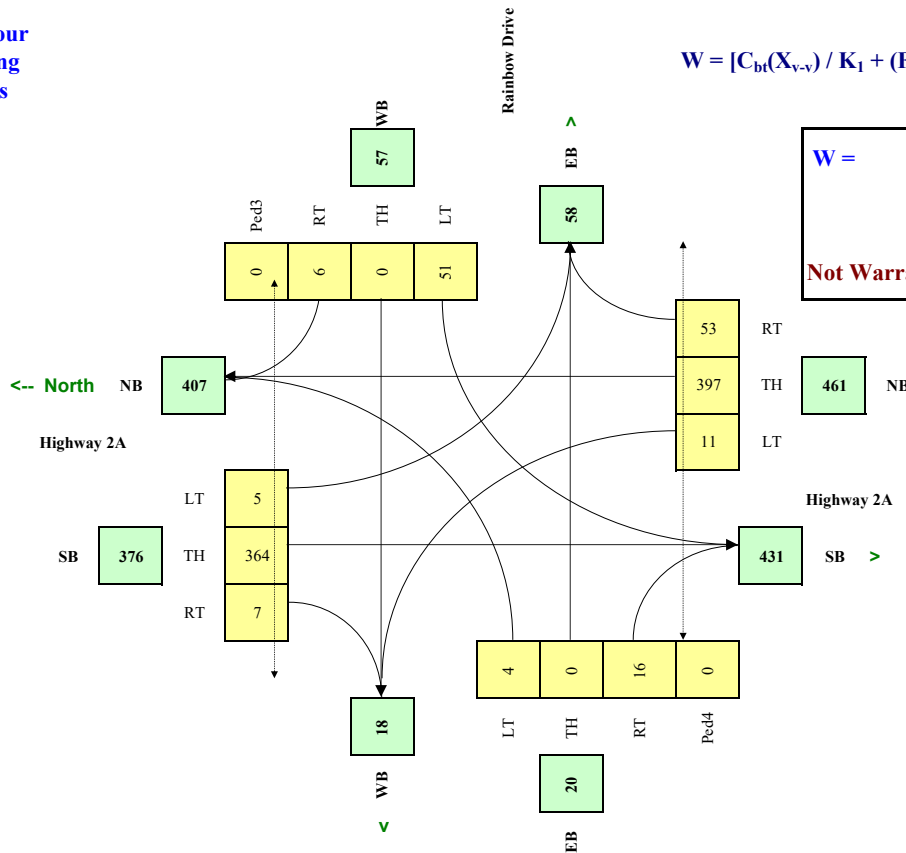
Are the Rainbow Drive WB right turns significantly impeded by through movements? (y/n) n
 Are the Rainbow Drive EB right turns significantly impeded by through movements? (y/n) n

| Demographics | | |
|----------------------------------|-------|-------|
| Elem. School/Mobility Challenged | (y/n) | n |
| Senior's Complex | (y/n) | n |
| Pathway to School | (y/n) | n |
| Metro Area Population | (#) | 1,000 |
| Central Business District | (y/n) | n |

| Other input | | Speed (Km/h) | Truck % (y/n) | Bus Rt (y/n) | Median (m) |
|---------------|----|--------------|---------------|--------------|------------|
| Highway 2A | NS | 100 | 5.0% | n | 0.0 |
| Rainbow Drive | EW | 50 | 5.0% | n | 0.0 |

| Traffic Input | Set Peak Hours | | | | | | | | | | | | Ped1 | Ped2 | Ped3 | Ped4 |
|-----------------------|----------------|-------|-----|----|-------|----|-----|----|----|----|----|----|--------|--------|--------|--------|
| | NB | | | SB | | | WB | | | EB | | | NS | NS | EW | EW |
| | LT | Th | RT | LT | Th | RT | LT | Th | RT | LT | Th | RT | W Side | E Side | N Side | S Side |
| 7:00 - 8:00 | 19 | 211 | 82 | 8 | 414 | 11 | 26 | 0 | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 |
| 8:00 - 9:00 | 19 | 211 | 82 | 8 | 414 | 11 | 26 | 0 | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 |
| 12:00 - 13:00 | 19 | 211 | 82 | 8 | 414 | 11 | 26 | 0 | 2 | 3 | 0 | 5 | 0 | 0 | 0 | 0 |
| 13:00 - 14:00 | 3 | 583 | 23 | 2 | 314 | 3 | 75 | 0 | 10 | 5 | 0 | 27 | 0 | 0 | 0 | 0 |
| 16:00 - 17:00 | 3 | 583 | 23 | 2 | 314 | 3 | 75 | 0 | 10 | 5 | 0 | 27 | 0 | 0 | 0 | 0 |
| 17:00 - 18:00 | 3 | 583 | 23 | 2 | 314 | 3 | 75 | 0 | 10 | 5 | 0 | 27 | 0 | 0 | 0 | 0 |
| Total (6-hour peak) | 66 | 2,382 | 315 | 30 | 2,184 | 42 | 303 | 0 | 36 | 24 | 0 | 96 | 0 | 0 | 0 | 0 |
| Average (6-hour peak) | 11 | 397 | 53 | 5 | 364 | 7 | 51 | 0 | 6 | 4 | 0 | 16 | 0 | 0 | 0 | 0 |

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v-v}) / K_1 + (F(X_{v-p})L) / K_2] \times C_i$$

| | | | |
|-------------------------|----|-----|-----|
| W = | 38 | 38 | 0 |
| | | Veh | Ped |
| Not Warranted - Vs < 75 | | | |

RESET SHEET



Alberta Transportation - Traffic Signal Warrant Analysis

| | | | |
|---|-------------------|----------------------|--------------------|
| Main Street (name) | Highway 2A | Direction (EW or NS) | NS |
| Side Street (name) | Township Road 294 | Direction (EW or NS) | EW |
| Quadrant / Int # | 2 | Comments | 2050 Total Traffic |
| for Warrant Calculation Results, please hit 'Page Down' | | | |
| CHECK SHEET | | | |

| | |
|--------------------|------------------------|
| Road Authority: | Alberta Transportation |
| City: | Mountain View County |
| Analysis Date: | 2026 Apr 10, Fri |
| Count Date: | 2026 Mar 10, Tue |
| Date Entry Format: | (yyyy-mm-dd) |

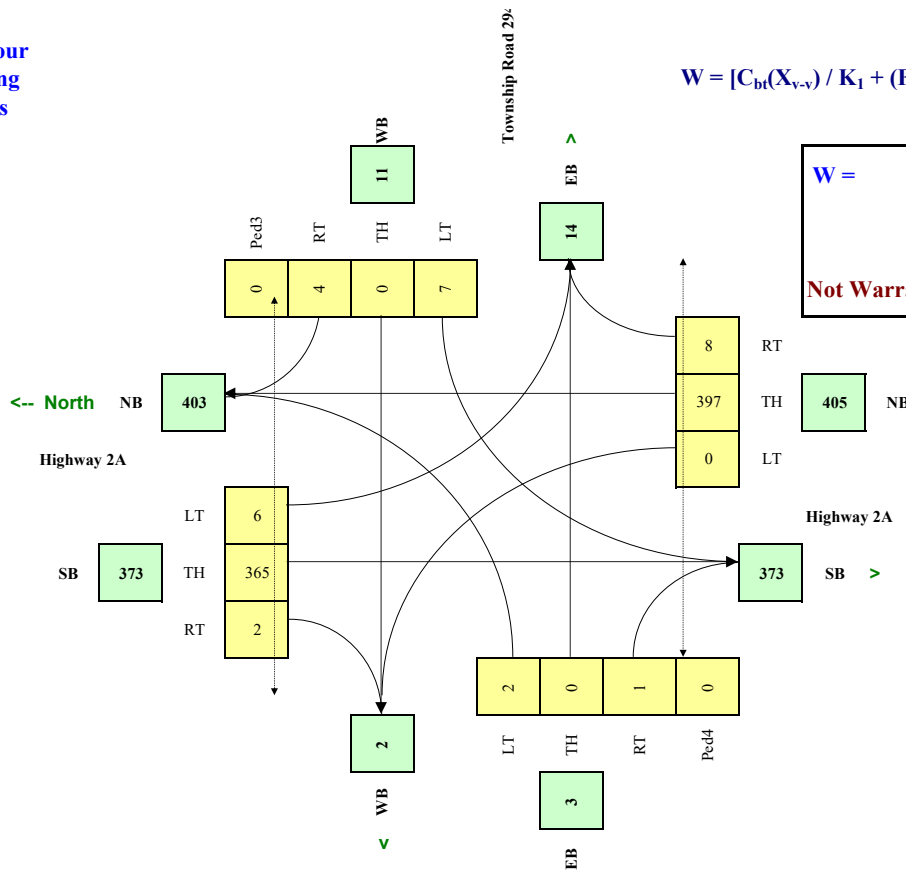
| Lane Configuration | | Excl LT | Th & LT | Through | Th-RT+LT | Th & RT | Excl RT | UpStream Signal (m) | # of Thru Lanes |
|--------------------|----|---------|---------|---------|----------|---------|---------|---------------------|-----------------|
| Highway 2A | NB | | 1 | | | | 1 | 1,000 | 1 |
| Highway 2A | SB | | 1 | | | | 1 | 1,000 | 1 |
| Township Road 294 | WB | | | | 1 | | | | |
| Township Road 294 | EB | | | | 1 | | | | |

| Demographics | | |
|----------------------------------|-------|-------|
| Elem. School/Mobility Challenged | (y/n) | n |
| Senior's Complex | (y/n) | n |
| Pathway to School | (y/n) | n |
| Metro Area Population | (#) | 1,000 |
| Central Business District | (y/n) | n |

| Other input | | Speed (Km/h) | Truck % | Bus Rt (y/n) | Median (m) |
|-------------------|----|--------------|---------|--------------|------------|
| Highway 2A | NS | 100 | 5.0% | n | 0.0 |
| Township Road 294 | EW | 50 | 5.0% | n | 0.0 |

| Traffic Input | Set Peak Hours | | | | | | | | | | | | Ped1 | Ped2 | Ped3 | Ped4 |
|-----------------------|----------------|-------|----|----|-------|----|----|----|----|----|----|----|--------|--------|--------|--------|
| | NB | | | SB | | | WB | | | EB | | | NS | NS | EW | EW |
| | LT | Th | RT | LT | Th | RT | LT | Th | RT | LT | Th | RT | W Side | E Side | N Side | S Side |
| 7:00 - 8:00 | 0 | 204 | 15 | 11 | 424 | 2 | 3 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:00 - 9:00 | 0 | 204 | 15 | 11 | 424 | 2 | 3 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 - 13:00 | 0 | 204 | 15 | 11 | 424 | 2 | 3 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:00 - 14:00 | 0 | 590 | 1 | 1 | 306 | 2 | 11 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 16:00 - 17:00 | 0 | 590 | 1 | 1 | 306 | 2 | 11 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 17:00 - 18:00 | 0 | 590 | 1 | 1 | 306 | 2 | 11 | 0 | 7 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Total (6-hour peak) | 0 | 2,382 | 48 | 36 | 2,190 | 12 | 42 | 0 | 24 | 9 | 0 | 6 | 0 | 0 | 0 | 0 |
| Average (6-hour peak) | 0 | 397 | 8 | 6 | 365 | 2 | 7 | 0 | 4 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |

Average 6-hour Peak Turning Movements



$$W = [C_{bt}(X_{v-v}) / K_1 + (F(X_{v-p})L) / K_2] \times C_i$$

| | | | |
|----------------------------|---|-----|-----|
| W = | 8 | 8 | 0 |
| | | Veh | Ped |
| Not Warranted - $V_s < 75$ | | | |

RESET SHEET

Appendix D

Illumination Warrant Analysis

Illumination of Isolated Rural Intersections

LIGHTING WARRANT SPREADSHEET

This spreadsheet is to be used in conjunction with *Illumination of Isolated Rural Intersections*, Transportation Association of Canada, February 2001.

Please enter information in the cells with yellow background

INTERSECTION CHARACTERISTICS

| | |
|------------------------|------------|
| Highway 2A | Main Road |
| Rainbow Drive | Minor Road |
| Alberta Transportation | City/Town |

| | |
|-------|--|
| Date | April 10, 2026 |
| Other | Traffic Count Performed March 10, 2026 2050 Combined Traffic Scenario k=0.11 |

GEOMETRIC FACTORS

| | Value | Rating | Weight | Comments | Check | Score |
|--|-------------|--------|--------|---|-------|----------|
| Channelization Rating | Descriptive | 0 | | Refer to Table 1(A) to determine rating value | OK | |
| Presence of raised channelization? (Y/N) | n | | | | OK | |
| Highest operating speed on raised, channelized approach (km/h) | 0 | | 5 | | OK | |
| Channelization Factor | | | | | OK | 0 |
| Approach Sight Distance on most constrained approach (%) | 100 | 0 | 10 | Relative to the recommended minimum sight distance | OK | 0 |
| Posted Speed limit (in 10's of km/h) | 100 | | | | OK | |
| Radius of Horizontal Curve (m) | T | | | Enter "T" for tangent (no horizontal curve at the intersection) | OK | |
| Posted Speed Category = | | 0 | | | | |
| Posted Speed Category = | B | 0 | | | | |
| Posted Speed Category = | | 0 | | | | |
| Posted Speed Category = | | 0 | | | | |
| Horizontal Curvature Factor | | 0 | 5 | | OK | 0 |
| Angle of Intersection (10's of Degrees) | 90 | 0 | 5 | | OK | 0 |
| Downhill Approach Grade (x.x%) | 2.0 | 0 | 3 | Rounded to nearest tenth of a percent | OK | 0 |
| Number of Intersection Legs | 4 | 2 | 3 | Number of legs = 3 or more | OK | 6 |
| Geometric Factors Subtotal | | | | | | 6 |

OPERATIONAL FACTORS

| | | | | | | |
|--|-------------|---|----|---|----|------------|
| Is the intersection signalized? (Y/N) | n | | | Calculate the Signalization Warrant Factor | | |
| AADT on Major Road (2-way) | 8336 | 4 | 10 | Either Use the two AADT inputs OR the Descriptive Signalization Warrant (Unused values should be set to Zero) Refer to Table 1(B) for description and rating values for signalization warrant. | OK | 40 |
| AADT on Minor Road (2-way) | 1000 | 2 | 20 | | OK | 40 |
| Signalization Warrant | Descriptive | 0 | 30 | | OK | 0 |
| Night-Time Hourly Pedestrian Volume | 0 | 0 | 10 | Refer to Table 1(B), note #2, to account for children and seniors | OK | 0 |
| Intersecting Roadway Classification | Descriptive | 2 | 5 | Refer to Table 1(B) for ratings. | OK | 10 |
| Operating Speed or Posted Speed on Major Road (km/h) | 100 | 4 | 5 | Refer to Table 1(B), note #3 | OK | 20 |
| Operating Speed on Minor Road (km/h) | 50 | 0 | 5 | Refer to Table 1(B), note #3 | OK | 0 |
| Operational Factors Subtotal | | | | | | 110 |

ENVIRONMENTAL FACTOR

| | | | | | | |
|--|---|---|---|------------------------|----|----------|
| Lighted Developments within 150 m radius of intersection | 0 | 0 | 5 | Maximum of 4 quadrants | OK | 0 |
| Environmental Factor Subtotal | | | | | | 0 |

COLLISION HISTORY

| | | | | | | |
|--|-----|---|---|---|----|----------|
| Average Annual night-time collision frequency due to inadequate lighting (collisions/yr, rounded to nearest whole #) | 0.0 | 0 | 0 | Enter either the annual frequency (See Table 1(C), note #4) OR the number of collisions / MEV (Unused values should be set to Zero) | OK | 0 |
| Collision Rate over last 3 years, due to inadequate lighting (/MEV) | 0 | 0 | 0 | | OK | 0 |
| Is the average ratio of all night to day collisions ≥ 1.5 (Y/N) | N | 0 | | | OK | |
| Collision History Subtotal | | | | | | 0 |

Check Intersection Signalization:
Intersection is not Signalized

LIGHTING IS NOT WARRANTED

SUMMARY

| | |
|-------------------------------|------------|
| Geometric Factors Subtotal | 6 |
| Operational Factor Subtotal | 110 |
| Environmental Factor Subtotal | 0 |
| Collision History Subtotal | 0 |
| TOTAL POINTS | 116 |

Illumination of Isolated Rural Intersections

LIGHTING WARRANT SPREADSHEET

This spreadsheet is to be used in conjunction with *Illumination of Isolated Rural Intersections*, Transportation Association of Canada, February 2001.

Please enter information in the cells with yellow background

INTERSECTION CHARACTERISTICS

| | |
|------------------------|------------|
| Highway 2A | Main Road |
| Township Road 294 | Minor Road |
| Alberta Transportation | City/Town |

| | |
|-------|--|
| Date | April 10, 2026 |
| Other | Traffic Count Performed March 10, 2026 2050 Combined Traffic Scenario k=0.11 |

GEOMETRIC FACTORS

| | Value | Rating | Weight | Comments | Check | Score |
|--|-------------|--------|--------|---|-------|----------|
| Channelization Rating | Descriptive | 0 | | Refer to Table 1(A) to determine rating value | OK | |
| Presence of raised channelization? (Y / N) | n | | | | OK | |
| Highest operating speed on raised, channelized approach (km/h) | 0 | | 5 | | OK | |
| Channelization Factor | | | | | OK | 0 |
| Approach Sight Distance on most constrained approach (%) | 100 | 0 | 10 | Relative to the recommended minimum sight distance | OK | 0 |
| Posted Speed limit (in 10's of km/h) | 100 | | | | OK | |
| Radius of Horizontal Curve (m) | T | | | Enter "T" for tangent (no horizontal curve at the intersection) | OK | |
| Posted Speed Category = | | 0 | | | | |
| Posted Speed Category = | B | 0 | | | | |
| Posted Speed Category = | | 0 | | | | |
| Posted Speed Category = | | 0 | | | | |
| Horizontal Curvature Factor | | 0 | 5 | | OK | 0 |
| Angle of Intersection (10's of Degrees) | 90 | 0 | 5 | | OK | 0 |
| Downhill Approach Grade (x.x%) | 2.0 | 0 | 3 | Rounded to nearest tenth of a percent | OK | 0 |
| Number of Intersection Legs | 4 | 2 | 3 | Number of legs = 3 or more | OK | 6 |
| Geometric Factors Subtotal | | | | | | 6 |

OPERATIONAL FACTORS

| | | | | | | |
|--|-------------|---|----|--|----|-----------|
| Is the intersection signalized? (Y / N) | n | | | Calculate the Signalization Warrant Factor | | |
| AADT on Major Road (2-way) | 8237 | 4 | 10 | | OK | 40 |
| AADT on Minor Road (2-way) | 182 | 0 | 20 | Either Use the two AADT inputs OR the Descriptive Signalization Warrant (Unused values should be set to Zero) Refer to Table 1(B) for description and rating values for signalization warrant. | OK | 0 |
| Signalization Warrant | Descriptive | 0 | 30 | | OK | 0 |
| Night-Time Hourly Pedestrian Volume | 0 | 0 | 10 | Refer to Table 1(B), note #2, to account for children and seniors | OK | 0 |
| Intersecting Roadway Classification | Descriptive | 2 | 5 | Refer to Table 1(B) for ratings. | OK | 10 |
| Operating Speed or Posted Speed on Major Road (km/h) | 100 | 4 | 5 | Refer to Table 1(B), note #3 | OK | 20 |
| Operating Speed on Minor Road (km/h) | 50 | 0 | 5 | Refer to Table 1(B), note #3 | OK | 0 |
| Operational Factors Subtotal | | | | | | 70 |

ENVIRONMENTAL FACTOR

| | | | | | | |
|--|---|---|---|------------------------|----|----------|
| Lighted Developments within 150 m radius of intersection | 0 | 0 | 5 | Maximum of 4 quadrants | OK | 0 |
| Environmental Factor Subtotal | | | | | | 0 |

COLLISION HISTORY

| | | | | | | |
|--|-----|---|---|---|----|----------|
| Average Annual night-time collision frequency due to inadequate lighting (collisions/yr, rounded to nearest whole #) | 0.0 | 0 | 0 | Enter either the annual frequency (See Table 1(C), note #4) | OK | 0 |
| OR | | | | OR the number of collisions / MEV | | |
| Collision Rate over last 3 years, due to inadequate lighting (/MEV) | 0 | 0 | 0 | (Unused values should be set to Zero) | OK | 0 |
| Is the average ratio of all night to day collisions >= 1.5 (Y/N) | N | 0 | | | OK | |
| Collision History Subtotal | | | | | | 0 |

Check Intersection Signalization:
Intersection is not Signalized

LIGHTING IS NOT WARRANTED

SUMMARY

| | |
|-------------------------------|----|
| Geometric Factors Subtotal | 6 |
| Operational Factor Subtotal | 70 |
| Environmental Factor Subtotal | 0 |
| Collision History Subtotal | 0 |

TOTAL POINTS **76**