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# **7C's Swim School Traffic Impact Analysis**

**Jurisdiction: City of Mill Creek**

**January 2019**



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## **1. DEVELOPMENT IDENTIFICATION**

Gibson Traffic Consultants, Inc. (GTC) has been retained to analyze the traffic impacts of the 7C's Swim School development. The 7C's Swim School development is proposing a 10,000 SF facility that will house a 50-foot by 70-foot pool. It is anticipated that there will be approximately 29 family visits during the PM peak-hour on a normal basis when the facility is operating at its maximum capacity. The site is located on the east side of N Creek Drive, south of Dumas Road. The site access will be located on the opposite side of N Creek Road from the southern driveway to Heatherwood Apartments. A site vicinity map is included in Figure 1.

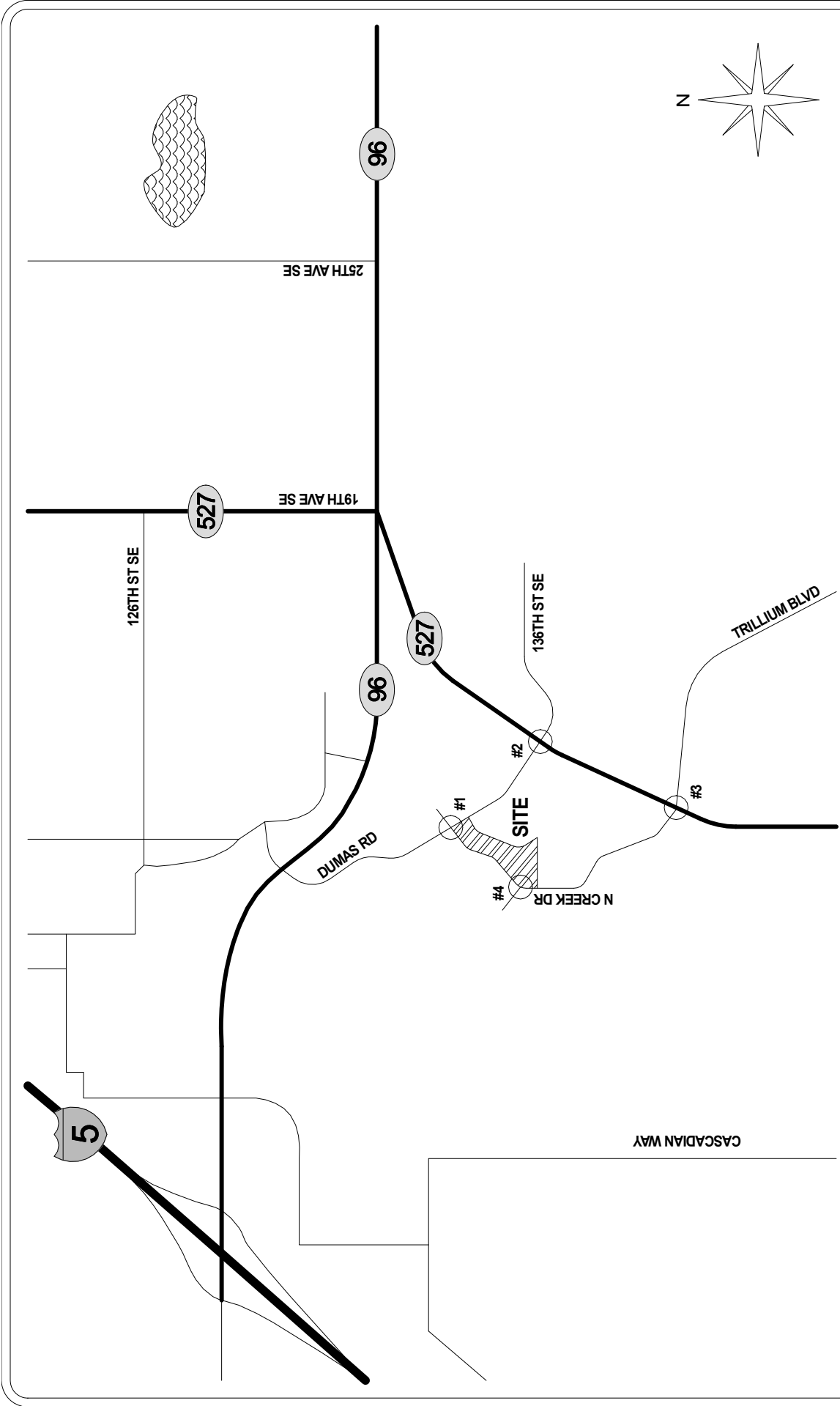
Matthew Palmer, responsible for this report and traffic analysis, is a licensed professional engineer (Civil) in the State of Washington and member of the Washington State section of ITE.

## **2. METHODOLOGY**

### **2.1 General**

Trip generation for the 7C's Swim School development is based on data provided by the client on the existing site location and a count of the existing facility.

The distribution of trips generated by the site is based on turning movement counts at the study intersections and the location of residential neighborhoods.



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**TRAFFIC IMPACT STUDY  
GTC #18-262**

**LEGEND**



DEVELOPMENT SITE



STUDY INTERSECTION

**FIGURE 1  
SITE VICINITY  
MAP**

**7C'S SWIM SCHOOL**

**CITY OF MILL CREEK**

### 3. TRIP GENERATION

The trip generation calculations are based on data provided by the client and a count of their existing facility. Based on a year's worth of data, there are approximately 1.89 PM peak-hour trips per attending family with an average of 14.67 attending families during the PM peak-hour. This equated to approximately 27.73 PM peak-hour trips for an average weekday at their existing facility.

The pool size will be increasing from 30-feet by 50-feet to 50-feet by 70-feet. This increase is to account for the number of instructors doubling and for an increase in the warm-up/cool-down area which is currently undersized. Due to the swimming lessons being held in a one-on-one format, the number of trips is expected to double with the increase in instructors. This would result in a PM peak-hour trip generation of approximately 55.45 trips.

The number of Average Daily Trips (ADT) for the 7C's Swimming School was estimated conservatively high by assuming that the number of PM peak-hour trips (typically the highest in the day) occurred during every hour of operation. The 7C's Swim School will be retaining its hours of operation (9:30 AM till 7:00 PM), resulting in 9.5 hours of operation. Taking off a half hour to account for instructor breaks, the 7C's Swim School is anticipated to generate approximately 499.07 ADT.

Due to the Swim School not being open during the AM peak-hour (7-9 AM) the development will not generate any trips during the AM peak-hour. The trip generation for the 7C's Swim School is summarized in Table 1 below.

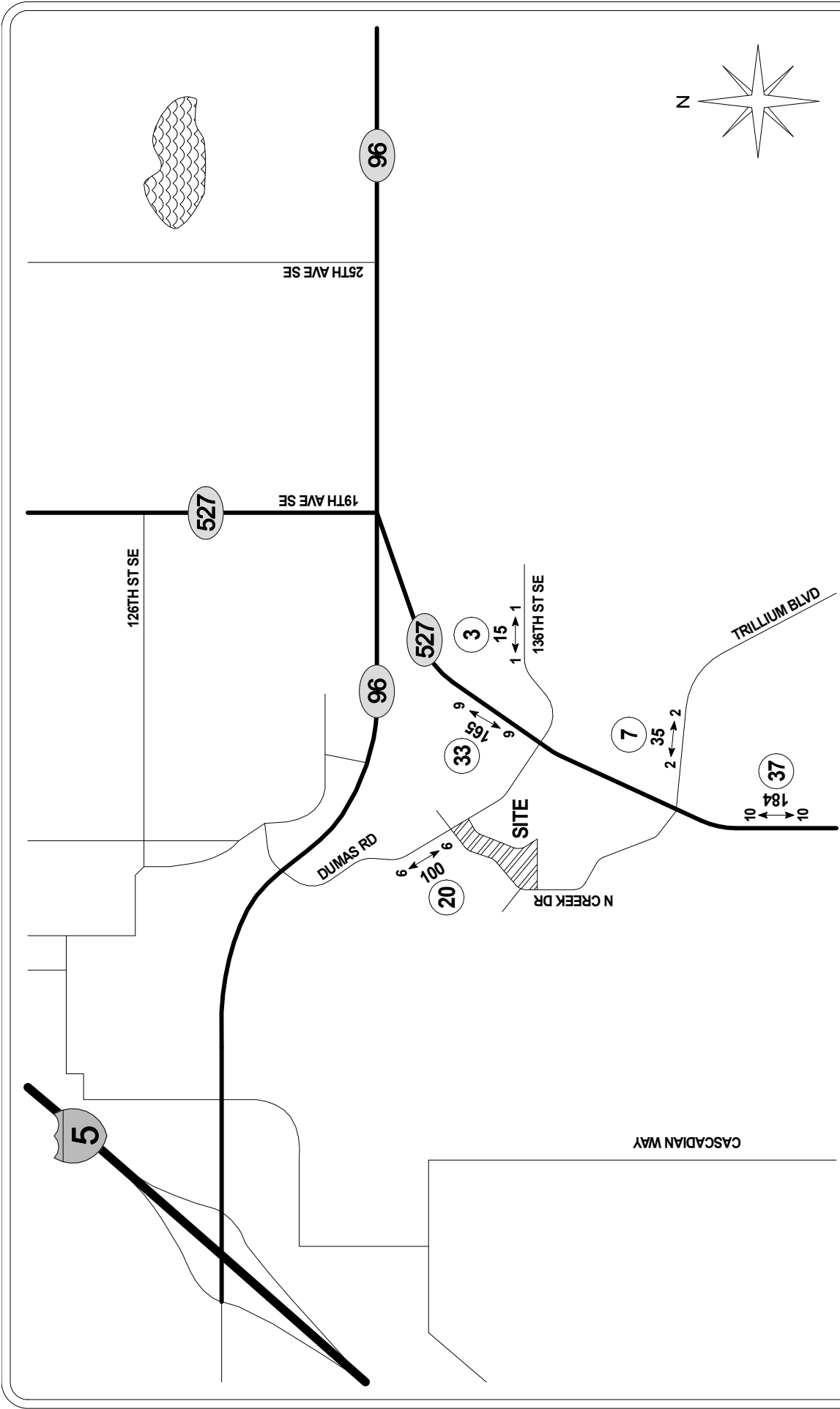
**Table 1: 7C's Swim School Trip Generation**

| 7C's Swim School<br>(29.34 Attending Families) | Average Daily Trips              |          |        | PM Peak-Hour Trips              |          |       |
|------------------------------------------------|----------------------------------|----------|--------|---------------------------------|----------|-------|
|                                                | Inbound                          | Outbound | Total  | Inbound                         | Outbound | Total |
| Generation Rate                                | 17.01 trips per Attending Family |          |        | 1.89 trips per Attending Family |          |       |
| Splits                                         | 50%                              | 50%      | 100%   | 50%                             | 50%      | 100%  |
| Trips                                          | 249.54                           | 249.53   | 499.07 | 27.73                           | 27.72    | 55.45 |

The 7C's Swim School is anticipated to generate 499.07 new average daily trips with 55.45 new PM peak-hour trips. The trip generation calculations are included in the attachments.

#### **4. TRIP DISTRIBUTION**

The distribution of trips generated by the 7C's Swim School development is based on local counts performed in the site vicinity. It is estimated that 53% of the development's trips will travel to and from the north, twenty percent along Dumas Road and thirty-three percent along SR-527. An expected 10% will travel to and from the east, three percent along 136<sup>th</sup> Street SE and seven percent along Trillium Boulevard. The final 37% is expected to travel to and from the south along SR-527. Detailed distributions for the PM peak-hour trips generated by the development are shown in Figure 2.



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7C'S SWIM SCHOOL

LEGEND  
AWDT  
PM  
NEW SITE TRAFFIC  
(DAILY/PEAK-HOUR)

TRIP DISTRIBUTION %  
(XX)

CITY OF MILL CREEK

FIGURE 2  
DEVELOPMENT  
TRIP DISTRIBUTION  
PM PEAK-HOUR

## 5. INTERSECTION ANALYSIS

Intersection level of service analysis has been performed for the following intersections:

1. N Creek Road at Dumas Road – Signalized
2. SR-527 at Dumas Road – Signalized
3. SR-527 at N Creek Road – Signalized
4. N Creek Road at Site Access - Unsignalized

Congestion at intersections is generally measured in terms of level of service (LOS). In accordance with the Highway Capacity Manual (HCM) 6<sup>th</sup> Edition, road facilities and intersections are rated between LOS A and LOS F, with LOS A being free flow and LOS F being forced flow or over-capacity conditions. The level of service at signalized, roundabout and all-way stop-controlled intersections is based on the average delay of all approaches. The level of service for two-way stop-controlled intersections is based on average delays for the critical stopped approach. Geometric characteristics and conflicting traffic movements are taken into consideration when determining level of service values. A summary of the intersection level of service criteria is included in Table 2.

**Table 2: Level of Service Criteria for Intersections**

| Level of <sup>1</sup><br>Service | Expected<br>Delay           | Intersection Control Delay<br>(Seconds per Vehicle) |                             |
|----------------------------------|-----------------------------|-----------------------------------------------------|-----------------------------|
|                                  |                             | Unsignalized<br>Intersections                       | Signalized<br>Intersections |
| <b>A</b>                         | Little/No Delay             | $\leq 10$                                           | $\leq 10$                   |
| <b>B</b>                         | Short Delays                | $>10$ and $\leq 15$                                 | $>10$ and $\leq 20$         |
| <b>C</b>                         | Average Delays              | $>15$ and $\leq 25$                                 | $>20$ and $\leq 35$         |
| <b>D</b>                         | Long Delays                 | $>25$ and $\leq 35$                                 | $>35$ and $\leq 55$         |
| <b>E</b>                         | Very Long Delays            | $>35$ and $\leq 50$                                 | $>55$ and $\leq 80$         |
| <b>F</b>                         | Extreme Delays <sup>2</sup> | $>50$                                               | $>80$                       |

The City of Mill Creek has a level of service standard of C for local intersections, level of service D for collector arterials, level of service E for arterial to local intersections and level of service F for arterial to arterial intersections.

<sup>1</sup> **Source:** *Highway Capacity Manual* 6<sup>th</sup> Edition.

LOS A: Free-flow traffic conditions, with minimal delay to stopped vehicles (no vehicle is delayed longer than one cycle at signalized intersection).

LOS B: Generally stable traffic flow conditions.

LOS C: Occasional back-ups may develop, but delay to vehicles is short term and still tolerable.

LOS D: During short periods of the peak hour, delays to approaching vehicles may be substantial but are tolerable during times of less demand (i.e. vehicles delayed one cycle or less at signal).

LOS E: Intersections operate at or near capacity, with long queues developing on all approaches and long delays.

LOS F: Jammed conditions on all approaches with excessively long delays and vehicles unable to move at times.

<sup>2</sup> When demand volume exceeds the capacity of the lane, extreme delays will be encountered with queuing which may cause severe congestion affecting other traffic movements in the intersection.

### **5.1 2018 Existing Conditions**

The existing intersection level of service analysis is based on the existing channelization and PM peak-hour turning movement volumes. Turning movement counts were conducted at the study intersections in November 2018 by Traffic Data Gathering (TDG). The existing turning movement volumes are shown in Figure 3.

The existing level of service analysis shows that the study intersections will operate at LOS C or better. The level of service calculations are included in the attachments. The level of service is summarized in Table 3.

### **5.2 2023 Baseline Conditions**

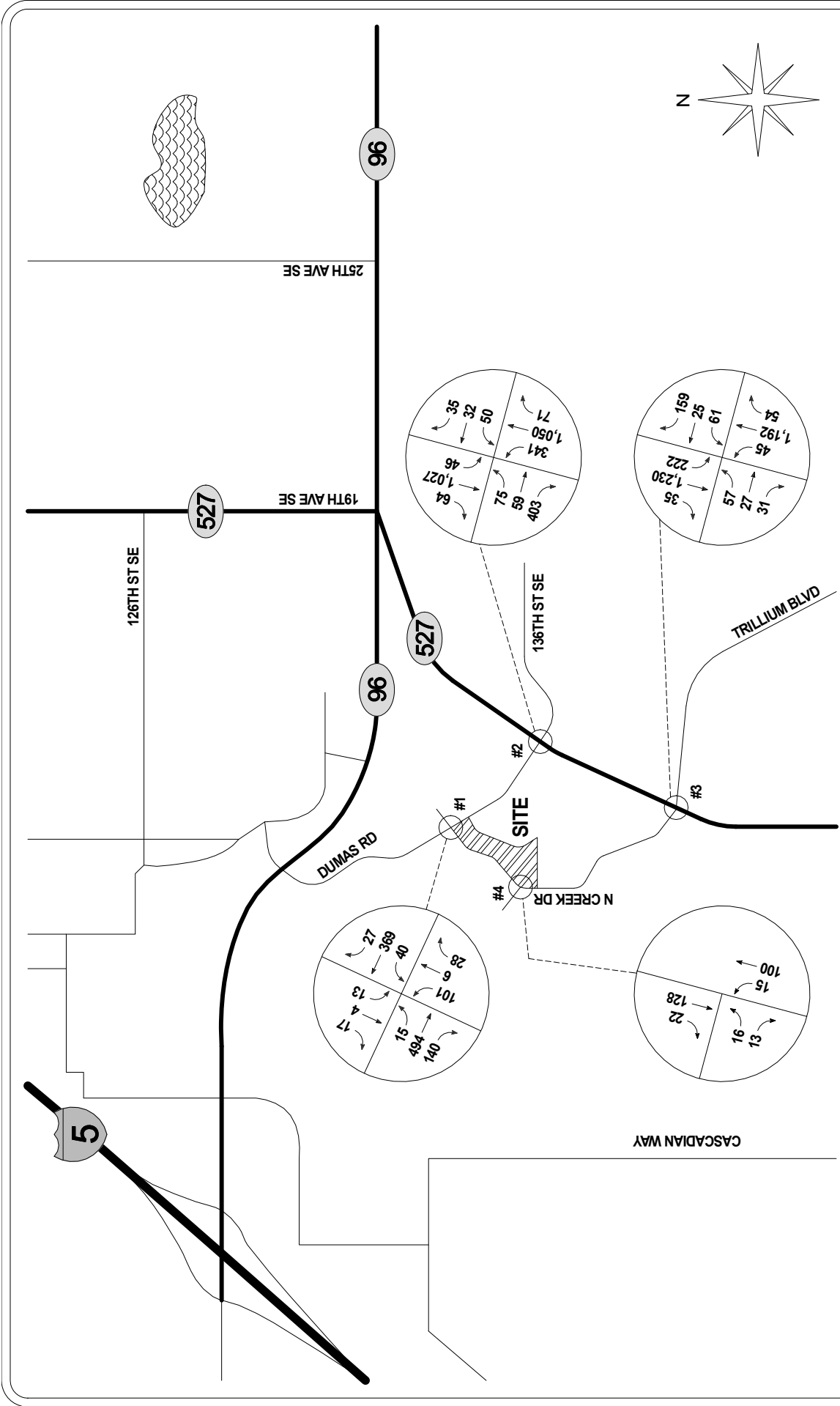
The 2023 baseline intersection level of service analysis has been performed to satisfy a 5-year concurrency period. The 2023 baseline turning movements have been calculated by adding a 1.0% annually compounding growth rate to the existing turning movement counts. The 2023 baseline turning movements are shown in Figure 4.

The analysis shows that the study intersections are expected to operate at LOS C or better. The level of service calculations are included in the attachments. The level of service is summarized in Table 3.

### **5.3 2023 Future with Development Conditions**

The 2023 future with development turning movements have been calculated by adding the trips from the 7C's Swim School development to the 2023 baseline turning movements. The 2023 future with development turning movements at the study intersections are shown in Figure 5.

The study intersections are expected to operate at LOS C or better with the development. The level of service is summarized in Table 3. The level of service calculations are included in the attachments.



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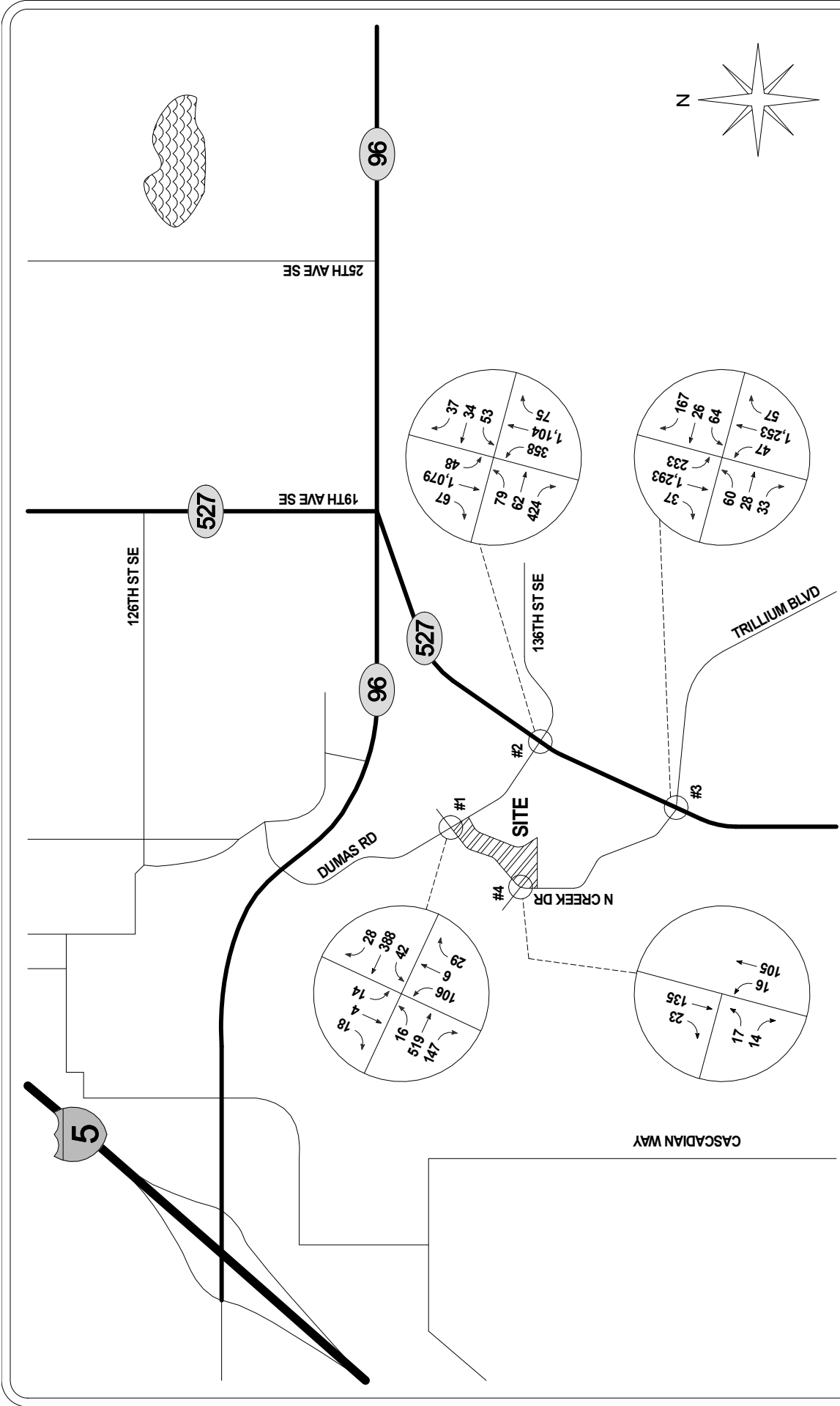
EXISTING  
TURNING MOVEMENT VOLUMES

xxx →

**FIGURE 3**  
**EXISTING TURNING**  
**MOVEMENT VOLUMES**

7C'S SWIM SCHOOL

CITY OF MILL CREEK



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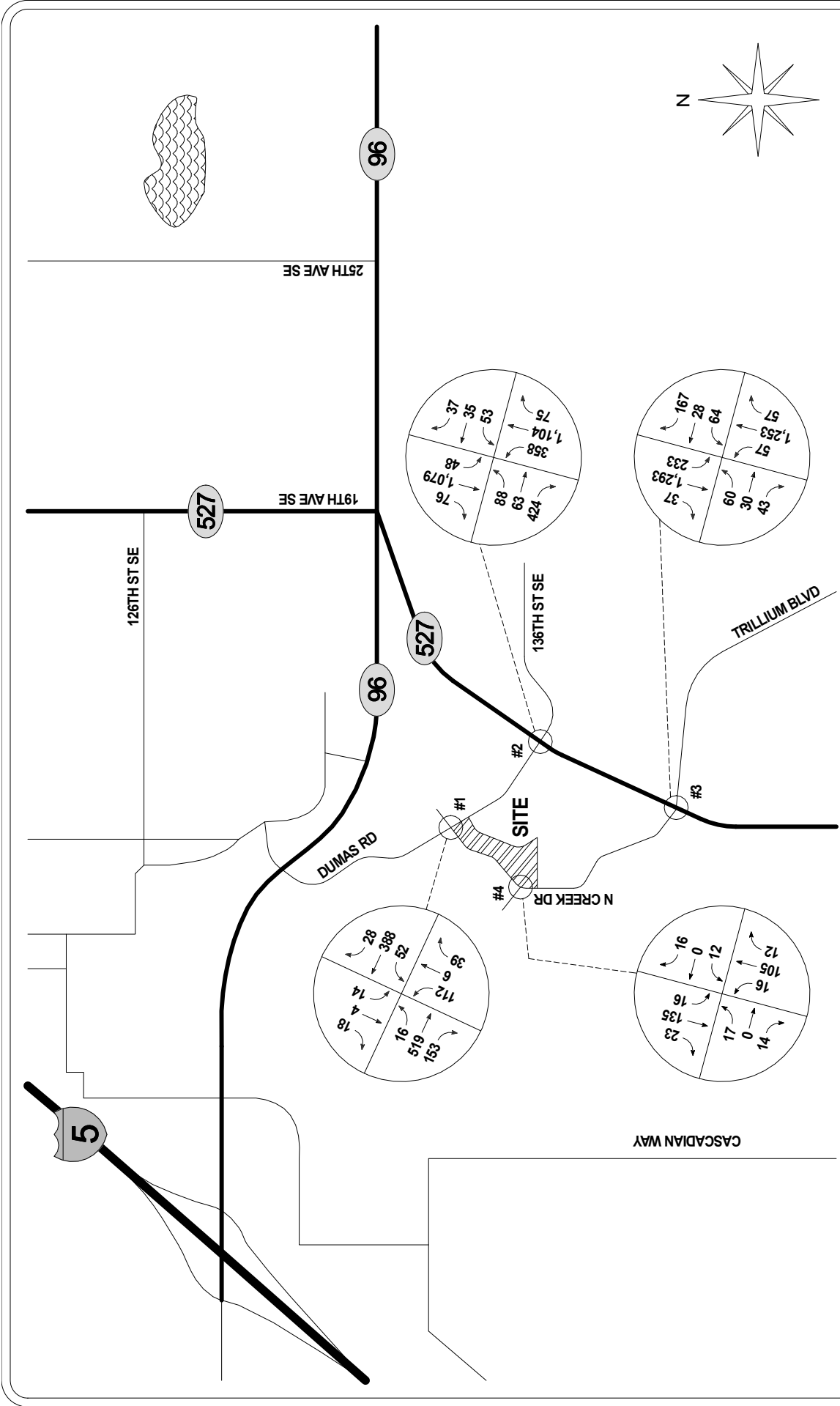
2023 BASELINE  
TURNING MOVEMENT VOLUMES

FIGURE 4

2023 BASELINE TURNING  
MOVEMENT VOLUMES

7C'S SWIM SCHOOL

CITY OF MILL CREEK



**Table 3: Intersection Level of Service Summary**

| Intersection                   | Existing Conditions |          | 2023 Baseline Conditions |          | 2023 Future with Development Conditions |          |
|--------------------------------|---------------------|----------|--------------------------|----------|-----------------------------------------|----------|
|                                | LOS                 | Delay    | LOS                      | Delay    | LOS                                     | Delay    |
| 1. N Creek Road at Dumas Road  | B                   | 11.3 sec | B                        | 11.8 sec | B                                       | 12.4 sec |
| 2. SR-527 at Dumas Road        | C                   | 25.9 sec | C                        | 28.2 sec | C                                       | 28.4 sec |
| 3. SR-527 at N Creek Road      | B                   | 13.3 sec | B                        | 14.2 sec | B                                       | 14.4 sec |
| 4. N Creek Road at Site Access | A                   | 9.9 sec  | B                        | 10.0 sec | B                                       | 10.3 sec |

The study intersection will continue to operate at an acceptable level of service under the 2023 future with development conditions. The level of service calculations at the study intersections for the PM peak-hour are included in the attachments.

## 6. COLLISION ANALYSIS

Collision data near the study intersections and along the site frontage was requested from WSDOT from January 2013 through January 2018. Table 4 summarizes the data received by WSDOT.

**Table 4: Collision Data Summary**

| Intersection                | Collision Type |                   |           |           |           |                |                     | Total Collisions | Collisions Per Year |
|-----------------------------|----------------|-------------------|-----------|-----------|-----------|----------------|---------------------|------------------|---------------------|
|                             | Rear-End       | Entering at Angle | Opp. Dir. | Sideswipe | Same Dir. | Ped. / Cyclist | Fixed Object/ Other |                  |                     |
| N Creek Road at Dumas Road  | 1              | 1                 | 2         | 0         | 1         | 2              | 1                   | 8                | 1.6                 |
| SR-527 at Dumas Road        | 13             | 7                 | 32        | 3         | 0         | 4              | 1                   | 60               | 12.0                |
| SR-527 at N Creek Road      | 11             | 5                 | 2         | 1         | 1         | 1              | 2                   | 23               | 4.6                 |
| N Creek Road at Site Access | 0              | 1                 | 0         | 0         | 1         | 0              | 0                   | 2                | 0.4                 |

The 5-year collision rate has been calculated using PM peak-hour volumes and a K-factor of 10 for conversion to average daily traffic. The 5-year collision rates are summarized in Table 5.

**Table 5: 5-Year Collision Rate Calculation**

| Intersection                   | PM Peak-Hour<br>Intersection<br>Vol. | K-Factor | Total<br>Collisions | Collision<br>Rate <sup>3</sup> |
|--------------------------------|--------------------------------------|----------|---------------------|--------------------------------|
| N Creek Road at<br>Dumas Road  | 1,254                                | 10       | 8                   | 0.35                           |
| SR-527 at<br>Dumas Road        | 3,253                                | 10       | 60                  | 1.01                           |
| SR-527 at<br>N Creek Road      | 3,138                                | 10       | 23                  | 0.40                           |
| N Creek Road at<br>Site Access | 294                                  | 10       | 2                   | 0.37                           |

The intersection of SR-527 at Dumas Road had the highest collision rate of the study area with opposite direction and rear-end collisions as the most common. WSDOT has published collision data for the Northwest Region in the *2011 Annual Collision Summary* (the latest report that provides data for different road types). The average collision rate for State Routes in the Northwest Region is 1.49 collisions per Million Vehicle Miles (equivalent to Million Entering Vehicles at an intersection) for urban principal arterials. All the intersections have collision rates per million entering vehicles below 1.0, which is below the average rate for the area.

## 7. SIGHT DISTANCE ANALYSIS

The City of Mill Creek assesses sight distance based on the standards described in the AASHTO Geometric Design Manual. The speed limit along N Creek Road near the site access is 25-mph. Based on a design speed of 25-mph, 155 feet of stopping sight distance and 280 feet of intersection sight distance is required. As the site frontage will be updated with the development, it will have to meet sight distance standards. For stopping sight distance, this is measured from an eye height of 3.5 feet to an object 2 feet tall. For intersection sight distance, at an eye height of 3.5 feet, an object 3.5 feet tall must be seen. The proposed access is located directly opposite an existing multifamily residential access and the curb cut is existing today. The sight distance to the south is obstructed by an off-site fence and to the north the sight distance can be achieved by clearing the foliage along the frontage.

<sup>3</sup> The collision rate is based on Million Entering Vehicles.

## **8. TRAFFIC MITIGATION FEES**

Developments in the City of Mill Creek are required to pay traffic mitigation fees to the City of Mill Creek. The City of Mill Creek does not currently have an interlocal agreement with other surrounding jurisdictions, including WSDOT, for the payment of traffic mitigation fees.

### **8.1 City of Mill Creek**

The City of Mill Creek collects traffic mitigation fees based on PM peak-hour development trips generated. The traffic mitigation fee is \$3,900.00 per PM peak-hour trip generated. The 7C's Swim School development will generate 55.45 new PM peak-hour trips and will have an associated traffic mitigation fee of \$216,255.00.

### **8.2 Snohomish County**

The City of Mill Creek currently doesn't an interlocal agreement with Snohomish county, therefore there are no interlocal fees.

### **8.3 Traffic Impact Fee Summary**

The 7C's Swim School development will generate 499.07 new average daily trips and 55.45 new PM peak-hour trips. The 7C's Swim School development will have a total traffic mitigation fee of \$216,255.00.

## **9. CONCLUSIONS**

The 7C's Swim School development is proposed to consist of a facility to house their new 50-foot by 70-foot pool. It's anticipated that an average of 29.34 family attendances will occur over the course of a weekday. The site is located on the east side of N Creek Road, south of Dumas Road. The site is proposed to take access directly across from the southern Heatherwood Apartments driveway. The development is anticipated to generate 499.07 new average daily trips with 55.45 new PM peak-hour. The total traffic mitigation fees for the development will be \$216,255.00.

# **Trip Generation Calculations**

## 2017 Family Visits between 5-6pm

## Mondays-Fridays

Total Daily Average  
14.67

## January

| Date | Families |
|------|----------|
| 2    | 0        |
| 3    | 16       |
| 4    | 18       |
| 5    | 14       |
| 6    | 18       |
| 9    | 15       |
| 10   | 17       |
| 11   | 18       |
| 12   | 13       |
| 13   | 18       |
| 16   | 0        |
| 17   | 16       |
| 18   | 17       |
| 19   | 16       |
| 20   | 18       |
| 23   | 17       |
| 24   | 17       |
| 25   | 17       |
| 26   | 15       |
| 27   | 17       |
| 30   | 12       |
| 31   | 14       |

## February

| Date | Families |
|------|----------|
| 1    | 18       |
| 2    | 17       |
| 3    | 14       |
| 6    | 16       |
| 7    | 16       |
| 8    | 14       |
| 9    | 16       |
| 10   | 16       |
| 13   | 18       |
| 14   | 15       |
| 15   | 18       |
| 16   | 13       |
| 17   | 18       |
| 20   | 0        |
| 21   | 11       |
| 22   | 17       |
| 23   | 14       |
| 24   | 17       |
| 27   | 16       |
| 28   | 14       |

## March

| Date | Families |
|------|----------|
| 1    | 18       |
| 2    | 13       |
| 3    | 17       |
| 6    | 17       |
| 7    | 16       |
| 8    | 17       |
| 9    | 17       |
| 10   | 17       |
| 13   | 16       |
| 14   | 16       |
| 15   | 17       |
| 16   | 15       |
| 17   | 17       |
| 20   | 17       |
| 21   | 15       |
| 22   | 17       |
| 23   | 15       |
| 24   | 16       |
| 27   | 18       |
| 28   | 14       |
| 29   | 18       |
| 30   | 15       |
| 31   | 17       |

Average 14.68

Average 14.90

Average 16.30

| April   |          |    | May     |          |    | June    |          |    |
|---------|----------|----|---------|----------|----|---------|----------|----|
| Date    | Families |    | Date    | Families |    | Date    | Families |    |
|         | 3        | 18 |         | 1        | 16 |         | 1        | 13 |
|         | 4        | 15 |         | 2        | 17 |         | 2        | 18 |
|         | 5        | 16 |         | 3        | 17 |         | 5        | 16 |
|         | 6        | 13 |         | 4        | 16 |         | 6        | 16 |
|         | 7        | 13 |         | 5        | 16 |         | 7        | 16 |
|         | 10       | 0  |         | 8        | 17 |         | 8        | 16 |
|         | 11       | 13 |         | 9        | 15 |         | 9        | 17 |
|         | 12       | 14 |         | 10       | 17 |         | 12       | 17 |
|         | 13       | 12 |         | 11       | 16 |         | 13       | 16 |
|         | 14       | 15 |         | 12       | 18 |         | 14       | 17 |
|         | 17       | 18 |         | 15       | 18 |         | 15       | 16 |
|         | 18       | 14 |         | 16       | 15 |         | 16       | 15 |
|         | 19       | 18 |         | 17       | 15 |         | 19       | 17 |
|         | 20       | 14 |         | 18       | 16 |         | 20       | 15 |
|         | 21       | 18 |         | 19       | 18 |         | 21       | 14 |
|         | 24       | 18 |         | 22       | 18 |         | 22       | 14 |
|         | 25       | 16 |         | 23       | 17 |         | 23       | 15 |
|         | 26       | 17 |         | 24       | 14 |         | 26       | 16 |
|         | 27       | 15 |         | 25       | 13 |         | 27       | 17 |
|         | 28       | 16 |         | 26       | 17 |         | 28       | 17 |
|         |          |    |         | 29       | 0  |         | 29       | 10 |
|         |          |    |         | 30       | 15 |         | 30       | 16 |
|         |          |    |         | 31       | 16 |         |          |    |
| Average | 14.65    |    | Average | 15.52    |    | Average | 15.64    |    |

| July    |          | August  |          | September |          |
|---------|----------|---------|----------|-----------|----------|
| Date    | Families | Date    | Families | Date      | Families |
| 3       | 0        | 1       | 17       | 1         | 15       |
| 4       | 0        | 2       | 16       | 4         | 0        |
| 5       | 17       | 3       | 15       | 5         | 15       |
| 6       | 16       | 4       | 16       | 6         | 18       |
| 7       | 17       | 7       | 17       | 7         | 16       |
| 10      | 12       | 8       | 17       | 8         | 18       |
| 11      | 17       | 9       | 17       | 11        | 17       |
| 12      | 18       | 10      | 13       | 12        | 17       |
| 13      | 18       | 11      | 17       | 13        | 17       |
| 14      | 16       | 14      | 17       | 14        | 15       |
| 17      | 17       | 15      | 16       | 15        | 18       |
| 18      | 16       | 16      | 18       | 18        | 14       |
| 19      | 16       | 17      | 17       | 19        | 15       |
| 20      | 16       | 18      | 15       | 20        | 17       |
| 21      | 18       | 21      | 18       | 21        | 17       |
| 24      | 15       | 22      | 15       | 22        | 17       |
| 25      | 16       | 23      | 17       | 25        | 17       |
| 26      | 17       | 24      | 18       | 26        | 15       |
| 27      | 16       | 25      | 16       | 27        | 18       |
| 28      | 17       | 28      | 17       | 28        | 0        |
| 31      | 16       | 29      | 17       | 29        | 18       |
|         |          | 30      | 16       |           |          |
|         |          | 31      | 13       |           |          |
| Average | 14.81    | Average | 16.30    | Average   | 14.95    |

# October

| Date | Families |
|------|----------|
| 2    | 17       |
| 3    | 17       |
| 4    | 18       |
| 5    | 17       |
| 6    | 17       |
| 9    | 14       |
| 10   | 17       |
| 11   | 17       |
| 12   | 16       |
| 13   | 14       |
| 16   | 17       |
| 17   | 16       |
| 18   | 16       |
| 19   | 16       |
| 20   | 17       |
| 23   | 18       |
| 24   | 16       |
| 25   | 17       |
| 26   | 16       |
| 27   | 17       |
| 30   | 16       |
| 31   | 0        |

Average 15.73

# November

| Date | Families |
|------|----------|
| 1    | 17       |
| 2    | 16       |
| 3    | 16       |
| 6    | 17       |
| 7    | 15       |
| 8    | 18       |
| 9    | 16       |
| 10   | 0        |
| 13   | 17       |
| 14   | 14       |
| 15   | 17       |
| 16   | 17       |
| 17   | 18       |
| 20   | 17       |
| 21   | 12       |
| 22   | 18       |
| 23   | 0        |
| 24   | 0        |
| 27   | 18       |
| 28   | 18       |
| 29   | 17       |
| 30   | 17       |

Average 14.32

# December

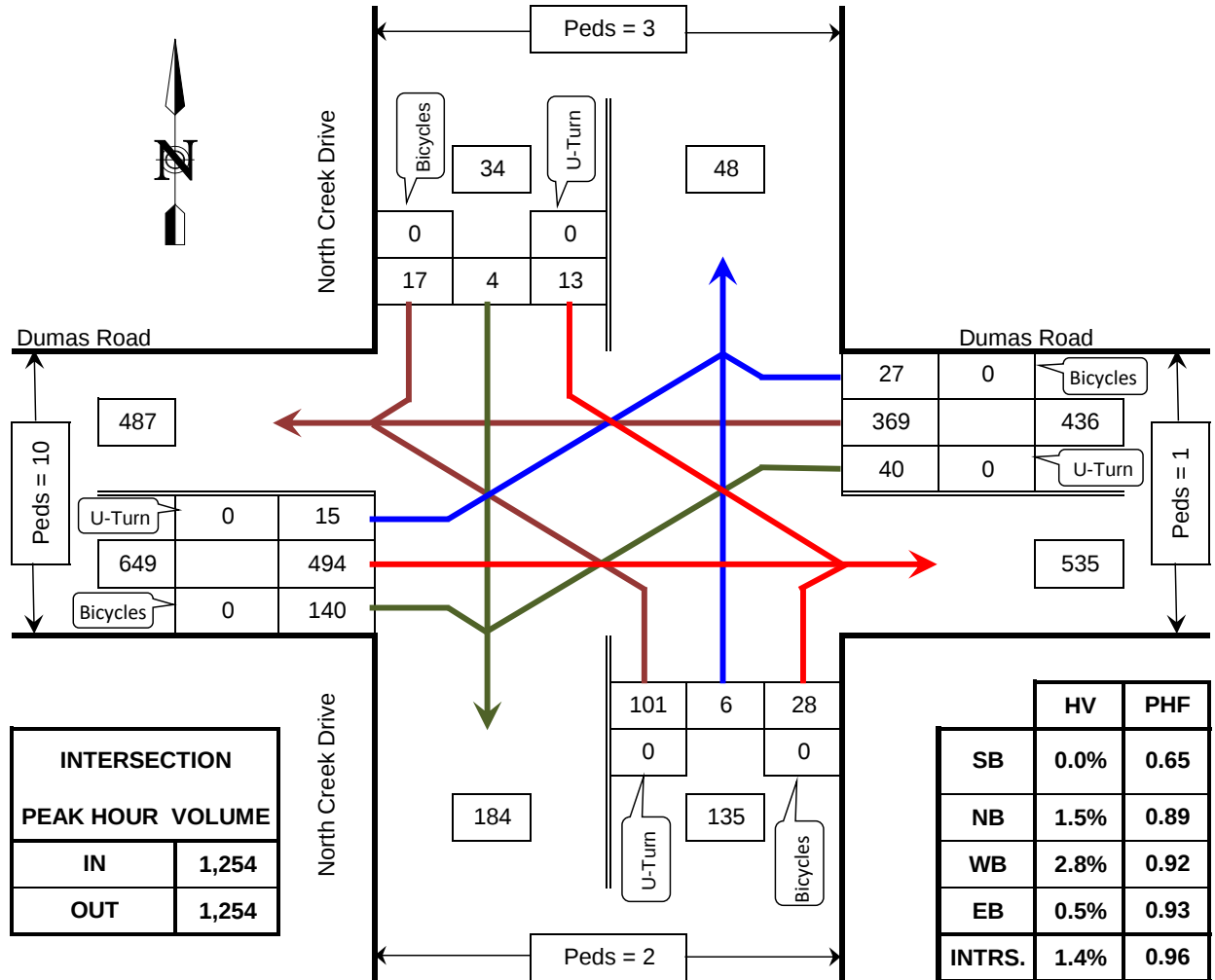
| Date | Families |
|------|----------|
| 1    | 14       |
| 4    | 16       |
| 5    | 15       |
| 6    | 17       |
| 7    | 18       |
| 8    | 14       |
| 11   | 16       |
| 12   | 12       |
| 13   | 16       |
| 14   | 17       |
| 15   | 17       |
| 18   | 0        |
| 19   | 0        |
| 20   | 0        |
| 21   | 0        |
| 22   | 0        |
| 25   | 0        |
| 26   | 0        |
| 27   | 0        |
| 28   | 0        |
| 29   | 0        |

Average 8.19

# **Counts and Turning Movement Calculations**

**TURNING MOVEMENTS DIAGRAM**

**4:00 PM - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM**



**Dumas Road @ North Creek Drive**

**Mill Creek, WA**

COUNTED BY: TDG

DATE OF COUNT: Thu. 11/15/18

REDUCTION DATE: Sat. 11/17/18

TIME OF COUNT: 4:00 PM - 6:00 PM

# INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

| LOCATION:                        |                                    | Dumas Road @ North Creek Drive |    |        |                                    | DATE OF COUNT: |       |      |                            | COUNTED BY: |        |      |                            | DATE OF REDUCTION: |      |         |                    | TDG  |    |        |      |              |       |  |  |
|----------------------------------|------------------------------------|--------------------------------|----|--------|------------------------------------|----------------|-------|------|----------------------------|-------------|--------|------|----------------------------|--------------------|------|---------|--------------------|------|----|--------|------|--------------|-------|--|--|
|                                  |                                    | Mill Creek, WA                 |    |        |                                    | TIME OF COUNT: |       |      |                            |             |        |      |                            | 11/17/2018         |      |         |                    |      |    |        |      |              |       |  |  |
| TIME<br>INTERVAL<br>ENDING<br>AT | FROM NORTH ON<br>North Creek Drive |                                |    |        | FROM SOUTH ON<br>North Creek Drive |                |       |      | FROM EAST ON<br>Dumas Road |             |        |      | FROM WEST ON<br>Dumas Road |                    |      |         | INTERVAL<br>TOTALS |      |    |        |      |              |       |  |  |
|                                  | Peds                               | Bicycle                        | HV | U-Turn | Left                               | Thru           | Right | Peds | Bicycle                    | HV          | U-Turn | Left | Thru                       | Right              | Peds | Bicycle |                    |      | HV | U-Turn | Left | Thru         | Right |  |  |
| 02:15 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 02:30 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 02:45 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 03:00 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 03:15 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 03:30 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 03:45 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 04:00 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0                          | 0           | 0      | 0    | 0                          | 0                  | 0    | 0       | 0                  | 0    | 0  | 0      | 0    | 0            |       |  |  |
| 04:15 PM                         | 1                                  | 0                              | 0  | 0      | 3                                  | 0              | 4     | 1    | 0                          | 4           | 0      | 22   | 2                          | 5                  | 0    | 0       | 3                  | 1    | 2  | 0      | 1    | 163          | 29    |  |  |
| 04:30 PM                         | 3                                  | 0                              | 0  | 0      | 4                                  | 1              | 3     | 0    | 0                          | 1           | 0      | 22   | 2                          | 3                  | 0    | 0       | 4                  | 0    | 9  | 88     | 6    | 4            | 0     |  |  |
| 04:45 PM                         | 0                                  | 0                              | 0  | 0      | 3                                  | 1              | 5     | 1    | 0                          | 1           | 0      | 29   | 1                          | 8                  | 1    | 0       | 6                  | 0    | 11 | 88     | 10   | 5            | 0     |  |  |
| 05:00 PM                         | 0                                  | 0                              | 0  | 0      | 2                                  | 0              | 2     | 0    | 0                          | 0           | 0      | 23   | 1                          | 11                 | 0    | 0       | 2                  | 0    | 8  | 92     | 5    | 0            | 0     |  |  |
| 05:15 PM                         | 0                                  | 0                              | 0  | 0      | 4                                  | 2              | 7     | 1    | 0                          | 0           | 0      | 27   | 2                          | 6                  | 0    | 0       | 0                  | 0    | 12 | 101    | 6    | 1            | 0     |  |  |
| 05:30 PM                         | 0                                  | 0                              | 0  | 0      | 5                                  | 1              | 6     | 0    | 0                          | 0           | 0      | 23   | 2                          | 5                  | 0    | 0       | 3                  | 0    | 7  | 78     | 14   | 0            | 0     |  |  |
| 05:45 PM                         | 0                                  | 0                              | 0  | 0      | 4                                  | 2              | 2     | 0    | 0                          | 0           | 0      | 20   | 2                          | 4                  | 0    | 0       | 0                  | 0    | 5  | 81     | 9    | 1            | 1     |  |  |
| 06:00 PM                         | 0                                  | 0                              | 0  | 0      | 0                                  | 2              | 1     | 0    | 0                          | 0           | 0      | 17   | 0                          | 13                 | 0    | 0       | 1                  | 0    | 12 | 95     | 4    | 0            | 0     |  |  |
| PEAK HOUR TOTALS                 | 3                                  | 0                              | 0  | 0      | 13                                 | 4              | 17    | 2    | 0                          | 2           | 0      | 101  | 6                          | 28                 | 1    | 0       | 12                 | 0    | 40 | 369    | 27   | 10           | 0     |  |  |
| ALL MOVEMENTS                    | 0.0%                               |                                |    |        | 1.5%                               |                |       |      | 0.89                       |             |        |      | 2.8%                       |                    |      |         | 0.92               |      |    |        | 0.5% |              |       |  |  |
| PEAK HOUR FACTOR                 | 0.65                               |                                |    |        | 0.89                               |                |       |      | 0.92                       |             |        |      | 0.93                       |                    |      |         | 1.4%               |      |    |        |      |              |       |  |  |
|                                  |                                    | 34                             |    |        |                                    | 135            |       |      |                            | 436         |        |      |                            | 649                |      |         |                    | 1254 |    |        |      | INTERSECTION |       |  |  |

HV = Heavy Vehicle  
PHF = Peak Hour Factor

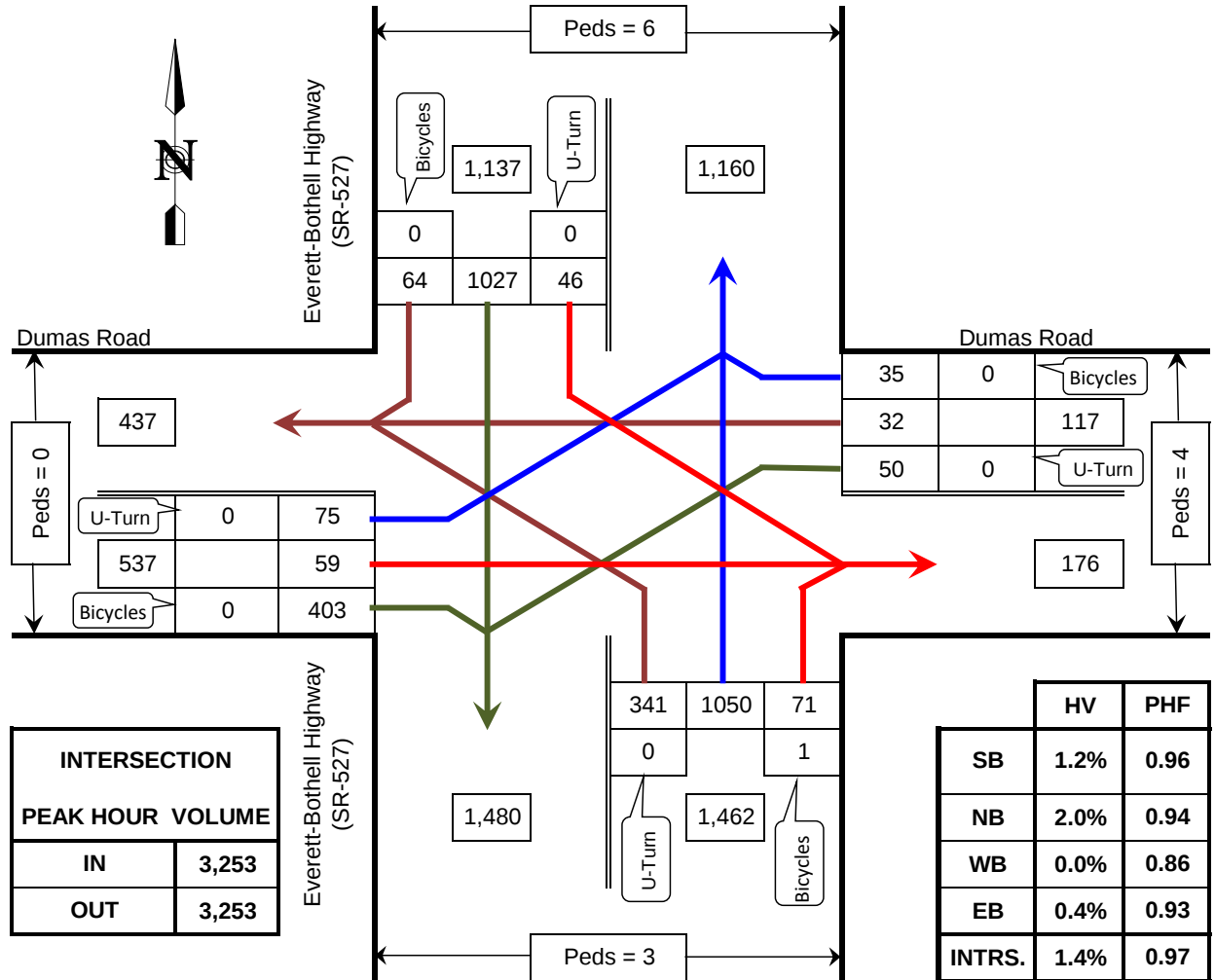
4:00 PM - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM

## ROLLING HOUR COUNT

| TIME INTERVAL            | FROM NORTH ON<br>North Creek Drive |         |    |        |      |      | FROM SOUTH ON<br>North Creek Drive |      |         |    |        |      | FROM EAST ON<br>Dumas Road |       |      |         |    |        | FROM WEST ON<br>Dumas Road |      |       |      |         |    | INTERVAL<br>TOTALS |        |      |      |       |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
|--------------------------|------------------------------------|---------|----|--------|------|------|------------------------------------|------|---------|----|--------|------|----------------------------|-------|------|---------|----|--------|----------------------------|------|-------|------|---------|----|--------------------|--------|------|------|-------|---|---|----|---|----|---|---|---|---|-----|----|----|---|---|----|---|----|-----|----|----|---|---|---|----|-----|-----|------|
|                          | Peds                               | Bicycle | HV | U-Turn | Left | Thru | Right                              | Peds | Bicycle | HV | U-Turn | Left | Thru                       | Right | Peds | Bicycle | HV | U-Turn | Left                       | Thru | Right | Peds | Bicycle | HV |                    | U-Turn | Left | Thru | Right |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 2:00 PM - 3:00 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 2:15 PM - 3:15 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 2:30 PM - 3:30 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 2:45 PM - 3:45 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 3:00 PM - 4:00 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 3:15 PM - 4:15 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 3:30 PM - 4:30 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 3:45 PM - 4:45 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0                                  | 0    | 0       | 0  | 0      | 0    | 0                          | 0     | 0    | 0       | 0  | 0      | 0                          | 0    | 0     | 0    | 0       | 0  | 0                  | 0      | 0    | 0    | 0     |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 4:00 PM - 5:00 PM        | 4                                  | 0       | 0  | 0      | 12   | 2    | 14                                 | 2    | 0       | 6  | 0      | 96   | 6                          | 27    | 1    | 0       | 15 | 0      | 33                         | 348  | 31    | 12   | 1       | 5  | 0                  | 11     | 537  | 133  | 1250  |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 4:15 PM - 5:15 PM        | 3                                  | 0       | 0  | 0      | 13   | 4    | 17                                 | 2    | 0       | 2  | 0      | 101  | 6                          | 28    | 1    | 0       | 12 | 0      | 40                         | 369  | 27    | 10   | 0       | 3  | 0                  | 15     | 494  | 140  | 1254  |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 4:30 PM - 5:30 PM        | 0                                  | 0       | 0  | 0      | 14   | 4    | 20                                 | 2    | 0       | 1  | 0      | 102  | 6                          | 30    | 1    | 0       | 11 | 0      | 38                         | 359  | 35    | 6    | 0       | 2  | 0                  | 11     | 490  | 141  | 1250  |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 4:45 PM - 5:45 PM        | 0                                  | 0       | 0  | 0      | 15   | 5    | 17                                 | 1    | 0       | 0  | 0      | 93   | 7                          | 26    | 0    | 0       | 5  | 0      | 32                         | 352  | 34    | 2    | 1       | 3  | 0                  | 11     | 480  | 148  | 1220  |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 5:00 PM - 6:00 PM        | 0                                  | 0       | 0  | 0      | 13   | 7    | 16                                 | 1    | 0       | 0  | 0      | 87   | 6                          | 28    | 0    | 0       | 4  | 0      | 36                         | 355  | 33    | 2    | 1       | 1  | 0                  | 15     | 443  | 136  | 1175  |   |   |    |   |    |   |   |   |   |     |    |    |   |   |    |   |    |     |    |    |   |   |   |    |     |     |      |
| 4:00 PM - 6:00 PM Total: |                                    |         |    |        |      |      |                                    |      |         |    |        |      |                            |       |      |         |    |        |                            |      |       |      |         |    |                    |        |      | 4    | 0     | 0 | 0 | 25 | 9 | 30 | 3 | 0 | 6 | 0 | 183 | 12 | 55 | 1 | 0 | 19 | 0 | 69 | 703 | 64 | 14 | 2 | 6 | 0 | 26 | 980 | 269 | 2425 |

**TURNING MOVEMENTS DIAGRAM**

**4:00 PM - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM**



**Dumas Road @ Everett-Bothell Highway (SR-527)**

**Mill Creek, WA**

COUNTED BY: TDG

DATE OF COUNT: Thu. 11/15/18

REDUCTION DATE: Sat. 11/17/18

TIME OF COUNT: 4:00 PM - 6:00 PM



INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

| LOCATION:        |          |                                  |         | Dumas Road @ Everett-Bothell Highway (SR-527) |        |      |      | DATE OF COUNT:    |      |         |    | COUNTED BY:                      |      |      |       | DATE OF REDUCTION: |         |    |        | TDG  |      |              |      |         |    |        |      |              |       |     |   |              |  |                 |  |
|------------------|----------|----------------------------------|---------|-----------------------------------------------|--------|------|------|-------------------|------|---------|----|----------------------------------|------|------|-------|--------------------|---------|----|--------|------|------|--------------|------|---------|----|--------|------|--------------|-------|-----|---|--------------|--|-----------------|--|
|                  |          |                                  |         | Mill Creek, WA                                |        |      |      | Thu. 11/15/18     |      |         |    |                                  |      |      |       | 11/17/2018         |         |    |        |      |      |              |      |         |    |        |      |              |       |     |   |              |  |                 |  |
|                  |          |                                  |         | TIME OF COUNT:                                |        |      |      | 4:00 PM - 6:00 PM |      |         |    |                                  |      |      |       |                    |         |    |        |      |      |              |      |         |    |        |      |              |       |     |   |              |  |                 |  |
| TIME INTERVAL    |          | FROM NORTH ON                    |         |                                               |        |      |      |                   |      |         |    | FROM SOUTH ON                    |      |      |       |                    |         |    |        |      |      | FROM EAST ON |      |         |    |        |      |              |       |     |   | FROM WEST ON |  | INTERVAL TOTALS |  |
| ENDING AT        |          | Everett-Bothell Highway (SR-527) |         |                                               |        |      |      |                   |      |         |    | Everett-Bothell Highway (SR-527) |      |      |       |                    |         |    |        |      |      | Dumas Road   |      |         |    |        |      |              |       |     |   | Dumas Road   |  |                 |  |
|                  |          | Peds                             | Bicycle | HV                                            | U-Turn | Left | Thru | Right             | Peds | Bicycle | HV | U-Turn                           | Left | Thru | Right | Peds               | Bicycle | HV | U-Turn | Left | Thru | Right        | Peds | Bicycle | HV | U-Turn | Left | Thru         | Right |     |   |              |  |                 |  |
|                  | 02:15 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 02:30 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 02:45 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 03:00 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 03:15 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 03:30 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 03:45 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 04:00 PM | 0                                | 0       | 0                                             | 0      | 0    | 0    | 0                 | 0    | 0       | 0  | 0                                | 0    | 0    | 0     | 0                  | 0       | 0  | 0      | 0    | 0    | 0            | 0    | 0       | 0  | 0      | 0    | 0            | 0     | 0   | 0 |              |  |                 |  |
|                  | 04:15 PM | 6                                | 0       | 2                                             | 0      | 10   | 239  | 6                 | 1    | 0       | 5  | 0                                | 77   | 242  | 8     | 1                  | 0       | 4  | 0      | 13   | 15   | 9            | 2    | 0       | 1  | 0      | 22   | 18           | 140   | 799 |   |              |  |                 |  |
|                  | 04:30 PM | 4                                | 0       | 3                                             | 0      | 14   | 232  | 16                | 1    | 0       | 8  | 0                                | 85   | 279  | 23    | 2                  | 0       | 0  | 0      | 12   | 7    | 8            | 0    | 0       | 0  | 0      | 9    | 11           | 104   | 800 |   |              |  |                 |  |
|                  | 04:45 PM | 1                                | 0       | 4                                             | 0      | 9    | 269  | 19                | 1    | 0       | 13 | 0                                | 87   | 261  | 18    | 0                  | 0       | 0  | 14     | 10   | 0    | 0            | 1    | 0       | 18 | 12     | 109  | 836          |       |     |   |              |  |                 |  |
|                  | 05:00 PM | 0                                | 0       | 4                                             | 0      | 10   | 268  | 14                | 0    | 1       | 5  | 0                                | 85   | 236  | 14    | 1                  | 0       | 0  | 14     | 3    | 8    | 0            | 0    | 0       | 0  | 28     | 15   | 101          | 796   |     |   |              |  |                 |  |
|                  | 05:15 PM | 1                                | 0       | 3                                             | 0      | 13   | 268  | 15                | 1    | 0       | 3  | 0                                | 84   | 274  | 16    | 1                  | 0       | 0  | 10     | 12   | 9    | 0            | 0    | 1       | 0  | 20     | 21   | 89           | 821   |     |   |              |  |                 |  |
|                  | 05:30 PM | 0                                | 0       | 1                                             | 0      | 8    | 261  | 18                | 0    | 0       | 6  | 0                                | 75   | 258  | 18    | 0                  | 0       | 0  | 16     | 6    | 11   | 0            | 0    | 0       | 0  | 20     | 6    | 98           | 795   |     |   |              |  |                 |  |
|                  | 05:45 PM | 0                                | 0       | 2                                             | 0      | 5    | 270  | 16                | 0    | 0       | 1  | 0                                | 73   | 266  | 13    | 0                  | 0       | 0  | 9      | 7    | 1    | 0            | 0    | 0       | 0  | 17     | 17   | 95           | 789   |     |   |              |  |                 |  |
|                  | 06:00 PM | 1                                | 1       | 1                                             | 0      | 14   | 220  | 18                | 0    | 0       | 6  | 0                                | 79   | 248  | 17    | 0                  | 0       | 0  | 10     | 10   | 3    | 0            | 0    | 0       | 0  | 19     | 13   | 77           | 728   |     |   |              |  |                 |  |
| PEAK HOUR TOTALS |          | 6                                | 0       | 14                                            | 0      | 46   | 1027 | 64                | 3    | 1       | 29 | 0                                | 341  | 1050 | 71    | 4                  | 0       | 0  | 50     | 32   | 35   | 0            | 2    | 0       | 75 | 59     | 403  | INTERSECTION |       |     |   |              |  |                 |  |
| ALL MOVEMENTS    |          | 1137                             |         |                                               |        |      |      |                   |      |         |    | 1462                             |      |      |       |                    |         |    |        |      |      | 117          |      |         |    |        |      |              |       |     |   | 537          |  | 3253            |  |
| % HV             |          | 1.2%                             |         |                                               |        |      |      |                   |      |         |    | 2.0%                             |      |      |       |                    |         |    |        |      |      | 0.0%         |      |         |    |        |      |              |       |     |   | 0.4%         |  | 1.4%            |  |
| PEAK HOUR FACTOR |          | 0.96                             |         |                                               |        |      |      |                   |      |         |    | 0.94                             |      |      |       |                    |         |    |        |      |      | 0.86         |      |         |    |        |      |              |       |     |   | 0.93         |  | 0.97            |  |

HV = Heavy Vehicle  
PHF = Peak Hour Factor

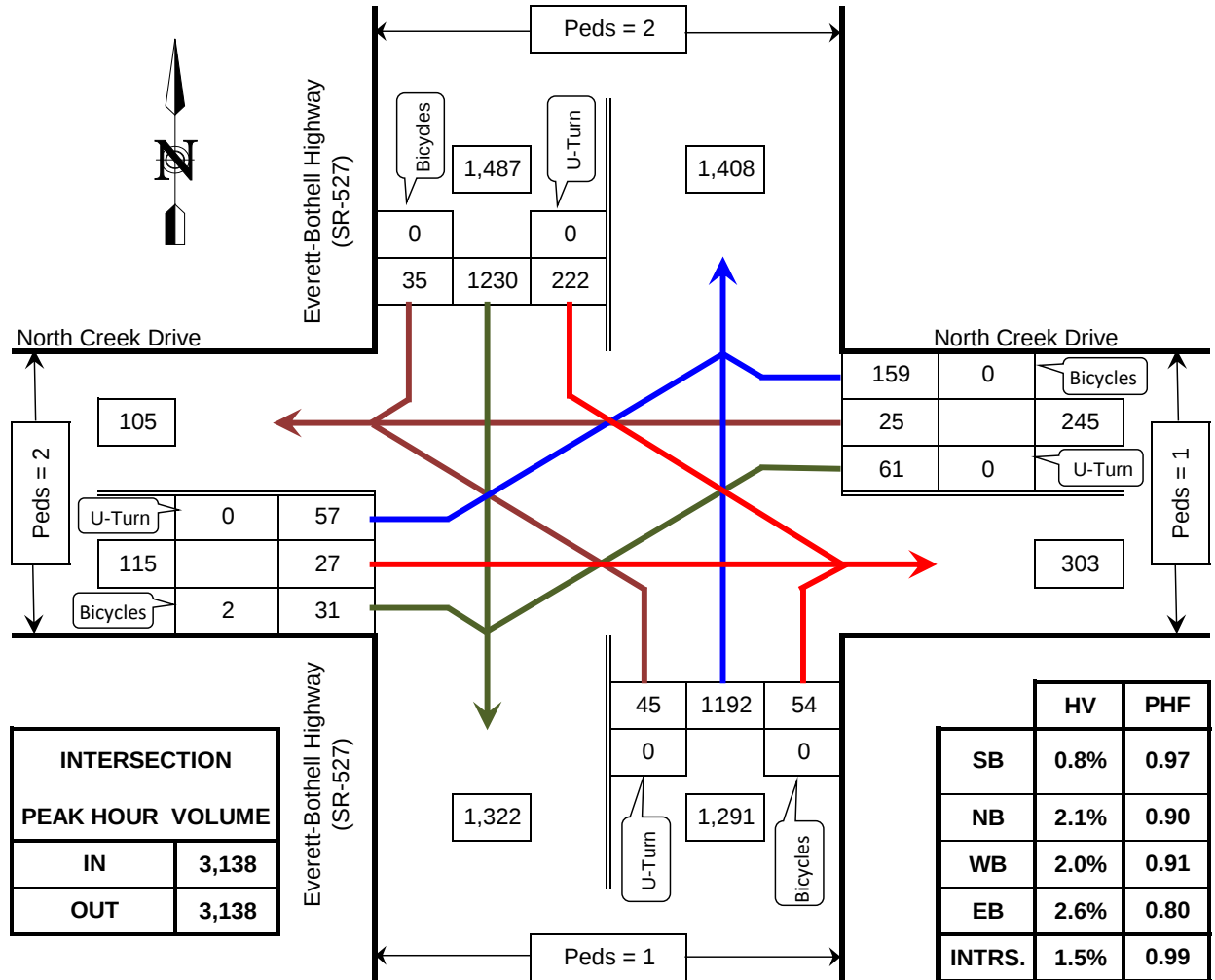
4:00 PM - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM

ROLLING HOUR COUNT

| TIME INTERVAL            | FROM NORTH ON<br>Everett-Bothell Highway (SR-527) |         |    |        |      |      |       | FROM SOUTH ON<br>Everett-Bothell Highway (SR-527) |         |    |        |      |      |       | FROM EAST ON<br>Dumas Road |         |    |        |      |      |       | FROM WEST ON<br>Dumas Road |         |    |        |      |      |       | INTERVAL<br>TOTALS |
|--------------------------|---------------------------------------------------|---------|----|--------|------|------|-------|---------------------------------------------------|---------|----|--------|------|------|-------|----------------------------|---------|----|--------|------|------|-------|----------------------------|---------|----|--------|------|------|-------|--------------------|
|                          | Peds                                              | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                                              | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                       | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                       | Bicycle | HV | U-Turn | Left | Thru | Right |                    |
| 2:00 PM - 3:00 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 2:15 PM - 3:15 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 2:30 PM - 3:30 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 2:45 PM - 3:45 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 3:00 PM - 4:00 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 3:15 PM - 4:15 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 3:30 PM - 4:30 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 3:45 PM - 4:45 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |
| 4:00 PM - 5:00 PM        | 11                                                | 0       | 13 | 0      | 43   | 1008 | 55    | 3                                                 | 1       | 31 | 0      | 334  | 1018 | 63    | 4                          | 0       | 4  | 0      | 53   | 35   | 35    | 2                          | 0       | 2  | 0      | 77   | 56   | 454   | 3231               |
| 4:15 PM - 5:15 PM        | 6                                                 | 0       | 14 | 0      | 46   | 1027 | 64    | 3                                                 | 1       | 29 | 0      | 341  | 1050 | 71    | 4                          | 0       | 0  | 0      | 50   | 32   | 35    | 0                          | 0       | 2  | 0      | 75   | 59   | 403   | 3253               |
| 4:30 PM - 5:30 PM        | 2                                                 | 0       | 12 | 0      | 40   | 1056 | 66    | 2                                                 | 1       | 27 | 0      | 331  | 1029 | 66    | 2                          | 0       | 0  | 0      | 54   | 31   | 36    | 0                          | 0       | 2  | 0      | 86   | 54   | 397   | 3248               |
| 4:45 PM - 5:45 PM        | 1                                                 | 0       | 10 | 0      | 36   | 1057 | 63    | 1                                                 | 1       | 15 | 0      | 317  | 1034 | 61    | 2                          | 0       | 0  | 0      | 49   | 28   | 29    | 0                          | 0       | 1  | 0      | 85   | 59   | 383   | 3201               |
| 5:00 PM - 6:00 PM        | 2                                                 | 1       | 7  | 0      | 40   | 1009 | 67    | 1                                                 | 0       | 16 | 0      | 311  | 1046 | 64    | 1                          | 0       | 0  | 0      | 45   | 35   | 24    | 0                          | 0       | 1  | 0      | 76   | 57   | 359   | 3133               |
| 4:00 PM - 6:00 PM Total: | 13                                                | 1       | 20 | 0      | 83   | 2017 | 122   | 4                                                 | 1       | 47 | 0      | 645  | 2064 | 127   | 5                          | 0       | 4  | 0      | 98   | 70   | 59    | 2                          | 0       | 3  | 0      | 153  | 113  | 813   | 6364               |

**TURNING MOVEMENTS DIAGRAM**

**4:00 PM - 6:00 PM PEAK HOUR: 4:00 PM TO 5:00 PM**



PHF = Peak Hour Factor  
HV = Heavy Vehicle

**North Creek Drive @ Everett-Bothell Highway (SR-527)**

**Mill Creek, WA**

COUNTED BY: TDG

DATE OF COUNT: Thu. 11/15/18

REDUCTION DATE: Sat. 11/17/18

TIME OF COUNT: 4:00 PM - 6:00 PM



INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

| LOCATION:        |  |                                  |         |    |        |      |      |       |      | North Creek Drive @ Everett-Bothell Highway (SR-527) |    |                                  |      |      |       |      |         |    |        | DATE OF COUNT: |      |                   |      |         |    |        |      |      |       | COUNTED BY:       |         |                   |        |      |      |              |  |  |  | DATE OF REDUCTION: |  |          |  |  |  |  |  |  |  | TDG |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------|--|----------------------------------|---------|----|--------|------|------|-------|------|------------------------------------------------------|----|----------------------------------|------|------|-------|------|---------|----|--------|----------------|------|-------------------|------|---------|----|--------|------|------|-------|-------------------|---------|-------------------|--------|------|------|--------------|--|--|--|--------------------|--|----------|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                  |  |                                  |         |    |        |      |      |       |      | Mill Creek, WA                                       |    |                                  |      |      |       |      |         |    |        | Thu. 11/15/18  |      |                   |      |         |    |        |      |      |       | 4:00 PM - 6:00 PM |         |                   |        |      |      |              |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  | 11/17/2018 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                  |  |                                  |         |    |        |      |      |       |      |                                                      |    |                                  |      |      |       |      |         |    |        |                |      |                   |      |         |    |        |      |      |       |                   |         |                   |        |      |      |              |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TIME INTERVAL    |  | FROM NORTH ON                    |         |    |        |      |      |       |      |                                                      |    | FROM SOUTH ON                    |      |      |       |      |         |    |        |                |      | FROM EAST ON      |      |         |    |        |      |      |       |                   |         | FROM WEST ON      |        |      |      |              |  |  |  |                    |  | INTERVAL |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ENDING           |  | Everett-Bothell Highway (SR-527) |         |    |        |      |      |       |      |                                                      |    | Everett-Bothell Highway (SR-527) |      |      |       |      |         |    |        |                |      | North Creek Drive |      |         |    |        |      |      |       |                   |         | North Creek Drive |        |      |      |              |  |  |  |                    |  | TOTALS   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AT               |  | Peds                             | Bicycle | HV | U-Turn | Left | Thru | Right | Peds | Bicycle                                              | HV | U-Turn                           | Left | Thru | Right | Peds | Bicycle | HV | U-Turn | Left           | Thru | Right             | Peds | Bicycle | HV | U-Turn | Left | Thru | Right | Peds              | Bicycle | HV                | U-Turn | Left | Thru | Right        |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02:15 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02:30 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 02:45 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03:00 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03:15 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03:30 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 03:45 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:00 PM         |  | 0                                | 0       | 0  | 0      | 0    | 0    | 0     | 0    | 0                                                    | 0  | 0                                | 0    | 0    | 0     | 0    | 0       | 0  | 0      | 0              | 0    | 0                 | 0    | 0       | 0  | 0      | 0    | 0    | 0     | 0                 | 0       | 0                 | 0      | 0    | 0    | 0            |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:15 PM         |  | 1                                | 0       | 3  | 0      | 57   | 319  | 8     | 1    | 0                                                    | 5  | 0                                | 10   | 290  | 13    | 0    | 0       | 2  | 0      | 20             | 5    | 42                | 1    | 2       | 1  | 0      | 13   | 5    | 7     |                   |         |                   |        |      |      | 789          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:30 PM         |  | 1                                | 0       | 3  | 0      | 41   | 294  | 9     | 0    | 0                                                    | 7  | 0                                | 9    | 331  | 20    | 0    | 0       | 2  | 0      | 14             | 4    | 35                | 1    | 0       | 1  | 0      | 18   | 10   | 8     |                   |         |                   |        |      |      | 793          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 04:45 PM         |  | 0                                | 0       | 2  | 0      | 69   | 308  | 7     | 0    | 0                                                    | 11 | 0                                | 11   | 291  | 10    | 0    | 0       | 1  | 0      | 15             | 6    | 43                | 0    | 0       | 1  | 0      | 14   | 1    | 11    |                   |         |                   |        |      |      | 786          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:00 PM         |  | 0                                | 0       | 4  | 0      | 55   | 309  | 11    | 0    | 0                                                    | 4  | 0                                | 15   | 290  | 11    | 1    | 0       | 0  | 0      | 12             | 10   | 39                | 0    | 0       | 0  | 0      | 12   | 11   | 5     |                   |         |                   |        |      |      | 770          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:15 PM         |  | 0                                | 0       | 3  | 0      | 68   | 266  | 10    | 0    | 0                                                    | 3  | 0                                | 12   | 330  | 7     | 0    | 0       | 1  | 0      | 17             | 8    | 27                | 0    | 0       | 0  | 0      | 13   | 8    | 9     |                   |         |                   |        |      |      | 775          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:30 PM         |  | 2                                | 0       | 2  | 0      | 67   | 323  | 5     | 0    | 0                                                    | 3  | 0                                | 5    | 291  | 9     | 0    | 0       | 1  | 0      | 18             | 5    | 29                | 0    | 0       | 0  | 0      | 18   | 11   | 11    |                   |         |                   |        |      |      | 782          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 05:45 PM         |  | 0                                | 0       | 2  | 0      | 52   | 297  | 12    | 0    | 0                                                    | 1  | 0                                | 14   | 294  | 3     | 0    | 0       | 1  | 0      | 11             | 6    | 34                | 0    | 0       | 0  | 0      | 22   | 6    | 7     |                   |         |                   |        |      |      | 758          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 06:00 PM         |  | 0                                | 0       | 1  | 0      | 56   | 256  | 10    | 0    | 0                                                    | 4  | 0                                | 12   | 260  | 3     | 0    | 0       | 0  | 0      | 6              | 6    | 26                | 0    | 1       | 1  | 0      | 21   | 6    | 3     |                   |         |                   |        |      |      | 665          |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PEAK HOUR TOTALS |  | 2                                | 0       | 12 | 0      | 222  | 1230 | 35    | 1    | 0                                                    | 27 | 0                                | 45   | 1192 | 54    | 1    | 0       | 5  | 0      | 61             | 25   | 159               | 2    | 2       | 3  | 0      | 57   | 27   | 31    |                   |         |                   |        |      |      | INTERSECTION |  |  |  |                    |  |          |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALL MOVEMENTS    |  | 1487                             |         |    |        |      |      |       |      |                                                      |    | 1291                             |      |      |       |      |         |    |        |                |      | 245               |      |         |    |        |      |      |       |                   |         | 115               |        |      |      |              |  |  |  |                    |  | 3138     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| % HV             |  | 0.8%                             |         |    |        |      |      |       |      |                                                      |    | 2.1%                             |      |      |       |      |         |    |        |                |      | 2.0%              |      |         |    |        |      |      |       |                   |         | 2.6%              |        |      |      |              |  |  |  |                    |  | 1.5%     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PEAK HOUR FACTOR |  | 0.97                             |         |    |        |      |      |       |      |                                                      |    | 0.90                             |      |      |       |      |         |    |        |                |      | 0.91              |      |         |    |        |      |      |       |                   |         | 0.80              |        |      |      |              |  |  |  |                    |  | 0.99     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

HV = Heavy Vehicle  
PHF = Peak Hour Factor

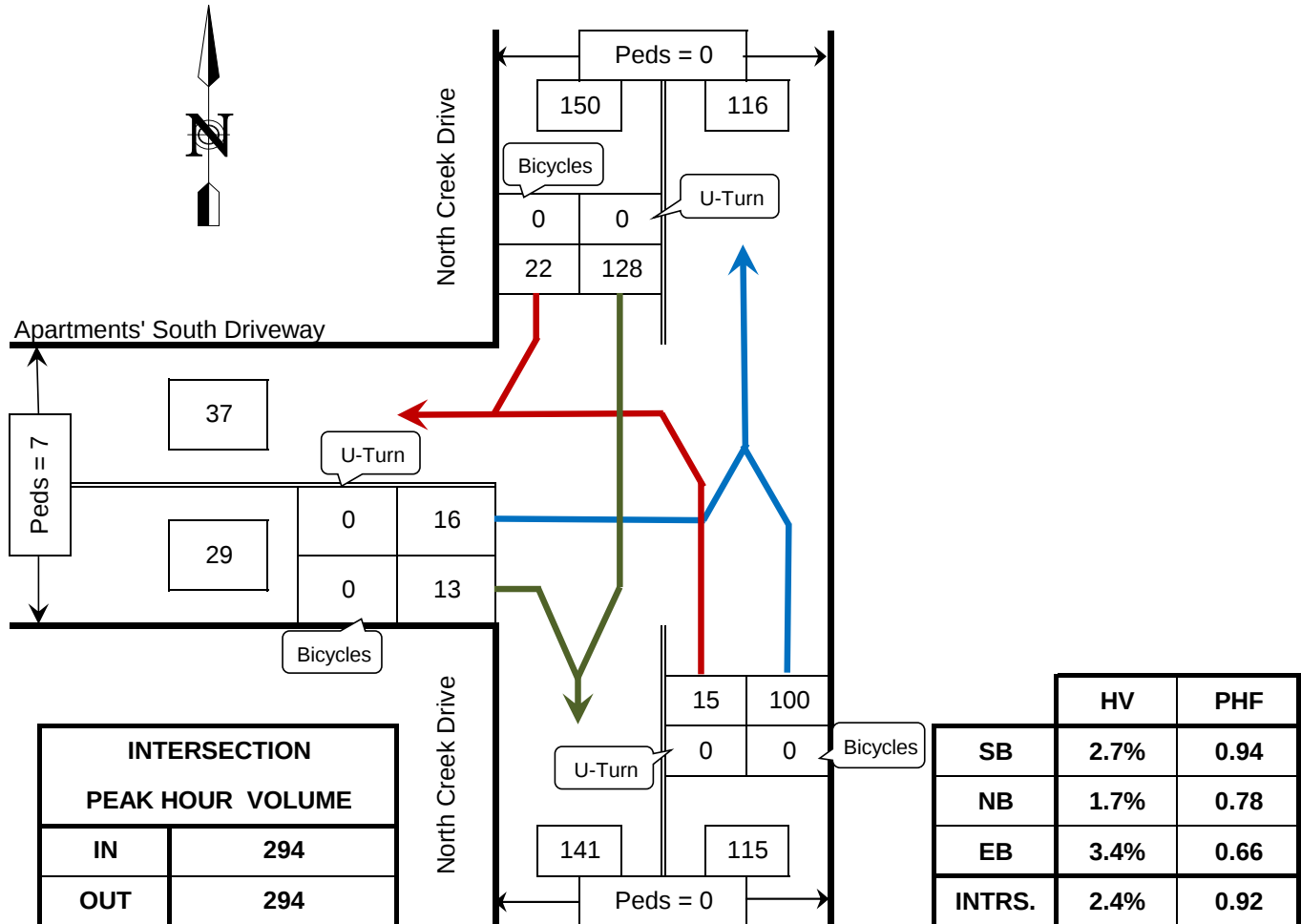
4:00 PM - 6:00 PM PEAK HOUR: 4:00 PM TO 5:00 PM

ROLLING HOUR COUNT

| TIME INTERVAL            | FROM NORTH ON<br>Everett-Bothell Highway (SR-527) |         |    |        |      |      |       | FROM SOUTH ON<br>Everett-Bothell Highway (SR-527) |         |    |        |      |      |       | FROM EAST ON<br>North Creek Drive |         |    |        |      |      |       | FROM WEST ON<br>North Creek Drive |         |    |        |      |      |       | INTERVAL<br>TOTALS |      |
|--------------------------|---------------------------------------------------|---------|----|--------|------|------|-------|---------------------------------------------------|---------|----|--------|------|------|-------|-----------------------------------|---------|----|--------|------|------|-------|-----------------------------------|---------|----|--------|------|------|-------|--------------------|------|
|                          | Peds                                              | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                                              | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                              | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                              | Bicycle | HV | U-Turn | Left | Thru | Right |                    |      |
| 2:00 PM - 3:00 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 2:15 PM - 3:15 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 2:30 PM - 3:30 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 2:45 PM - 3:45 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 3:00 PM - 4:00 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 3:15 PM - 4:15 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 3:30 PM - 4:30 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 3:45 PM - 4:45 PM        | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                                 | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |      |
| 4:00 PM - 5:00 PM        | 2                                                 | 0       | 12 | 0      | 222  | 1230 | 35    | 1                                                 | 0       | 27 | 0      | 45   | 1192 | 54    | 1                                 | 0       | 5  | 0      | 61   | 25   | 159   | 2                                 | 2       | 3  | 0      | 57   | 27   | 31    |                    | 3138 |
| 4:15 PM - 5:15 PM        | 1                                                 | 0       | 12 | 0      | 233  | 1177 | 37    | 0                                                 | 0       | 25 | 0      | 47   | 1232 | 48    | 1                                 | 0       | 4  | 0      | 58   | 28   | 144   | 1                                 | 0       | 2  | 0      | 57   | 30   | 33    |                    | 3124 |
| 4:30 PM - 5:30 PM        | 2                                                 | 0       | 11 | 0      | 259  | 1206 | 33    | 0                                                 | 0       | 21 | 0      | 43   | 1182 | 37    | 1                                 | 0       | 3  | 0      | 62   | 29   | 138   | 0                                 | 0       | 1  | 0      | 57   | 31   | 36    |                    | 3113 |
| 4:45 PM - 5:45 PM        | 2                                                 | 0       | 11 | 0      | 242  | 1195 | 38    | 0                                                 | 0       | 11 | 0      | 46   | 1185 | 30    | 1                                 | 0       | 3  | 0      | 58   | 29   | 129   | 0                                 | 0       | 0  | 0      | 65   | 36   | 32    |                    | 3095 |
| 5:00 PM - 6:00 PM        | 2                                                 | 0       | 8  | 0      | 243  | 1142 | 37    | 0                                                 | 0       | 11 | 0      | 43   | 1165 | 22    | 0                                 | 0       | 3  | 0      | 52   | 25   | 116   | 0                                 | 1       | 1  | 0      | 74   | 31   | 30    |                    | 2980 |
| 4:00 PM - 6:00 PM Total: | 4                                                 | 0       | 20 | 0      | 465  | 2372 | 72    | 1                                                 | 0       | 38 | 0      | 88   | 2357 | 76    | 1                                 | 0       | 8  | 0      | 113  | 50   | 275   | 2                                 | 3       | 4  | 0      | 131  | 58   | 61    |                    | 6118 |

**TURNING MOVEMENTS DIAGRAM**

**4:00 PM - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM**



HV = Heavy Vehicles  
PHF = Peak Hour Factor

**North Creek Drive @ Apartments' South Driveway**

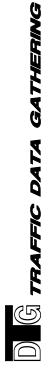
**Mill Creek, WA**

COUNTED BY: TDG

DATE OF COUNT: Thu. 11/15/18

REDUCTION DATE: Sat. 11/17/18

TIME OF COUNT: 4:00 PM - 6:00 PM



INTERSECTION TURNING MOVEMENTS REDUCTION SHEET

| LOCATION:                        |                                    | North Creek Drive @ Apartments' South Driveway |    |        |                                    | DATE OF COUNT: |       |      |              | COUNTED BY:                        |        |      |                                            | DATE OF REDUCTION: |      | TDG     |                    |   |    |        |      |      |       |
|----------------------------------|------------------------------------|------------------------------------------------|----|--------|------------------------------------|----------------|-------|------|--------------|------------------------------------|--------|------|--------------------------------------------|--------------------|------|---------|--------------------|---|----|--------|------|------|-------|
|                                  |                                    | Mill Creek, WA                                 |    |        |                                    | TIME OF COUNT: |       |      |              | Thu. 11/15/18<br>4:00 PM - 6:00 PM |        |      |                                            |                    |      |         |                    |   |    |        |      |      |       |
| TIME<br>INTERVAL<br>ENDING<br>AT | FROM NORTH ON<br>North Creek Drive |                                                |    |        | FROM SOUTH ON<br>North Creek Drive |                |       |      | FROM EAST ON |                                    |        |      | FROM WEST ON<br>Apartments' South Driveway |                    |      |         | INTERVAL<br>TOTALS |   |    |        |      |      |       |
|                                  | Peds                               | Bicycle                                        | HV | U-Turn | Left                               | Thru           | Right | Peds | Bicycle      | HV                                 | U-Turn | Left | Thru                                       | Right              | Peds | Bicycle |                    |   | HV | U-Turn | Left | Thru | Right |
| 02:15 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 02:30 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 02:45 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 03:00 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 03:15 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 03:30 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 03:45 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 04:00 PM                         | 0                                  | 0                                              | 0  | 0      | 0                                  | 0              | 0     | 0    | 0            | 0                                  | 0      | 0    | 0                                          | 0                  | 0    | 0       | 0                  | 0 | 0  | 0      | 0    | 0    |       |
| 04:15 PM                         | 0                                  | 1                                              | 1  | 0      | 0                                  | 26             | 2     | 0    | 0            | 1                                  | 0      | 3    | 21                                         | 0                  | 0    | 0       | 0                  | 0 | 2  | 0      | 1    | 0    | 3     |
| 04:30 PM                         | 0                                  | 0                                              | 2  | 0      | 0                                  | 34             | 4     | 0    | 0            | 2                                  | 0      | 2    | 19                                         | 0                  | 0    | 0       | 0                  | 0 | 2  | 0      | 1    | 0    | 4     |
| 04:45 PM                         | 0                                  | 0                                              | 1  | 0      | 0                                  | 27             | 9     | 0    | 0            | 0                                  | 0      | 5    | 32                                         | 0                  | 0    | 0       | 0                  | 0 | 2  | 0      | 0    | 2    | 0     |
| 05:00 PM                         | 0                                  | 0                                              | 1  | 0      | 0                                  | 30             | 6     | 0    | 0            | 0                                  | 0      | 4    | 24                                         | 0                  | 0    | 0       | 0                  | 0 | 2  | 0      | 0    | 5    | 0     |
| 05:15 PM                         | 0                                  | 0                                              | 0  | 0      | 37                                 | 3              | 0     | 0    | 0            | 0                                  | 0      | 4    | 25                                         | 0                  | 0    | 0       | 0                  | 0 | 1  | 0      | 0    | 5    | 0     |
| 05:30 PM                         | 0                                  | 0                                              | 1  | 0      | 0                                  | 37             | 2     | 0    | 0            | 0                                  | 0      | 0    | 14                                         | 0                  | 0    | 0       | 0                  | 0 | 1  | 0      | 0    | 5    | 0     |
| 05:45 PM                         | 0                                  | 0                                              | 1  | 0      | 0                                  | 32             | 2     | 0    | 0            | 0                                  | 0      | 3    | 24                                         | 0                  | 0    | 0       | 0                  | 0 | 2  | 0      | 0    | 1    | 0     |
| 06:00 PM                         | 0                                  | 1                                              | 0  | 0      | 0                                  | 23             | 3     | 0    | 0            | 1                                  | 0      | 4    | 15                                         | 0                  | 0    | 0       | 0                  | 0 | 4  | 1      | 0    | 12   | 0     |
| PEAK HOUR TOTALS                 | 0                                  | 0                                              | 4  | 0      | 0                                  | 128            | 22    | 0    | 0            | 2                                  | 0      | 15   | 100                                        | 0                  | 0    | 0       | 0                  | 0 | 7  | 0      | 1    | 0    | 16    |
| ALL MOVEMENTS                    | 150                                |                                                |    |        | 115                                |                |       |      | 0            |                                    |        |      | 29                                         |                    |      |         | 294                |   |    |        |      |      |       |
| % HV                             | 2.7%                               |                                                |    |        | 1.7%                               |                |       |      | #N/A         |                                    |        |      | 3.4%                                       |                    |      |         | 2.4%               |   |    |        |      |      |       |
| PEAK HOUR FACTOR                 | 0.94                               |                                                |    |        | 0.78                               |                |       |      | #N/A         |                                    |        |      | 0.66                                       |                    |      |         | 0.92               |   |    |        |      |      |       |

HV = Heavy Vehicle  
PHF = Peak Hour Factor

4:00 PM - 6:00 PM PEAK HOUR: 4:15 PM TO 5:15 PM

ROLLING HOUR COUNT

| TIME INTERVAL            | FROM NORTH ON<br>North Creek Drive |         |    |        |      |      |       | FROM SOUTH ON<br>North Creek Drive |         |    |        |      |      |       | FROM EAST ON |         |    |        |      |      |       | FROM WEST ON<br>Apartments' South Driveway |         |    |        |      |      |       | INTERVAL<br>TOTALS |   |
|--------------------------|------------------------------------|---------|----|--------|------|------|-------|------------------------------------|---------|----|--------|------|------|-------|--------------|---------|----|--------|------|------|-------|--------------------------------------------|---------|----|--------|------|------|-------|--------------------|---|
|                          | Peds                               | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                               | Bicycle | HV | U-Turn | Left | Thru | Right | Peds         | Bicycle | HV | U-Turn | Left | Thru | Right | Peds                                       | Bicycle | HV | U-Turn | Left | Thru | Right |                    |   |
| 2:00 PM - 3:00 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 2:15 PM - 3:15 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 2:30 PM - 3:30 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 2:45 PM - 3:45 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 3:00 PM - 4:00 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 3:15 PM - 4:15 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 3:30 PM - 4:30 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 3:45 PM - 4:45 PM        | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0                                  | 0       | 0  | 0      | 0    | 0    | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 0                                          | 0       | 0  | 0      | 0    | 0    | 0     | 0                  |   |
| 4:00 PM - 5:00 PM        | 0                                  | 1       | 5  | 0      | 0    | 117  | 21    | 0                                  | 0       | 3  | 0      | 14   | 96   | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 8                                          | 0       | 2  | 0      | 14   | 0    | 9     | 271                | 0 |
| 4:15 PM - 5:15 PM        | 0                                  | 0       | 4  | 0      | 0    | 128  | 22    | 0                                  | 0       | 2  | 0      | 15   | 100  | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 7                                          | 0       | 1  | 0      | 16   | 0    | 13    | 294                | 0 |
| 4:30 PM - 5:30 PM        | 0                                  | 0       | 3  | 0      | 0    | 131  | 20    | 0                                  | 0       | 0  | 0      | 13   | 95   | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 6                                          | 0       | 0  | 0      | 17   | 0    | 16    | 292                | 0 |
| 4:45 PM - 5:45 PM        | 0                                  | 0       | 3  | 0      | 0    | 136  | 13    | 0                                  | 0       | 0  | 0      | 11   | 87   | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 6                                          | 0       | 0  | 0      | 16   | 0    | 17    | 290                | 0 |
| 5:00 PM - 6:00 PM        | 0                                  | 1       | 2  | 0      | 0    | 129  | 10    | 0                                  | 0       | 1  | 0      | 11   | 78   | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 8                                          | 1       | 0  | 0      | 23   | 0    | 14    | 265                | 0 |
| 4:00 PM - 6:00 PM Total: | 0                                  | 2       | 7  | 0      | 0    | 246  | 31    | 0                                  | 0       | 4  | 0      | 25   | 174  | 0     | 0            | 0       | 0  | 0      | 0    | 0    | 0     | 16                                         | 1       | 2  | 1      | 37   | 0    | 23    | 536                | 0 |

# 1 N Creek Dr @ Dumas Rd

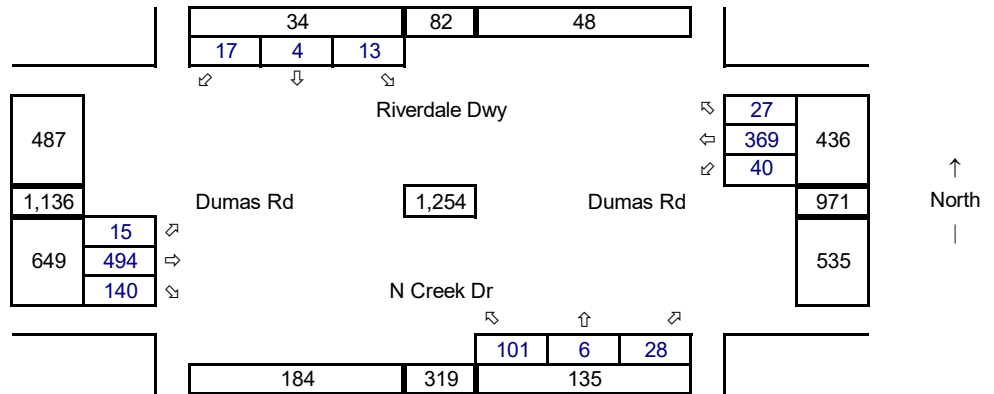
Synchro ID: 1

## Existing

Average Weekday  
PM Peak Hour

Year: 11/15/18

Data Source: TDG



## Future without Project

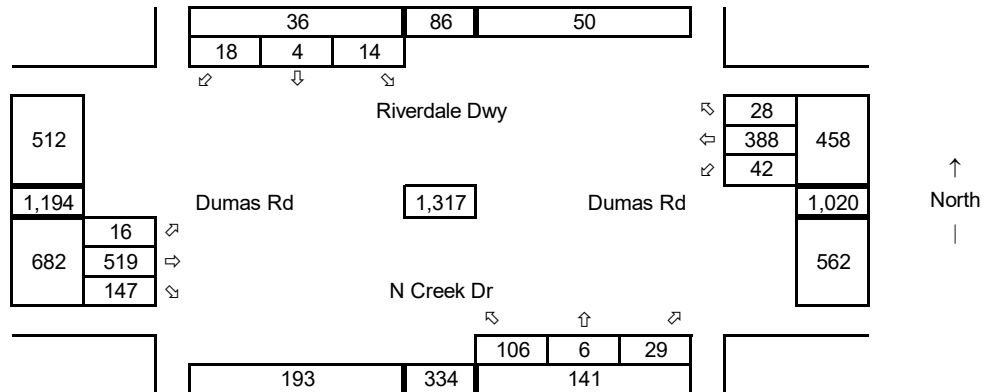
Average Weekday  
PM Peak Hour

Year: 2023

Growth Rate = 1.0%

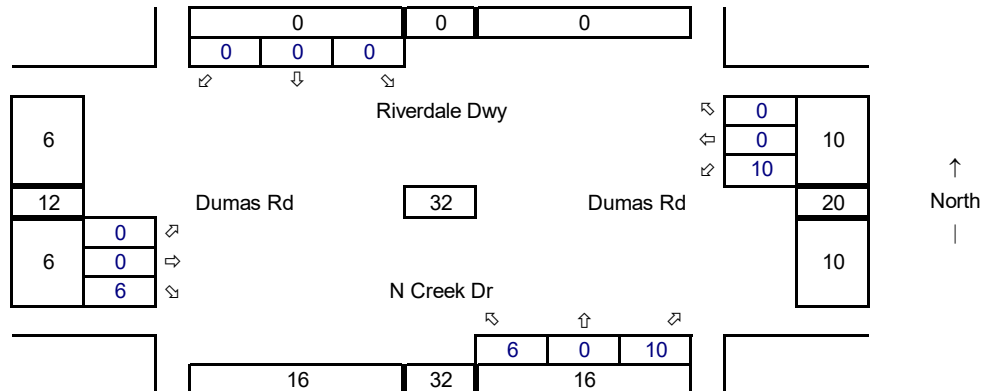
Years of Growth = 5

Total Growth = 1.0510



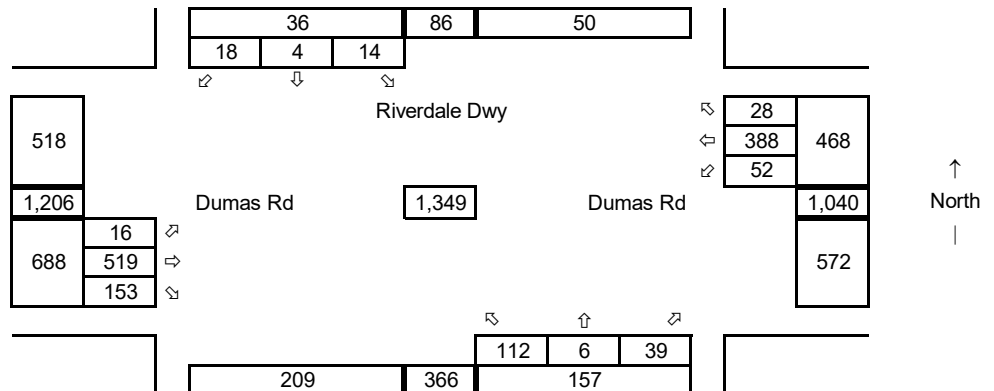
## Total Project Trips

Average Weekday  
PM Peak Hour



## Future with Project

Average Weekday  
PM Peak Hour



## 2 SR-527 @ Dumas Rd

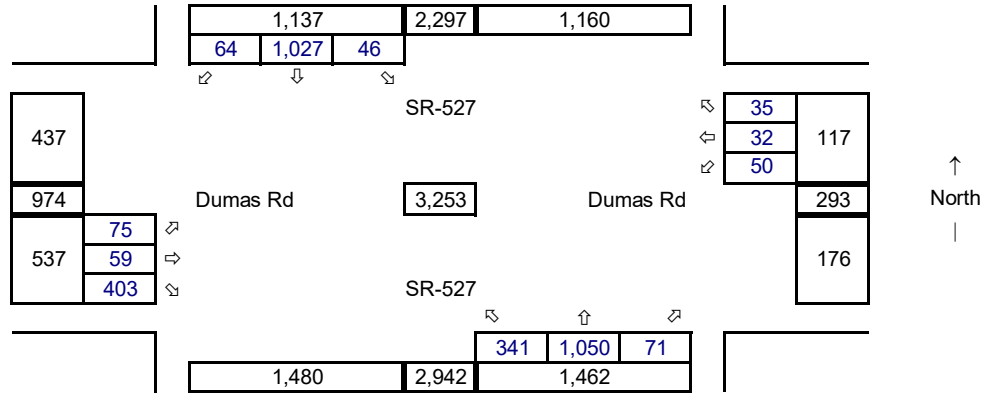
Synchro ID: 2

### Existing

Average Weekday  
PM Peak Hour

Year: 11/15/18

Data Source: TDG



### Future without Project

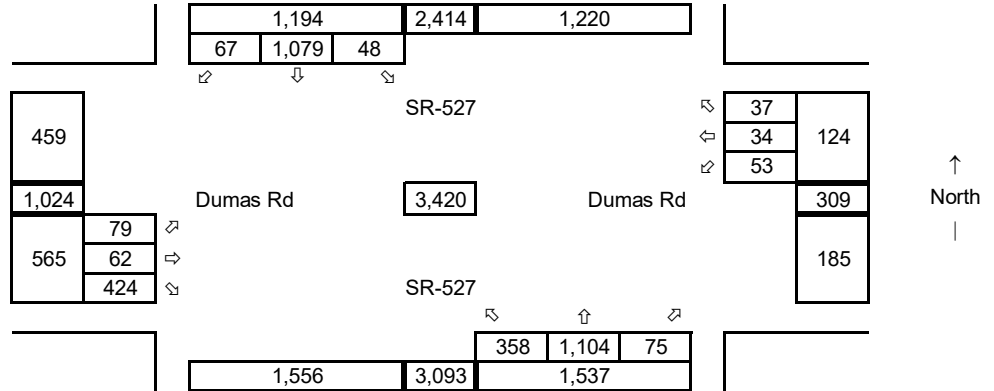
Average Weekday  
PM Peak Hour

Year: 2023

Growth Rate = 1.0%

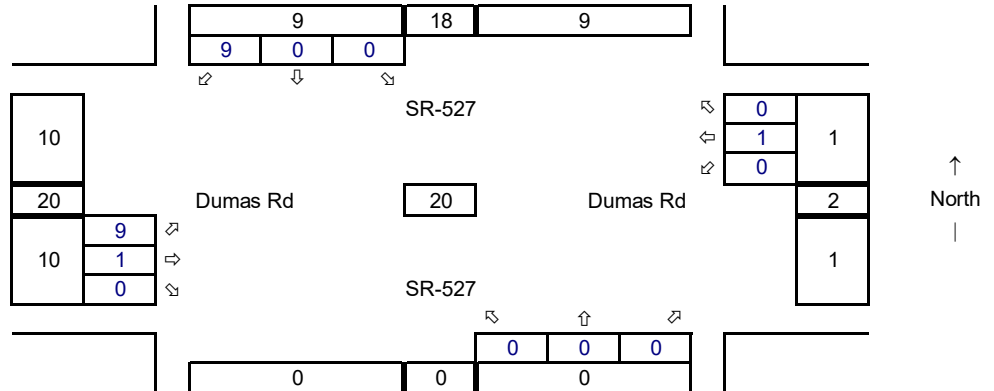
Years of Growth = 5

Total Growth = 1.0510



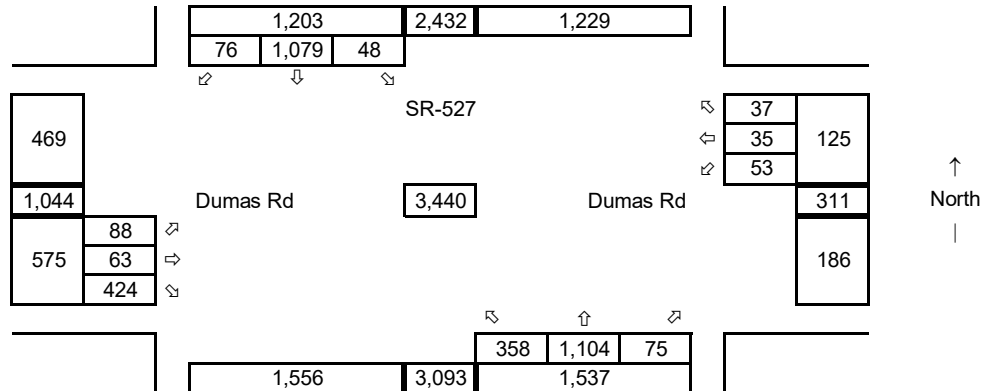
### Total Project Trips

Average Weekday  
PM Peak Hour



### Future with Project

Average Weekday  
PM Peak Hour



### 3 SR-527 @ N Creek Dr

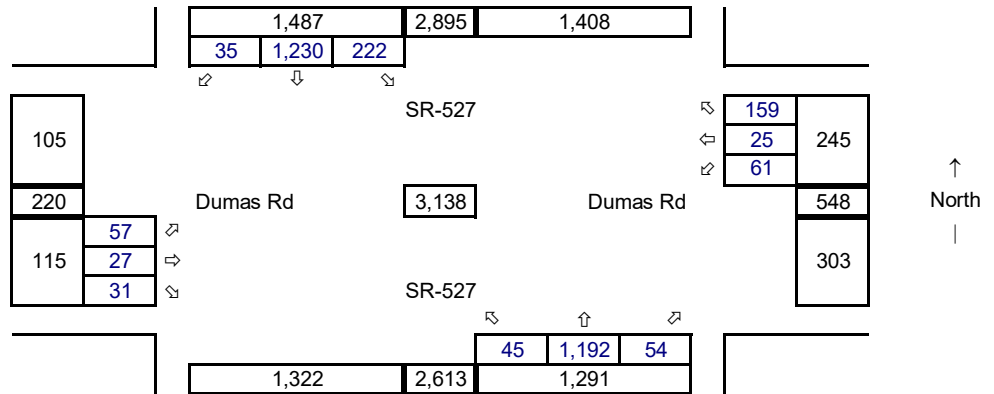
Synchro ID: 3

#### Existing

Average Weekday  
PM Peak Hour

Year: 11/15/18

Data Source: TDG



#### Future without Project

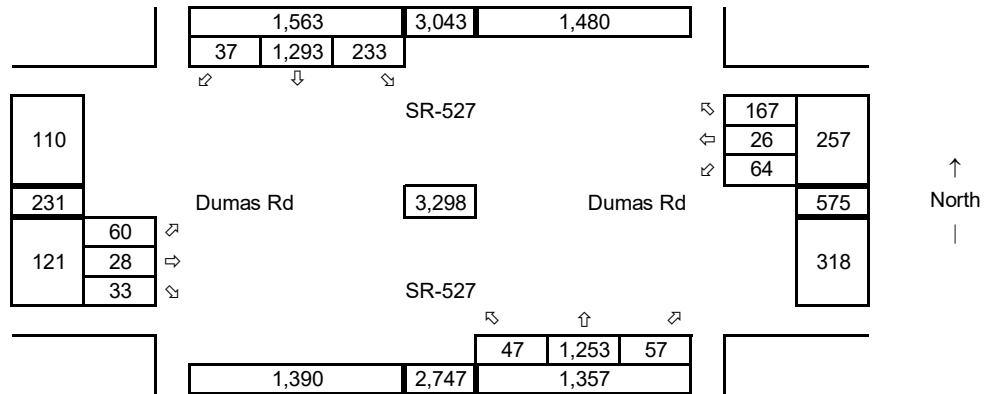
Average Weekday  
PM Peak Hour

Year: 2023

Growth Rate = 1.0%

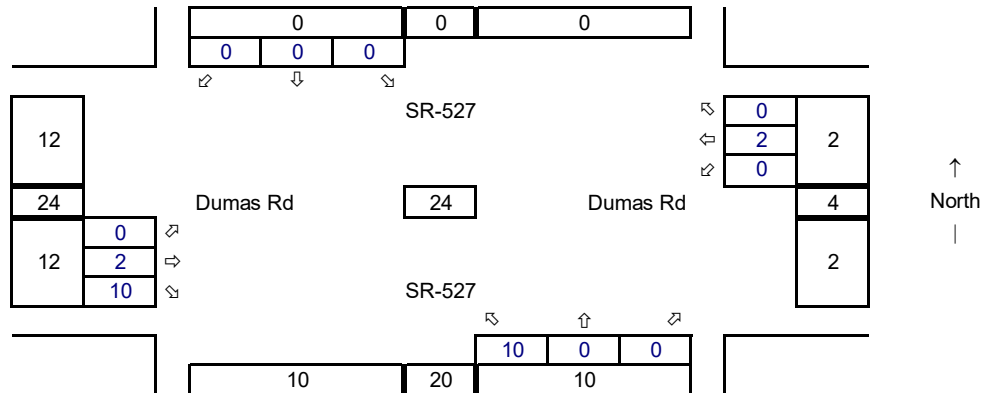
Years of Growth = 5

Total Growth = 1.0510



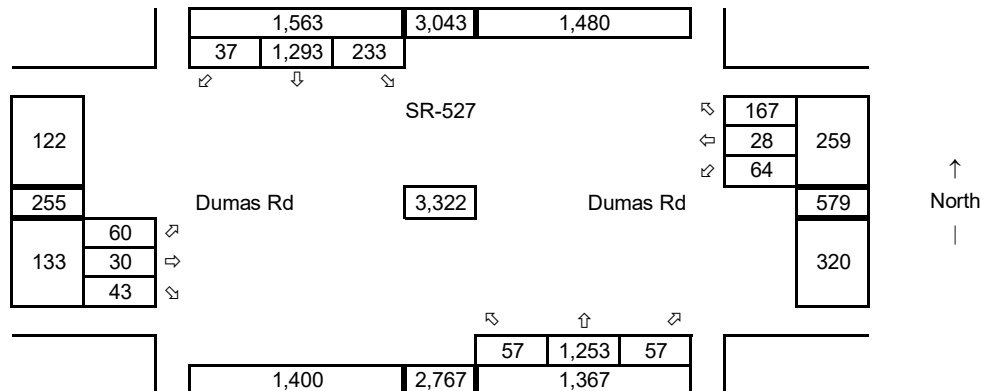
#### Total Project Trips

Average Weekday  
PM Peak Hour



#### Future with Project

Average Weekday  
PM Peak Hour



# 4 N Creek Dr @ Apts Dwy

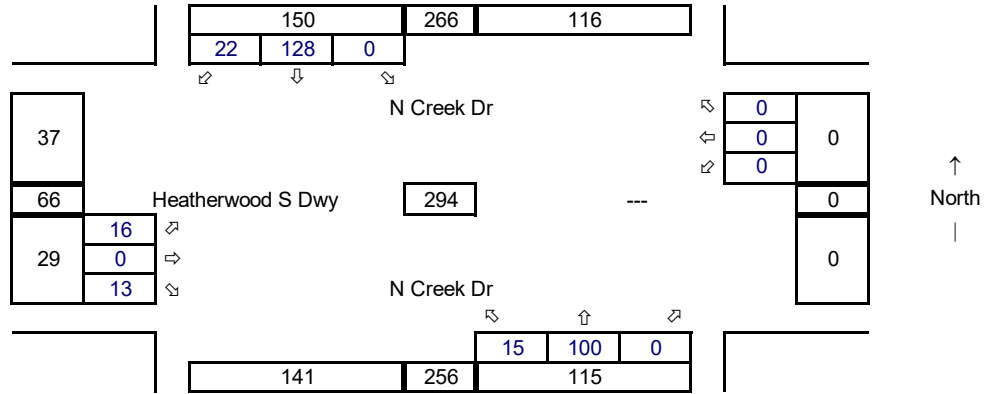
Synchro ID: 4

## Existing

Average Weekday  
PM Peak Hour

Year: 11/15/18

Data Source: TDG



## Future without Project

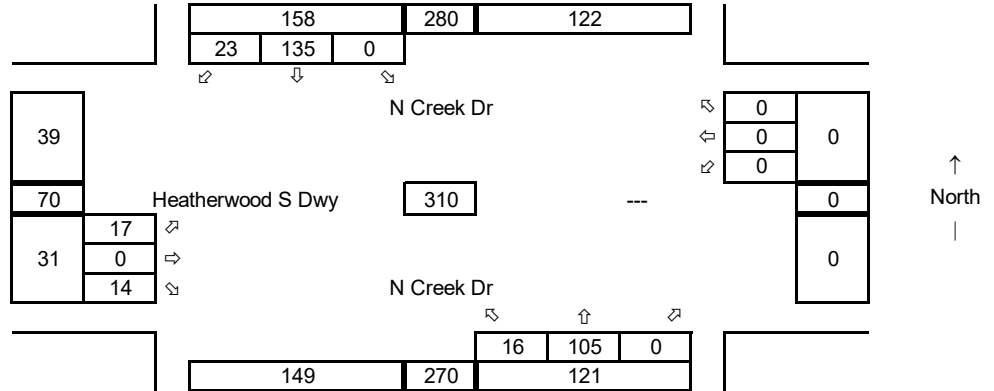
Average Weekday  
PM Peak Hour

Year: 2023

Growth Rate = 1.0%

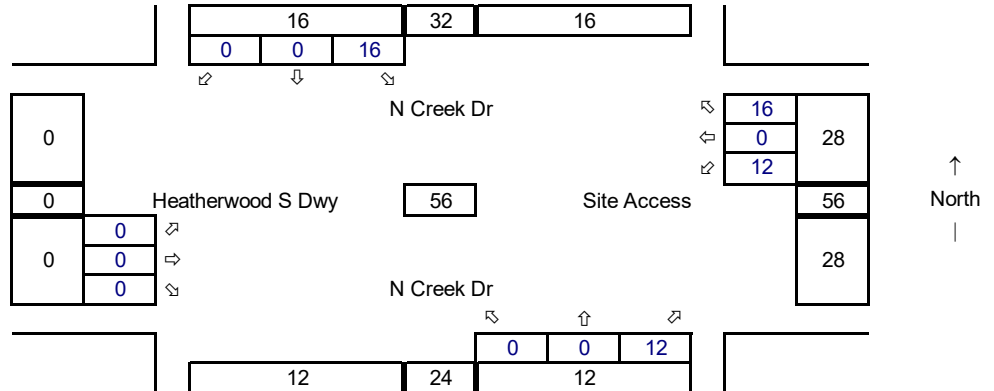
Years of Growth = 5

Total Growth = 1.0510



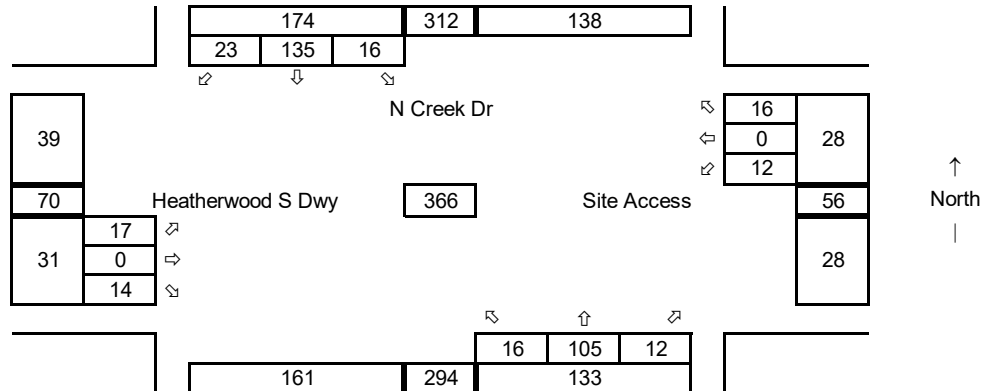
## Total Project Trips

Average Weekday  
PM Peak Hour



## Future with Project

Average Weekday  
PM Peak Hour



# **Level of Service Analysis**

## 7C's Swim School (18-262)

## 1: N Creek Dr/Rivendale Dwy &amp; Dumas Rd

## Existing Conditions

PM Peak-Hour

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |                                                                                   |  |  |  |  |  |                                                                                     |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 15                                                                                | 494                                                                               | 140                                                                               | 40                                                                                | 369                                                                               | 27                                                                                | 101                                                                                | 6                                                                                   | 28                                                                                  | 13                                                                                  | 4                                                                                   | 17                                                                                  |
| Future Volume (veh/h)        | 15                                                                                | 494                                                                               | 140                                                                               | 40                                                                                | 369                                                                               | 27                                                                                | 101                                                                                | 6                                                                                   | 28                                                                                  | 13                                                                                  | 4                                                                                   | 17                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                  | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 0.97                                                                               |                                                                                     | 0.96                                                                                | 0.97                                                                                |                                                                                     | 0.96                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                    | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                               | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h         | 16                                                                                | 515                                                                               | 146                                                                               | 42                                                                                | 384                                                                               | 28                                                                                | 105                                                                                | 6                                                                                   | 29                                                                                  | 14                                                                                  | 4                                                                                   | 18                                                                                  |
| Peak Hour Factor             | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                               | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                  | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                   | 719                                                                               | 953                                                                               | 270                                                                               | 530                                                                               | 1307                                                                              | 1105                                                                              | 246                                                                                | 36                                                                                  | 174                                                                                 | 234                                                                                 | 38                                                                                  | 173                                                                                 |
| Arrive On Green              | 0.02                                                                              | 0.67                                                                              | 0.67                                                                              | 0.04                                                                              | 0.69                                                                              | 0.69                                                                              | 0.13                                                                               | 0.13                                                                                | 0.13                                                                                | 0.13                                                                                | 0.13                                                                                | 0.13                                                                                |
| Sat Flow, veh/h              | 1795                                                                              | 1412                                                                              | 400                                                                               | 1795                                                                              | 1885                                                                              | 1594                                                                              | 1352                                                                               | 272                                                                                 | 1315                                                                                | 1338                                                                                | 289                                                                                 | 1302                                                                                |
| Grp Volume(v), veh/h         | 16                                                                                | 0                                                                                 | 661                                                                               | 42                                                                                | 384                                                                               | 28                                                                                | 105                                                                                | 0                                                                                   | 35                                                                                  | 14                                                                                  | 0                                                                                   | 22                                                                                  |
| Grp Sat Flow(s),veh/h/ln     | 1795                                                                              | 0                                                                                 | 1812                                                                              | 1795                                                                              | 1885                                                                              | 1594                                                                              | 1352                                                                               | 0                                                                                   | 1588                                                                                | 1338                                                                                | 0                                                                                   | 1591                                                                                |
| Q Serve(g_s), s              | 0.2                                                                               | 0.0                                                                               | 16.2                                                                              | 0.6                                                                               | 6.8                                                                               | 0.5                                                                               | 6.4                                                                                | 0.0                                                                                 | 1.7                                                                                 | 0.8                                                                                 | 0.0                                                                                 | 1.1                                                                                 |
| Cycle Q Clear(g_c), s        | 0.2                                                                               | 0.0                                                                               | 16.2                                                                              | 0.6                                                                               | 6.8                                                                               | 0.5                                                                               | 7.5                                                                                | 0.0                                                                                 | 1.7                                                                                 | 2.5                                                                                 | 0.0                                                                                 | 1.1                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 0.22                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                               |                                                                                     | 0.83                                                                                | 1.00                                                                                |                                                                                     | 0.82                                                                                |
| Lane Grp Cap(c), veh/h       | 719                                                                               | 0                                                                                 | 1223                                                                              | 530                                                                               | 1307                                                                              | 1105                                                                              | 246                                                                                | 0                                                                                   | 210                                                                                 | 234                                                                                 | 0                                                                                   | 211                                                                                 |
| V/C Ratio(X)                 | 0.02                                                                              | 0.00                                                                              | 0.54                                                                              | 0.08                                                                              | 0.29                                                                              | 0.03                                                                              | 0.43                                                                               | 0.00                                                                                | 0.17                                                                                | 0.06                                                                                | 0.00                                                                                | 0.10                                                                                |
| Avail Cap(c_a), veh/h        | 790                                                                               | 0                                                                                 | 1223                                                                              | 567                                                                               | 1307                                                                              | 1105                                                                              | 418                                                                                | 0                                                                                   | 412                                                                                 | 404                                                                                 | 0                                                                                   | 413                                                                                 |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                               | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                               | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 4.3                                                                               | 0.0                                                                               | 7.2                                                                               | 5.3                                                                               | 5.1                                                                               | 4.2                                                                               | 36.4                                                                               | 0.0                                                                                 | 33.3                                                                                | 34.5                                                                                | 0.0                                                                                 | 33.1                                                                                |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 0.0                                                                               | 1.7                                                                               | 0.1                                                                               | 0.6                                                                               | 0.0                                                                               | 1.2                                                                                | 0.0                                                                                 | 0.4                                                                                 | 0.1                                                                                 | 0.0                                                                                 | 0.2                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.1                                                                               | 0.0                                                                               | 5.7                                                                               | 0.2                                                                               | 2.4                                                                               | 0.1                                                                               | 2.2                                                                                | 0.0                                                                                 | 0.7                                                                                 | 0.3                                                                                 | 0.0                                                                                 | 0.4                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 4.3                                                                               | 0.0                                                                               | 8.9                                                                               | 5.3                                                                               | 5.7                                                                               | 4.2                                                                               | 37.5                                                                               | 0.0                                                                                 | 33.7                                                                                | 34.6                                                                                | 0.0                                                                                 | 33.3                                                                                |
| LnGrp LOS                    | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | D                                                                                  | A                                                                                   | C                                                                                   | C                                                                                   | A                                                                                   | C                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 677                                                                               |                                                                                   |                                                                                   | 454                                                                               |                                                                                   |                                                                                    | 140                                                                                 |                                                                                     |                                                                                     | 36                                                                                  |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 8.8                                                                               |                                                                                   |                                                                                   | 5.6                                                                               |                                                                                   |                                                                                    | 36.6                                                                                |                                                                                     |                                                                                     | 33.8                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | A                                                                                 |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                    | D                                                                                   |                                                                                     |                                                                                     | C                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                    | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 6.1                                                                               | 64.6                                                                              |                                                                                   | 16.0                                                                              | 7.7                                                                               | 63.0                                                                              |                                                                                    | 16.0                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                    | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 5.0                                                                               | 58.5                                                                              |                                                                                   | 22.5                                                                              | 5.0                                                                               | 58.5                                                                              |                                                                                    | 22.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.2                                                                               | 8.8                                                                               |                                                                                   | 9.5                                                                               | 2.6                                                                               | 18.2                                                                              |                                                                                    | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 2.7                                                                               |                                                                                   | 0.3                                                                               | 0.0                                                                               | 5.5                                                                               |                                                                                    | 0.1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 11.3                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

7C's Swim School (18-262)  
2: SR-527 & Dumas Rd

Existing Conditions  
PM Peak-Hour

|                              |  |  |  |  |  |  |   |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |                                                                                   |  |  |                                                                                     |  |  |  |
| Traffic Volume (veh/h)       | 75                                                                                | 59                                                                                | 403                                                                               | 50                                                                                | 32                                                                                | 35                                                                                | 341                                                                                 | 1050                                                                                | 71                                                                                  | 46                                                                                  | 1027                                                                                | 64                                                                                  |
| Future Volume (veh/h)        | 75                                                                                | 59                                                                                | 403                                                                               | 50                                                                                | 32                                                                                | 35                                                                                | 341                                                                                 | 1050                                                                                | 71                                                                                  | 46                                                                                  | 1027                                                                                | 64                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 0.99                                                                              |                                                                                   | 0.99                                                                              | 0.99                                                                              |                                                                                   | 0.99                                                                              | 1.00                                                                                |                                                                                     | 0.98                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h         | 77                                                                                | 61                                                                                | 415                                                                               | 52                                                                                | 33                                                                                | 36                                                                                | 352                                                                                 | 1082                                                                                | 73                                                                                  | 47                                                                                  | 1059                                                                                | 66                                                                                  |
| Peak Hour Factor             | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                   | 224                                                                               | 298                                                                               | 390                                                                               | 180                                                                               | 129                                                                               | 141                                                                               | 460                                                                                 | 2362                                                                                | 159                                                                                 | 391                                                                                 | 2191                                                                                | 137                                                                                 |
| Arrive On Green              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.09                                                                                | 0.69                                                                                | 0.69                                                                                | 0.03                                                                                | 0.64                                                                                | 0.64                                                                                |
| Sat Flow, veh/h              | 1330                                                                              | 1885                                                                              | 1579                                                                              | 921                                                                               | 819                                                                               | 893                                                                               | 1795                                                                                | 3399                                                                                | 229                                                                                 | 1795                                                                                | 3424                                                                                | 213                                                                                 |
| Grp Volume(v), veh/h         | 77                                                                                | 61                                                                                | 415                                                                               | 52                                                                                | 0                                                                                 | 69                                                                                | 352                                                                                 | 570                                                                                 | 585                                                                                 | 47                                                                                  | 554                                                                                 | 571                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1330                                                                              | 1885                                                                              | 1579                                                                              | 921                                                                               | 0                                                                                 | 1712                                                                              | 1795                                                                                | 1791                                                                                | 1837                                                                                | 1795                                                                                | 1791                                                                                | 1846                                                                                |
| Q Serve(g_s), s              | 6.4                                                                               | 3.3                                                                               | 18.7                                                                              | 6.2                                                                               | 0.0                                                                               | 4.2                                                                               | 7.4                                                                                 | 16.9                                                                                | 16.9                                                                                | 1.0                                                                                 | 19.1                                                                                | 19.1                                                                                |
| Cycle Q Clear(g_c), s        | 10.6                                                                              | 3.3                                                                               | 18.7                                                                              | 9.5                                                                               | 0.0                                                                               | 4.2                                                                               | 7.4                                                                                 | 16.9                                                                                | 16.9                                                                                | 1.0                                                                                 | 19.1                                                                                | 19.1                                                                                |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 0.52                                                                              | 1.00                                                                                |                                                                                     | 0.12                                                                                | 1.00                                                                                |                                                                                     | 0.12                                                                                |
| Lane Grp Cap(c), veh/h       | 224                                                                               | 298                                                                               | 390                                                                               | 180                                                                               | 0                                                                                 | 270                                                                               | 460                                                                                 | 1245                                                                                | 1277                                                                                | 391                                                                                 | 1146                                                                                | 1182                                                                                |
| V/C Ratio(X)                 | 0.34                                                                              | 0.20                                                                              | 1.06                                                                              | 0.29                                                                              | 0.00                                                                              | 0.26                                                                              | 0.76                                                                                | 0.46                                                                                | 0.46                                                                                | 0.12                                                                                | 0.48                                                                                | 0.48                                                                                |
| Avail Cap(c_a), veh/h        | 224                                                                               | 298                                                                               | 390                                                                               | 180                                                                               | 0                                                                                 | 270                                                                               | 810                                                                                 | 1245                                                                                | 1277                                                                                | 415                                                                                 | 1146                                                                                | 1182                                                                                |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 48.4                                                                              | 43.4                                                                              | 44.7                                                                              | 47.5                                                                              | 0.0                                                                               | 43.8                                                                              | 11.0                                                                                | 8.1                                                                                 | 8.1                                                                                 | 7.0                                                                                 | 11.1                                                                                | 11.1                                                                                |
| Incr Delay (d2), s/veh       | 0.9                                                                               | 0.3                                                                               | 63.5                                                                              | 0.9                                                                               | 0.0                                                                               | 0.5                                                                               | 2.7                                                                                 | 1.2                                                                                 | 1.2                                                                                 | 0.1                                                                                 | 1.5                                                                                 | 1.4                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 2.2                                                                               | 1.6                                                                               | 18.2                                                                              | 1.5                                                                               | 0.0                                                                               | 1.8                                                                               | 3.8                                                                                 | 6.4                                                                                 | 6.6                                                                                 | 0.4                                                                                 | 7.6                                                                                 | 7.9                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 49.3                                                                              | 43.7                                                                              | 108.2                                                                             | 48.4                                                                              | 0.0                                                                               | 44.2                                                                              | 13.7                                                                                | 9.3                                                                                 | 9.3                                                                                 | 7.1                                                                                 | 12.6                                                                                | 12.5                                                                                |
| LnGrp LOS                    | D                                                                                 | D                                                                                 | F                                                                                 | D                                                                                 | A                                                                                 | D                                                                                 | B                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | B                                                                                   | B                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 553                                                                               |                                                                                   |                                                                                   | 121                                                                               |                                                                                   |                                                                                     | 1507                                                                                |                                                                                     |                                                                                     | 1172                                                                                |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 92.9                                                                              |                                                                                   |                                                                                   | 46.0                                                                              |                                                                                   |                                                                                     | 10.3                                                                                |                                                                                     |                                                                                     | 12.3                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | F                                                                                 |                                                                                   |                                                                                   | D                                                                                 |                                                                                   |                                                                                     | B                                                                                   |                                                                                     |                                                                                     | B                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 8.4                                                                               | 86.8                                                                              |                                                                                   | 23.2                                                                              | 14.9                                                                              | 80.3                                                                              |                                                                                     | 23.2                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 5.5                                                                               | 82.3                                                                              |                                                                                   | 18.7                                                                              | 33.5                                                                              | 54.3                                                                              |                                                                                     | 18.7                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 3.0                                                                               | 18.9                                                                              |                                                                                   | 20.7                                                                              | 9.4                                                                               | 21.1                                                                              |                                                                                     | 11.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 10.7                                                                              |                                                                                   | 0.0                                                                               | 1.1                                                                               | 9.3                                                                               |                                                                                     | 0.3                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 25.9                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  |                                                                                   |                                                                                   | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

7C's Swim School (18-262)  
3: SR-527 & N Creek Dr/Trillium Blvd

Existing Conditions  
PM Peak-Hour

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |                                                                                   |  |  |                                                                                   |  |  |                                                                                     |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 57                                                                                | 27                                                                                | 31                                                                                | 61                                                                                | 25                                                                                | 159                                                                               | 45                                                                                  | 1192                                                                                | 54                                                                                  | 222                                                                                 | 1230                                                                                | 35                                                                                  |
| Future Volume (veh/h)        | 57                                                                                | 27                                                                                | 31                                                                                | 61                                                                                | 25                                                                                | 159                                                                               | 45                                                                                  | 1192                                                                                | 54                                                                                  | 222                                                                                 | 1230                                                                                | 35                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 0.98                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                |
| Adj Flow Rate, veh/h         | 58                                                                                | 27                                                                                | 31                                                                                | 62                                                                                | 25                                                                                | 161                                                                               | 45                                                                                  | 1204                                                                                | 55                                                                                  | 224                                                                                 | 1242                                                                                | 35                                                                                  |
| Peak Hour Factor             | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                |
| Percent Heavy Veh, %         | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   |
| Cap, veh/h                   | 221                                                                               | 152                                                                               | 174                                                                               | 337                                                                               | 42                                                                                | 269                                                                               | 323                                                                                 | 1703                                                                                | 78                                                                                  | 386                                                                                 | 1925                                                                                | 54                                                                                  |
| Arrive On Green              | 0.19                                                                              | 0.19                                                                              | 0.19                                                                              | 0.19                                                                              | 0.19                                                                              | 0.19                                                                              | 0.04                                                                                | 0.49                                                                                | 0.49                                                                                | 0.10                                                                                | 0.55                                                                                | 0.55                                                                                |
| Sat Flow, veh/h              | 1195                                                                              | 786                                                                               | 903                                                                               | 1342                                                                              | 217                                                                               | 1397                                                                              | 1781                                                                                | 3460                                                                                | 158                                                                                 | 1781                                                                                | 3530                                                                                | 99                                                                                  |
| Grp Volume(v), veh/h         | 58                                                                                | 0                                                                                 | 58                                                                                | 62                                                                                | 0                                                                                 | 186                                                                               | 45                                                                                  | 618                                                                                 | 641                                                                                 | 224                                                                                 | 625                                                                                 | 652                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1195                                                                              | 0                                                                                 | 1689                                                                              | 1342                                                                              | 0                                                                                 | 1614                                                                              | 1781                                                                                | 1777                                                                                | 1842                                                                                | 1781                                                                                | 1777                                                                                | 1852                                                                                |
| Q Serve(g_s), s              | 2.9                                                                               | 0.0                                                                               | 1.8                                                                               | 2.5                                                                               | 0.0                                                                               | 6.5                                                                               | 0.7                                                                                 | 16.7                                                                                | 16.8                                                                                | 3.5                                                                                 | 15.2                                                                                | 15.3                                                                                |
| Cycle Q Clear(g_c), s        | 9.4                                                                               | 0.0                                                                               | 1.8                                                                               | 4.3                                                                               | 0.0                                                                               | 6.5                                                                               | 0.7                                                                                 | 16.7                                                                                | 16.8                                                                                | 3.5                                                                                 | 15.2                                                                                | 15.3                                                                                |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 0.53                                                                              | 1.00                                                                              |                                                                                   | 0.87                                                                              | 1.00                                                                                |                                                                                     | 0.09                                                                                | 1.00                                                                                |                                                                                     | 0.05                                                                                |
| Lane Grp Cap(c), veh/h       | 221                                                                               | 0                                                                                 | 326                                                                               | 337                                                                               | 0                                                                                 | 311                                                                               | 323                                                                                 | 875                                                                                 | 907                                                                                 | 386                                                                                 | 969                                                                                 | 1010                                                                                |
| V/C Ratio(X)                 | 0.26                                                                              | 0.00                                                                              | 0.18                                                                              | 0.18                                                                              | 0.00                                                                              | 0.60                                                                              | 0.14                                                                                | 0.71                                                                                | 0.71                                                                                | 0.58                                                                                | 0.64                                                                                | 0.65                                                                                |
| Avail Cap(c_a), veh/h        | 465                                                                               | 0                                                                                 | 670                                                                               | 610                                                                               | 0                                                                                 | 640                                                                               | 404                                                                                 | 1737                                                                                | 1800                                                                                | 837                                                                                 | 2200                                                                                | 2293                                                                                |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 27.0                                                                              | 0.0                                                                               | 20.9                                                                              | 22.6                                                                              | 0.0                                                                               | 22.8                                                                              | 8.1                                                                                 | 12.2                                                                                | 12.2                                                                                | 10.5                                                                                | 9.9                                                                                 | 9.9                                                                                 |
| Incr Delay (d2), s/veh       | 0.6                                                                               | 0.0                                                                               | 0.3                                                                               | 0.3                                                                               | 0.0                                                                               | 1.8                                                                               | 0.2                                                                                 | 1.1                                                                                 | 1.0                                                                                 | 1.4                                                                                 | 0.7                                                                                 | 0.7                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.8                                                                               | 0.0                                                                               | 0.7                                                                               | 0.8                                                                               | 0.0                                                                               | 2.5                                                                               | 0.2                                                                                 | 5.8                                                                                 | 6.0                                                                                 | 1.2                                                                                 | 5.0                                                                                 | 5.2                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 27.7                                                                              | 0.0                                                                               | 21.1                                                                              | 22.9                                                                              | 0.0                                                                               | 24.6                                                                              | 8.3                                                                                 | 13.3                                                                                | 13.2                                                                                | 11.9                                                                                | 10.6                                                                                | 10.6                                                                                |
| LnGrp LOS                    | C                                                                                 | A                                                                                 | C                                                                                 | C                                                                                 | A                                                                                 | C                                                                                 | A                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 116                                                                               |                                                                                   |                                                                                   | 248                                                                               |                                                                                   |                                                                                     | 1304                                                                                |                                                                                     |                                                                                     | 1501                                                                                |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 24.4                                                                              |                                                                                   |                                                                                   | 24.2                                                                              |                                                                                   |                                                                                     | 13.1                                                                                |                                                                                     |                                                                                     | 10.8                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | C                                                                                 |                                                                                   |                                                                                   | C                                                                                 |                                                                                   |                                                                                     | B                                                                                   |                                                                                     |                                                                                     | B                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 10.5                                                                              | 34.9                                                                              |                                                                                   | 16.4                                                                              | 7.2                                                                               | 38.2                                                                              |                                                                                     | 16.4                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 21.6                                                                              | 60.4                                                                              |                                                                                   | 24.5                                                                              | 5.5                                                                               | 76.5                                                                              |                                                                                     | 24.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 5.5                                                                               | 18.8                                                                              |                                                                                   | 11.4                                                                              | 2.7                                                                               | 17.3                                                                              |                                                                                     | 8.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.6                                                                               | 11.7                                                                              |                                                                                   | 0.3                                                                               | 0.0                                                                               | 12.6                                                                              |                                                                                     | 1.1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 13.3 |
| HCM 6th LOS        | B    |

7C's Swim School (18-262)  
4: N Creek Dr & Heatherwood S Dwy

Existing Conditions  
PM Peak-Hour

Intersection

Int Delay, s/veh 1.4

| Movement                 | EBL                                                                               | EBR  | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR  |
|--------------------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Lane Configurations      |  |      |  |  |  |      |
| Traffic Vol, veh/h       | 16                                                                                | 13   | 15                                                                                | 100                                                                               | 128                                                                               | 22   |
| Future Vol, veh/h        | 16                                                                                | 13   | 15                                                                                | 100                                                                               | 128                                                                               | 22   |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 7                                                                                 | 0                                                                                 | 0                                                                                 | 7    |
| Sign Control             | Stop                                                                              | Stop | Free                                                                              | Free                                                                              | Free                                                                              | Free |
| RT Channelized           | -                                                                                 | None | -                                                                                 | None                                                                              | -                                                                                 | None |
| Storage Length           | 0                                                                                 | -    | 50                                                                                | -                                                                                 | -                                                                                 | -    |
| Veh in Median Storage, # | 1                                                                                 | -    | -                                                                                 | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -                                                                                 | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 92                                                                                | 92   | 92                                                                                | 92                                                                                | 92                                                                                | 92   |
| Heavy Vehicles, %        | 2                                                                                 | 2    | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2    |
| Mvmt Flow                | 17                                                                                | 14   | 16                                                                                | 109                                                                               | 139                                                                               | 24   |

| Major/Minor          | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 299    | 158    | 170    |
| Stage 1              | 158    | -      | -      |
| Stage 2              | 141    | -      | -      |
| Critical Hdwy        | 6.42   | 6.22   | 4.12   |
| Critical Hdwy Stg 1  | 5.42   | -      | -      |
| Critical Hdwy Stg 2  | 5.42   | -      | -      |
| Follow-up Hdwy       | 3.518  | 3.318  | 2.218  |
| Pot Cap-1 Maneuver   | 692    | 887    | 1407   |
| Stage 1              | 871    | -      | -      |
| Stage 2              | 886    | -      | -      |
| Platoon blocked, %   |        |        |        |
| Mov Cap-1 Maneuver   | 675    | 881    | 1398   |
| Mov Cap-2 Maneuver   | 700    | -      | -      |
| Stage 1              | 855    | -      | -      |
| Stage 2              | 880    | -      | -      |

| Approach             | EB  | NB | SB |
|----------------------|-----|----|----|
| HCM Control Delay, s | 9.9 | 1  | 0  |
| HCM LOS              | A   |    |    |

| Minor Lane/Major Mvmt | NBL   | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h)      | 1398  | -   | 771   | -   | -   |
| HCM Lane V/C Ratio    | 0.012 | -   | 0.041 | -   | -   |
| HCM Control Delay (s) | 7.6   | -   | 9.9   | -   | -   |
| HCM Lane LOS          | A     | -   | A     | -   | -   |
| HCM 95th %tile Q(veh) | 0     | -   | 0.1   | -   | -   |

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |                                                                                   |  |  |  |  |  |                                                                                     |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 16                                                                                | 519                                                                               | 147                                                                               | 42                                                                                | 388                                                                               | 28                                                                                | 106                                                                                 | 6                                                                                   | 29                                                                                  | 14                                                                                  | 4                                                                                   | 18                                                                                  |
| Future Volume (veh/h)        | 16                                                                                | 519                                                                               | 147                                                                               | 42                                                                                | 388                                                                               | 28                                                                                | 106                                                                                 | 6                                                                                   | 29                                                                                  | 14                                                                                  | 4                                                                                   | 18                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 0.97                                                                                |                                                                                     | 0.96                                                                                | 0.97                                                                                |                                                                                     | 0.96                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h         | 17                                                                                | 541                                                                               | 153                                                                               | 44                                                                                | 404                                                                               | 29                                                                                | 110                                                                                 | 6                                                                                   | 30                                                                                  | 15                                                                                  | 4                                                                                   | 19                                                                                  |
| Peak Hour Factor             | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                   | 700                                                                               | 949                                                                               | 268                                                                               | 504                                                                               | 1300                                                                              | 1100                                                                              | 249                                                                                 | 36                                                                                  | 180                                                                                 | 238                                                                                 | 38                                                                                  | 178                                                                                 |
| Arrive On Green              | 0.02                                                                              | 0.67                                                                              | 0.67                                                                              | 0.04                                                                              | 0.69                                                                              | 0.69                                                                              | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                |
| Sat Flow, veh/h              | 1795                                                                              | 1413                                                                              | 400                                                                               | 1795                                                                              | 1885                                                                              | 1594                                                                              | 1352                                                                                | 265                                                                                 | 1323                                                                                | 1338                                                                                | 276                                                                                 | 1313                                                                                |
| Grp Volume(v), veh/h         | 17                                                                                | 0                                                                                 | 694                                                                               | 44                                                                                | 404                                                                               | 29                                                                                | 110                                                                                 | 0                                                                                   | 36                                                                                  | 15                                                                                  | 0                                                                                   | 23                                                                                  |
| Grp Sat Flow(s),veh/h/ln     | 1795                                                                              | 0                                                                                 | 1812                                                                              | 1795                                                                              | 1885                                                                              | 1594                                                                              | 1352                                                                                | 0                                                                                   | 1587                                                                                | 1338                                                                                | 0                                                                                   | 1590                                                                                |
| Q Serve(g_s), s              | 0.3                                                                               | 0.0                                                                               | 17.8                                                                              | 0.6                                                                               | 7.4                                                                               | 0.5                                                                               | 6.8                                                                                 | 0.0                                                                                 | 1.7                                                                                 | 0.9                                                                                 | 0.0                                                                                 | 1.1                                                                                 |
| Cycle Q Clear(g_c), s        | 0.3                                                                               | 0.0                                                                               | 17.8                                                                              | 0.6                                                                               | 7.4                                                                               | 0.5                                                                               | 7.9                                                                                 | 0.0                                                                                 | 1.7                                                                                 | 2.6                                                                                 | 0.0                                                                                 | 1.1                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 0.22                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 0.83                                                                                | 1.00                                                                                |                                                                                     | 0.83                                                                                |
| Lane Grp Cap(c), veh/h       | 700                                                                               | 0                                                                                 | 1217                                                                              | 504                                                                               | 1300                                                                              | 1100                                                                              | 249                                                                                 | 0                                                                                   | 216                                                                                 | 238                                                                                 | 0                                                                                   | 216                                                                                 |
| V/C Ratio(X)                 | 0.02                                                                              | 0.00                                                                              | 0.57                                                                              | 0.09                                                                              | 0.31                                                                              | 0.03                                                                              | 0.44                                                                                | 0.00                                                                                | 0.17                                                                                | 0.06                                                                                | 0.00                                                                                | 0.11                                                                                |
| Avail Cap(c_a), veh/h        | 768                                                                               | 0                                                                                 | 1217                                                                              | 539                                                                               | 1300                                                                              | 1100                                                                              | 415                                                                                 | 0                                                                                   | 410                                                                                 | 401                                                                                 | 0                                                                                   | 411                                                                                 |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 4.4                                                                               | 0.0                                                                               | 7.6                                                                               | 5.7                                                                               | 5.3                                                                               | 4.3                                                                               | 36.5                                                                                | 0.0                                                                                 | 33.3                                                                                | 34.4                                                                                | 0.0                                                                                 | 33.0                                                                                |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 0.0                                                                               | 1.9                                                                               | 0.1                                                                               | 0.6                                                                               | 0.0                                                                               | 1.2                                                                                 | 0.0                                                                                 | 0.4                                                                                 | 0.1                                                                                 | 0.0                                                                                 | 0.2                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.1                                                                               | 0.0                                                                               | 6.4                                                                               | 0.2                                                                               | 2.6                                                                               | 0.2                                                                               | 2.3                                                                                 | 0.0                                                                                 | 0.7                                                                                 | 0.3                                                                                 | 0.0                                                                                 | 0.4                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 4.4                                                                               | 0.0                                                                               | 9.6                                                                               | 5.8                                                                               | 6.0                                                                               | 4.3                                                                               | 37.7                                                                                | 0.0                                                                                 | 33.6                                                                                | 34.5                                                                                | 0.0                                                                                 | 33.2                                                                                |
| LnGrp LOS                    | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | D                                                                                   | A                                                                                   | C                                                                                   | C                                                                                   | A                                                                                   | C                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 711                                                                               |                                                                                   |                                                                                   | 477                                                                               |                                                                                   |                                                                                     | 146                                                                                 |                                                                                     |                                                                                     | 38                                                                                  |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 9.4                                                                               |                                                                                   |                                                                                   | 5.8                                                                               |                                                                                   |                                                                                     | 36.7                                                                                |                                                                                     |                                                                                     | 33.7                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | A                                                                                 |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                     | D                                                                                   |                                                                                     |                                                                                     | C                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 6.2                                                                               | 64.6                                                                              |                                                                                   | 16.3                                                                              | 7.8                                                                               | 63.0                                                                              |                                                                                     | 16.3                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 5.0                                                                               | 58.5                                                                              |                                                                                   | 22.5                                                                              | 5.0                                                                               | 58.5                                                                              |                                                                                     | 22.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.3                                                                               | 9.4                                                                               |                                                                                   | 9.9                                                                               | 2.6                                                                               | 19.8                                                                              |                                                                                     | 4.6                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 2.9                                                                               |                                                                                   | 0.4                                                                               | 0.0                                                                               | 5.9                                                                               |                                                                                     | 0.1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

## Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 11.8 |
| HCM 6th LOS        | B    |

7C's Swim School (18-262)  
2: SR-527 & Dumas Rd

2023 Baseline Conditions  
PM Peak-Hour

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |                                                                                   |   |  |                                                                                     |  |  |  |
| Traffic Volume (veh/h)       | 79                                                                                | 62                                                                                | 424                                                                               | 53                                                                                | 34                                                                                | 37                                                                                | 358                                                                                 | 1104                                                                                | 75                                                                                  | 48                                                                                  | 1079                                                                                | 67                                                                                  |
| Future Volume (veh/h)        | 79                                                                                | 62                                                                                | 424                                                                               | 53                                                                                | 34                                                                                | 37                                                                                | 358                                                                                 | 1104                                                                                | 75                                                                                  | 48                                                                                  | 1079                                                                                | 67                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 0.99                                                                              |                                                                                   | 0.99                                                                              | 0.99                                                                              |                                                                                   | 0.99                                                                              | 1.00                                                                                |                                                                                     | 0.98                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h         | 81                                                                                | 64                                                                                | 437                                                                               | 55                                                                                | 35                                                                                | 38                                                                                | 369                                                                                 | 1138                                                                                | 77                                                                                  | 49                                                                                  | 1112                                                                                | 69                                                                                  |
| Peak Hour Factor             | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                   | 220                                                                               | 297                                                                               | 397                                                                               | 176                                                                               | 130                                                                               | 141                                                                               | 447                                                                                 | 2360                                                                                | 160                                                                                 | 372                                                                                 | 2178                                                                                | 135                                                                                 |
| Arrive On Green              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.09                                                                                | 0.69                                                                                | 0.69                                                                                | 0.03                                                                                | 0.64                                                                                | 0.64                                                                                |
| Sat Flow, veh/h              | 1326                                                                              | 1885                                                                              | 1579                                                                              | 900                                                                               | 821                                                                               | 891                                                                               | 1795                                                                                | 3399                                                                                | 230                                                                                 | 1795                                                                                | 3425                                                                                | 212                                                                                 |
| Grp Volume(v), veh/h         | 81                                                                                | 64                                                                                | 437                                                                               | 55                                                                                | 0                                                                                 | 73                                                                                | 369                                                                                 | 599                                                                                 | 616                                                                                 | 49                                                                                  | 581                                                                                 | 600                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1326                                                                              | 1885                                                                              | 1579                                                                              | 900                                                                               | 0                                                                                 | 1713                                                                              | 1795                                                                                | 1791                                                                                | 1837                                                                                | 1795                                                                                | 1791                                                                                | 1846                                                                                |
| Q Serve(g_s), s              | 6.8                                                                               | 3.5                                                                               | 18.7                                                                              | 6.7                                                                               | 0.0                                                                               | 4.4                                                                               | 7.8                                                                                 | 18.2                                                                                | 18.2                                                                                | 1.1                                                                                 | 20.7                                                                                | 20.8                                                                                |
| Cycle Q Clear(g_c), s        | 11.2                                                                              | 3.5                                                                               | 18.7                                                                              | 10.2                                                                              | 0.0                                                                               | 4.4                                                                               | 7.8                                                                                 | 18.2                                                                                | 18.2                                                                                | 1.1                                                                                 | 20.7                                                                                | 20.8                                                                                |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 0.52                                                                              | 1.00                                                                                |                                                                                     | 0.13                                                                                | 1.00                                                                                |                                                                                     | 0.12                                                                                |
| Lane Grp Cap(c), veh/h       | 220                                                                               | 297                                                                               | 397                                                                               | 176                                                                               | 0                                                                                 | 270                                                                               | 447                                                                                 | 1244                                                                                | 1276                                                                                | 372                                                                                 | 1139                                                                                | 1174                                                                                |
| V/C Ratio(X)                 | 0.37                                                                              | 0.22                                                                              | 1.10                                                                              | 0.31                                                                              | 0.00                                                                              | 0.27                                                                              | 0.83                                                                                | 0.48                                                                                | 0.48                                                                                | 0.13                                                                                | 0.51                                                                                | 0.51                                                                                |
| Avail Cap(c_a), veh/h        | 220                                                                               | 297                                                                               | 397                                                                               | 176                                                                               | 0                                                                                 | 270                                                                               | 789                                                                                 | 1244                                                                                | 1276                                                                                | 394                                                                                 | 1139                                                                                | 1174                                                                                |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 48.8                                                                              | 43.5                                                                              | 44.5                                                                              | 48.0                                                                              | 0.0                                                                               | 43.9                                                                              | 13.8                                                                                | 8.3                                                                                 | 8.3                                                                                 | 7.2                                                                                 | 11.6                                                                                | 11.6                                                                                |
| Incr Delay (d2), s/veh       | 1.0                                                                               | 0.4                                                                               | 75.5                                                                              | 1.0                                                                               | 0.0                                                                               | 0.5                                                                               | 3.9                                                                                 | 1.3                                                                                 | 1.3                                                                                 | 0.2                                                                                 | 1.6                                                                                 | 1.6                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 2.3                                                                               | 1.7                                                                               | 19.9                                                                              | 1.6                                                                               | 0.0                                                                               | 1.9                                                                               | 6.0                                                                                 | 6.9                                                                                 | 7.1                                                                                 | 0.4                                                                                 | 8.3                                                                                 | 8.6                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 49.9                                                                              | 43.9                                                                              | 120.0                                                                             | 49.0                                                                              | 0.0                                                                               | 44.4                                                                              | 17.7                                                                                | 9.6                                                                                 | 9.6                                                                                 | 7.4                                                                                 | 13.3                                                                                | 13.2                                                                                |
| LnGrp LOS                    | D                                                                                 | D                                                                                 | F                                                                                 | D                                                                                 | A                                                                                 | D                                                                                 | B                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | B                                                                                   | B                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 582                                                                               |                                                                                   |                                                                                   | 128                                                                               |                                                                                   |                                                                                     | 1584                                                                                |                                                                                     |                                                                                     | 1230                                                                                |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 101.9                                                                             |                                                                                   |                                                                                   | 46.4                                                                              |                                                                                   |                                                                                     | 11.5                                                                                |                                                                                     |                                                                                     | 13.0                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | F                                                                                 |                                                                                   |                                                                                   | D                                                                                 |                                                                                   |                                                                                     | B                                                                                   |                                                                                     |                                                                                     | B                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 8.5                                                                               | 86.8                                                                              |                                                                                   | 23.2                                                                              | 15.4                                                                              | 79.9                                                                              |                                                                                     | 23.2                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 5.5                                                                               | 82.3                                                                              |                                                                                   | 18.7                                                                              | 33.5                                                                              | 54.3                                                                              |                                                                                     | 18.7                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 3.1                                                                               | 20.2                                                                              |                                                                                   | 20.7                                                                              | 9.8                                                                               | 22.8                                                                              |                                                                                     | 12.2                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 11.6                                                                              |                                                                                   | 0.0                                                                               | 1.1                                                                               | 9.8                                                                               |                                                                                     | 0.3                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 28.2                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  |                                                                                   |                                                                                   | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

7C's Swim School (18-262)  
3: SR-527 & N Creek Dr/Trillium Blvd

2023 Baseline Conditions  
PM Peak-Hour

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |                                                                                   |  |  |                                                                                   |  |  |                                                                                     |  |  |  |
| Traffic Volume (veh/h)       | 60                                                                                | 28                                                                                | 33                                                                                | 64                                                                                | 26                                                                                | 167                                                                               | 47                                                                                  | 1253                                                                                | 57                                                                                  | 233                                                                                 | 1293                                                                                | 37                                                                                  |
| Future Volume (veh/h)        | 60                                                                                | 28                                                                                | 33                                                                                | 64                                                                                | 26                                                                                | 167                                                                               | 47                                                                                  | 1253                                                                                | 57                                                                                  | 233                                                                                 | 1293                                                                                | 37                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 0.98                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                |
| Adj Flow Rate, veh/h         | 61                                                                                | 28                                                                                | 33                                                                                | 65                                                                                | 26                                                                                | 169                                                                               | 47                                                                                  | 1266                                                                                | 58                                                                                  | 235                                                                                 | 1306                                                                                | 37                                                                                  |
| Peak Hour Factor             | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                |
| Percent Heavy Veh, %         | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   |
| Cap, veh/h                   | 211                                                                               | 153                                                                               | 180                                                                               | 332                                                                               | 43                                                                                | 276                                                                               | 306                                                                                 | 1744                                                                                | 80                                                                                  | 369                                                                                 | 1964                                                                                | 56                                                                                  |
| Arrive On Green              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.04                                                                                | 0.50                                                                                | 0.50                                                                                | 0.10                                                                                | 0.56                                                                                | 0.56                                                                                |
| Sat Flow, veh/h              | 1186                                                                              | 774                                                                               | 913                                                                               | 1338                                                                              | 215                                                                               | 1398                                                                              | 1781                                                                                | 3460                                                                                | 158                                                                                 | 1781                                                                                | 3529                                                                                | 100                                                                                 |
| Grp Volume(v), veh/h         | 61                                                                                | 0                                                                                 | 61                                                                                | 65                                                                                | 0                                                                                 | 195                                                                               | 47                                                                                  | 650                                                                                 | 674                                                                                 | 235                                                                                 | 657                                                                                 | 686                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1186                                                                              | 0                                                                                 | 1687                                                                              | 1338                                                                              | 0                                                                                 | 1614                                                                              | 1781                                                                                | 1777                                                                                | 1841                                                                                | 1781                                                                                | 1777                                                                                | 1852                                                                                |
| Q Serve(g_s), s              | 3.3                                                                               | 0.0                                                                               | 2.0                                                                               | 2.8                                                                               | 0.0                                                                               | 7.4                                                                               | 0.8                                                                                 | 19.1                                                                                | 19.1                                                                                | 3.9                                                                                 | 17.4                                                                                | 17.4                                                                                |
| Cycle Q Clear(g_c), s        | 10.7                                                                              | 0.0                                                                               | 2.0                                                                               | 4.8                                                                               | 0.0                                                                               | 7.4                                                                               | 0.8                                                                                 | 19.1                                                                                | 19.1                                                                                | 3.9                                                                                 | 17.4                                                                                | 17.4                                                                                |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 0.54                                                                              | 1.00                                                                              |                                                                                   | 0.87                                                                              | 1.00                                                                                |                                                                                     | 0.09                                                                                | 1.00                                                                                |                                                                                     | 0.05                                                                                |
| Lane Grp Cap(c), veh/h       | 211                                                                               | 0                                                                                 | 333                                                                               | 332                                                                               | 0                                                                                 | 319                                                                               | 306                                                                                 | 896                                                                                 | 928                                                                                 | 369                                                                                 | 989                                                                                 | 1031                                                                                |
| V/C Ratio(X)                 | 0.29                                                                              | 0.00                                                                              | 0.18                                                                              | 0.20                                                                              | 0.00                                                                              | 0.61                                                                              | 0.15                                                                                | 0.73                                                                                | 0.73                                                                                | 0.64                                                                                | 0.66                                                                                | 0.67                                                                                |
| Avail Cap(c_a), veh/h        | 413                                                                               | 0                                                                                 | 620                                                                               | 559                                                                               | 0                                                                                 | 593                                                                               | 375                                                                                 | 1609                                                                                | 1668                                                                                | 775                                                                                 | 2038                                                                                | 2124                                                                                |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 29.3                                                                              | 0.0                                                                               | 22.3                                                                              | 24.3                                                                              | 0.0                                                                               | 24.4                                                                              | 8.6                                                                                 | 12.9                                                                                | 12.9                                                                                | 11.9                                                                                | 10.4                                                                                | 10.4                                                                                |
| Incr Delay (d2), s/veh       | 0.7                                                                               | 0.0                                                                               | 0.3                                                                               | 0.3                                                                               | 0.0                                                                               | 1.9                                                                               | 0.2                                                                                 | 1.1                                                                                 | 1.1                                                                                 | 1.8                                                                                 | 0.8                                                                                 | 0.7                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.9                                                                               | 0.0                                                                               | 0.8                                                                               | 0.9                                                                               | 0.0                                                                               | 2.8                                                                               | 0.3                                                                                 | 6.7                                                                                 | 7.0                                                                                 | 1.7                                                                                 | 5.8                                                                                 | 6.0                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 30.0                                                                              | 0.0                                                                               | 22.5                                                                              | 24.6                                                                              | 0.0                                                                               | 26.3                                                                              | 8.9                                                                                 | 14.1                                                                                | 14.0                                                                                | 13.7                                                                                | 11.2                                                                                | 11.2                                                                                |
| LnGrp LOS                    | C                                                                                 | A                                                                                 | C                                                                                 | C                                                                                 | A                                                                                 | C                                                                                 | A                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 122                                                                               |                                                                                   |                                                                                   | 260                                                                               |                                                                                   |                                                                                     | 1371                                                                                |                                                                                     |                                                                                     | 1578                                                                                |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 26.3                                                                              |                                                                                   |                                                                                   | 25.9                                                                              |                                                                                   |                                                                                     | 13.9                                                                                |                                                                                     |                                                                                     | 11.6                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | C                                                                                 |                                                                                   |                                                                                   | C                                                                                 |                                                                                   |                                                                                     | B                                                                                   |                                                                                     |                                                                                     | B                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 10.9                                                                              | 38.1                                                                              |                                                                                   | 17.7                                                                              | 7.4                                                                               | 41.6                                                                              |                                                                                     | 17.7                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 21.6                                                                              | 60.4                                                                              |                                                                                   | 24.5                                                                              | 5.5                                                                               | 76.5                                                                              |                                                                                     | 24.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 5.9                                                                               | 21.1                                                                              |                                                                                   | 12.7                                                                              | 2.8                                                                               | 19.4                                                                              |                                                                                     | 9.4                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.6                                                                               | 12.5                                                                              |                                                                                   | 0.3                                                                               | 0.0                                                                               | 13.8                                                                              |                                                                                     | 1.2                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 14.2                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  |                                                                                   |                                                                                   | B                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

7C's Swim School (18-262)  
4: N Creek Dr & Heatherwood S Dwy

2023 Baseline Conditions  
PM Peak-Hour

Intersection

Int Delay, s/veh 1.4

| Movement                 | EBL                                                                               | EBR  | NBL                                                                               | NBT                                                                               | SBT                                                                               | SBR  |
|--------------------------|-----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|
| Lane Configurations      |  |      |  |  |  |      |
| Traffic Vol, veh/h       | 17                                                                                | 14   | 16                                                                                | 105                                                                               | 135                                                                               | 23   |
| Future Vol, veh/h        | 17                                                                                | 14   | 16                                                                                | 105                                                                               | 135                                                                               | 23   |
| Conflicting Peds, #/hr   | 0                                                                                 | 0    | 7                                                                                 | 0                                                                                 | 0                                                                                 | 7    |
| Sign Control             | Stop                                                                              | Stop | Free                                                                              | Free                                                                              | Free                                                                              | Free |
| RT Channelized           | -                                                                                 | None | -                                                                                 | None                                                                              | -                                                                                 | None |
| Storage Length           | 0                                                                                 | -    | 50                                                                                | -                                                                                 | -                                                                                 | -    |
| Veh in Median Storage, # | 1                                                                                 | -    | -                                                                                 | 0                                                                                 | 0                                                                                 | -    |
| Grade, %                 | 0                                                                                 | -    | -                                                                                 | 0                                                                                 | 0                                                                                 | -    |
| Peak Hour Factor         | 92                                                                                | 92   | 92                                                                                | 92                                                                                | 92                                                                                | 92   |
| Heavy Vehicles, %        | 2                                                                                 | 2    | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2    |
| Mvmt Flow                | 18                                                                                | 15   | 17                                                                                | 114                                                                               | 147                                                                               | 25   |

| Major/Minor          | Minor2 | Major1 | Major2 |
|----------------------|--------|--------|--------|
| Conflicting Flow All | 315    | 167    | 179    |
| Stage 1              | 167    | -      | -      |
| Stage 2              | 148    | -      | -      |
| Critical Hdwy        | 6.42   | 6.22   | 4.12   |
| Critical Hdwy Stg 1  | 5.42   | -      | -      |
| Critical Hdwy Stg 2  | 5.42   | -      | -      |
| Follow-up Hdwy       | 3.518  | 3.318  | 2.218  |
| Pot Cap-1 Maneuver   | 678    | 877    | 1397   |
| Stage 1              | 863    | -      | -      |
| Stage 2              | 880    | -      | -      |
| Platoon blocked, %   |        |        |        |
| Mov Cap-1 Maneuver   | 660    | 871    | 1388   |
| Mov Cap-2 Maneuver   | 690    | -      | -      |
| Stage 1              | 847    | -      | -      |
| Stage 2              | 874    | -      | -      |

| Approach             | EB | NB | SB |
|----------------------|----|----|----|
| HCM Control Delay, s | 10 | 1  | 0  |
| HCM LOS              | B  |    |    |

| Minor Lane/Major Mvmt | NBL   | NBT | EBLn1 | SBT | SBR |
|-----------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h)      | 1388  | -   | 761   | -   | -   |
| HCM Lane V/C Ratio    | 0.013 | -   | 0.044 | -   | -   |
| HCM Control Delay (s) | 7.6   | -   | 10    | -   | -   |
| HCM Lane LOS          | A     | -   | B     | -   | -   |
| HCM 95th %tile Q(veh) | 0     | -   | 0.1   | -   | -   |

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |                                                                                   |  |  |  |  |  |                                                                                     |  |  |                                                                                     |
| Traffic Volume (veh/h)       | 16                                                                                | 519                                                                               | 153                                                                               | 52                                                                                | 388                                                                               | 28                                                                                | 112                                                                                 | 6                                                                                   | 39                                                                                  | 14                                                                                  | 4                                                                                   | 18                                                                                  |
| Future Volume (veh/h)        | 16                                                                                | 519                                                                               | 153                                                                               | 52                                                                                | 388                                                                               | 28                                                                                | 112                                                                                 | 6                                                                                   | 39                                                                                  | 14                                                                                  | 4                                                                                   | 18                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 0.97                                                                                |                                                                                     | 0.96                                                                                | 0.97                                                                                |                                                                                     | 0.96                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h         | 17                                                                                | 541                                                                               | 159                                                                               | 54                                                                                | 404                                                                               | 29                                                                                | 117                                                                                 | 6                                                                                   | 41                                                                                  | 15                                                                                  | 4                                                                                   | 19                                                                                  |
| Peak Hour Factor             | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                              | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                | 0.96                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                   | 696                                                                               | 930                                                                               | 273                                                                               | 498                                                                               | 1295                                                                              | 1095                                                                              | 254                                                                                 | 28                                                                                  | 193                                                                                 | 233                                                                                 | 39                                                                                  | 184                                                                                 |
| Arrive On Green              | 0.02                                                                              | 0.66                                                                              | 0.66                                                                              | 0.04                                                                              | 0.69                                                                              | 0.69                                                                              | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                | 0.14                                                                                |
| Sat Flow, veh/h              | 1795                                                                              | 1399                                                                              | 411                                                                               | 1795                                                                              | 1885                                                                              | 1594                                                                              | 1353                                                                                | 201                                                                                 | 1376                                                                                | 1328                                                                                | 277                                                                                 | 1314                                                                                |
| Grp Volume(v), veh/h         | 17                                                                                | 0                                                                                 | 700                                                                               | 54                                                                                | 404                                                                               | 29                                                                                | 117                                                                                 | 0                                                                                   | 47                                                                                  | 15                                                                                  | 0                                                                                   | 23                                                                                  |
| Grp Sat Flow(s),veh/h/ln     | 1795                                                                              | 0                                                                                 | 1810                                                                              | 1795                                                                              | 1885                                                                              | 1594                                                                              | 1353                                                                                | 0                                                                                   | 1577                                                                                | 1328                                                                                | 0                                                                                   | 1591                                                                                |
| Q Serve(g_s), s              | 0.3                                                                               | 0.0                                                                               | 18.6                                                                              | 0.8                                                                               | 7.5                                                                               | 0.5                                                                               | 7.3                                                                                 | 0.0                                                                                 | 2.3                                                                                 | 0.9                                                                                 | 0.0                                                                                 | 1.1                                                                                 |
| Cycle Q Clear(g_c), s        | 0.3                                                                               | 0.0                                                                               | 18.6                                                                              | 0.8                                                                               | 7.5                                                                               | 0.5                                                                               | 8.4                                                                                 | 0.0                                                                                 | 2.3                                                                                 | 3.2                                                                                 | 0.0                                                                                 | 1.1                                                                                 |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 0.23                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 0.87                                                                                | 1.00                                                                                |                                                                                     | 0.83                                                                                |
| Lane Grp Cap(c), veh/h       | 696                                                                               | 0                                                                                 | 1203                                                                              | 498                                                                               | 1295                                                                              | 1095                                                                              | 254                                                                                 | 0                                                                                   | 221                                                                                 | 233                                                                                 | 0                                                                                   | 223                                                                                 |
| V/C Ratio(X)                 | 0.02                                                                              | 0.00                                                                              | 0.58                                                                              | 0.11                                                                              | 0.31                                                                              | 0.03                                                                              | 0.46                                                                                | 0.00                                                                                | 0.21                                                                                | 0.06                                                                                | 0.00                                                                                | 0.10                                                                                |
| Avail Cap(c_a), veh/h        | 763                                                                               | 0                                                                                 | 1203                                                                              | 525                                                                               | 1295                                                                              | 1095                                                                              | 411                                                                                 | 0                                                                                   | 403                                                                                 | 386                                                                                 | 0                                                                                   | 407                                                                                 |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 0.00                                                                                | 1.00                                                                                | 1.00                                                                                | 0.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 4.6                                                                               | 0.0                                                                               | 8.1                                                                               | 6.0                                                                               | 5.5                                                                               | 4.4                                                                               | 36.7                                                                                | 0.0                                                                                 | 33.5                                                                                | 35.0                                                                                | 0.0                                                                                 | 33.0                                                                                |
| Incr Delay (d2), s/veh       | 0.0                                                                               | 0.0                                                                               | 2.1                                                                               | 0.1                                                                               | 0.6                                                                               | 0.0                                                                               | 1.3                                                                                 | 0.0                                                                                 | 0.5                                                                                 | 0.1                                                                                 | 0.0                                                                                 | 0.2                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 0.1                                                                               | 0.0                                                                               | 6.7                                                                               | 0.2                                                                               | 2.7                                                                               | 0.2                                                                               | 2.5                                                                                 | 0.0                                                                                 | 0.9                                                                                 | 0.3                                                                                 | 0.0                                                                                 | 0.4                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 4.6                                                                               | 0.0                                                                               | 10.1                                                                              | 6.1                                                                               | 6.1                                                                               | 4.4                                                                               | 38.0                                                                                | 0.0                                                                                 | 34.0                                                                                | 35.1                                                                                | 0.0                                                                                 | 33.2                                                                                |
| LnGrp LOS                    | A                                                                                 | A                                                                                 | B                                                                                 | A                                                                                 | A                                                                                 | A                                                                                 | D                                                                                   | A                                                                                   | C                                                                                   | D                                                                                   | A                                                                                   | C                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 717                                                                               |                                                                                   |                                                                                   | 487                                                                               |                                                                                   |                                                                                     | 164                                                                                 |                                                                                     |                                                                                     | 38                                                                                  |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 10.0                                                                              |                                                                                   |                                                                                   | 6.0                                                                               |                                                                                   |                                                                                     | 36.8                                                                                |                                                                                     |                                                                                     | 33.9                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | A                                                                                 |                                                                                   |                                                                                   | A                                                                                 |                                                                                   |                                                                                     | D                                                                                   |                                                                                     |                                                                                     | C                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 6.2                                                                               | 65.0                                                                              |                                                                                   | 16.8                                                                              | 8.2                                                                               | 63.0                                                                              |                                                                                     | 16.8                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 5.0                                                                               | 58.5                                                                              |                                                                                   | 22.5                                                                              | 5.0                                                                               | 58.5                                                                              |                                                                                     | 22.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 2.3                                                                               | 9.5                                                                               |                                                                                   | 10.4                                                                              | 2.8                                                                               | 20.6                                                                              |                                                                                     | 5.2                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 2.9                                                                               |                                                                                   | 0.4                                                                               | 0.0                                                                               | 6.0                                                                               |                                                                                     | 0.1                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

## Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 12.4 |
| HCM 6th LOS        | B    |

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |  |  |  |                                                                                   |   |  |                                                                                     |  |  |  |
| Traffic Volume (veh/h)       | 88                                                                                | 63                                                                                | 424                                                                               | 53                                                                                | 35                                                                                | 37                                                                                | 358                                                                                 | 1104                                                                                | 75                                                                                  | 48                                                                                  | 1079                                                                                | 76                                                                                  |
| Future Volume (veh/h)        | 88                                                                                | 63                                                                                | 424                                                                               | 53                                                                                | 35                                                                                | 37                                                                                | 358                                                                                 | 1104                                                                                | 75                                                                                  | 48                                                                                  | 1079                                                                                | 76                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 0.99                                                                              |                                                                                   | 0.99                                                                              | 0.99                                                                              |                                                                                   | 0.99                                                                              | 1.00                                                                                |                                                                                     | 0.98                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                              | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                | 1885                                                                                |
| Adj Flow Rate, veh/h         | 91                                                                                | 65                                                                                | 437                                                                               | 55                                                                                | 36                                                                                | 38                                                                                | 369                                                                                 | 1138                                                                                | 77                                                                                  | 49                                                                                  | 1112                                                                                | 78                                                                                  |
| Peak Hour Factor             | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                              | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                | 0.97                                                                                |
| Percent Heavy Veh, %         | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                 | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   | 1                                                                                   |
| Cap, veh/h                   | 219                                                                               | 297                                                                               | 397                                                                               | 176                                                                               | 132                                                                               | 139                                                                               | 444                                                                                 | 2360                                                                                | 160                                                                                 | 372                                                                                 | 2159                                                                                | 151                                                                                 |
| Arrive On Green              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.16                                                                              | 0.09                                                                                | 0.69                                                                                | 0.69                                                                                | 0.03                                                                                | 0.64                                                                                | 0.64                                                                                |
| Sat Flow, veh/h              | 1324                                                                              | 1885                                                                              | 1579                                                                              | 899                                                                               | 834                                                                               | 881                                                                               | 1795                                                                                | 3399                                                                                | 230                                                                                 | 1795                                                                                | 3394                                                                                | 238                                                                                 |
| Grp Volume(v), veh/h         | 91                                                                                | 65                                                                                | 437                                                                               | 55                                                                                | 0                                                                                 | 74                                                                                | 369                                                                                 | 599                                                                                 | 616                                                                                 | 49                                                                                  | 586                                                                                 | 604                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1324                                                                              | 1885                                                                              | 1579                                                                              | 899                                                                               | 0                                                                                 | 1715                                                                              | 1795                                                                                | 1791                                                                                | 1837                                                                                | 1795                                                                                | 1791                                                                                | 1841                                                                                |
| Q Serve(g_s), s              | 7.7                                                                               | 3.6                                                                               | 18.7                                                                              | 6.7                                                                               | 0.0                                                                               | 4.5                                                                               | 7.8                                                                                 | 18.2                                                                                | 18.2                                                                                | 1.1                                                                                 | 21.0                                                                                | 21.0                                                                                |
| Cycle Q Clear(g_c), s        | 12.2                                                                              | 3.6                                                                               | 18.7                                                                              | 10.3                                                                              | 0.0                                                                               | 4.5                                                                               | 7.8                                                                                 | 18.2                                                                                | 18.2                                                                                | 1.1                                                                                 | 21.0                                                                                | 21.0                                                                                |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                              |                                                                                   | 0.51                                                                              | 1.00                                                                                |                                                                                     | 0.13                                                                                | 1.00                                                                                |                                                                                     | 0.13                                                                                |
| Lane Grp Cap(c), veh/h       | 219                                                                               | 297                                                                               | 397                                                                               | 176                                                                               | 0                                                                                 | 271                                                                               | 444                                                                                 | 1244                                                                                | 1276                                                                                | 372                                                                                 | 1139                                                                                | 1171                                                                                |
| V/C Ratio(X)                 | 0.41                                                                              | 0.22                                                                              | 1.10                                                                              | 0.31                                                                              | 0.00                                                                              | 0.27                                                                              | 0.83                                                                                | 0.48                                                                                | 0.48                                                                                | 0.13                                                                                | 0.51                                                                                | 0.52                                                                                |
| Avail Cap(c_a), veh/h        | 219                                                                               | 297                                                                               | 397                                                                               | 176                                                                               | 0                                                                                 | 271                                                                               | 786                                                                                 | 1244                                                                                | 1276                                                                                | 394                                                                                 | 1139                                                                                | 1171                                                                                |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 49.3                                                                              | 43.5                                                                              | 44.5                                                                              | 48.0                                                                              | 0.0                                                                               | 43.9                                                                              | 14.1                                                                                | 8.3                                                                                 | 8.3                                                                                 | 7.2                                                                                 | 11.7                                                                                | 11.7                                                                                |
| Incr Delay (d2), s/veh       | 1.2                                                                               | 0.4                                                                               | 75.5                                                                              | 1.0                                                                               | 0.0                                                                               | 0.5                                                                               | 4.1                                                                                 | 1.3                                                                                 | 1.3                                                                                 | 0.2                                                                                 | 1.7                                                                                 | 1.6                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 2.6                                                                               | 1.7                                                                               | 19.9                                                                              | 1.6                                                                               | 0.0                                                                               | 2.0                                                                               | 6.4                                                                                 | 6.9                                                                                 | 7.1                                                                                 | 0.4                                                                                 | 8.5                                                                                 | 8.7                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 50.5                                                                              | 43.9                                                                              | 120.0                                                                             | 49.0                                                                              | 0.0                                                                               | 44.5                                                                              | 18.2                                                                                | 9.6                                                                                 | 9.6                                                                                 | 7.4                                                                                 | 13.3                                                                                | 13.3                                                                                |
| LnGrp LOS                    | D                                                                                 | D                                                                                 | F                                                                                 | D                                                                                 | A                                                                                 | D                                                                                 | B                                                                                   | A                                                                                   | A                                                                                   | A                                                                                   | B                                                                                   | B                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 593                                                                               |                                                                                   |                                                                                   | 129                                                                               |                                                                                   |                                                                                     | 1584                                                                                |                                                                                     |                                                                                     | 1239                                                                                |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 101.0                                                                             |                                                                                   |                                                                                   | 46.4                                                                              |                                                                                   |                                                                                     | 11.6                                                                                |                                                                                     |                                                                                     | 13.1                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | F                                                                                 |                                                                                   |                                                                                   | D                                                                                 |                                                                                   |                                                                                     | B                                                                                   |                                                                                     |                                                                                     | B                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 8.5                                                                               | 86.8                                                                              |                                                                                   | 23.2                                                                              | 15.4                                                                              | 79.9                                                                              |                                                                                     | 23.2                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 5.5                                                                               | 82.3                                                                              |                                                                                   | 18.7                                                                              | 33.5                                                                              | 54.3                                                                              |                                                                                     | 18.7                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 3.1                                                                               | 20.2                                                                              |                                                                                   | 20.7                                                                              | 9.8                                                                               | 23.0                                                                              |                                                                                     | 12.3                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.0                                                                               | 11.6                                                                              |                                                                                   | 0.0                                                                               | 1.1                                                                               | 9.9                                                                               |                                                                                     | 0.3                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Intersection Summary         |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th Ctrl Delay           |                                                                                   |                                                                                   | 28.4                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| HCM 6th LOS                  |                                                                                   |                                                                                   | C                                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

7C's Swim School (18-262)  
3: SR-527 & N Creek Dr/Trillium Blvd

2023 Future with Development Conditions

PM Peak-Hour

|                              |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Movement                     | EBL                                                                               | EBT                                                                               | EBR                                                                               | WBL                                                                               | WBT                                                                               | WBR                                                                               | NBL                                                                                 | NBT                                                                                 | NBR                                                                                 | SBL                                                                                 | SBT                                                                                 | SBR                                                                                 |
| Lane Configurations          |  |  |                                                                                   |  |  |                                                                                   |  |  |                                                                                     |  |  |  |
| Traffic Volume (veh/h)       | 60                                                                                | 30                                                                                | 43                                                                                | 64                                                                                | 28                                                                                | 167                                                                               | 57                                                                                  | 1253                                                                                | 57                                                                                  | 233                                                                                 | 1293                                                                                | 37                                                                                  |
| Future Volume (veh/h)        | 60                                                                                | 30                                                                                | 43                                                                                | 64                                                                                | 28                                                                                | 167                                                                               | 57                                                                                  | 1253                                                                                | 57                                                                                  | 233                                                                                 | 1293                                                                                | 37                                                                                  |
| Initial Q (Qb), veh          | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                 | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   | 0                                                                                   |
| Ped-Bike Adj(A_pbT)          | 1.00                                                                              |                                                                                   | 0.98                                                                              | 1.00                                                                              |                                                                                   | 1.00                                                                              | 1.00                                                                                |                                                                                     | 1.00                                                                                | 1.00                                                                                |                                                                                     | 1.00                                                                                |
| Parking Bus, Adj             | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Work Zone On Approach        |                                                                                   | No                                                                                |                                                                                   |                                                                                   | No                                                                                |                                                                                   |                                                                                     | No                                                                                  |                                                                                     |                                                                                     | No                                                                                  |                                                                                     |
| Adj Sat Flow, veh/h/ln       | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                              | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                | 1870                                                                                |
| Adj Flow Rate, veh/h         | 61                                                                                | 30                                                                                | 43                                                                                | 65                                                                                | 28                                                                                | 169                                                                               | 58                                                                                  | 1266                                                                                | 58                                                                                  | 235                                                                                 | 1306                                                                                | 37                                                                                  |
| Peak Hour Factor             | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                              | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                | 0.99                                                                                |
| Percent Heavy Veh, %         | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                 | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   | 2                                                                                   |
| Cap, veh/h                   | 211                                                                               | 137                                                                               | 196                                                                               | 322                                                                               | 46                                                                                | 276                                                                               | 311                                                                                 | 1741                                                                                | 80                                                                                  | 369                                                                                 | 1943                                                                                | 55                                                                                  |
| Arrive On Green              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.20                                                                              | 0.05                                                                                | 0.50                                                                                | 0.50                                                                                | 0.10                                                                                | 0.55                                                                                | 0.55                                                                                |
| Sat Flow, veh/h              | 1184                                                                              | 687                                                                               | 985                                                                               | 1324                                                                              | 230                                                                               | 1386                                                                              | 1781                                                                                | 3460                                                                                | 158                                                                                 | 1781                                                                                | 3529                                                                                | 100                                                                                 |
| Grp Volume(v), veh/h         | 61                                                                                | 0                                                                                 | 73                                                                                | 65                                                                                | 0                                                                                 | 197                                                                               | 58                                                                                  | 650                                                                                 | 674                                                                                 | 235                                                                                 | 657                                                                                 | 686                                                                                 |
| Grp Sat Flow(s),veh/h/ln     | 1184                                                                              | 0                                                                                 | 1673                                                                              | 1324                                                                              | 0                                                                                 | 1616                                                                              | 1781                                                                                | 1777                                                                                | 1841                                                                                | 1781                                                                                | 1777                                                                                | 1852                                                                                |
| Q Serve(g_s), s              | 3.3                                                                               | 0.0                                                                               | 2.5                                                                               | 2.9                                                                               | 0.0                                                                               | 7.5                                                                               | 1.0                                                                                 | 19.2                                                                                | 19.3                                                                                | 4.0                                                                                 | 17.7                                                                                | 17.7                                                                                |
| Cycle Q Clear(g_c), s        | 10.8                                                                              | 0.0                                                                               | 2.5                                                                               | 5.4                                                                               | 0.0                                                                               | 7.5                                                                               | 1.0                                                                                 | 19.2                                                                                | 19.3                                                                                | 4.0                                                                                 | 17.7                                                                                | 17.7                                                                                |
| Prop In Lane                 | 1.00                                                                              |                                                                                   | 0.59                                                                              | 1.00                                                                              |                                                                                   | 0.86                                                                              | 1.00                                                                                |                                                                                     | 0.09                                                                                | 1.00                                                                                |                                                                                     | 0.05                                                                                |
| Lane Grp Cap(c), veh/h       | 211                                                                               | 0                                                                                 | 333                                                                               | 322                                                                               | 0                                                                                 | 322                                                                               | 311                                                                                 | 894                                                                                 | 926                                                                                 | 369                                                                                 | 978                                                                                 | 1020                                                                                |
| V/C Ratio(X)                 | 0.29                                                                              | 0.00                                                                              | 0.22                                                                              | 0.20                                                                              | 0.00                                                                              | 0.61                                                                              | 0.19                                                                                | 0.73                                                                                | 0.73                                                                                | 0.64                                                                                | 0.67                                                                                | 0.67                                                                                |
| Avail Cap(c_a), veh/h        | 408                                                                               | 0                                                                                 | 611                                                                               | 542                                                                               | 0                                                                                 | 590                                                                               | 370                                                                                 | 1600                                                                                | 1658                                                                                | 770                                                                                 | 2026                                                                                | 2112                                                                                |
| HCM Platoon Ratio            | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Upstream Filter(I)           | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                              | 0.00                                                                              | 1.00                                                                              | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                | 1.00                                                                                |
| Uniform Delay (d), s/veh     | 29.4                                                                              | 0.0                                                                               | 22.5                                                                              | 24.7                                                                              | 0.0                                                                               | 24.5                                                                              | 8.8                                                                                 | 13.1                                                                                | 13.1                                                                                | 12.0                                                                                | 10.8                                                                                | 10.8                                                                                |
| Incr Delay (d2), s/veh       | 0.7                                                                               | 0.0                                                                               | 0.3                                                                               | 0.3                                                                               | 0.0                                                                               | 1.9                                                                               | 0.3                                                                                 | 1.1                                                                                 | 1.1                                                                                 | 1.8                                                                                 | 0.8                                                                                 | 0.8                                                                                 |
| Initial Q Delay(d3),s/veh    | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                               | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 | 0.0                                                                                 |
| %ile BackOfQ(50%),veh/ln     | 1.0                                                                               | 0.0                                                                               | 0.9                                                                               | 0.9                                                                               | 0.0                                                                               | 2.9                                                                               | 0.3                                                                                 | 6.8                                                                                 | 7.1                                                                                 | 1.6                                                                                 | 6.0                                                                                 | 6.2                                                                                 |
| Unsig. Movement Delay, s/veh |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| LnGrp Delay(d),s/veh         | 30.2                                                                              | 0.0                                                                               | 22.8                                                                              | 25.0                                                                              | 0.0                                                                               | 26.4                                                                              | 9.1                                                                                 | 14.2                                                                                | 14.2                                                                                | 13.8                                                                                | 11.6                                                                                | 11.5                                                                                |
| LnGrp LOS                    | C                                                                                 | A                                                                                 | C                                                                                 | C                                                                                 | A                                                                                 | C                                                                                 | A                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   | B                                                                                   |
| Approach Vol, veh/h          |                                                                                   | 134                                                                               |                                                                                   |                                                                                   | 262                                                                               |                                                                                   |                                                                                     | 1382                                                                                |                                                                                     |                                                                                     | 1578                                                                                |                                                                                     |
| Approach Delay, s/veh        |                                                                                   | 26.2                                                                              |                                                                                   |                                                                                   | 26.1                                                                              |                                                                                   |                                                                                     | 14.0                                                                                |                                                                                     |                                                                                     | 11.9                                                                                |                                                                                     |
| Approach LOS                 |                                                                                   | C                                                                                 |                                                                                   |                                                                                   | C                                                                                 |                                                                                   |                                                                                     | B                                                                                   |                                                                                     |                                                                                     | B                                                                                   |                                                                                     |
| Timer - Assigned Phs         | 1                                                                                 | 2                                                                                 |                                                                                   | 4                                                                                 | 5                                                                                 | 6                                                                                 |                                                                                     | 8                                                                                   |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Phs Duration (G+Y+Rc), s     | 11.0                                                                              | 38.3                                                                              |                                                                                   | 17.9                                                                              | 7.8                                                                               | 41.4                                                                              |                                                                                     | 17.9                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Change Period (Y+Rc), s      | 4.5                                                                               | 4.5                                                                               |                                                                                   | 4.5                                                                               | 4.5                                                                               | 4.5                                                                               |                                                                                     | 4.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Green Setting (Gmax), s  | 21.6                                                                              | 60.4                                                                              |                                                                                   | 24.5                                                                              | 5.5                                                                               | 76.5                                                                              |                                                                                     | 24.5                                                                                |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Max Q Clear Time (g_c+I1), s | 6.0                                                                               | 21.3                                                                              |                                                                                   | 12.8                                                                              | 3.0                                                                               | 19.7                                                                              |                                                                                     | 9.5                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
| Green Ext Time (p_c), s      | 0.6                                                                               | 12.5                                                                              |                                                                                   | 0.4                                                                               | 0.0                                                                               | 13.8                                                                              |                                                                                     | 1.2                                                                                 |                                                                                     |                                                                                     |                                                                                     |                                                                                     |

Intersection Summary

|                    |      |
|--------------------|------|
| HCM 6th Ctrl Delay | 14.4 |
| HCM 6th LOS        | B    |

7C's Swim School (18-262)  
4: N Creek Dr & Heatherwood S Dwy/Site Access

2023 Future with Development Conditions  
PM Peak-Hour

|                          |        |                                                                                   |        |       |                                                                                   |       |                                                                                   |                                                                                   |      |                                                                                     |                                                                                     |      |
|--------------------------|--------|-----------------------------------------------------------------------------------|--------|-------|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|
| 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       | 17     | 0                                                                                 | 14     | 12    | 0                                                                                 | 16    | 16                                                                                | 105                                                                               | 12   | 16                                                                                  | 135                                                                                 | 23   |
| Future Vol, veh/h        | 17     | 0                                                                                 | 14     | 12    | 0                                                                                 | 16    | 16                                                                                | 105                                                                               | 12   | 16                                                                                  | 135                                                                                 | 23   |
| Conflicting Peds, #/hr   | 0      | 0                                                                                 | 0      | 0     | 0                                                                                 | 0     | 7                                                                                 | 0                                                                                 | 0    | 0                                                                                   | 0                                                                                   | 7    |
| Sign Control             | Stop   | Stop                                                                              | Stop   | Stop  | Stop                                                                              | Stop  | Free                                                                              | Free                                                                              | Free | Free                                                                                | Free                                                                                | Free |
| RT Channelized           | -      | -                                                                                 | None   | -     | -                                                                                 | None  | -                                                                                 | -                                                                                 | None | -                                                                                   | -                                                                                   | None |
| Storage Length           | -      | -                                                                                 | -      | -     | -                                                                                 | -     | 50                                                                                | -                                                                                 | -    | 50                                                                                  | -                                                                                   | -    |
| Veh in Median Storage, # | -      | 1                                                                                 | -      | -     | 1                                                                                 | -     | -                                                                                 | 0                                                                                 | -    | -                                                                                   | 0                                                                                   | -    |
| Grade, %                 | -      | 0                                                                                 | -      | -     | 0                                                                                 | -     | -                                                                                 | 0                                                                                 | -    | -                                                                                   | 0                                                                                   | -    |
| Peak Hour Factor         | 92     | 92                                                                                | 92     | 92    | 92                                                                                | 92    | 92                                                                                | 92                                                                                | 92   | 92                                                                                  | 92                                                                                  | 92   |
| Heavy Vehicles, %        | 2      | 2                                                                                 | 2      | 2     | 2                                                                                 | 2     | 2                                                                                 | 2                                                                                 | 2    | 2                                                                                   | 2                                                                                   | 2    |
| Mvmt Flow                | 18     | 0                                                                                 | 15     | 13    | 0                                                                                 | 17    | 17                                                                                | 114                                                                               | 13   | 17                                                                                  | 147                                                                                 | 25   |
| Major/Minor              | Minor2 |                                                                                   | Minor1 |       | Major1                                                                            |       | Major2                                                                            |                                                                                   |      |                                                                                     |                                                                                     |      |
| Conflicting Flow All     | 364    | 362                                                                               | 167    | 356   | 368                                                                               | 121   | 179                                                                               | 0                                                                                 | 0    | 127                                                                                 | 0                                                                                   | 0    |
| Stage 1                  | 201    | 201                                                                               | -      | 155   | 155                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Stage 2                  | 163    | 161                                                                               | -      | 201   | 213                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Critical Hdwy            | 7.12   | 6.52                                                                              | 6.22   | 7.12  | 6.52                                                                              | 6.22  | 4.12                                                                              | -                                                                                 | -    | 4.12                                                                                | -                                                                                   | -    |
| Critical Hdwy Stg 1      | 6.12   | 5.52                                                                              | -      | 6.12  | 5.52                                                                              | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Critical Hdwy Stg 2      | 6.12   | 5.52                                                                              | -      | 6.12  | 5.52                                                                              | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Follow-up Hdwy           | 3.518  | 4.018                                                                             | 3.318  | 3.518 | 4.018                                                                             | 3.318 | 2.218                                                                             | -                                                                                 | -    | 2.218                                                                               | -                                                                                   | -    |
| Pot Cap-1 Maneuver       | 592    | 565                                                                               | 877    | 599   | 561                                                                               | 930   | 1397                                                                              | -                                                                                 | -    | 1459                                                                                | -                                                                                   | -    |
| Stage 1                  | 801    | 735                                                                               | -      | 847   | 769                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Stage 2                  | 839    | 765                                                                               | -      | 801   | 726                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Platoon blocked, %       |        |                                                                                   |        |       |                                                                                   |       |                                                                                   | -                                                                                 | -    |                                                                                     | -                                                                                   | -    |
| Mov Cap-1 Maneuver       | 567    | 547                                                                               | 871    | 578   | 544                                                                               | 930   | 1388                                                                              | -                                                                                 | -    | 1459                                                                                | -                                                                                   | -    |
| Mov Cap-2 Maneuver       | 620    | 583                                                                               | -      | 626   | 578                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Stage 1                  | 786    | 721                                                                               | -      | 837   | 760                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Stage 2                  | 813    | 756                                                                               | -      | 778   | 712                                                                               | -     | -                                                                                 | -                                                                                 | -    | -                                                                                   | -                                                                                   | -    |
| Approach                 | EB     |                                                                                   | WB     |       | NB                                                                                |       | SB                                                                                |                                                                                   |      |                                                                                     |                                                                                     |      |
| HCM Control Delay, s     | 10.3   |                                                                                   | 9.9    |       | 0.9                                                                               |       | 0.7                                                                               |                                                                                   |      |                                                                                     |                                                                                     |      |
| HCM LOS                  | B      |                                                                                   | A      |       |                                                                                   |       |                                                                                   |                                                                                   |      |                                                                                     |                                                                                     |      |
| Minor Lane/Major Mvmt    | NBL    | NBT                                                                               | NBR    | EBLn1 | WBLn1                                                                             | SBL   | SBT                                                                               | SBR                                                                               |      |                                                                                     |                                                                                     |      |
| Capacity (veh/h)         | 1388   | -                                                                                 | -      | 713   | 770                                                                               | 1459  | -                                                                                 | -                                                                                 |      |                                                                                     |                                                                                     |      |
| HCM Lane V/C Ratio       | 0.013  | -                                                                                 | -      | 0.047 | 0.04                                                                              | 0.012 | -                                                                                 | -                                                                                 |      |                                                                                     |                                                                                     |      |
| HCM Control Delay (s)    | 7.6    | -                                                                                 | -      | 10.3  | 9.9                                                                               | 7.5   | -                                                                                 | -                                                                                 |      |                                                                                     |                                                                                     |      |
| HCM Lane LOS             | A      | -                                                                                 | -      | B     | A                                                                                 | A     | -                                                                                 | -                                                                                 |      |                                                                                     |                                                                                     |      |
| HCM 95th %tile Q(veh)    | 0      | -                                                                                 | -      | 0.1   | 0.1                                                                               | 0     | -                                                                                 | -                                                                                 |      |                                                                                     |                                                                                     |      |

# Collision Data

OFFICER REPORTED CRASHES THAT OCCURRED ON ALL ROADS IN THE CITY OF MILL CREEK

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| PRIMARY TRAFFICWAY | INTERSECTING/REFERENCE TRAFFICWAY | DIST FROM REF POINT | COMP DIR FROM REF POINT | MILEPOST | A / REPORT B | DATE       | TIME  | MOST SEVERE INJURY TYPE | # J T H S | # I F V E K | # P I | # B | FIRST COLLISION TYPE / OBJECT STRUCK                                |
|--------------------|-----------------------------------|---------------------|-------------------------|----------|--------------|------------|-------|-------------------------|-----------|-------------|-------|-----|---------------------------------------------------------------------|
| DUMAS RD           | N CREEK DR                        | 50                  | F SE                    |          | E719969      | 10/02/2017 | 16:06 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| DUMAS RD           | N CREEK DR                        |                     |                         |          | E438633      | 06/30/2015 | 22:05 | Suspected Minor Injury  | 1         | 0           | 1     | 0   | Vehicle - Pedalcyclist                                              |
| DUMAS RD           | N CREEK DR                        |                     |                         |          | E477798      | 10/28/2015 | 06:15 | No Apparent Injury      | 0         | 2           | 0     | 0   | From opposite direction - one left turn - one right turn            |
| DUMAS RD           | N CREEK DR                        |                     |                         |          | E645040      | 02/22/2017 | 22:23 | Possible Injury         | 1         | 2           | 0     | 0   | From opposite direction - one left turn - one straight              |
| N CREEK DR         | DUMAS RD                          |                     |                         |          | E230466      | 03/06/2013 | 20:50 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| N CREEK DR         | DUMAS RD                          |                     |                         |          | E315700      | 03/21/2014 | 07:44 | Possible Injury         | 1         | 0           | 1     | 0   | Over Embankment - No Guardrail Present                              |
| N CREEK DR         | DUMAS RD                          |                     |                         |          | E357788      | 09/16/2014 | 14:16 | Possible Injury         | 1         | 0           | 1     | 0   | Vehicle turning left hits pedestrian                                |
| N CREEK DR         | DUMAS RD                          |                     |                         |          | E408989      | 03/18/2015 | 18:15 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - all others                                    |
| N CREEK DR         | HEATHERWOOD DR                    |                     |                         |          | E337618      | 06/27/2014 | 19:11 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| N CREEK DR         | HEATHERWOOD DR                    |                     |                         |          | E396752      | 01/31/2015 | 10:04 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - all others                                    |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E221666      | 01/19/2013 | 12:04 | Possible Injury         | 1         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E249705      | 06/11/2013 | 09:27 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E253244      | 06/18/2013 | 15:55 | Suspected Minor Injury  | 1         | 0           | 2     | 0   | From same direction - both going straight - both moving - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E258736      | 07/24/2013 | 16:10 | Possible Injury         | 1         | 2           | 0     | 0   | From same direction - both going straight - both moving - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E277273      | 10/14/2013 | 11:59 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - one right turn - one straight                 |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E287383      | 11/23/2013 | 13:24 | No Apparent Injury      | 0         | 3           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E290158      | 12/04/2013 | 14:21 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E311048      | 03/01/2014 | 07:07 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E343794      | 07/23/2014 | 15:44 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - both moving - sideswipe |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E350410      | 08/20/2014 | 19:52 | Suspected Minor Injury  | 1         | 0           | 1     | 0   | Vehicle - Pedalcyclist                                              |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E406651      | 03/09/2015 | 14:56 | Possible Injury         | 3         | 0           | 2     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E429329      | 06/01/2015 | 11:37 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E460250      | 09/10/2015 | 05:45 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E529210      | 03/25/2016 | 09:40 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E580466      | 09/02/2016 | 06:50 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E597355      | 10/13/2016 | 16:36 | Possible Injury         | 2         | 4           | 0     | 0   | From opposite direction - one left turn - one straight              |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E636295      | 01/28/2017 | 13:05 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E673426      | 05/18/2017 | 11:20 | No Apparent Injury      | 0         | 2           | 0     | 0   | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E690753      | 07/10/2017 | 17:33 | No Apparent Injury      | 0         | 1           | 0     | 0   | Earth Bank or Ledge                                                 |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E717738      | 09/29/2017 | 09:45 | No Apparent Injury      | 0         | 2           | 0     | 0   | Entering at angle                                                   |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E740095      | 11/22/2017 | 22:58 | No Apparent Injury      | 0         | 2           | 0     | 0   | All other non-collision                                             |
| SR-527             | N CREEK DR                        |                     |                         | 8.13     | E749381      | 12/18/2017 | 14:53 | No Apparent Injury      | 0         | 2           | 0     | 0   | From opposite direction - one left turn - one right turn            |
| SR-527             | N CREEK DR                        |                     |                         | 8.14     | E760665      | 01/16/2018 | 09:40 | Possible Injury         | 1         | 2           | 0     | 0   | From same direction - both going straight - both moving - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.36     | E477651      | 11/02/2015 | 11:55 | No Apparent Injury      | 0         | 2           | 0     | 0   | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E224978      | 02/05/2013 | 11:45 | Possible Injury         | 2         | 0           | 3     | 0   | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E233589      | 03/19/2013 | 16:45 | Possible Injury         | 1         | 0           | 2     | 0   | Entering at angle                                                   |

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|--------------------|-----------------------------------|---------------------|-------------------------|----------|------------|------------|-------|-------------------------|-------------|---------------|---------------|---------------------------------------------------------------------|
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E265401    | 08/25/2013 | 12:00 | No Apparent Injury      | 0           | 0             | 0             | Entering at angle                                                   |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E270356    | 09/16/2013 | 18:15 | Possible Injury         | 1           | 0             | 2             | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E271742    | 09/21/2013 | 16:18 | No Apparent Injury      | 0           | 0             | 2             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E275652    | 10/07/2013 | 10:40 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E292612    | 12/13/2013 | 19:22 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E294662    | 12/20/2013 | 19:30 | No Apparent Injury      | 0           | 1             | 0             | Retaining Wall (concrete, rock, brick, etc.)                        |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E311860    | 03/04/2014 | 16:49 | Possible Injury         | 1           | 2             | 0             | Entering at angle                                                   |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E312795    | 03/08/2014 | 18:45 | No Apparent Injury      | 0           | 2             | 0             | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E314553    | 03/16/2014 | 15:59 | Possible Injury         | 1           | 0             | 2             | Entering at angle                                                   |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E329310    | 05/22/2014 | 06:30 | No Apparent Injury      | 0           | 2             | 0             | From same direction - both going straight - both moving - sideswipe |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E338601    | 07/01/2014 | 18:35 | Suspected Minor Injury  | 1           | 0             | 2             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E341920    | 07/15/2014 | 17:16 | Possible Injury         | 1           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E354285    | 09/04/2014 | 13:01 | Possible Injury         | 1           | 0             | 2             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E366792    | 10/21/2014 | 14:14 | Possible Injury         | 1           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E373294    | 11/10/2014 | 05:20 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E376739    | 11/22/2014 | 17:06 | No Apparent Injury      | 0           | 3             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E376862    | 11/21/2014 | 22:03 | Suspected Minor Injury  | 1           | 0             | 1             | Vehicle - Pedalcyclist                                              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E382482    | 12/10/2014 | 19:15 | No Apparent Injury      | 0           | 2             | 0             | From same direction - both going straight - both moving - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E389577    | 01/05/2015 | 07:59 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E398675    | 02/06/2015 | 10:30 | No Apparent Injury      | 0           | 2             | 0             | From same direction - both going straight - both moving - sideswipe |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E398748    | 02/06/2015 | 15:00 | Possible Injury         | 2           | 0             | 2             | Entering at angle                                                   |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E406353    | 03/09/2015 | 07:56 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E407997    | 03/16/2015 | 17:53 | Suspected Minor Injury  | 1           | 0             | 1             | Vehicle - Pedalcyclist                                              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E413095    | 04/02/2015 | 06:45 | Possible Injury         | 2           | 0             | 2             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E427985    | 05/26/2015 | 18:47 | No Apparent Injury      | 0           | 3             | 0             | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E437787    | 06/28/2015 | 14:10 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E442013    | 07/12/2015 | 12:20 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E473043    | 10/20/2015 | 06:10 | Possible Injury         | 1           | 0             | 2             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E478838    | 11/04/2015 | 06:35 | Possible Injury         | 1           | 0             | 1             | Vehicle turning left hits pedestrian                                |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E478884    | 11/05/2015 | 19:05 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E481704    | 11/10/2015 | 16:20 | No Apparent Injury      | 0           | 2             | 0             | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E497558    | 12/23/2015 | 15:35 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E505043    | 01/13/2016 | 06:55 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E508951    | 01/23/2016 | 09:20 | No Apparent Injury      | 0           | 2             | 0             | From same direction - both going straight - one stopped - rear-end  |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E514670    | 02/10/2016 | 06:31 | Possible Injury         | 1           | 0             | 3             | From opposite direction - one left turn - one straight              |
| SR-527             | DUMAS RD                          |                     |                         | 8.37     | E517040    | 02/17/2016 | 20:28 | No Apparent Injury      | 0           | 2             | 0             | From opposite direction - one left turn - one straight              |

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|--------------------|------------------------------------|---------------------|-------------------------|----------|------------|------------|-------|--------------------------|-------------|---------------|-----------------|-----|--------------------------------------------------------------------|
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E530092    | 03/31/2016 | 17:35 | No Apparent Injury       | 0           | 0             | 3               | 0   | From same direction - both going straight - both moving - rear-end |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E531515    | 04/05/2016 | 13:42 | Possible Injury          | 2           | 0             | 4               | 0   | From same direction - both going straight - one stopped - rear-end |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E555131    | 06/18/2016 | 12:30 | No Apparent Injury       | 0           | 2             | 0               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E580465    | 08/31/2016 | 15:54 | Possible Injury          | 1           | 0             | 2               | 0   | Entering at angle                                                  |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E591418    | 09/28/2016 | 07:28 | No Apparent Injury       | 0           | 2             | 0               | 0   | From opposite direction - all others                               |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E613396    | 11/28/2016 | 16:25 | Possible Injury          | 1           | 0             | 2               | 0   | From same direction - both going straight - one stopped - rear-end |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E618128    | 12/10/2016 | 10:45 | Possible Injury          | 1           | 0             | 2               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E665615    | 04/26/2017 | 14:10 | No Apparent Injury       | 0           | 2             | 0               | 0   | From opposite direction - all others                               |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E675053    | 05/24/2017 | 19:06 | No Apparent Injury       | 0           | 3             | 0               | 0   | Entering at angle                                                  |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E675055    | 05/23/2017 | 13:55 | No Apparent Injury       | 0           | 2             | 0               | 0   | From same direction - both going straight - one stopped - rear-end |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E680546    | 06/06/2017 | 12:27 | No Apparent Injury       | 0           | 2             | 0               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E687267    | 07/02/2017 | 14:04 | No Apparent Injury       | 0           | 2             | 0               | 0   | From same direction - both going straight - one stopped - rear-end |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E689481    | 07/03/2017 | 14:13 | Suspected Serious Injury | 3           | 0             | 2               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E690754    | 07/12/2017 | 11:23 | No Apparent Injury       | 0           | 2             | 0               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E694050    | 07/22/2017 | 19:40 | Suspected Serious Injury | 1           | 0             | 1               | 0   | Vehicle - Pedalcyclist                                             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E709348    | 09/07/2017 | 06:05 | No Apparent Injury       | 0           | 2             | 0               | 0   | Same direction -- both turning right -- one stopped -- sideswipe   |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E711130    | 09/12/2017 | 09:30 | No Apparent Injury       | 0           | 2             | 0               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E728106    | 10/27/2017 | 09:35 | No Apparent Injury       | 0           | 2             | 0               | 0   | Same direction -- both turning right -- one stopped -- rear end    |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E740099    | 11/27/2017 | 07:27 | Suspected Minor Injury   | 2           | 0             | 2               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E750213    | 12/21/2017 | 17:52 | Possible Injury          | 1           | 0             | 3               | 0   | From opposite direction - one left turn - one straight             |
| SR-527             | DUMAS RD                           |                     |                         | 8.37     | E760667    | 01/19/2018 | 12:35 | No Apparent Injury       | 0           | 2             | 0               | 0   | From same direction - both going straight - one stopped - rear-end |



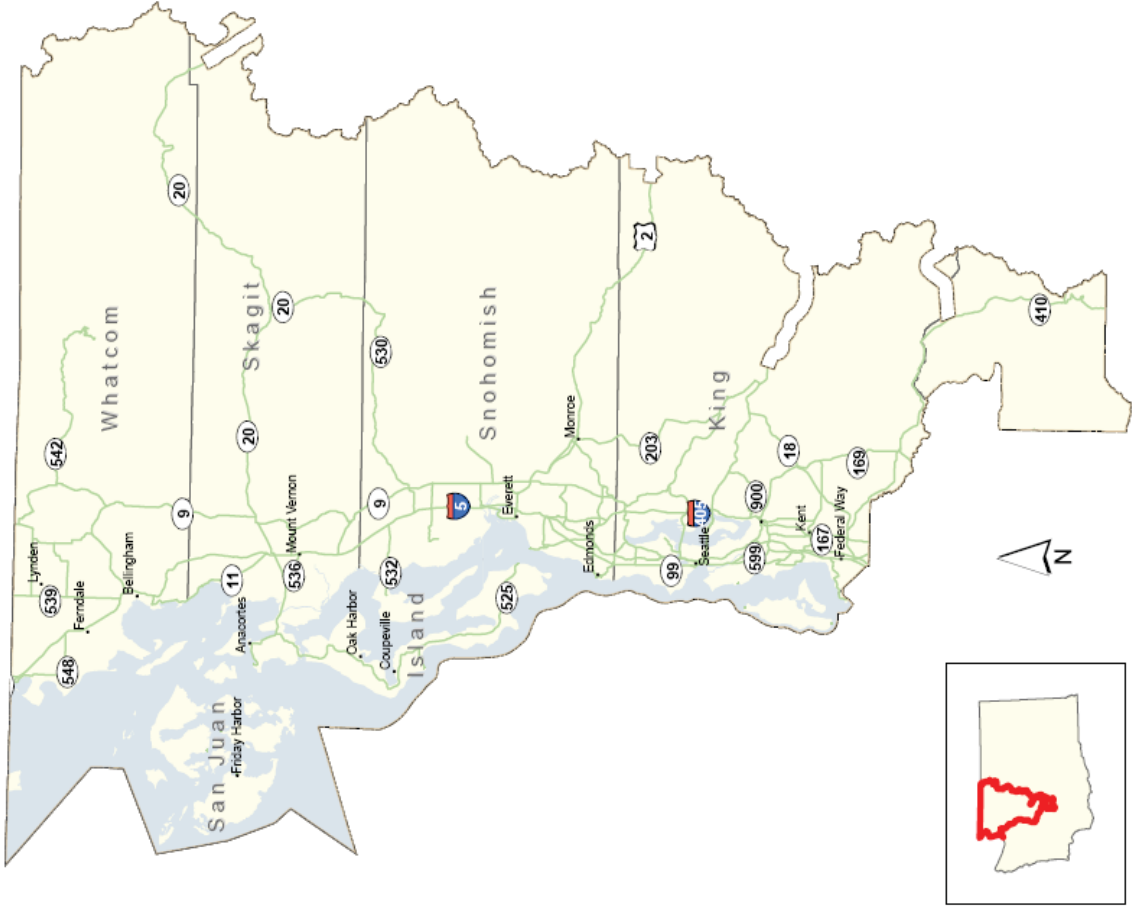
**Washington State  
Department of Transportation**



# 2011 Washington State Collision Data Summary



Northwest Region



## 2011 AVERAGE COLLISION RATES BY FUNCTIONAL CLASS Northwest Region (State Routes only)

| RURAL AREAS                                    | PRINCIPAL<br>ARTERIAL | MINOR<br>ARTERIAL | COLLECTOR   | INTERSTATE  | ALL<br>HIGHWAYS |
|------------------------------------------------|-----------------------|-------------------|-------------|-------------|-----------------|
| Vehicle Miles of Travel (Millions)             | 554.01                | 448.32            | 215.05      | 970.35      | 2,187.73        |
| Miles of Highway                               | 133.41                | 255.91            | 158.99      | 57.61       | 605.92          |
| Total Collisions                               | 564                   | 520               | 363         | 510         | 1,957           |
| <b>Collision Rate (1)</b>                      | <b>1.02</b>           | <b>1.16</b>       | <b>1.69</b> | <b>0.53</b> | <b>0.89</b>     |
| Property Damage Only Collisions                | 389                   | 305               | 210         | 360         | 1,264           |
| <b>Property Damage Only Collision Rate (1)</b> | <b>0.70</b>           | <b>0.68</b>       | <b>0.98</b> | <b>0.37</b> | <b>0.58</b>     |
| Injury Collisions                              | 169                   | 209               | 152         | 149         | 679             |
| <b>Injury Collision Rate (1)</b>               | <b>0.31</b>           | <b>0.47</b>       | <b>0.71</b> | <b>0.15</b> | <b>0.31</b>     |
| Fatal Collisions                               | 6                     | 6                 | 1           | 1           | 14              |
| <b>Fatal Collision Rate (2)</b>                | <b>1.08</b>           | <b>1.34</b>       | <b>0.47</b> | <b>0.10</b> | <b>0.64</b>     |

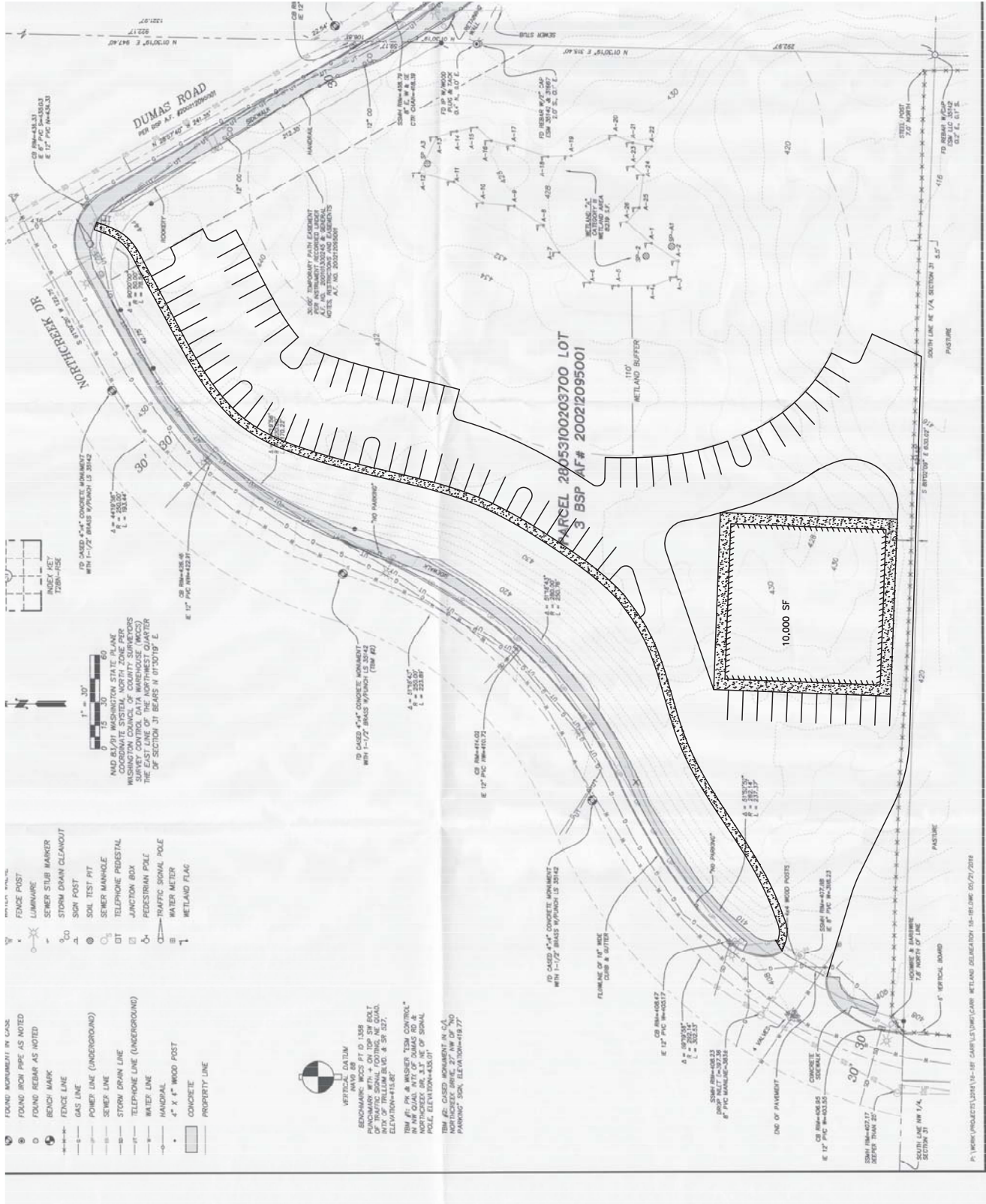
| URBAN AREAS                                    | PRINCIPAL<br>ARTERIAL | MINOR<br>ARTERIAL | COLLECTOR   | INTERSTATE  | ALL<br>HIGHWAYS |
|------------------------------------------------|-----------------------|-------------------|-------------|-------------|-----------------|
| Vehicle Miles of Travel (Millions)             | 4,033.90              | 506.92            | 0.00        | 6,899.35    | 11,440.17       |
| Miles of Highway                               | 326.43                | 98.04             | 0.00        | 141.43      | 565.90          |
| Total Collisions                               | 9,169                 | 1,483             | 0           | 8,881       | 19,533          |
| <b>Collision Rate (1)</b>                      | <b>2.27</b>           | <b>2.93</b>       | <b>0.00</b> | <b>1.29</b> | <b>1.71</b>     |
| Property Damage Only Collisions                | 5,992                 | 980               | 0           | 6,042       | 13,014          |
| <b>Property Damage Only Collision Rate (1)</b> | <b>1.49</b>           | <b>1.93</b>       | <b>0.00</b> | <b>0.88</b> | <b>1.14</b>     |
| Injury Collisions                              | 3,158                 | 493               | 0           | 2,820       | 6,471           |
| <b>Injury Collision Rate (1)</b>               | <b>0.78</b>           | <b>0.97</b>       | <b>0.00</b> | <b>0.41</b> | <b>0.57</b>     |
| Fatal Collisions                               | 19                    | 10                | 0           | 19          | 48              |
| <b>Fatal Collision Rate (2)</b>                | <b>0.47</b>           | <b>1.97</b>       | <b>0.00</b> | <b>0.28</b> | <b>0.42</b>     |

| ALL AREAS                                      | PRINCIPAL<br>ARTERIAL | MINOR<br>ARTERIAL | COLLECTOR   | INTERSTATE  | ALL<br>HIGHWAYS |
|------------------------------------------------|-----------------------|-------------------|-------------|-------------|-----------------|
| Vehicle Miles of Travel (Millions)             | 4,587.91              | 955.24            | 215.05      | 7,869.70    | 13,627.90       |
| Miles of Highway                               | 459.84                | 353.95            | 158.99      | 199.04      | 1,171.82        |
| Total Collisions                               | 9,733                 | 2,003             | 363         | 9,391       | 21,490          |
| <b>Collision Rate (1)</b>                      | <b>2.12</b>           | <b>2.10</b>       | <b>1.69</b> | <b>1.19</b> | <b>1.58</b>     |
| Property Damage Only Collisions                | 6,381                 | 1,285             | 210         | 6,402       | 14,278          |
| <b>Property Damage Only Collision Rate (1)</b> | <b>1.39</b>           | <b>1.35</b>       | <b>0.98</b> | <b>0.81</b> | <b>1.05</b>     |
| Injury Collisions                              | 3,327                 | 702               | 152         | 2,969       | 7,150           |
| <b>Injury Collision Rate (1)</b>               | <b>0.73</b>           | <b>0.73</b>       | <b>0.71</b> | <b>0.38</b> | <b>0.52</b>     |
| Fatal Collisions                               | 25                    | 16                | 1           | 20          | 62              |
| <b>Fatal Collision Rate (2)</b>                | <b>0.54</b>           | <b>1.67</b>       | <b>0.47</b> | <b>0.25</b> | <b>0.45</b>     |

(1) Per Million Vehicle Miles of Travel

(2) Per 100 Million Vehicle Miles of Travel

# Site Plan



PARCEL AREA = 196,020 SF  
 USABLE AREA OUTSIDE CRITICAL AREA BUFFER = 82,900 SF  
 PARKING STALLS = 79

BACKGROUND SURVEY INFORMATION OBTAINED FROM RECORD INFORMATION, PREPARED BY HARSEN AND ASSOCIATES, 5/17/18. TERRAVISTA NW, LLC DOES NOT WARRANT INFORMATION CONTAINED WITHIN BACKGROUND INFORMATION.

