



McDonald's Hawthorne (Inglewood & 133rd) 4-5205 Traffic Impact Assessment

City of Hawthorne
4455 West 126th Street
Hawthorne, CA 90250

August 2024

Prepared By:

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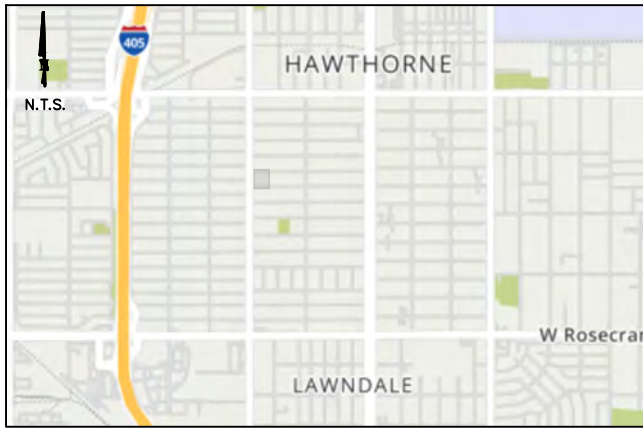
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I. Introduction

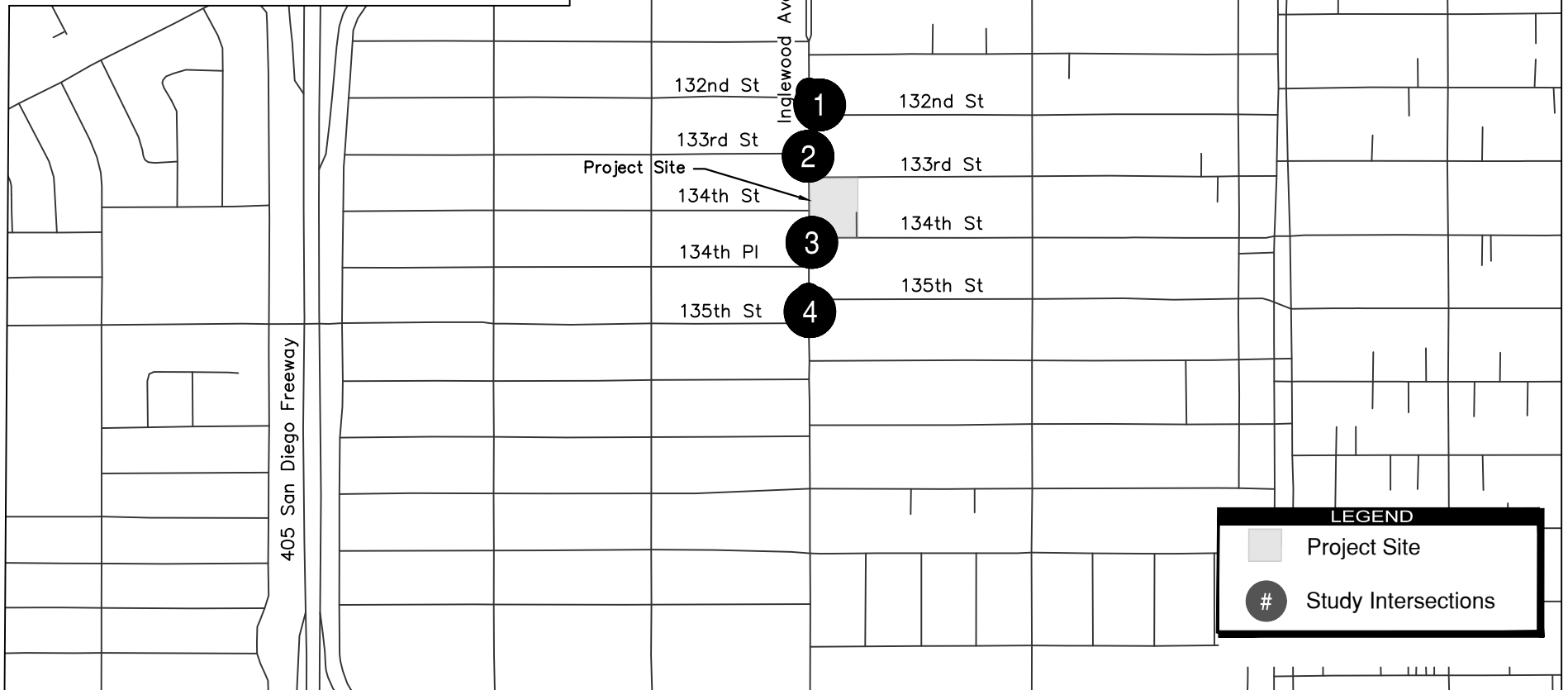
Kimley-Horn and Associates, Inc. (“Kimley-Horn”) was contracted by McDonalds (“Client”) to prepare a traffic study for the proposed McDonalds’ at 13324 South Inglewood Avenue (“Project”) in the City of Hawthorne (“City”). This traffic study was prepared in accordance with the scoping agreement which outlines the methodology, requirements, and impact criteria of the traffic operational and the Vehicle Miles Traveled (VMT) analysis. The scope of work is also based on a review of the Los Angeles County Transportation Impact Analysis Guidelines (July 2020) and discussions with City Staff. The Project study scoping agreement can be found in **Appendix A**.

Project Description

The proposed Project is to consist of a 3,781 square-foot Fast Food Restaurant with a Drive-Thru on an empty site on the east side of Inglewood Avenue, between 133rd Street and 134th Street. The Project location and study area is shown in **Figure 1** and is anticipated to have an Opening Year of 2025. The proposed preliminary site plan for the proposed Project is shown in **Figure 2**. As indicated on **Figure 2**, access to the Project site will be provided via driveways on W 133rd Street, W 134th Street, and on Inglewood Avenue.



VICINITY MAP



LEGEND

- Project Site
- # Study Intersections

FIGURE 1 - STUDY AREA

II. Methodology

The Project study area, analysis scenarios, and analysis methodology were established in consultation with City of Hawthorne staff through a scoping letter agreement which was approved on June 27, 2024. The approved scoping letter is incorporated as a reference in **Appendix A**.

Study Area

Based on discussion with the City and review of the Project area, site, and access points, key intersections in the proximity of the Project site were identified for analysis. The study area included the following intersections shown in **Table 1**:

Table 1: Project Study Intersections

| # | Intersection | Jurisdiction | Signalized |
|---|--|--------------|------------|
| 1 | Inglewood Ave & W 132 nd Street | Hawthorne | Yes |
| 2 | Inglewood Ave & W 133 rd Street | Hawthorne | No |
| 3 | Inglewood Ave & 134 th Street | Hawthorne | No |
| 4 | Inglewood Ave & 135 th Street (E) | Hawthorne | Yes |
| | Inglewood Ave & 135 th Street (W) | Hawthorne | Yes |

Three full-access driveways are proposed for the site; one driveway is proposed on Inglewood Avenue, one driveway on 133rd Street and one driveway on 134th Street per the site plan (**Figure 2**). A map depicting the study intersections is shown in **Figure 1**.

Analysis Scenarios

This traffic analysis provides an evaluation of weekday morning and evening peak hour operations for the following scenarios:

- Existing Year (2024) conditions
- Existing Year (2024) with Project conditions
- Cumulative without Project (2035) conditions
- Cumulative with Project (2035) conditions

Each study scenario will include weekday morning (AM) peak hour and weekday evening (PM) peak hour analysis.

Study Methodology and Analysis Criteria

Senate Bill 743 (SB 743), approved in 2013, mandated a change in the way transportation impacts are determined according to the California Environmental Quality Act (CEQA). The Governor's Office of Planning and Research (OPR) directed the use of VMT as the replacement for automobile delay-based level of service (LOS) for purposes of determining a significant transportation impact under CEQA. Although traffic delay is no longer considered a significant impact, cities can still use LOS to inform local analysis, such as traffic operations and traffic signal timing needs. Hence, the LOS analysis will be performed for the traffic operational assessment of the study intersections. A separate VMT analysis is included later in this report as part of the Project.

This traffic analysis focuses on the study intersections near the Project site during the weekday morning (AM) and evening (PM) peak hours. Level of service (LOS) analysis will be conducted for peak hour

intersection operations at signalized and unsignalized intersections using the methods prescribed in the Highway Capacity Manual (HCM) 7th Edition. The traffic analysis will be conducted using the latest version of the Synchro Software and the definitions for each level of service can be seen below in **Table 2**.

Table 2: Intersection Level of Service Definitions

| LOS | Intersection | Signalized Intersection Control Delay (seconds/vehicle) | Unsignalized Intersection Control Delay (seconds/vehicle) |
|-----|--|---|---|
| A | Excellent operation. All approaches to the intersection appear quite open, turning movements are easy and nearly all drivers find freedom of operation. | ≤10 | ≤10 |
| B | Very good operation. Many drivers begin to feel somewhat restricted within platoons of vehicles. This represents stable flow. An approach to an intersection may occasionally be fully utilized and traffic queues start to form. | >10 and ≤20 | >10 and ≤15 |
| C | Good operation. Occasionally backups may develop behind turning vehicles. Most drivers feel somewhat restricted. | >20 and ≤35 | >15 and ≤25 |
| D | Fair operation. There are no long-standing traffic queues. This level is typically associated with design practice for peak periods. | >35 and ≤55 | >25 and ≤35 |
| E | Poor operation. Some long-standing vehicular queues develop on critical approaches. | >55 and ≤80 | >35 and ≤50 |
| F | Forced flow. Represents jammed conditions. Backups from locations downstream or on the cross street may restrict or prevent movements of vehicles out of the intersection approach lanes; therefore, volumes carried are not predictable. Potential for stop-and-go type traffic flow. | >80 | >50 or v/c > 1 |

Source: Highway Capacity Manual, 7th Edition

For intersections within the City, LOS D or better will be considered as acceptable. If Project traffic causes operations at an intersection to go from acceptable (LOS D or better) to unacceptable (LOS E or F), the Project would have a significant project-related impact at the intersection. If the intersection is currently operating at an unacceptable LOS (LOS E or F) without Project traffic, it is assumed that there would be no impact to the intersection.

Existing Conditions

The roadway system in the study area is comprised of a network of arterials, collector streets, and local streets. A brief description of each roadway within the study area is provided below.

Existing Street System

The key roadways in the vicinity of the Project Site and study area are:

- **Inglewood Avenue** – Inglewood Avenue is classified as a Major Arterial in the City of Hawthorne. Oriented in the north-south direction, it is located along the west side of the Project Site. It has four travel lanes in the study area, two lanes in each direction. On-street parking is provided on both sides of the road along Inglewood Avenue within the study area.
- **W 132nd Street** – West 132nd Street is classified as a Local Street in the City of Hawthorne. Oriented in the east-west direction, it is located along the northside of the Project Site. It has 2 travel lanes in the study area, one lane in each direction. On-street parking is provided on both sides of the road along 132nd Street within the study area to provide parking for the residents.
- **W 133rd Street** – West 133rd Street is classified as a Local Street in the City of Hawthorne. Oriented in the east-west direction, it is located along the northside of the Project Site. It has 2 travel lanes in the study area, one lane in each direction. On-street parking is provided on both side of the road along 133rd Street within the study area to provide parking for the residents.
- **W 134th Street** – West 134th Street is classified as a Local Street in the City of Hawthorne. Oriented in the east-west direction, it is located along the southside of the Project Site. It has 2 travel lanes in the study area, one lane in each direction. On-street parking is provided on both side of the road along 134th Street within the study area to provide parking for the residents.
- **W 135th Street** – West 135th Street is classified as a Collector Street in the City of Hawthorne. Oriented in the east-west direction, it is located along the southside of the Project Site. It has 2 travel lanes in the study area, one lane in each direction. On-street parking is provided on both side of the road along 135th Street within the study area to provide parking for the residents.

Existing (2024) Traffic Volumes

Weekday morning (7-9 AM) and evening (4-6 PM) peak period intersection turning movement counts were collected at the four (4) study intersections on July 9, 2024. A seasonal adjustment was applied to the traffic data to account for the summer season when schools are out of session. The seasonal adjustment factor was calculated using historical traffic data from Replica¹ by comparing volumes from Summer 2021 and Fall 2021. **Table 3** below compares the traffic volumes during the 2021 seasons and calculates the percent increase. A seasonal adjustment factor of 14.4% was applied to all existing traffic volumes.

Table 3: 2021 Seasonal Traffic Volumes

| Volume | | Location | Volume Change | Seasonal Factor (Percent Increase) |
|-------------|-----------|---------------|---------------|---------------------------------------|
| Summer 2021 | Fall 2021 | | | |
| 22,200 | 25,400 | Inglewood Ave | 3,200 | 14.4% |

Roadway Average Daily Traffic (ADT) counts were collected on Inglewood Avenue between 133rd Street and 134th Street on the same day as the intersection counts. The 24-hour ADT counts include lane utilization along Inglewood Avenue.

The existing intersection lane configurations and control type are shown in **Figure 3**. The existing AM and PM peak hour turning movement volumes with the seasonal adjustment factor are shown in **Figure 4**. **Appendix B** contains the intersection traffic count and ADT count sheets.

Existing (2024) Operations

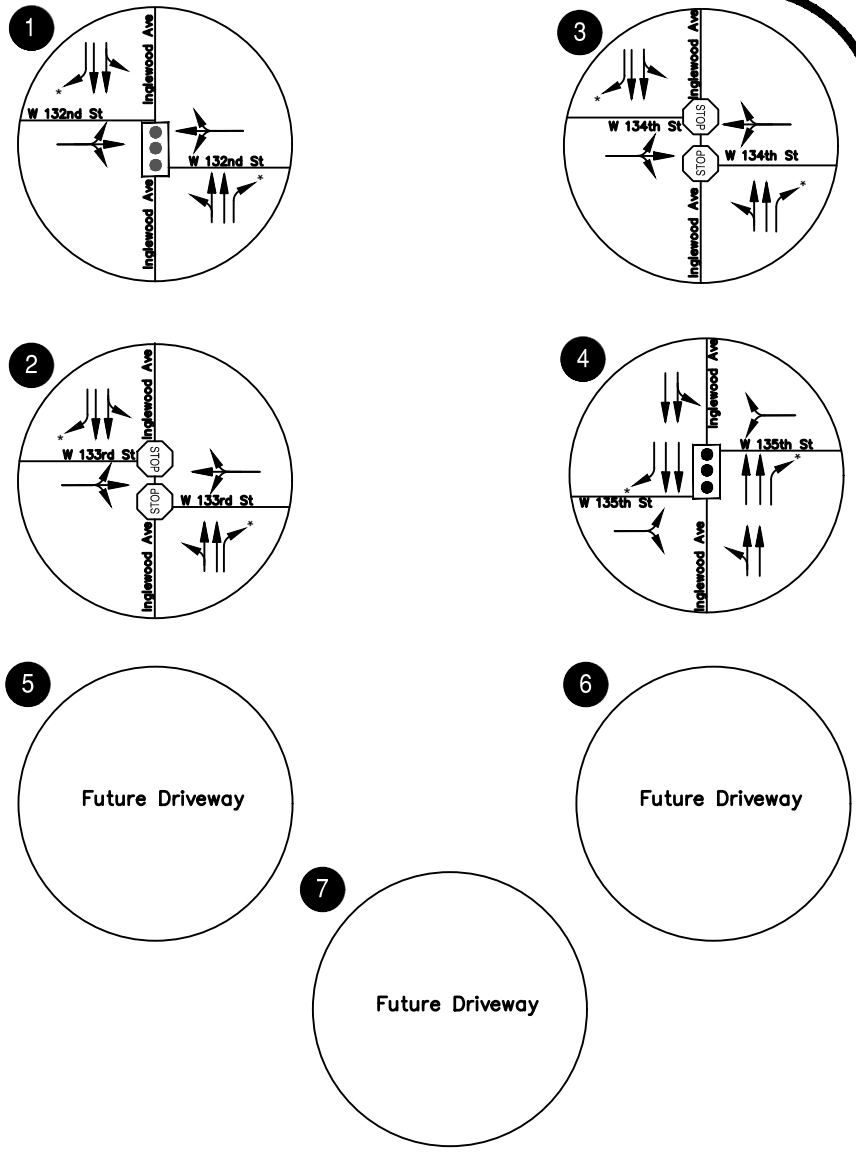
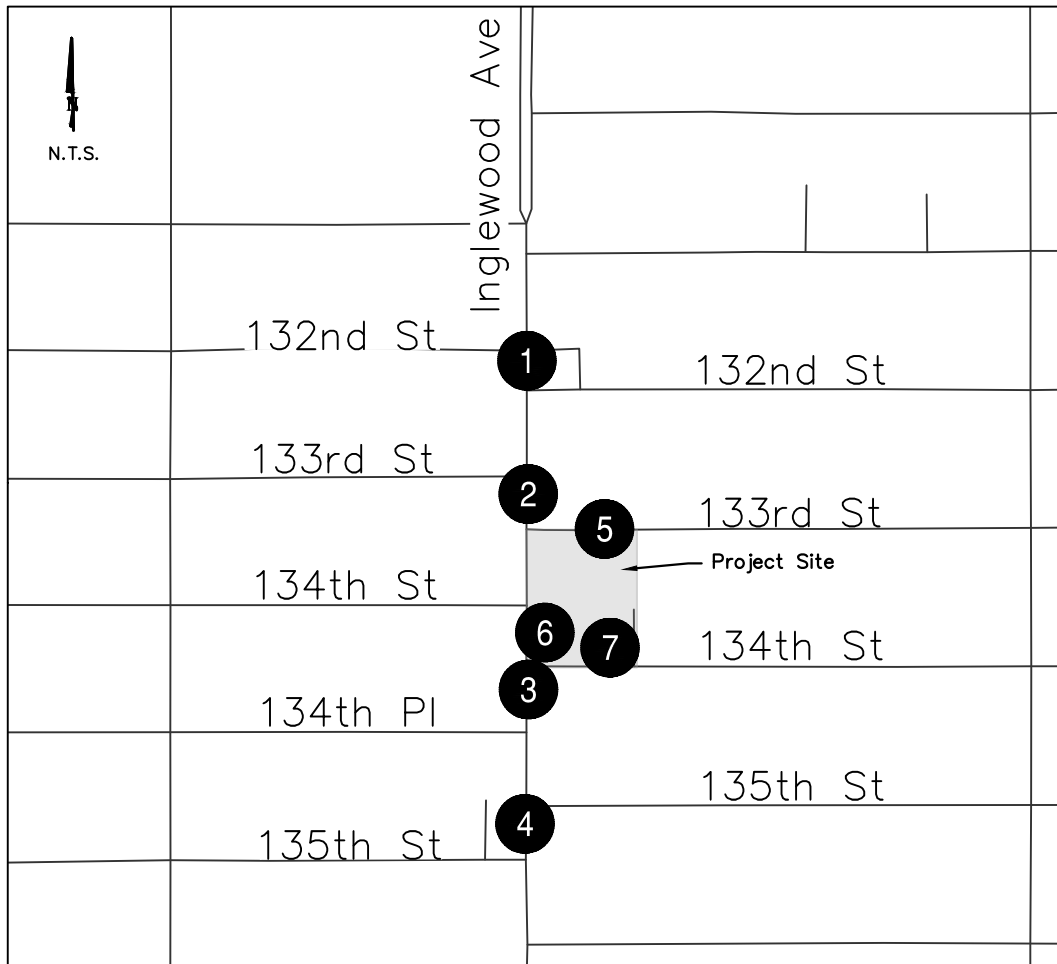
Intersection level of service analysis was conducted for the weekday morning (AM) and evening (PM) peak hours using HCM methodology as previously described in this report. **Table 4** summarizes the projected delay and LOS at the signalized and unsignalized study intersections. For TWSC intersections, the worst stop-controlled approach lane group control delay is reported.

Table 4: Existing (2024) Intersection Level of Service

| No. | Intersection | Control Type | AM Peak Hour | | PM Peak Hour | |
|-----|--|--------------|---------------|-----|---------------|-----|
| | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS |
| 1 | Inglewood Ave & 132 nd Street | Signalized | 11.70 | B | 13.90 | B |
| 2 | Inglewood Ave & 133 rd Street | TWSC | 14.02 | B | 37.61 | E |
| 3 | Inglewood Ave & 134 th Street | TWSC | 14.79 | B | 29.38 | D |
| 4 | Inglewood Ave & 135 th Street (E) | Signalized | 11.60 | B | 5.50 | A |
| | Inglewood Ave & 135 th Street (W) | Signalized | 10.20 | B | 81.60 | F |

¹ <https://studio.replicahq.com/>

As shown in **Table 4** above, most intersections within the Study area are operating at an acceptable LOS (D or better). However, the intersection of Inglewood Ave and 135th Street (W) is operating at an LOS F during the existing PM peak hour. The detailed intersection analysis LOS worksheets for all conditions are shown in **Appendix C**.



LEGEND

| | | | |
|---|-----------------|---|------------------------------|
| # | Intersection ID | | Existing Traffic Signal |
| | Project Site | | Stop Controlled Intersection |
| | Lane Use | * | Functional Right Turn |

FIGURE 3 - EXISTING INTERSECTION LANE CONFIGURATION

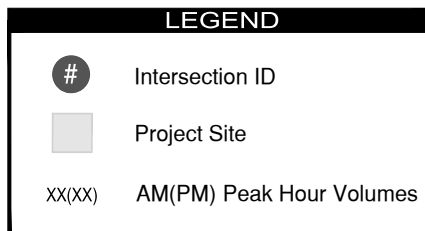
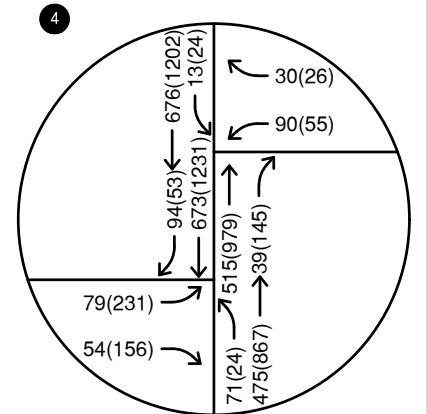
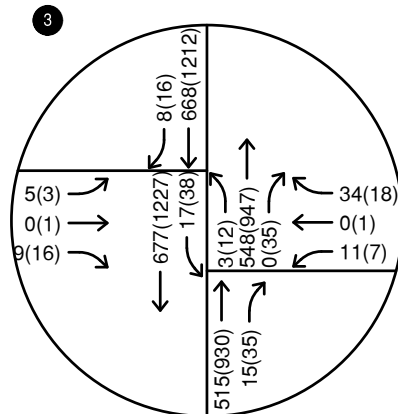
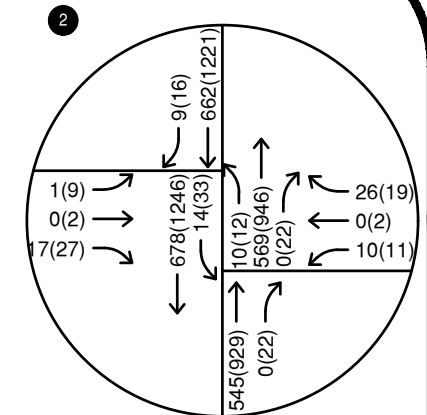
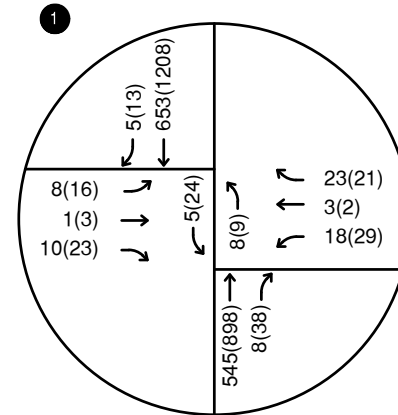
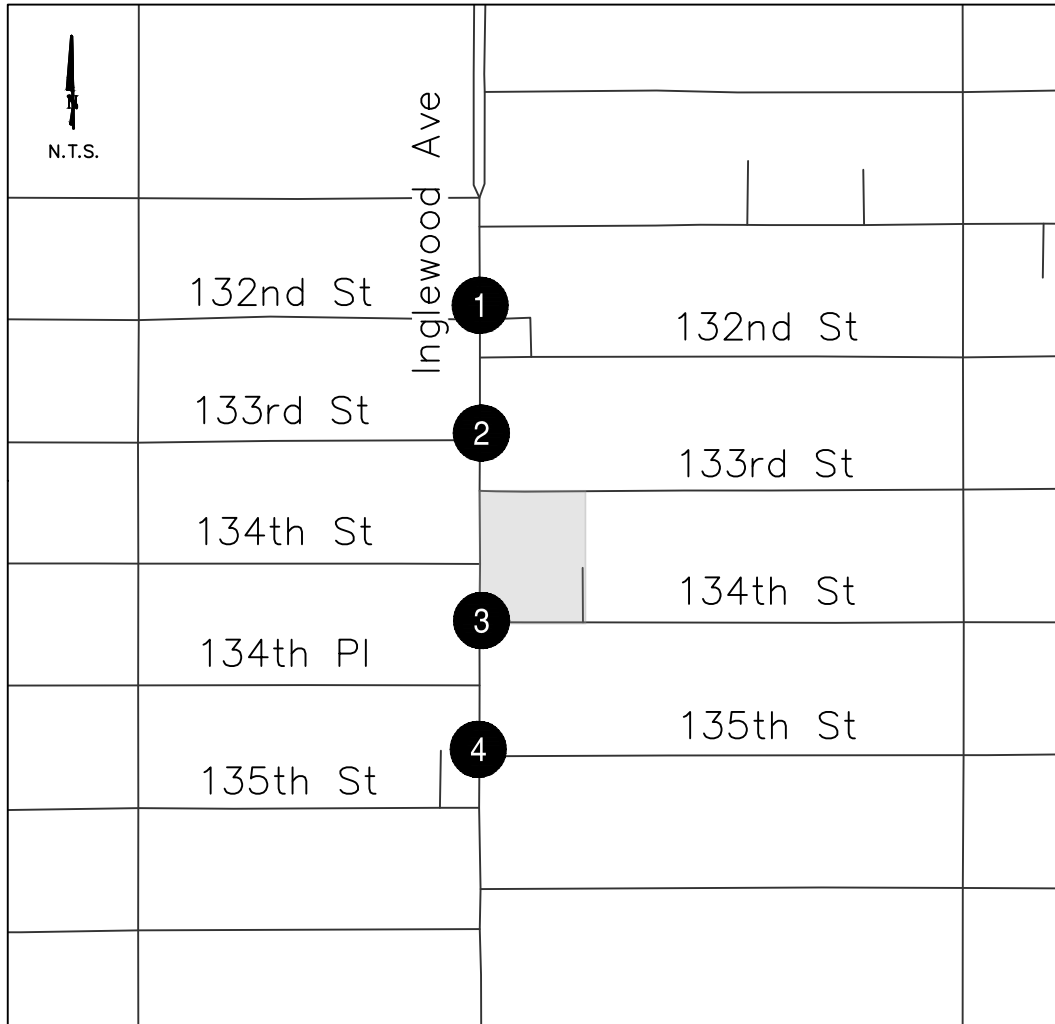


FIGURE 4 - EXISTING (2024) INTERSECTION AM & PM PEAK HOUR VOLUMES

III. Cumulative (2035) Conditions Without Project

Volume Development and Ambient (2035) Growth

Future volumes were determined by applying an ambient growth factor to the existing 2024 traffic volumes. An annual growth factor of 0.2% was used based on City of Hawthorne population data provided by the Southern California Association of Governments' (SCAG) *Demographics and Growth Forecast* technical report adopted on September 3, 2020.

Cumulative Project Trip Generation

In addition to ambient growth, traffic volumes from cumulative projects (approved or pending projects expected to be built by the year 2035 within ½ mile of the proposed Project Site) were added to the study intersections to simulate future traffic conditions with expected new development in the area. The list of related projects was provided by LA County in an email on July 25th, 2024. The City of Hawthorne did not have any approved or pending projects within ½ mile of the Project site. **Appendix D** lists the cumulative projects and total trip generation that was assigned to the Project study intersections. The cumulative projects' traffic volumes were added to both the cumulative with and without project scenarios as part of this analysis. As shown in **Appendix D**, the cumulative projects in the area are expected to generate 1,234 daily trips, 91 during the AM peak hour, and 122 during the PM peak hour.

Cumulative (2035) Operations

Intersection LOS analysis for the future horizon year was conducted for the weekday morning and evening peak hours using the HCM methodology. The resulting Project AM peak and PM peak traffic volumes are shown in **Figure 5**.

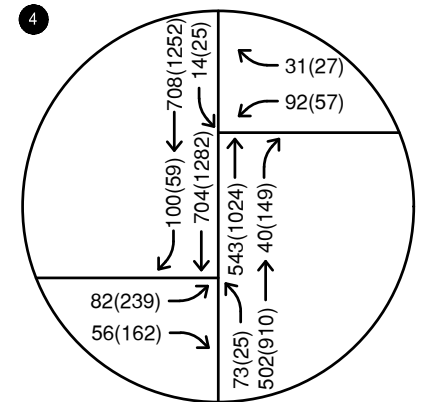
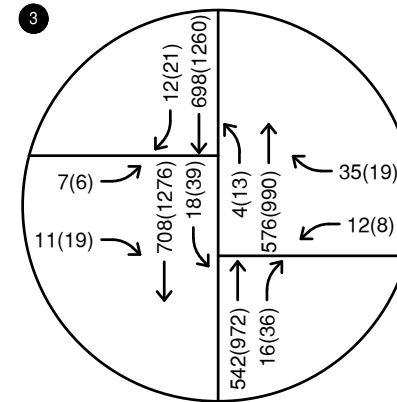
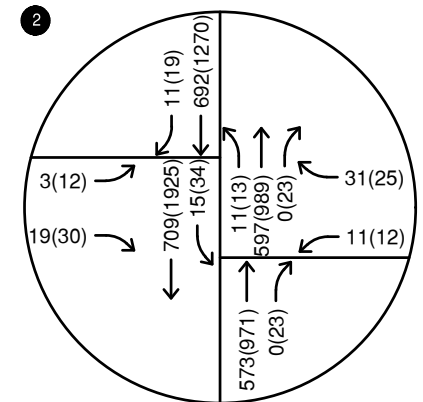
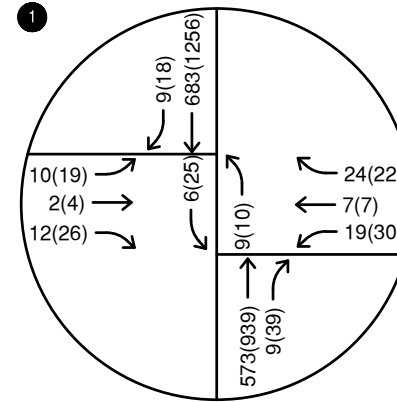
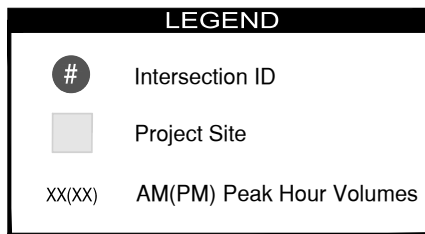
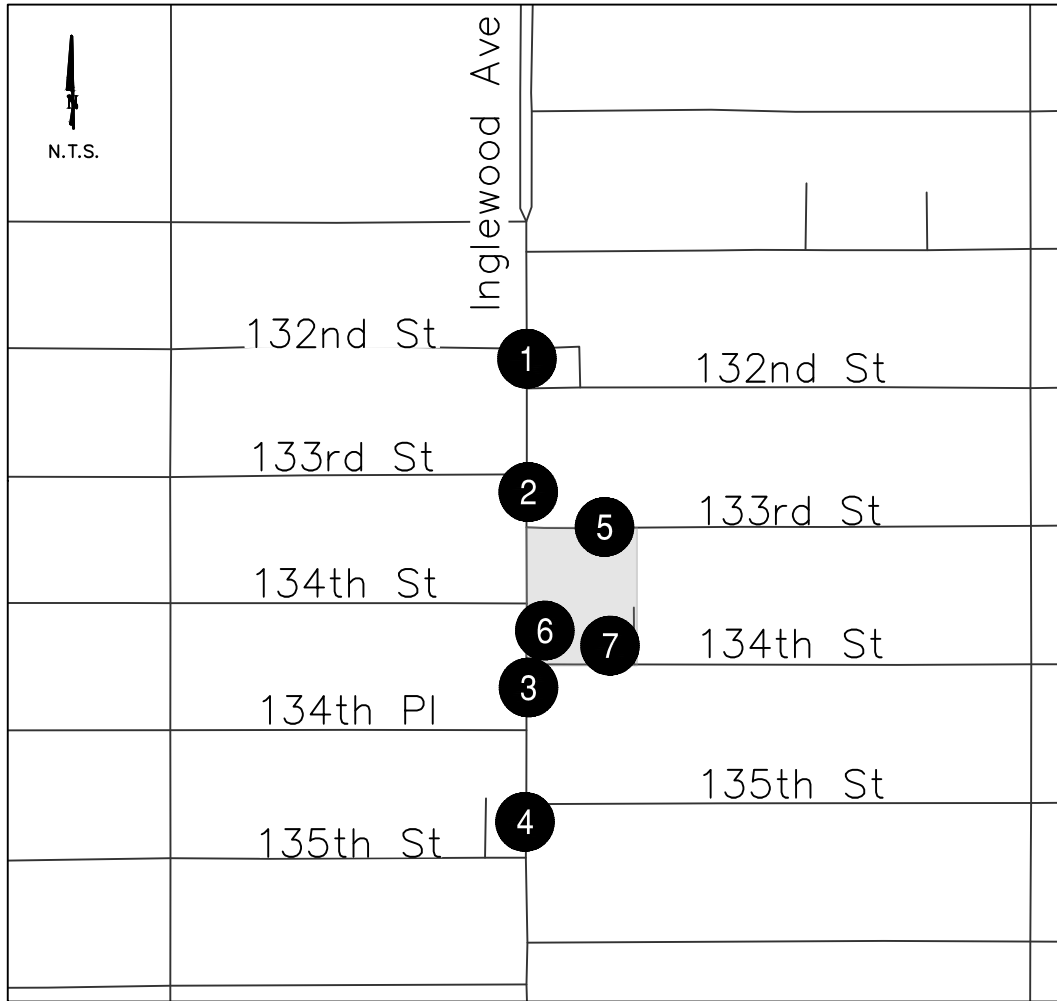


FIGURE 5 - FUTURE YEAR (2035) INTERSECTION AM & PM PEAK HOUR VOLUMES

Table 5 below summarizes the projected LOS at the signalized study intersections for the future horizon year conditions without the planned McDonalds.

Table 5: Cumulative (2035) Level of Service

| No. | Intersection | Control Type | AM Peak Hour | | PM Peak Hour | |
|-----|--|--------------|---------------|-----|---------------|-----|
| | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS |
| 1 | Inglewood Ave & 132 nd Street | Signalized | 11.60 | B | 13.60 | B |
| 2 | Inglewood Ave & 133 rd Street | TWSC | 14.17 | B | 44.01 | E |
| 3 | Inglewood Ave & 134 th Street | TWSC | 15.92 | C | 33.79 | D |
| 4 | Inglewood Ave & 135 th Street (E) | Signalized | 8.10 | A | 4.10 | A |
| | Inglewood Ave & 135 th Street (W) | Signalized | 7.10 | A | 27.00 | C |

As shown in **Table 5** above, all intersections within the Study area are operating at an acceptable LOS (D/E or better). The improvement in LOS from Existing conditions to Cumulative conditions is because of the peak hour factor (PHF). The PHFs that were calculated from the counts were, approximately 0.6, which is considerably lower than the 0.92 default for future analysis. The detailed intersection analysis LOS worksheets for all conditions are shown in **Appendix C**.

IV. Proposed Project Conditions

Project Traffic

The first step in analyzing the traffic conditions with the Project is to estimate the number of new trips expected to be generated by the proposed Project. Trip generation estimates for the Project are based on daily and peak hour trip generation rates obtained from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition). **Table 6** summarizes trip generation estimates for the Project and lists the specific land use for the Project.

Table 6: Net Project Trip Generation

| Land Use | Units | Amount | AM Peak Hour | | | PM Peak Hour | | | ADT ¹ |
|--|-------|--------|--------------|-----------|-----------|--------------|-----------|-----------|------------------|
| | | | In | Out | Total | In | Out | Total | |
| Proposed Project Trips | | | | | | | | | |
| Fast-Food Restaurant w/ Drive-thru (ITE Code: 934) | KSF | 3.781 | 86 | 83 | 169 | 65 | 60 | 125 | 1768 |
| Pass-by Trips (52.5% Daily, 50% AM, 55% PM) | | | -43 | -42 | -85 | -36 | -33 | -69 | -928 |
| Total Trip Generation | | | 43 | 41 | 84 | 29 | 27 | 56 | 840 |
| Trip Generation Rates | | | | | | | | | |
| Fast-Food Restaurant w/ Drive-thru | KSF | | 22.71 | 21.859 | 44.61 | 17.176 | 15.854 | 33.03 | 467.48 |

¹ADT=Average Daily Traffic, the daily trips generated by a site, in vehicles.

Since the Project is a fast food restaurant with drive-thru, a trip reduction was applied to account for the pass-by trips for the commercial (restaurant) land use component of the Project. A pass-by trip is when a driver makes a stop on the way to their primary destination without changing their route. The driver is already on the road and is attracted to the site by passing it on an adjacent street. The pass-by trip reduction was calculated using ITE guidelines. Based on **Table 6** shown above, the proposed Project is anticipated to generate 840 net daily trips, 84 weekday AM peak hour trips, and 56 weekday PM peak hour trips.

Project Trip Distribution and Assignment

Trip distribution patterns were developed to assign the Project trips across the roadway network within the study area. **Figure 6** shows the new Project driveways and lane configurations. **Figure 7** shows the trip distribution percentages at each of the study intersections and **Figure 8** shows the corresponding Project trips at the intersections.

Existing (2024) With Project Operations

Existing (2024) with Project conditions add the Project traffic shown in **Table 6** to the existing conditions to identify potential traffic impacts associated with the proposed Project. The resulting existing with project AM peak and PM peak traffic volumes are shown in **Figure 9**. **Table 7** summarizes the projected delay and LOS at the signalized and unsignalized study intersections and compares it to without Project existing conditions to assess any significant traffic impacts of the Project. The intersection analysis worksheets are provided in **Appendix C**.

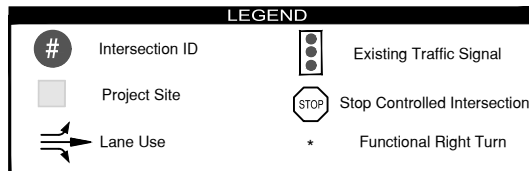
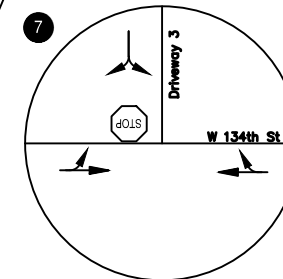
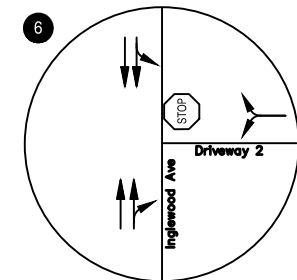
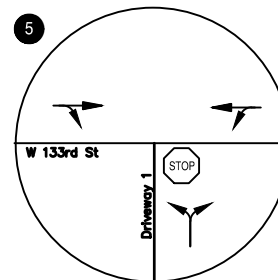
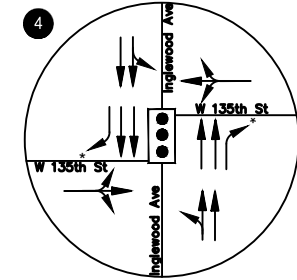
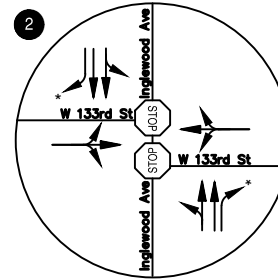
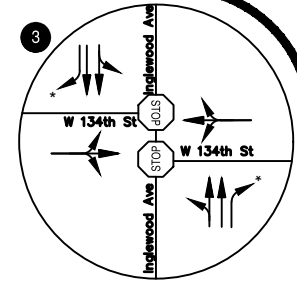
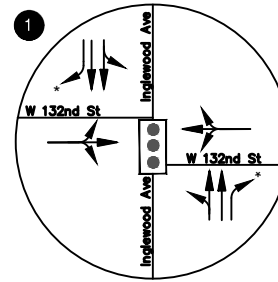
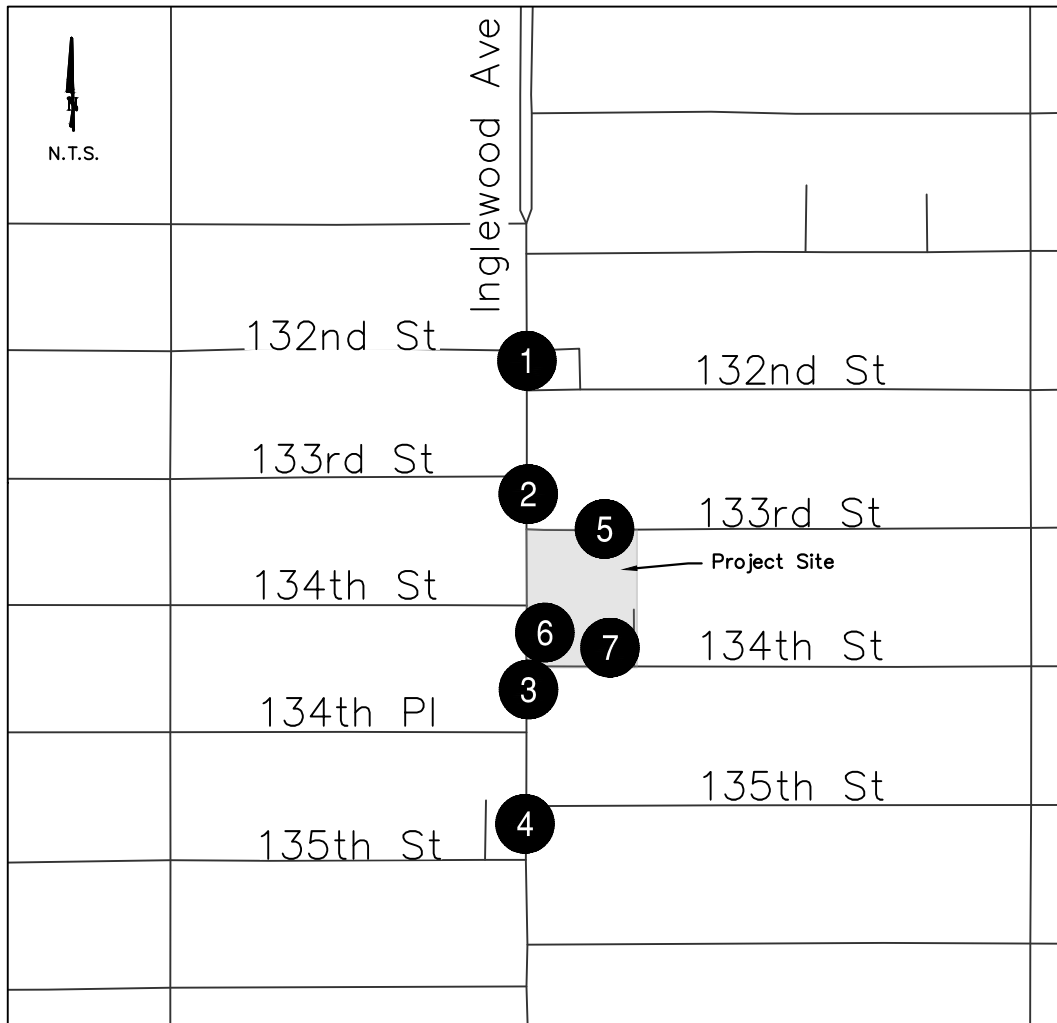
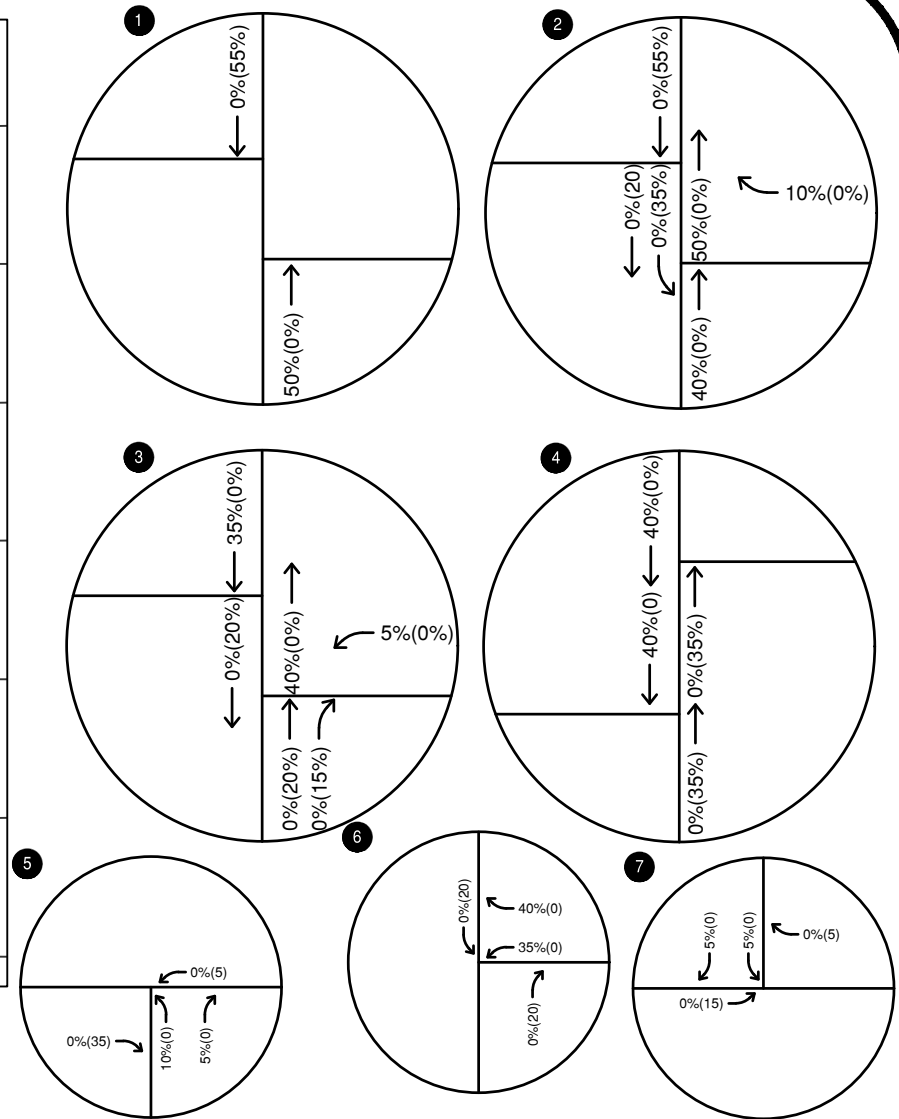
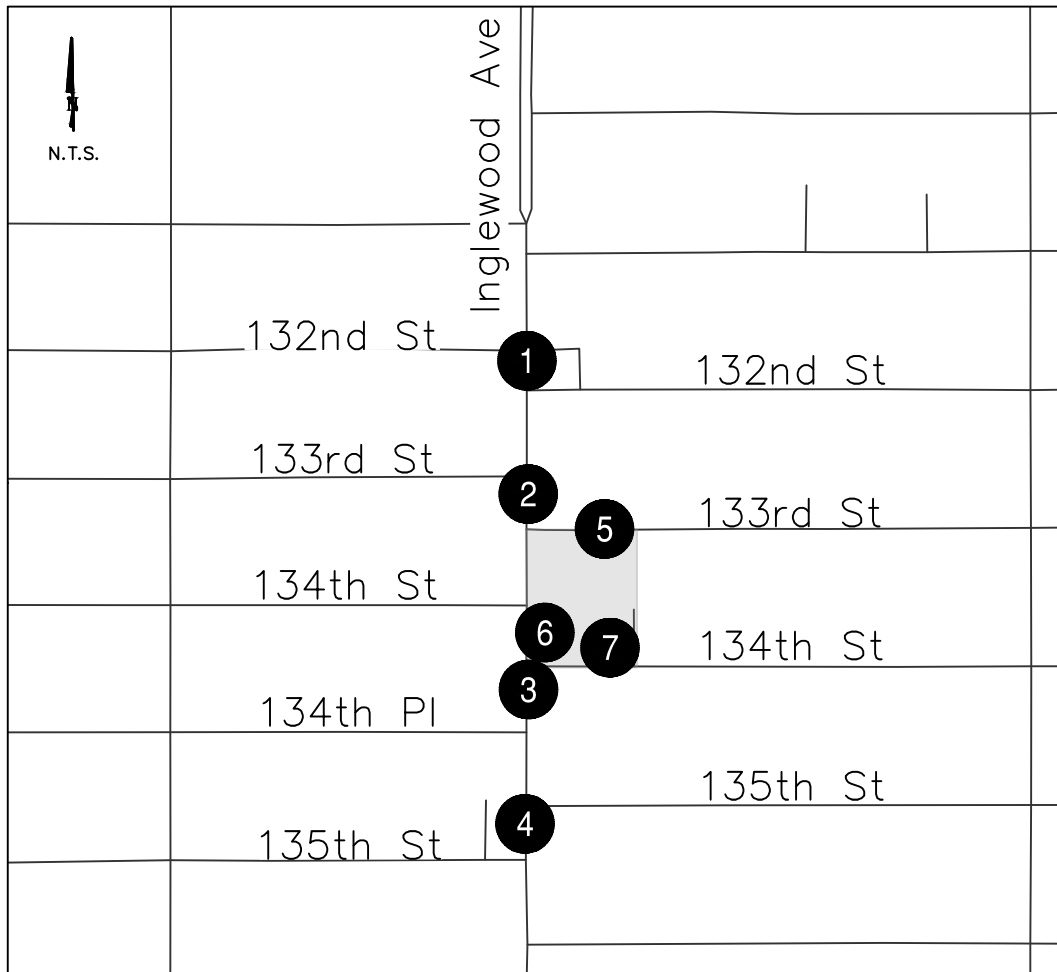
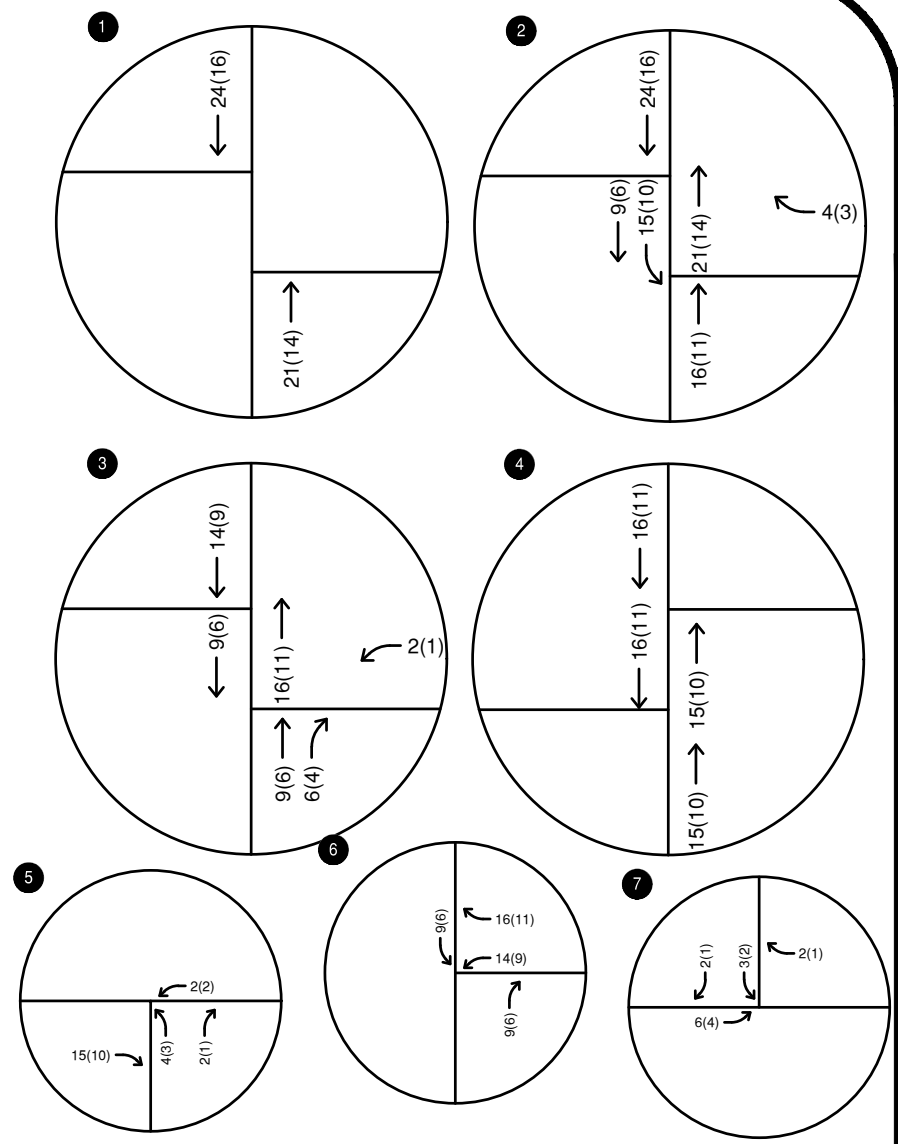
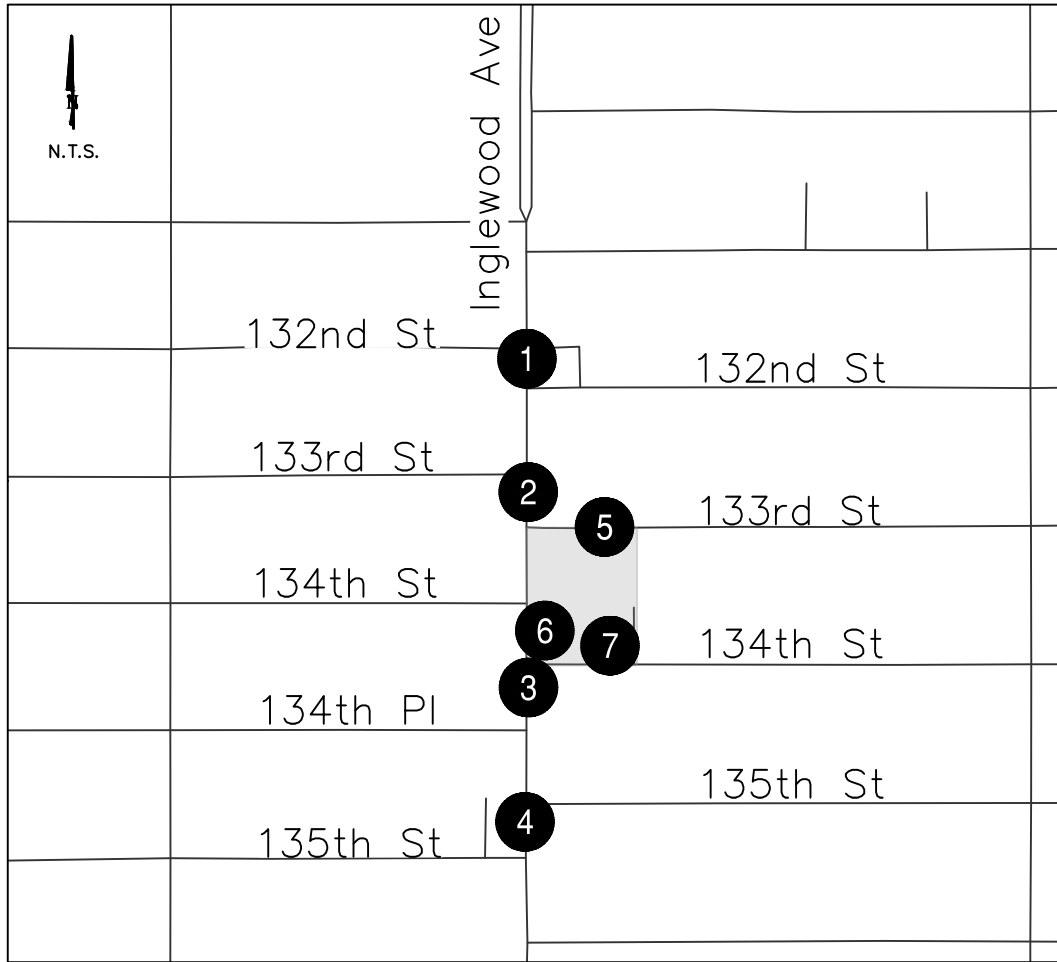


FIGURE 6 - WITH PROJECT LANE CONFIGURATIONS



| LEGEND | |
|--------|--------------------------|
| # | Intersection ID |
| ■ | Project Site |
| xx(xx) | AM(PM) Peak Hour Volumes |

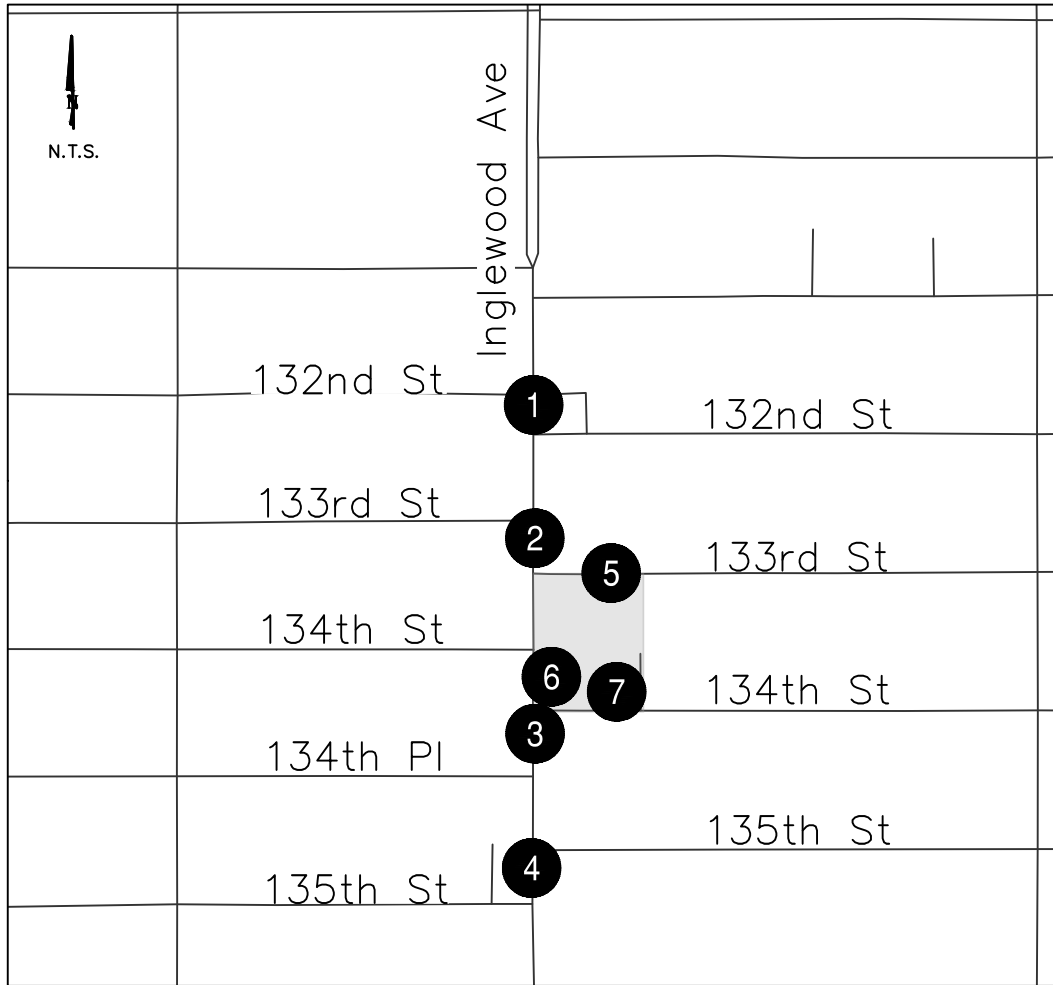
FIGURE 7 - PROJECT TRIP DISTRIBUTION



LEGEND

- # Intersection ID
- Project Site
- xx(xx) AM(PM) Peak Hour Volumes

FIGURE 8 - PROJECT TRIPS



| LEGEND | |
|--------|--------------------------|
| # | Intersection ID |
| ■ | Project Site |
| xx(xx) | AM(PM) Peak Hour Volumes |

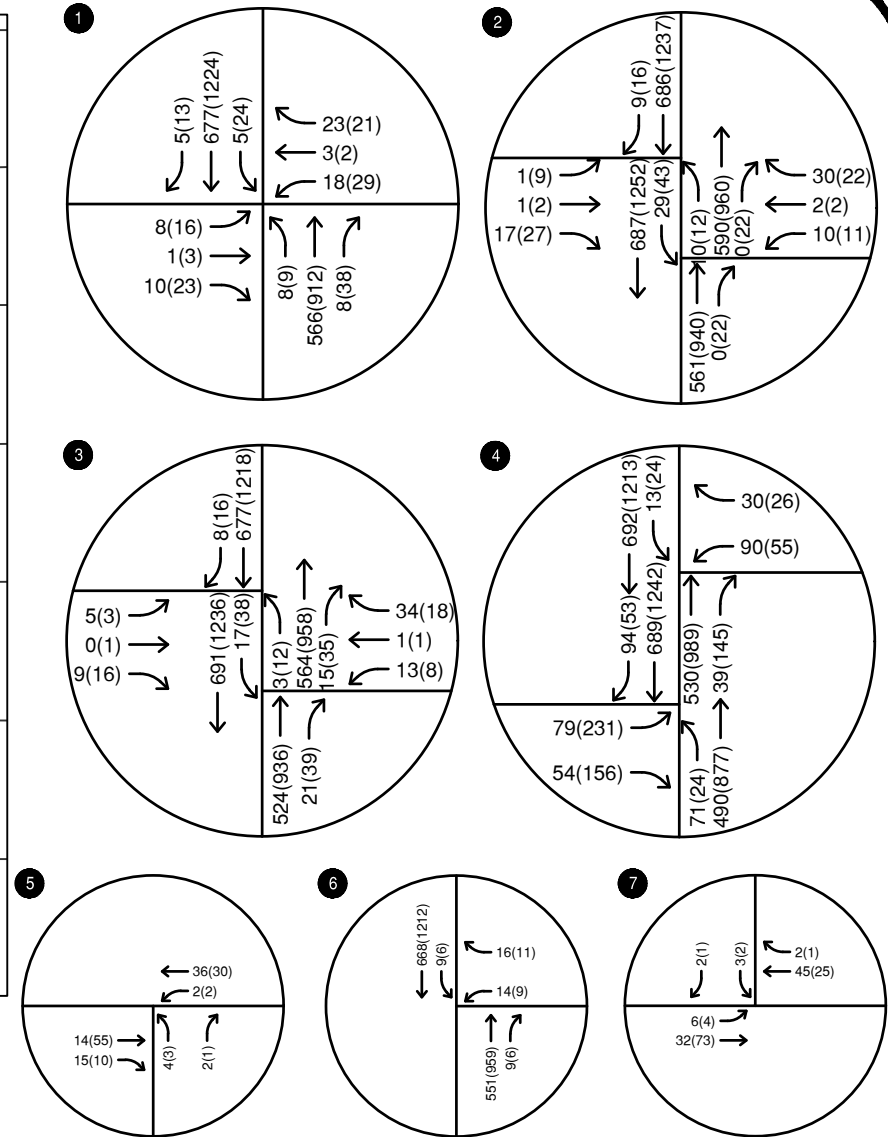


FIGURE 9 - EXISTING (2024) WITH PROJECT INTERSECTION AM & PM PEAK HOUR VOLUMES

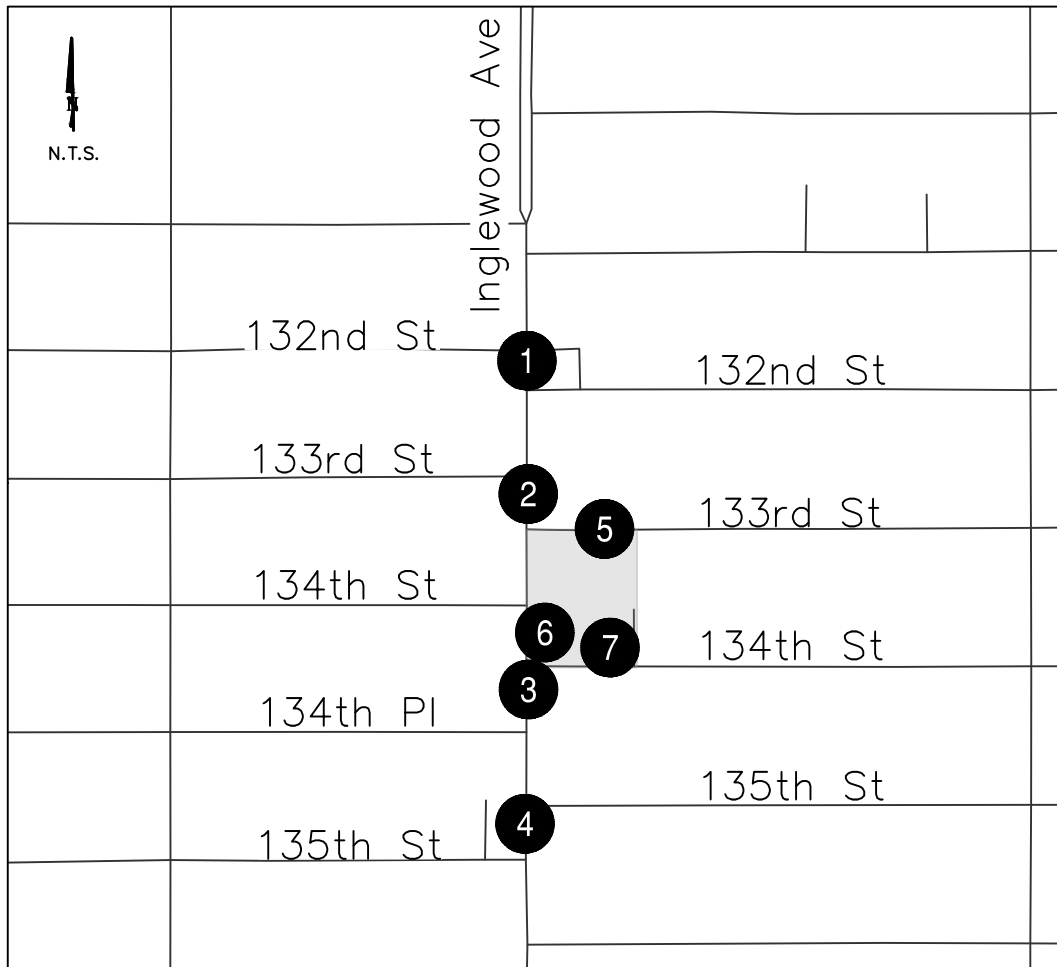
Table 7: Intersection LOS Comparison – Existing (2024) Without Project vs With Project

| No. | Intersection | AM Peak Hour | | | | | | PM Peak Hour | | | | | |
|-----|---|---------------|-----|-----------------------|-----|-----------------|-------------------------|---------------|-----|-----------------------|-----|-----------------|-------------------------|
| | | Existing | | Existing with Project | | Change In Delay | Project Related Effect? | Existing | | Existing with Project | | Change in Delay | Project Related Effect? |
| | | Delay (s/veh) | LOS | Delay (s/veh) | LOS | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS | | |
| 1 | Inglewood Ave & 132 nd Street | 11.70 | B | 11.80 | B | 0.10 | No | 13.90 | B | 14.00 | B | 0.10 | No |
| 2 | Inglewood Ave & 133 rd Street | 14.02 | B | 14.40 | B | 0.38 | No | 37.61 | E | 39.10 | E | 1.49 | No |
| 3 | Inglewood Ave & 134 th Street | 14.79 | B | 14.99 | B | 0.20 | No | 29.38 | D | 32.06 | D | 2.68 | No |
| 4 | Inglewood Ave & 135 th Street (E) | 11.60 | B | 11.50 | B | -0.10 | No | 5.50 | A | 5.50 | A | 0.00 | No |
| | Inglewood Ave & 135 th Street (W) | 10.20 | B | 10.10 | B | -0.10 | No | 81.60 | F | 80.90 | F | -0.70 | No |
| 5 | Project Driveway 1 – 133 rd Street | - | - | 8.73 | A | 8.73 | No | - | - | 8.94 | A | 8.94 | No |
| 6 | Project Driveway 2 – Inglewood Ave | - | - | 15.67 | C | 15.67 | No | - | - | 33.50 | D | 33.50 | No |
| 7 | Project Driveway 3 – 134 th Street | - | - | 8.84 | A | 8.84 | No | - | - | 8.89 | A | 8.89 | No |

As shown in **Table 7** above, most intersections within the study area are projected to operate at an acceptable LOS (D/E or better) except for the intersection of Inglewood and 135th Street (W), which operates at an LOS F during the PM peak hour. However, the proposed Project is not anticipated to result in any significant impacts under existing with Project conditions since the intersection was already operating at LOS F in the existing condition. The detailed Synchro worksheets for all conditions are shown in **Appendix C**.

Cumulative (2035) With Project Operations

Cumulative (2035) with Project conditions add the Project traffic shown in **Table 6** to the cumulative without Project conditions to identify potential traffic impacts associated with the proposed Project. The resulting Cumulative with Project AM peak and PM peak traffic volumes are shown in **Figure 10**, which summarizes the projected delay and LOS at the signalized and unsignalized study intersections and compares it to without Project cumulative conditions to assess any significant traffic impacts of the Project. The intersection analysis worksheets are provided in **Appendix C**.



| LEGEND | |
|--------|--------------------------|
| # | Intersection ID |
| ■ | Project Site |
| xx(xx) | AM(PM) Peak Hour Volumes |

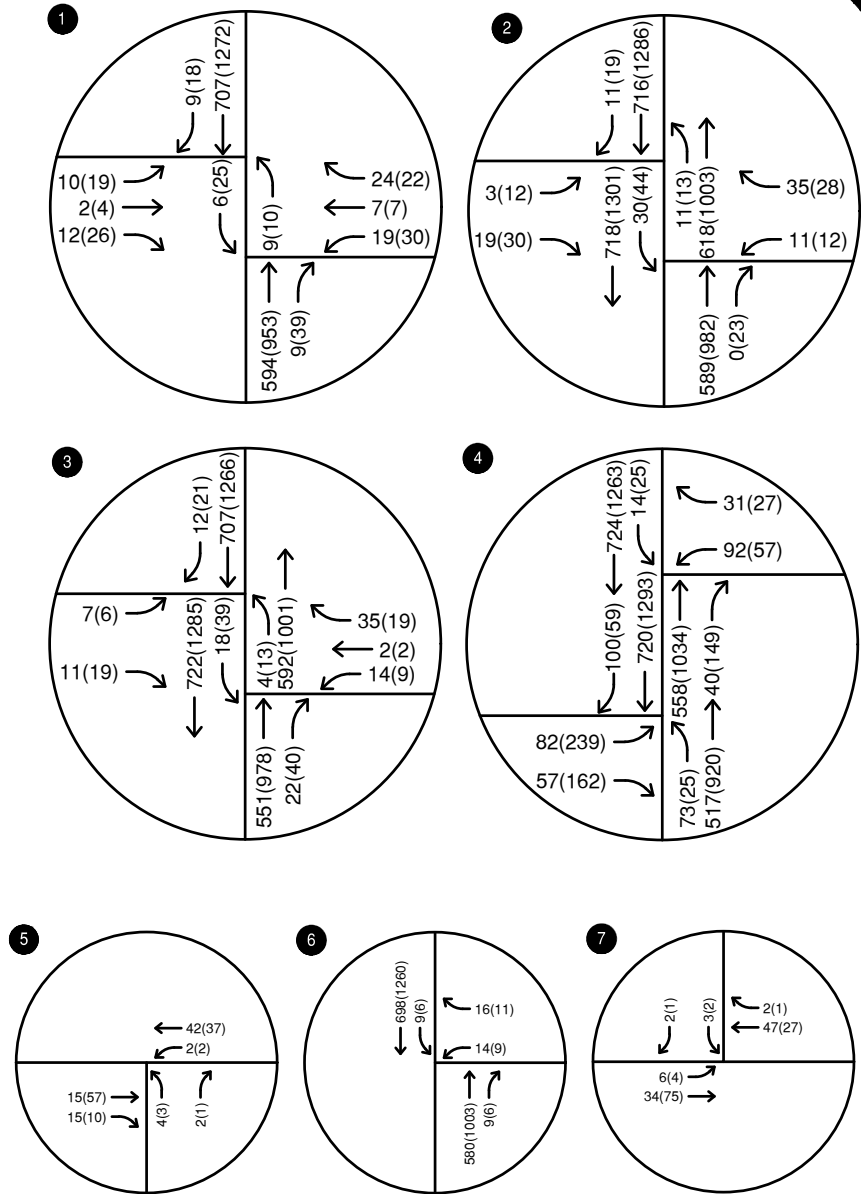


FIGURE 10 - FUTURE YEAR (2035) WITH PROJECT INTERSECTION AM & PM PEAK HOUR VOLUMES

Table 8: Intersection LOS Comparison – Cumulative (2035) Without Project vs With Project

| No. | Intersection | AM Peak Hour | | | | | | PM Peak Hour | | | | | |
|-----|---|---------------|-----|-------------------------|-----|-----------------|-------------------------|---------------|-----|-------------------------|-----|-----------------|-------------------------|
| | | Cumulative | | Cumulative with Project | | Change In Delay | Project Related Effect? | Cumulative | | Cumulative with Project | | Change in Delay | Project Related Effect? |
| | | Delay (s/veh) | LOS | Delay (s/veh) | LOS | | | Delay (s/veh) | LOS | Delay (s/veh) | LOS | | |
| 1 | Inglewood Ave & 132 nd Street | 11.60 | B | 11.60 | B | 0.00 | No | 13.60 | B | 13.70 | B | 0.10 | No |
| 2 | Inglewood Ave & 133 rd Street | 14.17 | B | 14.57 | B | 0.40 | No | 44.01 | E | 45.94 | E | 1.93 | No |
| 3 | Inglewood Ave & 134 th Street | 15.92 | C | 16.16 | C | 0.24 | No | 33.79 | D | 36.70 | E | 2.91 | No |
| 4 | Inglewood Ave & 135 th Street (E) | 8.10 | A | 8.00 | A | -0.10 | No | 4.10 | A | 4.10 | A | 0.00 | No |
| | Inglewood Ave & 135 th Street (W) | 7.10 | A | 7.00 | A | -0.10 | No | 27.00 | C | 26.80 | C | -0.20 | No |
| 5 | Project Driveway 1 – 133 rd Street | - | - | 8.75 | A | 8.75 | No | - | - | 8.98 | A | 8.98 | No |
| 6 | Project Driveway 2 – Inglewood Ave | - | - | 16.38 | C | 16.38 | No | - | - | 37.16 | E | 37.16 | No |
| 7 | Project Driveway 3 – 134 th Street | - | - | 8.86 | A | 8.86 | No | - | - | 8.91 | A | 8.91 | No |

As shown in **Table 8** above, all intersections within the study area are projected to operate at an acceptable LOS (D/E or better). Therefore, the proposed Project is not anticipated to result in any significant impacts under existing with Project conditions. The detailed ICU worksheets for all conditions are shown in **Appendix C**.

Vehicle Miles Traveled Analysis

Senate Bill 743 (SB 743)

Senate Bill 743 (SB 743) requires project reviews under CEQA to evaluate the transportation impacts of new developments in terms of greenhouse gas emissions using VMT. As of December 2018, the Natural Resources Agency finalized updates to the State CEQA Guidelines to incorporate SB 743 (i.e., VMT). To assist in implementation of VMT as the primary measure of a transportation impact under CEQA, the OPR published an updated Technical Advisory on Evaluating Transportation Impacts in CEQA (OPR Technical Advisory) in December 2018. Statewide application of the new guidelines went into effect on July 1, 2020. The City of Hawthorne adopted their VMT policy on May 23, 2023.

Screening Criteria

To identify when a project may be presumed to have a less than significant transportation impact concerning VMT without conducting a detailed study, the OPR Guidelines provide screening criteria for land development projects that meet one of the screening criteria below:

- **Non-Retail Project Trip Generation Screening:** The development project generates a net increase of fewer than 110 daily vehicle trips.
- **Projects Near High Quality Transit:** The development project is located near (within one-half mile) an existing major transit stop² or a high-quality transit corridor³. This presumption would not apply, however, if project-specific or location-specific information indicates that the project will still generate significant levels of VMT. For example, the presumption might not be appropriate if the project:
 - Has a floor area ratio of less than 0.75;
 - Includes more parking than required by the jurisdiction;
 - Is inconsistent with the applicable Sustainable Communities Strategy;
 - Replaces affordable residential units with a smaller number of market-rate residential units.
- **Affordable Housing:** The development project has 100% affordable units excluding manager's units.
- **Local-Serving Retail/Essential Service:** The development project contains retail or local essential services uses fewer than 50,000 SF of gross floor area.
- **Low VMT-Generation Area Screening:** The development project is located in a low VMT area.

A development project needs to meet only one of the above screening criteria to be presumed to have a less than significant impact on transportation and circulation, under CEQA and pursuant to SB 743.

Retail Project Trip Generation Screening

The Project includes only a retail component (3,781 SF Fast Food Restaurant). Based on the above screening criteria, the Project would screen out of VMT analysis because the 3,781 SF restaurant is less

² The OPR Technical Advisory defines a "major transit stop" as a site containing an existing rail transit station, a ferry terminal served by either a bus or rail transit service, or the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods (California Public Resources Code §21064.3).

³ The OPR Technical Advisory defines a "high-quality transit corridor" as a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours (California Public Resources Code §21155).

than the 50,000 gross SF screening criterion. The retail component of the Project can be local-serving in nature and presumed to have a less than significant VMT impact.

Proximity to Transit-Based Screening

Currently, there are no transit routes near the proposed Project that meet the criteria to be considered a major transit stop or high-quality transit corridor. Therefore, the Project does not screen out of a VMT analysis based on transit priority area screening.

Residential Land Use Based Screening

Residential development projects with 100% affordable units would screen out of VMT analysis and presumed to have a less than significant VMT impact. However, the proposed Project does not propose any residential land uses. Therefore, the Project does not screen out of a VMT analysis based on affordable units.

Low VMT-Generation Area Screening

The City of Hawthorne's VMT calculator was used to estimate the Project VMT to compare it to the county threshold (15% below the average). The results from the VMT calculator are shown in **Appendix E**. Because the proposed Project is in a low VMT area, the Project screens out of a VMT analysis based on the low VMT-Generation Area screening criteria.

Screening Conclusion

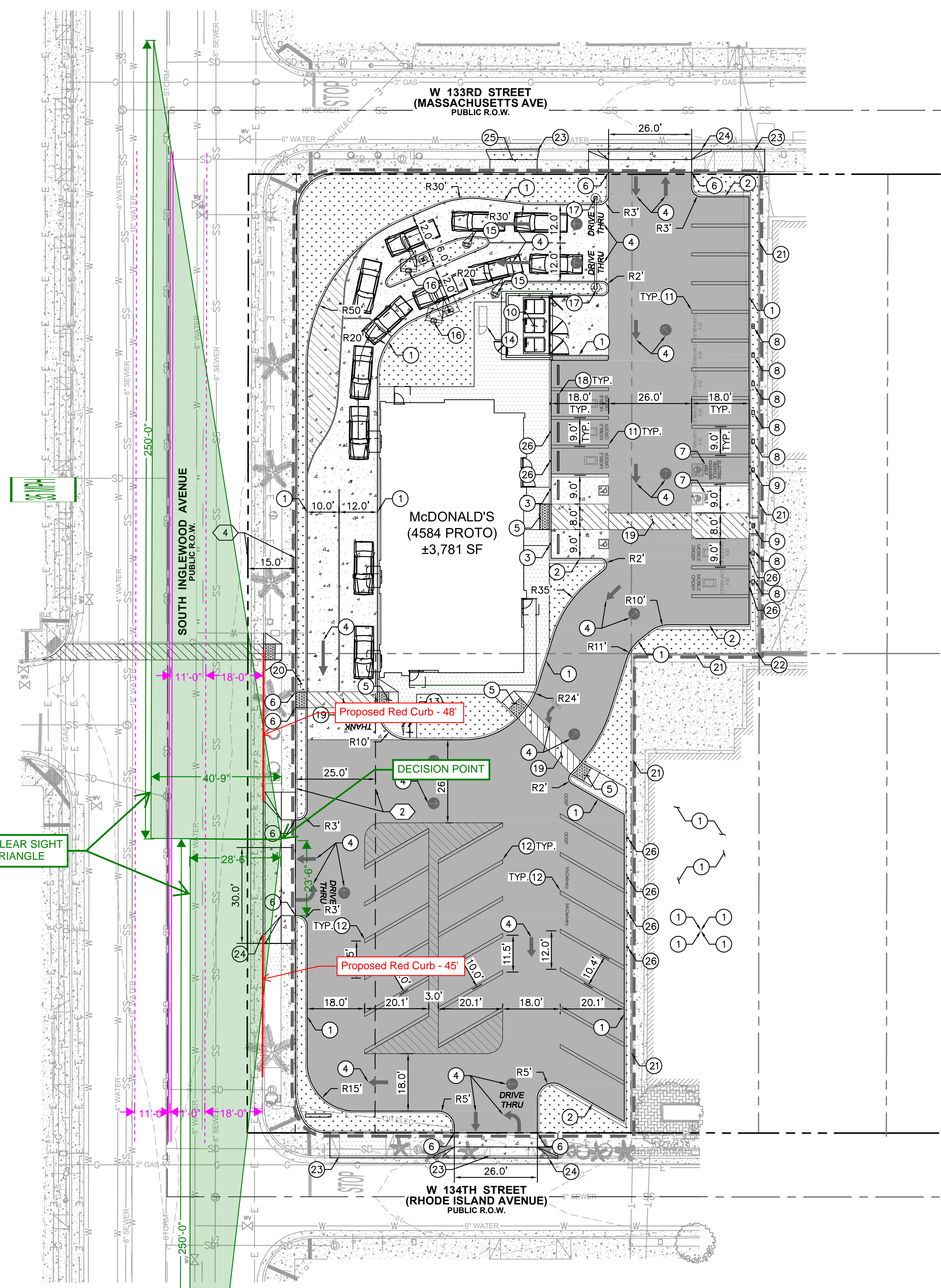
The proposed Project meets two of the above screening criteria (Retail Project Site Plan Screening and Low VMT-Generation Area screening). The Project would screen out of further VMT analysis based on the land-use, size, and low VMT area and is presumed to have a less than significant transportation impact under CEQA pursuant to SB 743.

V. Sight Distance Analysis

A sight distance analysis was conducted for the three full access Project driveways, one along Inglewood Avenue, one along 133rd Street, and one along 134th Street. The analysis identified the potential parking restrictions that will be needed as a part of the Project and will be based on the stopping sight distance criteria established in the latest American Association of State Highway and Transportation Officials (AASHTO) guidelines, *A Policy on Geometric Design of Highways and Streets, 2018*. For Inglewood Avenue, the sight distance analysis assumed a design speed of 35 miles per hour (mph) based on the posted speed limit, which requires 250 feet of stopping sight distance. The sight triangles for the three Project driveways are shown in **Figure 11** on the next page. To provide a clear line of sight for vehicles exiting the Inglewood Avenue driveway, 48 feet of red curb north of the driveway and 45 feet of red curb south of the driveway is recommended.

Along 133rd Street, existing on street parking is only allowed on the north side of the street. Along 134th Street, existing on street parking is only allowed on the south side of the street. Since on-street parking is restricted on the driveway sides of the streets, no sight distance analysis was required for the driveways along 133rd Street and 134th Street. Therefore, no additional parking restrictions are required for the driveways along 133rd Street and 134th Street.

Drawing name: K:\ORLANDO\194015042 - Hawthorne (4-5205)\CADD\Exhibits\Entitlement Package\C1.0 - Preliminary Site Plan.dwg Cl.0 - Preliminary Site Plan Jul 29, 2024 12:54pm by: jerry.sheng
 This document, together with the concept and design presented herein, is an instrument of service, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

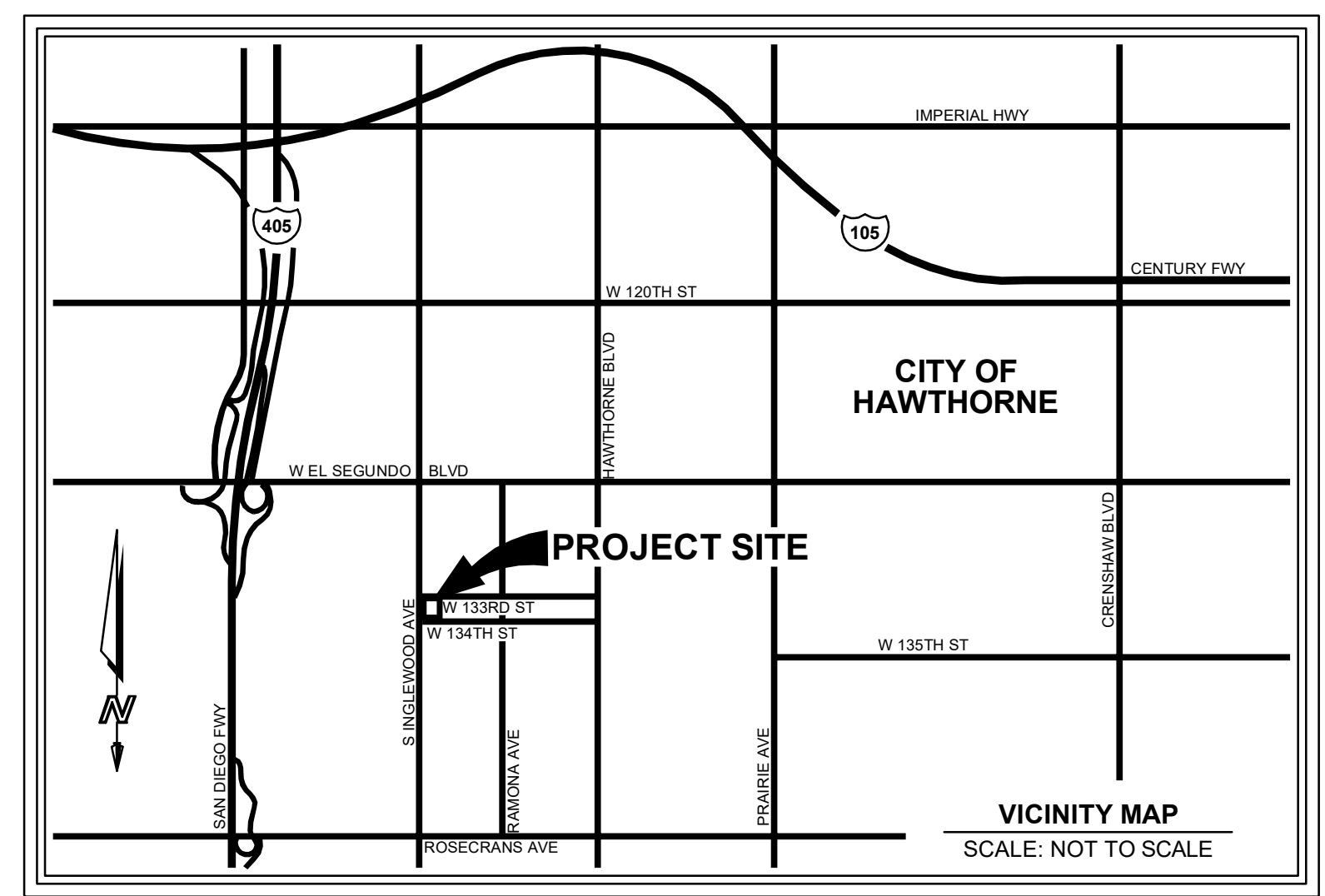


LEGEND:

- CENTER LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE / LEASE LINE
- EASEMENT LINE / SETBACK LINE
- APPROXIMATE LIMIT OF WORK LINE
- [Pattern] STANDARD DUTY CONCRETE PAVEMENT
- [Pattern] HEAVY DUTY CONCRETE PAVEMENT
- [Pattern] LANDSCAPE/PLANTER AREA
- [Pattern] HEAVY DUTY ASPHALT PAVEMENT
- [Pattern] DETECTABLE WARNING SYSTEM
- [Symbol] SIGN POST
- [Symbol] ACCESSIBLE PARKING SPACE
- [Symbol] NUMBER OF PARKING SPACES

LEGAL DESCRIPTION

SUBJECT PARCEL: APN: 4042-011-024 AND 4042-011-026
 LOTS 260, 322 AND 323 OF INGLEDAL ACRES, IN THE CITY OF HAWTHORNE, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA AS PER MAP RECORDED IN BOOK 20, PAGES 182 AND 183 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.
 EXCEPT THEREFROM ANY MOBILE/MANUFACTURED HOMES LOCATED THEREON.



SITE DATA

PROJECT DESCRIPTION: DEMOLITION OF EXISTING CONCRETE PADS AND WALLS. NEW CONSTRUCTION OF A MCDONALD'S DRIVE THRU RESTAURANT AND PARKING LOT.

ADDRESS: 13314 S INGLEWOOD AVE, HAWTHORNE, CA 90250

APN: 4042-011-024 AND 4042-011-026

ZONING DISTRICT: C-3 GENERAL COMMERCIAL (EXISTING & PROPOSED)

ADJACENT ZONING DISTRICTS:
 N: C-3 GENERAL COMMERCIAL
 E: R-3 HIGH DENSITY RESIDENTIAL
 S: C-3 GENERAL COMMERCIAL

LAND USE: RESIDENTIAL

ADJACENT LAND USE:
 N: COMMERCIAL
 E: RESIDENTIAL
 S: COMMERCIAL

FLOOD ZONE: ZONE X - AREAS DETERMINED TO BE OUTSIDE THE 0.02% ANNUAL CHANCE FLOODPLAIN PER MAP NO. 06037C1790F EFFECTIVE 9/26/2008

| | | | |
|-----------------------|-------------|-----------|--|
| TOTAL DISTURBED AREA: | 38,298 S.F. | (0.88 AC) | |
| TOTAL PAD AREA: | 3,781 S.F. | (0.09 AC) | |
| TOTAL LOT AREA: | 42,020 S.F. | (0.96 AC) | |

LOT COVERAGE:

| | | | |
|------------------|-------------|-----------|-------|
| TOTAL SITE AREA: | 38,298 S.F. | (0.88 AC) | 100% |
| BUILDING AREA: | 3,781 S.F. | (0.09 AC) | 9.9% |
| IMPERVIOUS AREA: | 29,274 S.F. | (0.67 AC) | 76.4% |
| LANDSCAPE AREA: | 5,215 S.F. | (0.12 AC) | 13.7% |

PARKING/LANDSCAPE BUFFER:
 FRONT: 0.0'
 REAR: 0.0'
 SIDE (N): 0.0'
 SIDE (S): 0.0'

PARKING SUMMARY: MCDONALD'S: 3,781 S.F. (1 STALL/100 S.F.) = 38 STALLS REQUIRED PER CITY CODE

- ADA PARKING FOR 26-50 PARKING STALLS = 2 ADA PARKING STALLS REQUIRED, PER 2016 CBC.
- FUTURE EV FOR 26-50 PARKING STALLS = 8 FUTURE EV STALLS REQUIRED PER 2016 CALGREEN
- 1 FUTURE EV STALL MUST BE VAN ACCESSIBLE.

TOTAL NUMBER OF PARKING SPACES PROVIDED = 38

| REQUIRED | PROVIDED |
|----------|----------|
| 28 | 28 |
| 1 | 1 |
| 8 | 8 |
| 2 | 2 |
| 2 | 2 |
| 38 | 38 |

(INCLUDING EV READY)

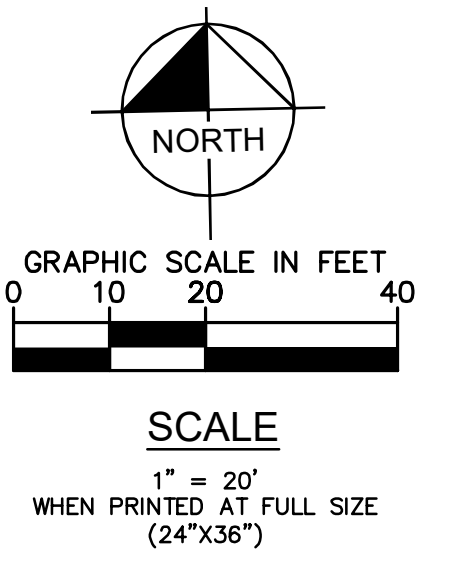
PARKING TABLE:
 STANDARD: 28
 COMPACT (C): 1
 MOTORCYCLE: 1
 EV CHARGING: 8
 EV READY: 2
 ACCESSIBLE: 2
 TOTAL: 38

CONSTRUCTION NOTES:

- CONCRETE CURB
- 18" WALK-OFF CURB
- ACCESSIBLE PARKING STALL SIGN
- DIRECTIONAL MARKING PER PLAN
- ACCESSIBLE RAMP WITH DETECTABLE WARNING (TRUNCATED DOMES)
- JOIN EXISTING CURB, CURB & GUTTER, SIDEWALK.
- "ELECTRIC VEHICLE CHARGING ONLY" IN 12" HIGH WHITE LETTERS AT THE END OF PARKING STALL
- FUTURE E/V CHARGING STATION. CONDUIT TO BE RAN TO STALL FOR FUTURE CONNECTION
- PROPOSED E/V CHARGING STATION.
- COVERED TRASH ENCLOSURE AND RECYCLING BIN STORAGE
- STANDARD 90° PARKING STALL STRIPING.
- STANDARD 60° PARKING STALL STRIPING.
- SHORT TERM BIKE RACK
- LONG TERM BIKE RACK
- PREVIEW BOARD
- ORDER BOARD
- HEIGHT DETECTOR POLE
- INSTALL WHEELSTOPS FOR PARKING SPACES ADJACENT TO WALKWAYS
- ACCESSIBLE PATH OF TRAVEL STRIPING. ACCESSIBLE PATHS SHALL BE ENHANCED PAVING.
- ADA PATH OF TRAVEL SIGN
- EXISTING CMU WALL TO REMAIN
- EXISTING POWER POLE TO REMAIN
- EXISTING DRIVEWAY TO BE REMOVED
- PROPOSED DRIVEWAY
- PROPOSED SIDEWALK, PARKWAY, CURB AND GUTTER TO MATCH EXISTING SURROUNDING
- MCDONALD'S SITE SIGNAGE
- CONCRETE CURB AND GUTTER
- 24" X 24" JENSEN PRECAST DROP INLET WITH CATCH BASIN FILTER INSERT FOR TRASH CAPTURE.
- 3.0' WIDE VALLEY GUTTER

TITLE REPORT EXCEPTIONS

- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS RESERVED IN A DOCUMENT;
 RESERVED BY: HOPPER-MCFARLAND-DUNCAN COMPANY
 PURPOSE: PERTAINING TO THE LAYING OF WATER PIPES
 RECORDING DATE: MARCH 17, 1913
 RECORDING NO: BOOK 5379, PAGE 316, OF DEEDS
 AFFECTS: SAID LAND
 AND RECORDING DATE: JULY 29, 1915
 AND RECORDING NO: BOOK 6064, PAGE 289, OF DEEDS (AFFECTS SUBJECT PARCEL, PLOTTABLE AS SHOWN)
- EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS CONDEMNED BY AN INSTRUMENT, ENTITLED: FINAL ORDER OF CONDEMNATION
 COURT: SUPERIOR COURT OF THE STATE OF CALIFORNIA
 CAUSE NO.: 671543
 IN FAVOR OF: COUNTY OF LOS ANGELES
 PURPOSE: PUBLIC ROAD AND HIGHWAY
 RECORDING DATE: JULY 10, 1958
 RECORDING NO: 1958-3356, IN BOOK M65, PAGE 133, OF OFFICIAL RECORDS
 AFFECTS: SAID LAND (AFFECTS SUBJECT PARCEL, PLOTTABLE AS SHOWN)



| | | | | | | | | | | | |
|------------|-------|------|-------------|--|----------------|--------------------|--|----------------------------|--|------------------------------|-------------|
| 811 | ISSUE | DATE | DESCRIPTION | XXX | ENGINEERS SEAL | Kimley»Horn | CITY OF CITY | McDonald's USA, LLC | CITY OF CITY | PRELIMINARY SITE PLAN | C1.0 |
| | | | | DRAWN BY: XX CHECKED BY: XXX RECOMMENDED | | | APPROVED BY: _____ CITY ENGINEER RCE # _____ EXP _____ DATE _____ | | XXXXXX STREET CITY, STATE, ZIP CODE | | |

VI. Left Turn Pocket Analysis

An analysis was completed to determine if a southbound left-turn pocket is warranted on Inglewood Avenue at the Project Driveway. The analysis references the existing conditions and the Project trip generation. Guidelines included in the National Cooperative Highway Research Program (NCHRP) Report 745 Left-Turn Accommodations at Unsignalized Intersections (2013) were also referenced to evaluate the need for a left turn pocket.

Average Daily Traffic (ADT) counts with lane utilization information were collected along Inglewood Avenue. Based on the counts (shown in **Appendix B**), vehicles utilize the #1 and #2 lanes along Inglewood Avenue evenly, with the southbound direction being the higher volume direction. Additionally, the Project traffic used in the operational analysis (**Figure 8**) shows that the volume of vehicles making a southbound left into the proposed site are under 10 vehicles per hour for both the AM and PM time periods.

Based on guidance from the NCHRP Report 745, the following information is considered when determining the need for a left turn pocket.

- Development (urban/suburban)
- Number of lanes and approaches
- Peak-hour left turn and major roadway volume
- Design consistency within the corridor

After consideration of NCHRP guidance and review of the existing conditions and Project traffic, it is not recommended to provide a southbound left-turn pocket into the Project site. Inglewood Avenue (within the study area) provides two lanes with on-street parking in each direction. The average daily traffic along Inglewood Avenue is 21,619 vehicle per day and the existing roadway configuration is consistent within other locations in the study area.

With the addition of an exclusive left turn pocket, on-street parking in both directions would need to be removed and would result in design inconsistencies along Inglewood Avenue within the study area. The offset legs at the intersection of Inglewood Avenue and 134th Street in addition to a left turn pocket into the Project site would result in poor access management due to reduced spacing between intersections.

The additional traffic generated by the Project could be accommodated without the addition of a left turn pocket, since the low volume of vehicles turning into the site would be able to queue in the travel lane without significantly increasing delay for through vehicle traffic. Adequate access to the site would still be provided via the driveways on 133rd Street and 134th Street.

VII. Crosswalk Warrant Analysis

Based on coordination with City staff, a crosswalk treatment warrant analysis at the intersection of Inglewood Avenue and W 134th Street was performed to determine the most suitable crosswalk treatment. The two possible crosswalk treatments considered include Pedestrian Hybrid Beacons (PHBs) and Rectangular Rapid Flashing Beacons (RRFBs). Because PHBs and RRFBs operate similarly, only criteria for PHB's were analyzed as a more conservative approach. Additionally, the proximity to the signalized intersections at Inglewood Avenue and 132nd/135th Street would make PHB's more appropriate for traffic flow and coordination.

The analysis references the existing conditions including traffic volumes, speed limit, and roadway configuration, as well as the Project trip generation. The Federal Highway Administration's (FHWA) *Field Guide for Selecting Countermeasures at Uncontrolled Pedestrian Crossing Locations* and the California Manual of Uniform Traffic Control Devices (CA MUTCD) were used as guidance for determining the appropriate treatment at the intersection.

FHWA Analysis

The FHWA guidelines identify the following three criteria to determine the type of crosswalk treatment:

1. Roadway Configuration
2. Vehicle Average Daily Traffic (ADT)
3. Speed Limit

Table 9 below shows the criteria for the different types of countermeasures along a roadway segment or at an intersection.

Table 9: FHWA Countermeasures

| Roadway Configuration | Speed Limit | | | | | | | | |
|--|---------------------|----------------|----------------|---------------------------|----------------|----------------|----------------------|----------------|----------------|
| | ≤30 mph | | | 35 mph | | | ≥40 mph | | |
| | Vehicle AADT <9,000 | | | Vehicle AADT 9,000–15,000 | | | Vehicle AADT >15,000 | | |
| 2 lanes* | 1 2 3 4 5 6 | 1 3 5 6 7 | 1 3 5 6 7 | 1 3 4 5 6 | 1 3 5 6 7 | 1 3 5 6 7 | 1 3 4 5 6 7 | 1 3 5 6 7 | 1 3 5 6 7 |
| 3 lanes with raised median ¹ | 1 2 3 4 5 | 1 3 5 7 | 1 3 5 7 | 1 3 4 5 7 | 1 3 5 7 | 1 3 5 7 | 1 3 4 5 7 | 1 3 5 7 | 1 3 5 7 |
| 3 lanes w/o raised median ¹ | 1 2 3 4 5 6 7 | 1 3 5 6 7 | 1 3 5 6 7 | 1 3 4 5 6 7 | 1 3 5 6 7 | 1 3 5 6 7 | 1 3 4 5 6 7 | 1 3 5 6 7 | 1 3 5 6 7 |
| 4+ lanes with raised median ¹ | 1 3 5 | 1 3 5 7 | 1 3 5 7 | 1 3 5 7 | 1 3 5 7 | 1 3 5 7 | 1 3 5 7 | 1 3 5 7 | 1 3 5 7 |
| 4+ lanes w/o raised median ² | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 | 1 3 5 6 7 8 |

*One lane in each direction ¹One lane in each direction with two-way left-turn lane ²Two or more lanes in each direction

Given the set of conditions in a cell,
 1 Signifies that the countermeasure should always be considered, but not mandated or required, based upon engineering judgment of a marked uncontrolled crossing location.
 # Signifies that the countermeasure is a candidate treatment of a marked uncontrolled crossing location.
 The absence of a number signifies that the countermeasure is generally not an appropriate treatment, but exceptions may be considered following engineering judgment.

1 High-visibility crosswalk markings, parking restriction on crosswalk approach, adequate nighttime lighting levels
 2 Raised crosswalk
 3 Advance Yield Here To (Stop Here For) Pedestrians sign and yield (stop) line
 4 In-Street Pedestrian Crossing sign
 5 Curb extension
 6 Pedestrian refuge island
 7 Pedestrian Hybrid Beacon
 8 Road Diet

This table was developed using information from: Zegeer, D. V., Stewart, J. R., Huang, H. H., Lagerwey, P. A., Feaganes, J., & Campbell, B. J. (2005). Safety effects of marked versus unmarked crosswalks at uncontrolled locations: Final report and recommended guidelines (No. FHWA-HRT-04-100); Manual on Uniform Traffic Control Devices, 2009 Edition, Chapter 4F, Pedestrian Hybrid Beacons; the Crash Modification Factors (CMF) Clearinghouse website (<http://www.cmfclearinghouse.org>); and the Pedestrian Safety Guide and Countermeasure Selection System (PEDSAFE) website (<http://www.pedbikesafe.org/PEDSAFE>).

Inglewood Avenue at 134th street is a 4 lane, 35 MPH roadway without a raised median and ADT of 21,000 vehicles (**Appendix B**).

From **Table 9** above, the appropriate countermeasures would include a high-visibility crosswalk, advance yield striping and signage, a pedestrian refuge island, and a PHB.

CA MUTCD Analysis

The CA MUTCD guidelines identify the following four criteria to determine if a PHB is warranted:

1. Major Street Pedestrian Volume
2. Major Street Vehicle Volume
3. Speed Limit
4. Crosswalk Length

Appendix F shows the application of the guidelines based on the information along Inglewood Avenue. Based on the CA MUTCD guidelines, a PHB would not be warranted at the intersection of Inglewood Avenue and 134th Street.

Although existing conditions and roadway configuration allow for the installation of a PHB or RRFB, the peak hour pedestrian volumes do not warrant the installation of crosswalk with a RRFB or PHB. Therefore, a crosswalk at the intersection of Inglewood Avenue and 134th Street is not recommended.

VIII. Summary and Conclusions

This report documents the results of a Traffic Impact Assessment completed for the Project. The following summarizes the results of assessment:

Traffic Operation Analysis

- The traffic study includes an analysis of four (4) existing intersections which were selected as per discussions with the City.
- The Project is estimated to generate approximately 840 new daily trips, 84 new trips during the AM peak hour and 56 new trips during the PM peak hour.
- Weekday peak hour intersection analysis was conducted for four (4) scenarios including Existing (2024) without Project, Existing (2024) with Project, Future (2035) Year without Project conditions, and Future (2035) Year without Project conditions.
- Under existing conditions, all intersections operate at LOS E or better during the AM and PM peak periods, except for the intersection of Inglewood Avenue and 135th Street, which operates at LOS F during the PM peak hour.
- Under existing conditions with Project, all intersections operate at LOS E or better during the AM and PM peak periods, except for the intersection of Inglewood Avenue and 135th Street, which operates at LOS F during the PM peak hour.
- Under future without Project conditions, all intersections operate at LOS E or better during the AM and PM peak periods.
- Under future conditions with Project, all intersections operate at LOS E or better during the AM and PM peak periods.

VMT Analysis

- The Project proposes a 3,781 square feet (SF) Fast Food Restaurant with a Drive-Thru. The Project would screen out of further VMT analysis based on the local-serving land-use and the Project being in a low VMT area. Therefore, the Project is presumed to have a less than significant transportation impact concerning VMT.

Sight Distance Analysis

- The Project proposes three full access driveways to access the Project Site. One driveway along Inglewood Avenue, one along 133rd Street, and one along 134th Street.
- The stopping sight distance along Inglewood Avenue is 250 feet based on the latest American Association of State Highway and Transportation Officials (AASHTO) guidelines, *A Policy on Geometric Design of Highways and Streets, 2018*.

- To provide a clear line of sight for vehicles exiting the Inglewood Avenue driveway, 48 feet of red curb north of the driveway and 45 feet south of the driveway is recommended.
- Since on-street parking is restricted on the driveway sides of the streets, no sight distance analysis was required for the driveways along 133rd Street and 134th Street. Therefore, no additional parking restrictions are required for the driveways along 133rd Street and 134th Street.

Left-turn Pocket Analysis

- Based on guidance from the NCHRP Report 745, a southbound left-turn pocket on Inglewood Avenue is not recommended due to the roadway configuration, vehicle average daily traffic (ADT), and speed limit.

Crosswalk Warrant Analysis

- Based on guidance from the FHWA, the location of the crosswalk would require a controlled crossing such as a PHB. However, the pedestrian demand does not warrant a PHB.

Appendix A – Approved Project Scoping Agreement



June 26, 2024

Dweejal Torado, T.E
Assistant Engineer
City of Hawthorne
4455 West 126th Street
Hawthorne, CA 90250

RE: *Traffic Study Scope of Work for the Proposed McDonald's at 13324 South Inglewood Avenue in the City of Hawthorne*

Kimley-Horn and Associates, Inc. is pleased to submit this traffic study Scope of Work for the proposed McDonald's at 13324 South Inglewood Avenue in the City of Hawthorne. The scope of the traffic study is summarized below. This scope of work is based on the review of the *Los Angeles County (LA County) Transportation Impact Analysis Guidelines* (July 2020) and discussions with City Staff.

Project Description

The applicant proposes to develop a 3,781 square-foot Fast Food Restaurant with a Drive-Thru. The site is currently vacant. The following traffic study scope of work has been prepared in accordance with the *LA County Transportation Impact Analysis Guidelines*. The project site plan is shown on **Attachment 1**. The project is anticipated to open in 2025.

Study Scenarios

The following study scenarios will be included for analysis:

- Existing Conditions Without Project (2024)
- Existing With Project (2024)
- Cumulative Without Project (2035)
- Cumulative With Project (2035)

Each study scenario will include weekday morning peak hour and weekday evening peak hour analysis.

Study Methodology

Level of Service (LOS) analysis will be conducted for peak hour intersection operations at signalized and unsignalized intersections using the methods prescribed in the Highway Capacity Manual (HCM) 7th Edition. The traffic analysis will be conducted using the latest version of the Synchro software.

Impact Criteria

For intersections within the City, LOS D or better will be considered as acceptable. If project traffic causes operations at an intersection to go from acceptable (LOS D or better) to unacceptable (LOS E or F), the project would have a significant project-related effect at the intersection. If the

intersection is currently operating at an unacceptable LOS (LOS E or F) without Project traffic it is assumed that there would be no impact to the intersection.

Study Intersections

In addition to the three primary Project driveways shown in **Attachment 1**, the following study intersections are proposed:

1. 132nd Street & Inglewood Avenue (signalized)
2. 133rd Street & Inglewood Avenue (unsignalized)
3. 134th Street & Inglewood Avenue (unsignalized)
4. 135th Street & Inglewood Avenue (signalized)

Existing Traffic Counts

New weekday morning (7-9AM) and evening (4-6PM) intersection peak hour traffic counts at the study intersections will be collected. A seasonal factor for traffic counts will be applied for the summer season since schools are out of session. Average Daily Traffic (ADT) 24-hour counts along Inglewood Avenue will also be collected on the same day as the intersection counts. The 24-hour count will also provide the lane utilization along Inglewood Avenue.

Future Traffic Volumes

Traffic volumes for the future cumulative scenario (2035) will be developed by applying a growth rate based on the Southern California Coalition of Governments' (SCAG) 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy.

Project Trip Generation

The trips expected to be generated by the project were calculated using trip generation rates published in the Institute of Transportation Engineers (ITE) *Trip Generation Manual, 11th Edition* (2021). Pass-by reduction factors were applied to the proposed land use. Trip rates are based on the ITE land use category 934 - Fast-Food Restaurant w/ Drive-Thru.

The trip rates and the estimated vehicle trips for the proposed uses are shown in **Attachment 2**. The proposed project is estimated to generate 1,768 daily trips, with 169 trips in the AM peak hour, and 125 trips in the PM peak hour.

After applying a pass-by reduction factor, the project is estimated to generate approximately 840 daily trips, with 84 trips in the AM peak hour, and 56 trips in the PM peak hour.

Project Trip Distribution

Project trip distribution assumptions are shown on **Attachment 3**.

Cumulative Traffic

City staff will provide a list of cumulative projects for use in the traffic study, which will include eligible developments within one half-mile of the project. For cumulative projects, it is requested that address, land use, quantities, and other pertinent information for each project be provided if available. If this information is not available, an ambient growth factor based the SCAG RTP/SCS model will be used to develop traffic volumes for the cumulative scenario.

Left Turn Pocket Analysis

A queueing analysis will be completed to determine if a southbound left-turn pocket is warranted on Inglewood Avenue at the Project Driveway. The analysis will reference the existing conditions including traffic volumes and lane utilization as well as the Project trip generation and distribution. Guidelines included in the National Cooperative Highway Research Program (NCHRP) Report 745 Left-Turn Accommodations at Unsignalized Intersections (2013) will also be referenced.

Crosswalk Warrant and Treatment Analysis

Based on coordination with City staff, the installation of a crosswalk at the intersection of Inglewood Avenue and W 134th Street will be evaluated to determine the most suitable crosswalk treatment. The two possible crosswalk treatments that will be considered include Pedestrian Hybrid Beacons (PHB's) and Rectangular Rapid Flashing Beacons (RRFBs).

The analysis will reference the existing conditions including traffic volumes, speed limit, roadway configuration, and trip generation and distribution. The Federal Highway Administration's (FHWA) *Field Guide for Selecting Countermeasures at Uncontrolled Pedestrian Crossing Locations* will be used as guidance for determining the appropriate treatment at the intersection. Guidance from the California Manual of Uniform Traffic Control Devices (CA MUTCD) will also be used to determine if a RRFB or PHB is warranted.

VMT Screening

With the passage of Senate Bill (SB) 743 by the California Legislature in September 2013, VMT has become an important indicator for determining if a new development will result in a "significant transportation impact" as required by the California Environmental Quality Act (CEQA). Under SB 743, the state Office of Planning and Research (OPR) was charged with developing new guidelines for evaluating transportation impacts under CEQA in order to replace methods measuring automobile delay and Level of Service. In response to this mandate, the Office of Planning and Research proposed, and the California Natural Resources Agency adopted CEQA Guidelines Section 15064.3, which indicates that VMT exceeding an applicable threshold of significance is the most appropriate measure for evaluating a project's transportation impacts. Section 15064.3 goes on to clarify that except for projects regarding roadway capacity, "...a project's effect on automobile delay does not constitute a significant environmental impact." The

OPR further elaborates on VMT metrics within the *Technical Advisory on Evaluating Transportation Impacts in CEQA* document, published in December 2018. Subsequently, LA County, via the *Transportation Impact Analysis Guidelines* (July 2020) has established VMT screening thresholds of significance for projects within the City.

The VMT guidelines provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed analysis. The screening criteria are as follows:

1. Project Size
2. Locally Serving Retail
3. Project Located in a Low VMT Area
4. Transit Proximity
5. Affordable Housing
6. Transportation Facilities

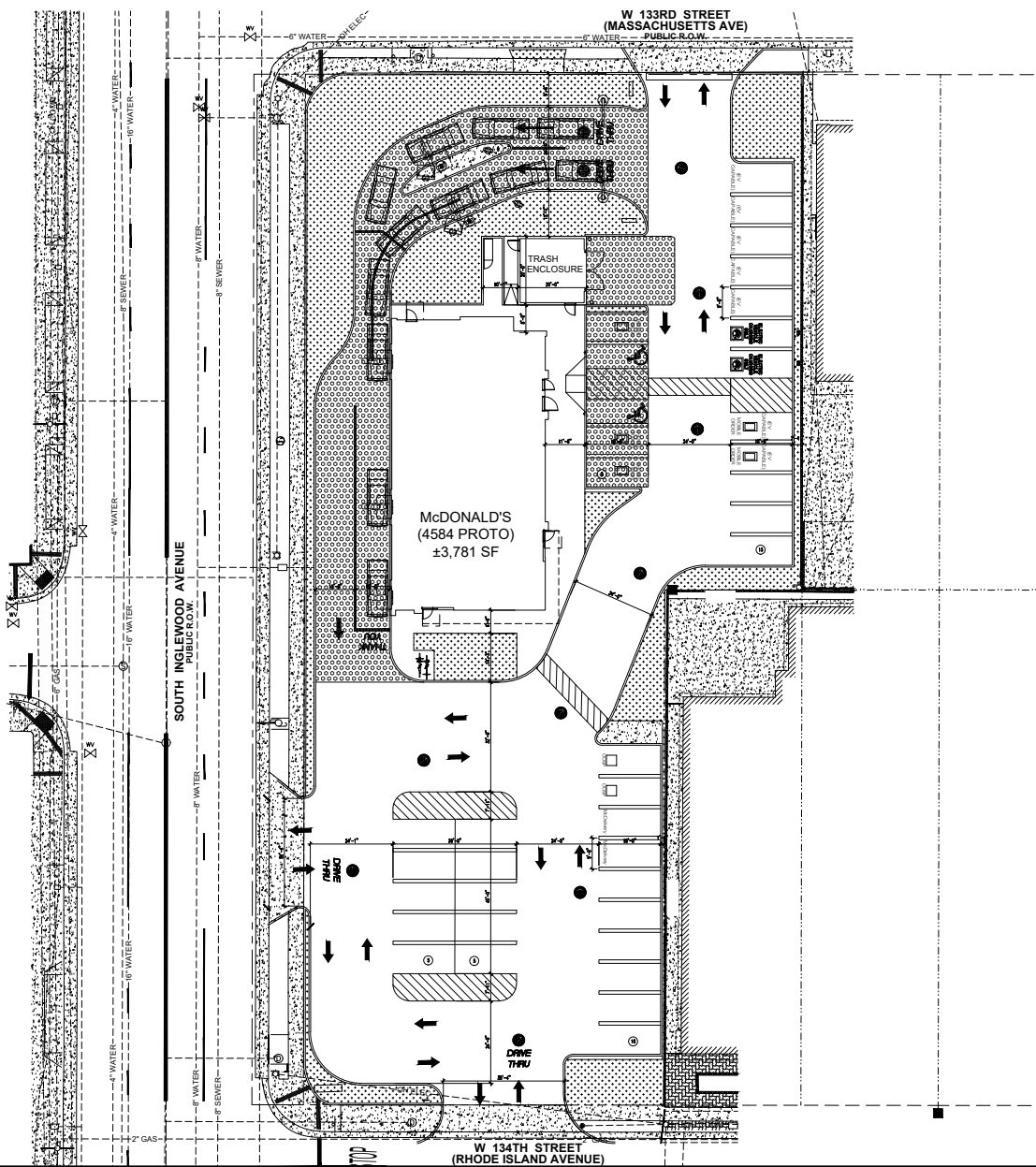
A local-serving retail project with space of less than 50,000 square feet would be considered to have a less-than-significant impact. Since the project involves local-serving retail fast food restaurant and coffee shop the project would screen out of VMT under Locally Serving Retail criteria.

In accordance with the Technical Advisory and with Los Angeles County Guidelines, the proposed project is presumed to result in a less-than-significant VMT impact and support the goals of SB 743. No further VMT assessment is anticipated.

Mitigation Measures

Based on the results of the traffic analysis, mitigation on the basis of LOS will be discussed, if applicable.

Attachment 1 - Site Plan



SITE INFORMATION

| | |
|----------------------|------------------------|
| SITE AREA: | 37,500 SF(0.86 ACRES) |
| ZONING | C3, GENERAL COMMERCIAL |
| APPROVED USE# | CONDITIONAL USE |
| PARKING TABLE | |
| REQUIRED SPACES = | 3,781 SF = 38 |
| STANDARD SPACES | 36 |
| ADA SPACES | 2 |
| TOTAL SPACES | =38 |
| DRIVE THRU | |
| STACKING AS SHOWN | |
| LANDSCAPE | TO BE DETERMINED |



PROPOSED SITE PLAN | SCALE: 1/16"=1'-0"



McDonald's USA, LLC
 These drawings and specifications are the confidential and proprietary property of McDonald's USA, LLC and shall not be copied or reproduced without written authorization. The contract documents were prepared for use on this specific site in conjunction with its issue date and are not available for use on a different site or at a later time. Use of these drawings for reference or similar projects requires the services of properly licensed architects and engineers. Reproduction of the contract documents for reuse on another project is not authorized.

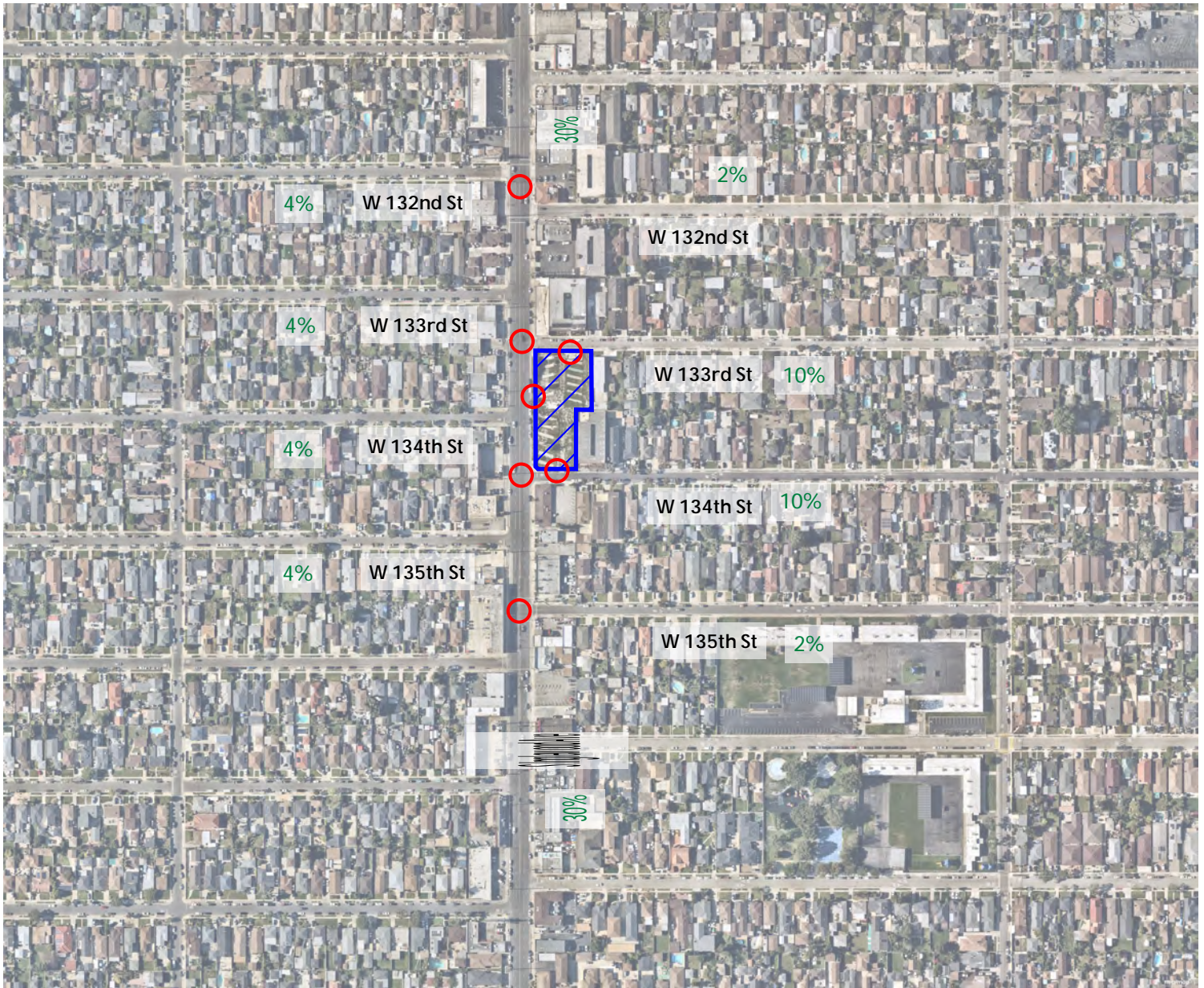
Proposed McDonald's Restaurant #004-5205

13324 W. 133rd St.
 Hawthorne, CA 90250
 29 May 2024

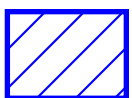
ATTACHMENT 2
SUMMARY OF PROJECT TRIP GENERATION
13324 S Inglewood Avenue McDonalds Project

| Land Use | ITE Code | Unit | Trip Generation Rates ¹ | | | | | | |
|--|----------|------|------------------------------------|--------------|-----------|-----------|--------------|-----------|-----------|
| | | | Daily | AM Peak Hour | | | PM Peak Hour | | |
| | | | | In | Out | Total | In | Out | Total |
| Fast-Food Restaurant w/ Drive-thru | 934 | KSF | 467.48 | 22.751 | 21.859 | 44.61 | 17.176 | 15.854 | 33.03 |
| Trip Generation Estimates | | | | | | | | | |
| Land Use | Quantity | Unit | Daily | AM Peak Hour | | | PM Peak Hour | | |
| | | | | In | Out | Total | In | Out | Total |
| | | | Fast-Food Restaurant w/ Drive-thru | 3.781 | KSF | 1,768 | 86 | 83 | 169 |
| <i>Pass-by Trips (52.5% Daily, 50% AM, 55% PM) ^{1,2}</i> | | | -928 | -43 | -42 | -85 | -36 | -33 | -69 |
| Net Trips | | | 840 | 43 | 41 | 84 | 29 | 27 | 56 |
| Total Project Trips | | | 840 | 43 | 41 | 84 | 29 | 27 | 56 |
| ¹ Source: Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> , 11 th Edition ² Note: <u>The Trip Generation Manual</u> does not provide pass-by rates for daily trip generation. The daily pass-by trips shown are the average of the AM and the PM pass-by percentage. | | | | | | | | | |

ATTACHMENT 3 TRIP DISTRIBUTION AND STUDY AREA



LEGEND:



PROJECT SITE



STUDY INTERSECTION/DRIVEWAY

TRIP DISTRIBUTION PERCENTAGE



N
NTS

XX%

Appendix B - Turning Movement Counts and Average Daily Traffic Counts

Inglewood Ave & 132nd St

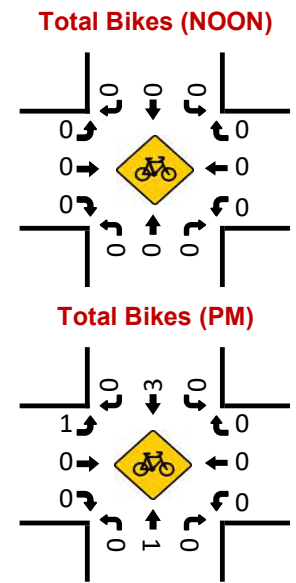
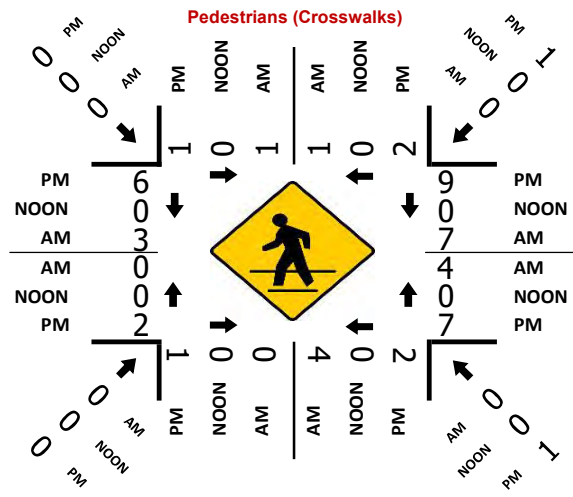
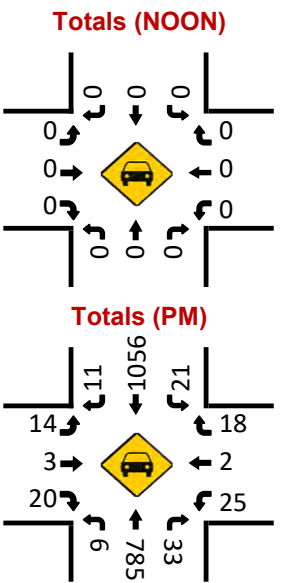
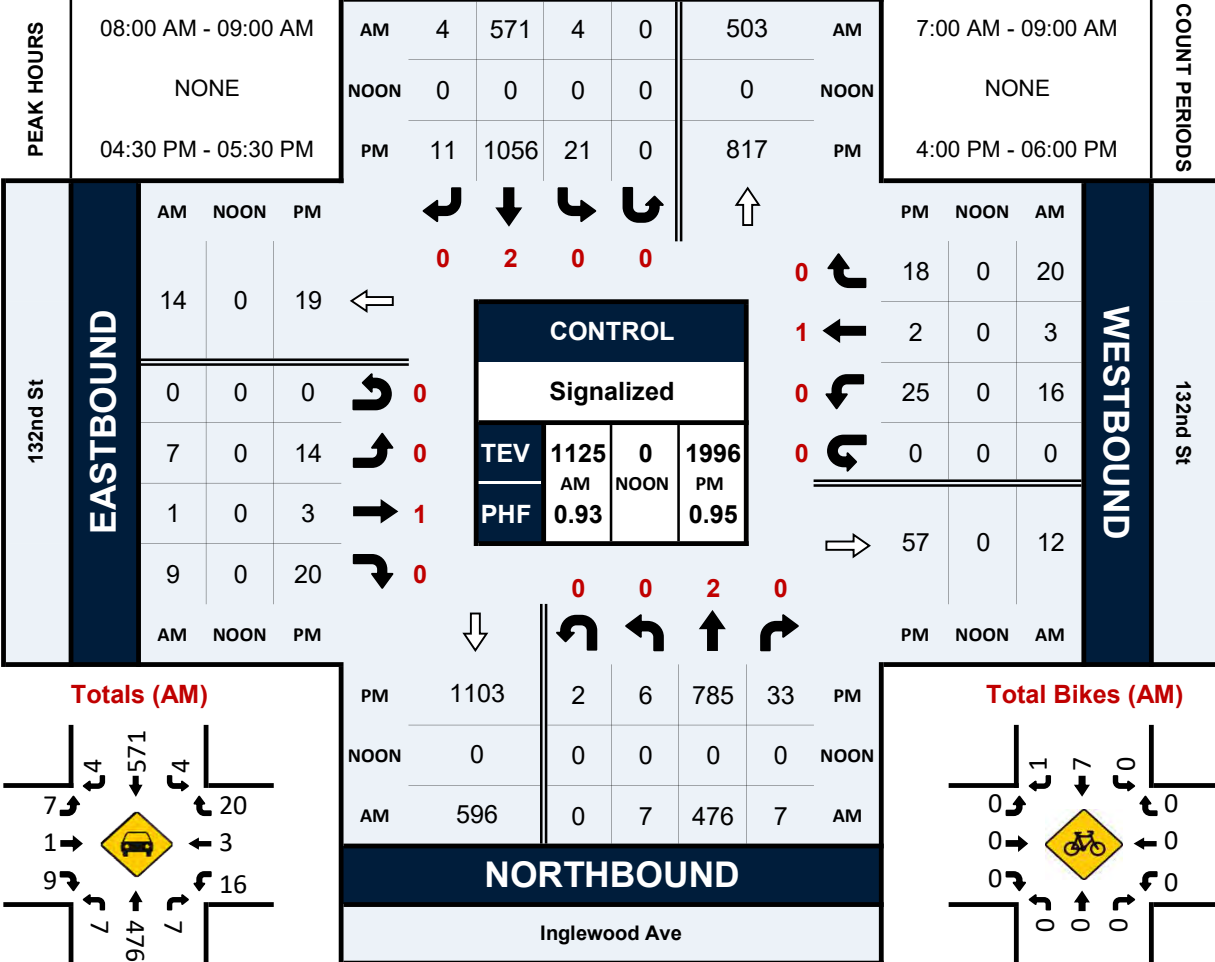
Peak Hour Turning Movement Count

ID: 24-020227-001

City: Hawthorne

Day: Tuesday

Date: 7/9/2024

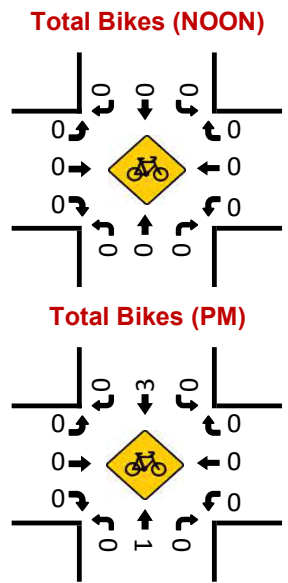
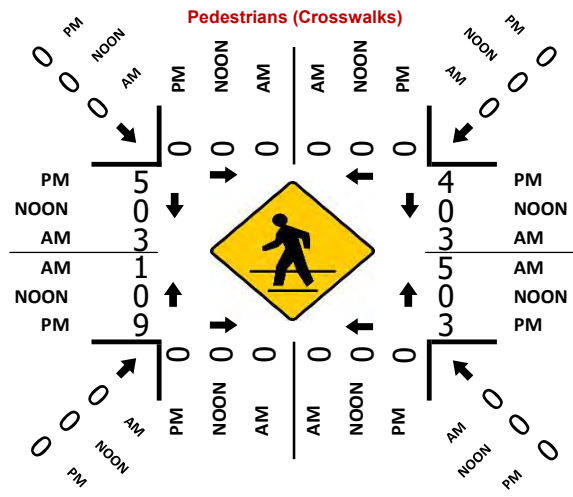
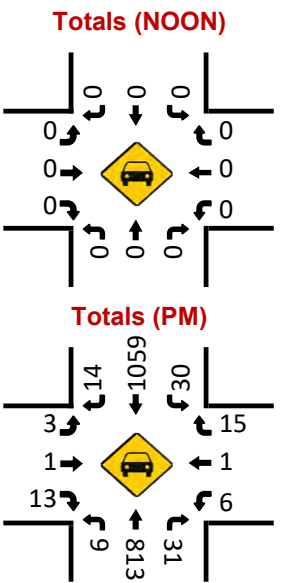
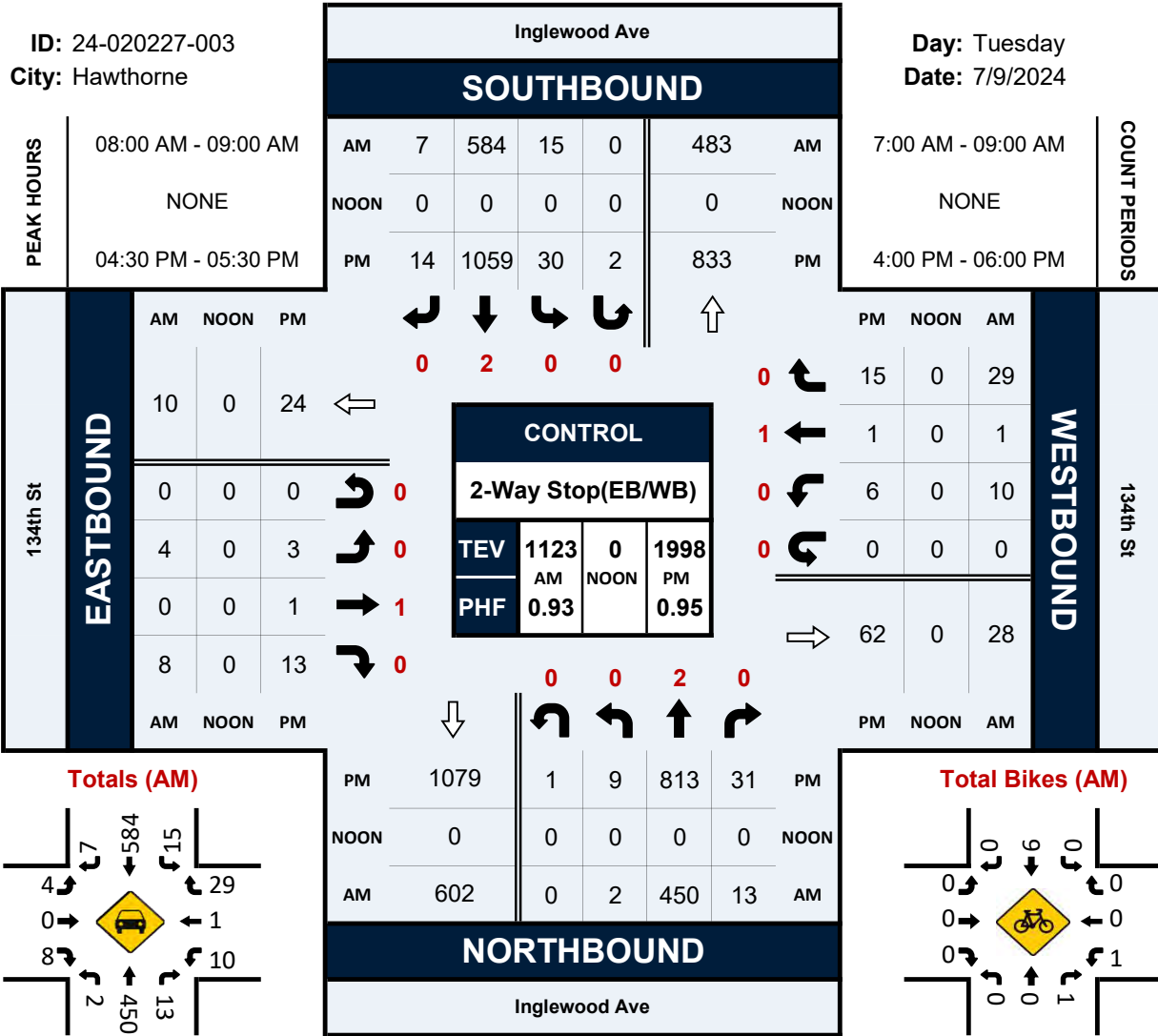


Inglewood Ave & 134th St

Peak Hour Turning Movement Count

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City: Hawthorne

Day: Tuesday
Date: 7/9/2024

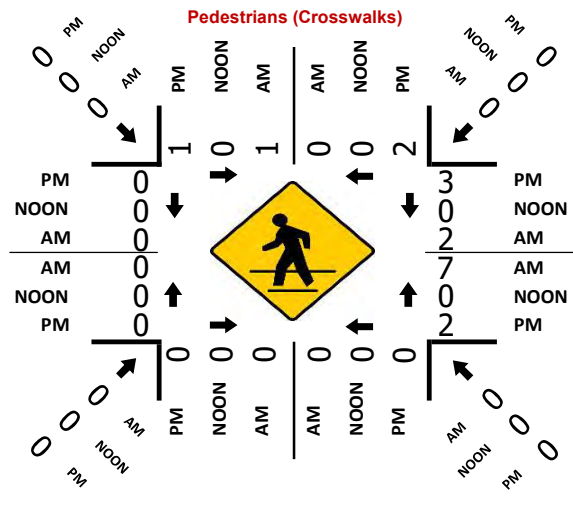
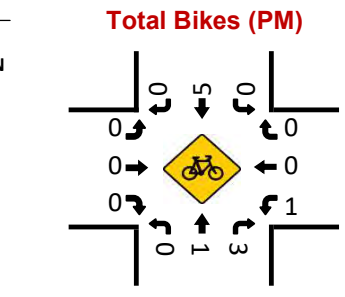
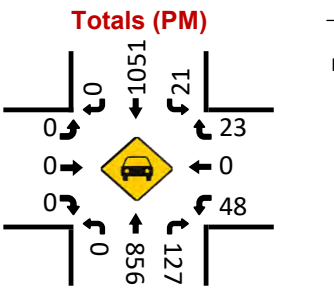
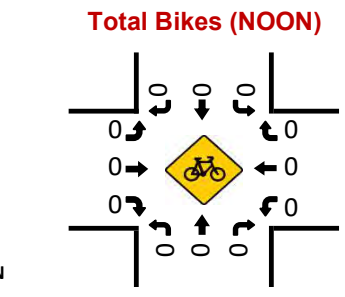
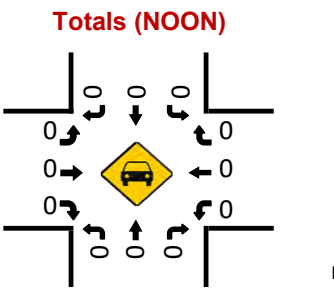
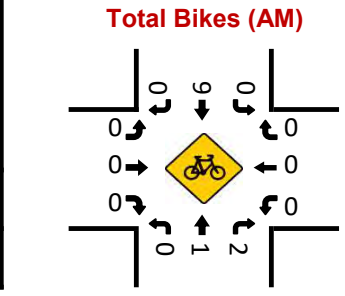
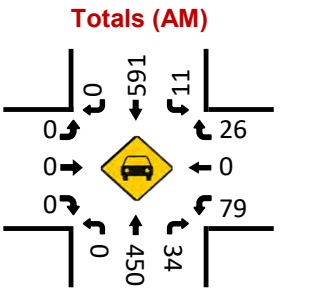
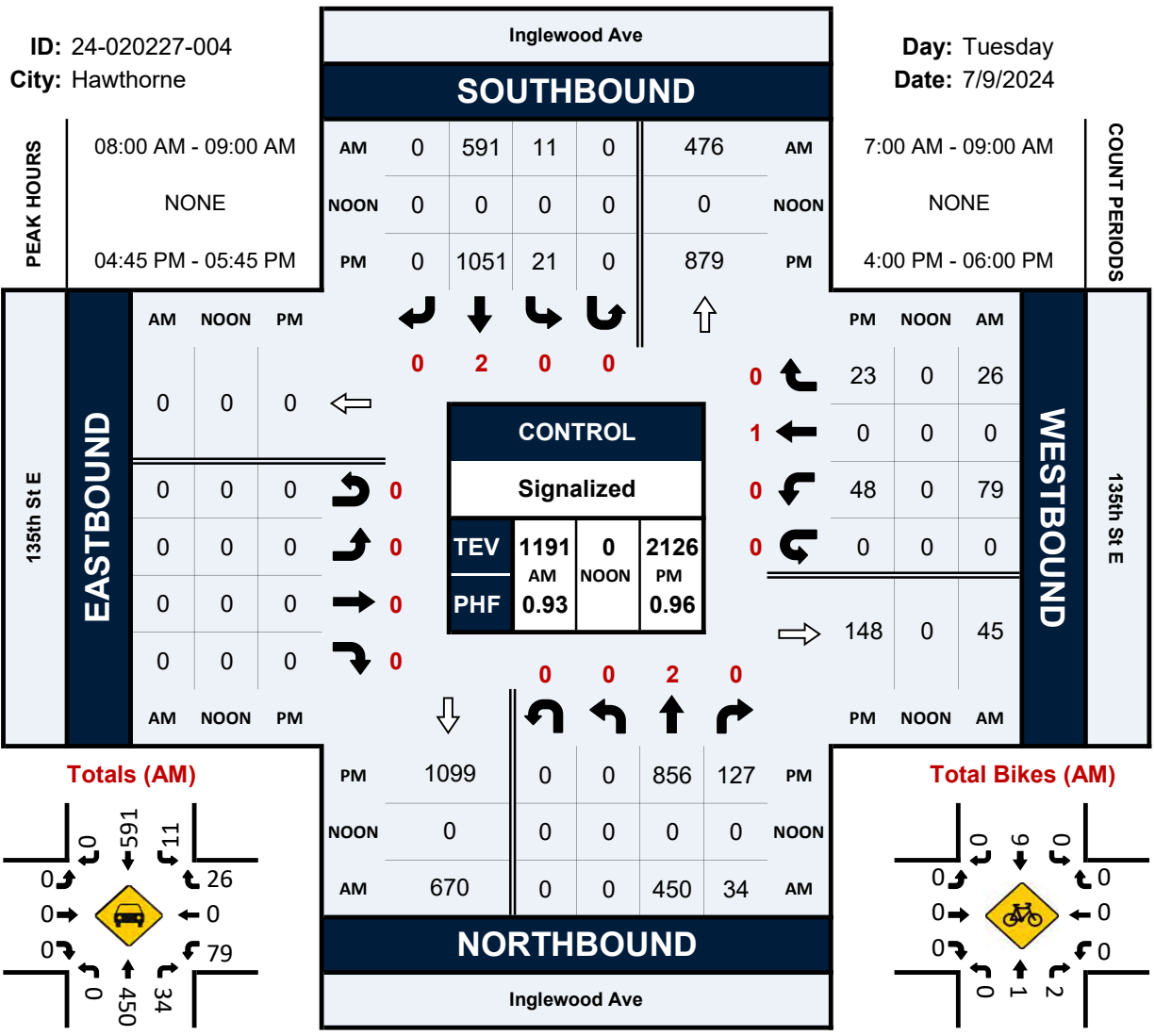


Inglewood Ave & 135th St E

Peak Hour Turning Movement Count

ID: 24-020227-004
City: Hawthorne

Day: Tuesday
Date: 7/9/2024



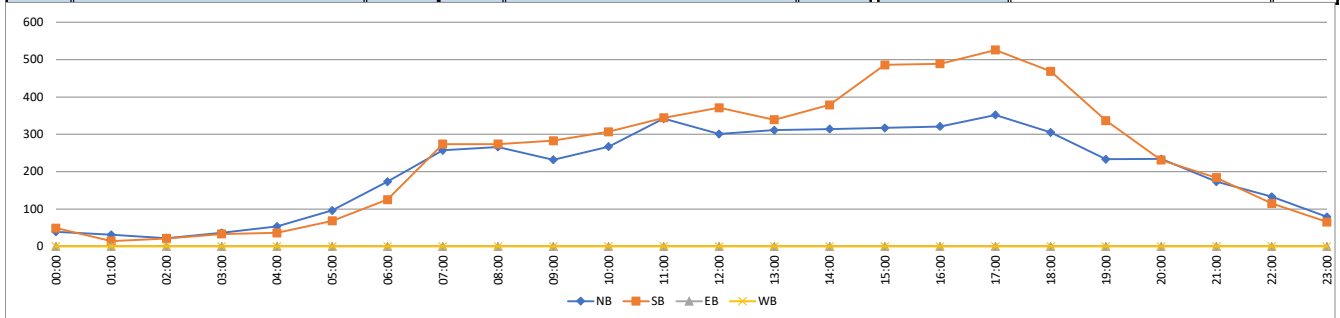
VOLUME

Inglewood Ave Bet 133rd St & 134th St

Day: Tuesday
Date: 7/9/2024

City: Hawthorne
Project #: CA24_020226_001

| DAILY TOTALS | | | | | | NB | SB | EB | WB | Total | DAILY TOTALS | | | | | | | |
|---------------------|-------------|-------------|-----------|-----------|-------------|----------------|-------------|-------------|-----------|-----------|------------------|-------------------|-----------|-----------|-----------|-----------|--------------|--|
| | | | | | | 9,974 | 11,645 | 0 | 0 | 21,619 | | | | | | | | |
| 15-Minutes Interval | | | | | | | | | | | Hourly Intervals | | | | | | | |
| TIME | NB | SB | EB | WB | TOTAL | TIME | NB | SB | EB | WB | TOTAL | TIME | NB | SB | EB | WB | TOTAL | |
| 0:00 | 11 | 14 | | | 25 | 12:00 | 63 | 99 | | | 162 | 00:00 | 01:00 | 39 | 49 | | 88 | |
| 0:15 | 9 | 10 | | | 19 | 12:15 | 79 | 100 | | | 179 | 01:00 | 02:00 | 31 | 14 | | 45 | |
| 0:30 | 11 | 12 | | | 23 | 12:30 | 78 | 90 | | | 168 | 02:00 | 03:00 | 22 | 21 | | 43 | |
| 0:45 | 8 | 13 | | | 21 | 12:45 | 81 | 82 | | | 163 | 03:00 | 04:00 | 36 | 33 | | 69 | |
| 1:00 | 6 | 7 | | | 13 | 13:00 | 86 | 87 | | | 173 | 04:00 | 05:00 | 53 | 36 | | 89 | |
| 1:15 | 9 | 1 | | | 10 | 13:15 | 70 | 93 | | | 163 | 05:00 | 06:00 | 96 | 68 | | 164 | |
| 1:30 | 10 | 1 | | | 11 | 13:30 | 75 | 81 | | | 156 | 06:00 | 07:00 | 173 | 125 | | 298 | |
| 1:45 | 6 | 5 | | | 11 | 13:45 | 80 | 78 | | | 158 | 07:00 | 08:00 | 257 | 274 | | 531 | |
| 2:00 | 5 | 4 | | | 9 | 14:00 | 78 | 95 | | | 173 | 08:00 | 09:00 | 266 | 274 | | 540 | |
| 2:15 | 5 | 5 | | | 10 | 14:15 | 71 | 94 | | | 165 | 09:00 | 10:00 | 232 | 283 | | 515 | |
| 2:30 | 6 | 4 | | | 10 | 14:30 | 83 | 83 | | | 166 | 10:00 | 11:00 | 267 | 307 | | 574 | |
| 2:45 | 6 | 8 | | | 14 | 14:45 | 82 | 107 | | | 189 | 11:00 | 12:00 | 342 | 344 | | 686 | |
| 3:00 | 6 | 5 | | | 11 | 15:00 | 79 | 117 | | | 196 | 12:00 | 13:00 | 301 | 371 | | 672 | |
| 3:15 | 7 | 5 | | | 12 | 15:15 | 72 | 112 | | | 184 | 13:00 | 14:00 | 311 | 339 | | 650 | |
| 3:30 | 13 | 14 | | | 27 | 15:30 | 83 | 111 | | | 194 | 14:00 | 15:00 | 314 | 379 | | 693 | |
| 3:45 | 10 | 9 | | | 19 | 15:45 | 83 | 146 | | | 229 | 15:00 | 16:00 | 317 | 486 | | 803 | |
| 4:00 | 10 | 2 | | | 12 | 16:00 | 70 | 125 | | | 195 | 16:00 | 17:00 | 321 | 489 | | 810 | |
| 4:15 | 14 | 8 | | | 22 | 16:15 | 69 | 119 | | | 188 | 17:00 | 18:00 | 352 | 526 | | 878 | |
| 4:30 | 13 | 13 | | | 26 | 16:30 | 84 | 118 | | | 202 | 18:00 | 19:00 | 305 | 469 | | 774 | |
| 4:45 | 16 | 13 | | | 29 | 16:45 | 98 | 127 | | | 225 | 19:00 | 20:00 | 233 | 337 | | 570 | |
| 5:00 | 19 | 8 | | | 27 | 17:00 | 91 | 147 | | | 238 | 20:00 | 21:00 | 234 | 231 | | 465 | |
| 5:15 | 22 | 19 | | | 41 | 17:15 | 96 | 127 | | | 223 | 21:00 | 22:00 | 173 | 184 | | 357 | |
| 5:30 | 29 | 17 | | | 46 | 17:30 | 78 | 115 | | | 193 | 22:00 | 23:00 | 133 | 115 | | 248 | |
| 5:45 | 26 | 24 | | | 50 | 17:45 | 87 | 137 | | | 224 | 23:00 | 00:00 | 79 | 65 | | 144 | |
| 6:00 | 40 | 28 | | | 68 | 18:00 | 84 | 132 | | | 216 | STATISTICS | | | | | | |
| 6:15 | 40 | 26 | | | 66 | 18:15 | 73 | 112 | | | 185 | | NB | SB | EB | WB | TOTAL | |
| 6:30 | 38 | 32 | | | 70 | 18:30 | 76 | 115 | | | 191 | Peak Period | 00:00 | to | 12:00 | | | |
| 6:45 | 55 | 39 | | | 94 | 18:45 | 72 | 110 | | | 182 | Volume | 1814 | 1828 | | | 3642 | |
| 7:00 | 62 | 52 | | | 114 | 19:00 | 60 | 105 | | | 165 | Peak Hour | 11:00 | 11:00 | | | 11:00 | |
| 7:15 | 58 | 72 | | | 130 | 19:15 | 57 | 86 | | | 143 | Peak Volume | 342 | 344 | | | 686 | |
| 7:30 | 73 | 73 | | | 146 | 19:30 | 62 | 73 | | | 135 | Peak Hour Factor | 0.814 | 0.804 | | | 0.903 | |
| 7:45 | 64 | 77 | | | 141 | 19:45 | 54 | 73 | | | 127 | Peak Period | 12:00 | to | 00:00 | | | |
| 8:00 | 67 | 70 | | | 137 | 20:00 | 61 | 55 | | | 116 | Volume | 3073 | 3991 | | | 7064 | |
| 8:15 | 66 | 75 | | | 141 | 20:15 | 62 | 52 | | | 114 | Peak Hour | 16:30 | 17:00 | | | 16:30 | |
| 8:30 | 67 | 60 | | | 127 | 20:30 | 55 | 64 | | | 119 | Peak Volume | 369 | 526 | | | 888 | |
| 8:45 | 66 | 69 | | | 135 | 20:45 | 56 | 60 | | | 116 | Peak Hour Factor | 0.941 | 0.895 | | | 0.933 | |
| 9:00 | 53 | 65 | | | 118 | 21:00 | 46 | 50 | | | 96 | Peak Period | 07:00 | to | 09:00 | | | |
| 9:15 | 60 | 77 | | | 137 | 21:15 | 45 | 46 | | | 91 | Volume | 523 | 548 | | | 1071 | |
| 9:30 | 56 | 66 | | | 122 | 21:30 | 41 | 38 | | | 79 | Peak Hour | 7:30 | 7:30 | | | 7:30 | |
| 9:45 | 63 | 75 | | | 138 | 21:45 | 41 | 50 | | | 91 | Peak Volume | 270 | 295 | | | 565 | |
| 10:00 | 69 | 75 | | | 144 | 22:00 | 41 | 34 | | | 75 | Peak Hour Factor | 0.925 | 0.958 | | | 0.967 | |
| 10:15 | 64 | 102 | | | 166 | 22:15 | 37 | 24 | | | 61 | Peak Period | 16:00 | to | 18:00 | | | |
| 10:30 | 64 | 59 | | | 123 | 22:30 | 31 | 25 | | | 56 | Volume | 673 | 1015 | | | 1688 | |
| 10:45 | 70 | 71 | | | 141 | 22:45 | 24 | 32 | | | 56 | Peak Hour | 16:30 | 17:00 | | | 16:30 | |
| 11:00 | 71 | 66 | | | 137 | 23:00 | 30 | 20 | | | 50 | Peak Volume | 369 | 526 | | | 888 | |
| 11:15 | 83 | 86 | | | 169 | 23:15 | 19 | 17 | | | 36 | Peak Hour Factor | 0.941 | 0.895 | | | 0.933 | |
| 11:30 | 105 | 85 | | | 190 | 23:30 | 22 | 19 | | | 41 | | | | | | | |
| 11:45 | 83 | 107 | | | 190 | 23:45 | 8 | 9 | | | 17 | | | | | | | |
| TOTALS | 1814 | 1828 | 0 | 0 | 3642 | TOTALS | 3073 | 3991 | 0 | 0 | 7064 | | | | | | | |
| SPLIT % | 50% | 50% | 0% | 0% | 34% | SPLIT % | 44% | 56% | 0% | 0% | 66% | | | | | | | |



Appendix C - LOS Worksheets

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | ↗ | | ↕ | ↗ |
| Traffic Volume (veh/h) | 8 | 1 | 10 | 18 | 3 | 23 | 8 | 545 | 8 | 5 | 653 | 5 |
| Future Volume (veh/h) | 8 | 1 | 10 | 18 | 3 | 23 | 8 | 545 | 8 | 5 | 653 | 5 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 11 | 1 | 14 | 24 | 4 | 31 | 9 | 592 | 9 | 5 | 695 | 5 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.75 | 0.75 | 0.75 | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 44 | 4 | 57 | 82 | 14 | 106 | 99 | 1164 | 535 | 94 | 1172 | 535 |
| Arrive On Green | 0.06 | 0.06 | 0.06 | 0.12 | 0.12 | 0.12 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
| Sat Flow, veh/h | 708 | 64 | 901 | 682 | 114 | 881 | 15 | 3449 | 1585 | 6 | 3473 | 1585 |
| Grp Volume(v), veh/h | 26 | 0 | 0 | 59 | 0 | 0 | 321 | 280 | 9 | 375 | 325 | 5 |
| Grp Sat Flow(s),veh/h/ln | 1673 | 0 | 0 | 1678 | 0 | 0 | 1847 | 1617 | 1585 | 1862 | 1617 | 1585 |
| Q Serve(g_s), s | 0.6 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 5.5 | 0.1 | 0.0 | 6.6 | 0.1 |
| Cycle Q Clear(g_c), s | 0.6 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 5.4 | 5.5 | 0.1 | 6.6 | 6.6 | 0.1 |
| Prop In Lane | 0.42 | | 0.54 | 0.41 | | 0.53 | 0.03 | | 1.00 | 0.01 | | 1.00 |
| Lane Grp Cap(c), veh/h | 105 | 0 | 0 | 202 | 0 | 0 | 717 | 545 | 535 | 720 | 545 | 535 |
| V/C Ratio(X) | 0.25 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.45 | 0.51 | 0.02 | 0.52 | 0.60 | 0.01 |
| Avail Cap(c_a), veh/h | 1013 | 0 | 0 | 931 | 0 | 0 | 2601 | 2243 | 2199 | 2651 | 2243 | 2199 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 17.7 | 0.0 | 0.0 | 15.9 | 0.0 | 0.0 | 10.5 | 10.5 | 8.8 | 10.9 | 10.9 | 8.7 |
| Incr Delay (d2), s/veh | 1.2 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.4 | 0.7 | 0.0 | 0.6 | 1.0 | 0.0 |
| 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 | 0.2 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 1.7 | 1.5 | 0.0 | 2.1 | 1.9 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 18.9 | 0.0 | 0.0 | 16.7 | 0.0 | 0.0 | 10.9 | 11.3 | 8.8 | 11.5 | 11.9 | 8.7 |
| LnGrp LOS | B | | | B | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 26 | | | 59 | | | 610 | | | 705 | |
| Approach Delay, s/veh | | 18.9 | | | 16.7 | | | 11.1 | | | 11.7 | |
| Approach LOS | | B | | | B | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 20.4 | | 10.8 | | 20.4 | | 8.5 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 7.5 | | 3.3 | | 8.6 | | 2.6 | | | | |
| Green Ext Time (p_c), s | | 4.0 | | 0.2 | | 4.8 | | 0.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 11.7 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Y | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 1 | 17 | 10 | 569 | 662 | 9 |
| Future Vol, veh/h | 1 | 17 | 10 | 569 | 662 | 9 |
| Conflicting Peds, #/hr | 0 | 0 | 3 | 0 | 0 | 3 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 18 | 11 | 618 | 720 | 10 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1054 | 363 | 732 | 0 | - | 0 |
| Stage 1 | 723 | - | - | - | - | - |
| Stage 2 | 331 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 221 | 634 | 868 | - | - | - |
| Stage 1 | 442 | - | - | - | - | - |
| Stage 2 | 700 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 217 | 632 | 866 | - | - | - |
| Mov Cap-2 Maneuver | 217 | - | - | - | - | - |
| Stage 1 | 434 | - | - | - | - | - |
| Stage 2 | 698 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|------|----|
| HCM Control Delay, s/v | 11.52 | 0.29 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 62 | - | 571 | - | - |
| HCM Lane V/C Ratio | 0.013 | - | 0.034 | - | - |
| HCM Control Delay (s/veh) | 9.2 | 0.1 | 11.5 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 10 | 26 | 545 | 0 | 14 | 678 |
| Future Vol, veh/h | 10 | 26 | 545 | 0 | 14 | 678 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 73 | 73 | 91 | 91 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 14 | 36 | 599 | 0 | 15 | 737 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1001 | 302 | 0 | 0 | 602 | 0 |
| Stage 1 | 602 | - | - | - | - | - |
| Stage 2 | 399 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 239 | 694 | - | - | 972 | - |
| Stage 1 | 510 | - | - | - | - | - |
| Stage 2 | 647 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 234 | 692 | - | - | 969 | - |
| Mov Cap-2 Maneuver | 234 | - | - | - | - | - |
| Stage 1 | 508 | - | - | - | - | - |
| Stage 2 | 634 | - | - | - | - | - |

| Approach | WB | NB | SB |
|-----------------------------|----|----|------|
| HCM Control Delay, s/v14.02 | | 0 | 0.34 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|------|-------|
| Capacity (veh/h) | - | - | 448 | 73 |
| HCM Lane V/C Ratio | - | - | 0.11 | 0.016 |
| HCM Control Delay (s/veh) | - | - | 14 | 8.8 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 5 | 9 | 3 | 548 | 668 | 8 |
| Future Vol, veh/h | 5 | 9 | 3 | 548 | 668 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 4 | 0 | 0 | 4 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 5 | 10 | 3 | 596 | 726 | 9 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1034 | 367 | 739 | 0 | - | 0 |
| Stage 1 | 730 | - | - | - | - | - |
| Stage 2 | 304 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 228 | 630 | 863 | - | - | - |
| Stage 1 | 438 | - | - | - | - | - |
| Stage 2 | 722 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 225 | 628 | 860 | - | - | - |
| Mov Cap-2 Maneuver | 225 | - | - | - | - | - |
| Stage 1 | 434 | - | - | - | - | - |
| Stage 2 | 719 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|------|----|
| HCM Control Delay, s/v | 14.79 | 0.09 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 20 | - | 383 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | 0.04 | - | - |
| HCM Control Delay (s/veh) | 9.2 | 0 | 14.8 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 11 | 34 | 515 | 15 | 17 | 677 |
| Future Vol, veh/h | 11 | 34 | 515 | 15 | 17 | 677 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 8 | 8 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 77 | 77 | 92 | 92 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 14 | 44 | 560 | 16 | 18 | 728 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 968 | 288 | 0 | 0 | 584 |
| Stage 1 | 568 | - | - | - | - |
| Stage 2 | 401 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 251 | 709 | - | - | 987 |
| Stage 1 | 531 | - | - | - | - |
| Stage 2 | 645 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 244 | 703 | - | - | 979 |
| Mov Cap-2 Maneuver | 244 | - | - | - | - |
| Stage 1 | 527 | - | - | - | - |
| Stage 2 | 630 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|-----|
| HCM Control Delay, s/v | 13.51 | 0 | 0.4 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 481 | 88 |
| HCM Lane V/C Ratio | - | - | 0.121 | 0.019 |
| HCM Control Delay (s/veh) | - | - | 13.5 | 8.7 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.1 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↵ | | ↕↕ | ↗ | | ↘↘ |
| Traffic Volume (veh/h) | 90 | 30 | 515 | 39 | 13 | 676 |
| Future Volume (veh/h) | 90 | 30 | 515 | 39 | 13 | 676 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 150 | 50 | 548 | 41 | 14 | 735 |
| Peak Hour Factor | 0.60 | 0.60 | 0.94 | 0.94 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 173 | 58 | 2767 | 1234 | 57 | 2657 |
| Arrive On Green | 0.13 | 0.13 | 0.78 | 0.78 | 0.78 | 0.78 |
| Sat Flow, veh/h | 1290 | 430 | 3647 | 1585 | 33 | 3498 |
| Grp Volume(v), veh/h | 201 | 0 | 548 | 41 | 398 | 351 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 0 | 1777 | 1585 | 1829 | 1617 |
| Q Serve(g_s), s | 13.7 | 0.0 | 4.8 | 0.7 | 0.0 | 7.4 |
| Cycle Q Clear(g_c), s | 13.7 | 0.0 | 4.8 | 0.7 | 7.2 | 7.4 |
| Prop In Lane | 0.75 | 0.25 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 231 | 0 | 2767 | 1234 | 1455 | 1259 |
| V/C Ratio(X) | 0.87 | 0.00 | 0.20 | 0.03 | 0.27 | 0.28 |
| Avail Cap(c_a), veh/h | 375 | 0 | 2767 | 1234 | 1455 | 1259 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.91 | 0.91 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 50.9 | 0.0 | 3.5 | 3.0 | 3.7 | 3.8 |
| Incr Delay (d2), s/veh | 11.7 | 0.0 | 0.1 | 0.0 | 0.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.7 | 0.0 | 1.4 | 0.2 | 2.3 | 2.1 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 62.6 | 0.0 | 3.6 | 3.1 | 4.2 | 4.3 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 201 | | 589 | | | 749 |
| Approach Delay, s/veh | 62.6 | | 3.6 | | | 4.3 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 98.9 | | | 98.9 | 21.1 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 6.8 | | | 9.4 | 15.7 |
| Green Ext Time (p_c), s | | 4.2 | | | 5.3 | 0.4 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 11.6 | | | |
| HCM 7th LOS | | | B | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | | | | | | |
| Traffic Volume (veh/h) | 79 | 54 | 71 | 475 | 673 | 94 |
| Future Volume (veh/h) | 79 | 54 | 71 | 475 | 673 | 94 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 127 | 87 | 77 | 516 | 732 | 102 |
| Peak Hour Factor | 0.62 | 0.62 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 145 | 99 | 294 | 1954 | 2730 | 1218 |
| Arrive On Green | 0.14 | 0.14 | 0.77 | 0.77 | 1.00 | 1.00 |
| Sat Flow, veh/h | 1002 | 687 | 332 | 2629 | 3647 | 1585 |
| Grp Volume(v), veh/h | 215 | 0 | 268 | 325 | 732 | 102 |
| Grp Sat Flow(s),veh/h/ln | 1697 | 0 | 1259 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 14.9 | 0.0 | 0.0 | 7.0 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 14.9 | 0.0 | 4.7 | 7.0 | 0.0 | 0.0 |
| Prop In Lane | 0.59 | 0.40 | 0.29 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 245 | 0 | 1006 | 1242 | 2730 | 1218 |
| V/C Ratio(X) | 0.88 | 0.00 | 0.27 | 0.26 | 0.27 | 0.08 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1006 | 1242 | 2730 | 1218 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.33 | 1.33 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.93 | 0.93 |
| Uniform Delay (d), s/veh | 50.3 | 0.0 | 3.8 | 4.0 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 14.6 | 0.0 | 0.7 | 0.5 | 0.2 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 7.4 | 0.0 | 1.6 | 2.1 | 0.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 64.9 | 0.0 | 4.4 | 4.5 | 0.2 | 0.1 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 215 | | | 593 | 834 | |
| Approach Delay, s/veh | 64.9 | | | 4.5 | 0.2 | |
| Approach LOS | E | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 97.7 | | 22.3 | | 97.7 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 9.0 | | 16.9 | | 2.0 |
| Green Ext Time (p_c), s | | 4.6 | | 0.4 | | 6.3 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 10.2 | | | |
| HCM 7th LOS | | | B | | | |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | ↗ | | ↕ | ↗ |
| Traffic Volume (veh/h) | 16 | 3 | 23 | 29 | 2 | 21 | 9 | 898 | 38 | 24 | 1208 | 13 |
| Future Volume (veh/h) | 16 | 3 | 23 | 29 | 2 | 21 | 9 | 898 | 38 | 24 | 1208 | 13 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 23 | 4 | 32 | 39 | 3 | 28 | 10 | 976 | 41 | 26 | 1285 | 14 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.75 | 0.75 | 0.75 | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 65 | 11 | 91 | 103 | 8 | 74 | 60 | 1745 | 803 | 71 | 1715 | 803 |
| Arrive On Green | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Sat Flow, veh/h | 653 | 114 | 908 | 947 | 73 | 680 | 10 | 3444 | 1585 | 30 | 3386 | 1585 |
| Grp Volume(v), veh/h | 59 | 0 | 0 | 70 | 0 | 0 | 525 | 461 | 41 | 693 | 618 | 14 |
| Grp Sat Flow(s),veh/h/ln | 1674 | 0 | 0 | 1701 | 0 | 0 | 1837 | 1617 | 1585 | 1799 | 1617 | 1585 |
| Q Serve(g_s), s | 2.2 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 13.1 | 0.9 | 1.5 | 20.4 | 0.3 |
| Cycle Q Clear(g_c), s | 2.2 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 12.8 | 13.1 | 0.9 | 19.6 | 20.4 | 0.3 |
| Prop In Lane | 0.39 | | 0.54 | 0.56 | | 0.40 | 0.02 | | 1.00 | 0.04 | | 1.00 |
| Lane Grp Cap(c), veh/h | 167 | 0 | 0 | 185 | 0 | 0 | 986 | 819 | 803 | 967 | 819 | 803 |
| V/C Ratio(X) | 0.35 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.53 | 0.56 | 0.05 | 0.72 | 0.75 | 0.02 |
| Avail Cap(c_a), veh/h | 602 | 0 | 0 | 561 | 0 | 0 | 1544 | 1333 | 1307 | 1514 | 1333 | 1307 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 28.0 | 0.0 | 0.0 | 27.6 | 0.0 | 0.0 | 11.3 | 11.4 | 8.3 | 12.9 | 13.1 | 8.2 |
| Incr Delay (d2), s/veh | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.4 | 0.6 | 0.0 | 1.0 | 1.4 | 0.0 |
| 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 | 0.0 | 1.1 | 0.0 | 0.0 | 4.5 | 4.0 | 0.3 | 6.9 | 6.4 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 29.3 | 0.0 | 0.0 | 28.9 | 0.0 | 0.0 | 11.7 | 12.0 | 8.4 | 13.9 | 14.6 | 8.2 |
| LnGrp LOS | C | | | C | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 59 | | | 70 | | | 1027 | | | 1325 | |
| Approach Delay, s/veh | | 29.3 | | | 28.9 | | | 11.7 | | | 14.2 | |
| Approach LOS | | C | | | C | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 40.8 | | 13.3 | | 40.8 | | 12.6 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 15.1 | | 4.6 | | 22.4 | | 4.2 | | | | |
| Green Ext Time (p_c), s | | 7.8 | | 0.3 | | 11.4 | | 0.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 13.9 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 9 | 27 | 12 | 946 | 1221 | 16 |
| Future Vol, veh/h | 9 | 27 | 12 | 946 | 1221 | 16 |
| Conflicting Peds, #/hr | 0 | 0 | 9 | 0 | 0 | 9 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 29 | 13 | 1028 | 1327 | 17 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1876 | 673 | 1354 | 0 | - | 0 |
| Stage 1 | 1336 | - | - | - | - | - |
| Stage 2 | 540 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 63 | 398 | 504 | - | - | - |
| Stage 1 | 210 | - | - | - | - | - |
| Stage 2 | 548 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 60 | 395 | 500 | - | - | - |
| Mov Cap-2 Maneuver | 60 | - | - | - | - | - |
| Stage 1 | 200 | - | - | - | - | - |
| Stage 2 | 543 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|------|----|
| HCM Control Delay, s/v | 33.59 | 0.59 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 45 | - | 164 | - | - |
| HCM Lane V/C Ratio | 0.026 | - | 0.238 | - | - |
| HCM Control Delay (s/veh) | 12.4 | 0.4 | 33.6 | - | - |
| HCM Lane LOS | B | A | D | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.9 | - | - |

HCM 7th TWSC
 3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.3 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 11 | 19 | 929 | 22 | 33 | 1246 |
| Future Vol, veh/h | 11 | 19 | 929 | 22 | 33 | 1246 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 73 | 73 | 91 | 91 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 26 | 1021 | 24 | 36 | 1354 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1770 | 510 | 0 | 0 | 1045 |
| Stage 1 | 1021 | - | - | - | - |
| Stage 2 | 749 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 75 | 508 | - | - | 661 |
| Stage 1 | 309 | - | - | - | - |
| Stage 2 | 428 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 68 | 508 | - | - | 661 |
| Mov Cap-2 Maneuver | 68 | - | - | - | - |
| Stage 1 | 309 | - | - | - | - |
| Stage 2 | 391 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 37.61 | 0 | 1.14 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 151 | 93 |
| HCM Lane V/C Ratio | - | - | 0.273 | 0.054 |
| HCM Control Delay (s/veh) | - | - | 37.6 | 10.8 |
| HCM Lane LOS | - | - | E | B |
| HCM 95th %tile Q(veh) | - | - | 1 | 0.2 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 3 | 16 | 12 | 947 | 1212 | 16 |
| Future Vol, veh/h | 3 | 16 | 12 | 947 | 1212 | 16 |
| Conflicting Peds, #/hr | 0 | 0 | 14 | 0 | 0 | 14 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 17 | 13 | 1029 | 1317 | 17 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1872 | 673 | 1349 | 0 | - | 0 |
| Stage 1 | 1331 | - | - | - | - | - |
| Stage 2 | 541 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 64 | 398 | 506 | - | - | - |
| Stage 1 | 211 | - | - | - | - | - |
| Stage 2 | 548 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 60 | 393 | 500 | - | - | - |
| Mov Cap-2 Maneuver | 60 | - | - | - | - | - |
| Stage 1 | 201 | - | - | - | - | - |
| Stage 2 | 540 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|------|----|
| HCM Control Delay, s/v | 24.14 | 0.59 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 45 | - | 209 | - | - |
| HCM Lane V/C Ratio | 0.026 | - | 0.099 | - | - |
| HCM Control Delay (s/veh) | 12.4 | 0.4 | 24.1 | - | - |
| HCM Lane LOS | B | A | C | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.3 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.1 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 7 | 18 | 930 | 35 | 38 | 1227 |
| Future Vol, veh/h | 7 | 18 | 930 | 35 | 38 | 1227 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 7 | 7 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 77 | 77 | 92 | 92 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 23 | 1011 | 38 | 41 | 1319 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1759 | 512 | 0 | 0 | 1056 |
| Stage 1 | 1018 | - | - | - | - |
| Stage 2 | 741 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 76 | 507 | - | - | 655 |
| Stage 1 | 310 | - | - | - | - |
| Stage 2 | 432 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 68 | 503 | - | - | 651 |
| Mov Cap-2 Maneuver | 68 | - | - | - | - |
| Stage 1 | 308 | - | - | - | - |
| Stage 2 | 389 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 29.38 | 0 | 1.31 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 180 | 108 |
| HCM Lane V/C Ratio | - | - | 0.181 | 0.063 |
| HCM Control Delay (s/veh) | - | - | 29.4 | 10.9 |
| HCM Lane LOS | - | - | D | B |
| HCM 95th %tile Q(veh) | - | - | 0.6 | 0.2 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|-------|------|------|-------|------|
| Lane Configurations | W | | ↑↑ | ↑ | | ↓↓ |
| Traffic Volume (veh/h) | 55 | 26 | 979 | 145 | 24 | 1202 |
| Future Volume (veh/h) | 55 | 26 | 979 | 145 | 24 | 1202 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 92 | 43 | 1041 | 154 | 26 | 1307 |
| Peak Hour Factor | 0.60 | 0.60 | 0.94 | 0.94 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 111 | 52 | 2902 | 1294 | 60 | 2731 |
| Arrive On Green | 0.10 | 0.10 | 1.00 | 1.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1160 | 542 | 3647 | 1585 | 36 | 3430 |
| Grp Volume(v), veh/h | 136 | 0 | 1041 | 154 | 698 | 635 |
| Grp Sat Flow(s),veh/h/ln | 1715 | 0 | 1777 | 1585 | 1764 | 1617 |
| Q Serve(g_s), s | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 14.2 |
| Cycle Q Clear(g_c), s | 9.3 | 0.0 | 0.0 | 0.0 | 13.1 | 14.2 |
| Prop In Lane | 0.68 | 0.32 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 165 | 0 | 2902 | 1294 | 1471 | 1320 |
| V/C Ratio(X) | 0.83 | 0.00 | 0.36 | 0.12 | 0.47 | 0.48 |
| Avail Cap(c_a), veh/h | 372 | 0 | 2902 | 1294 | 1471 | 1320 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.33 | 1.33 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.31 | 0.31 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.3 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 |
| Incr Delay (d2), s/veh | 10.0 | 0.0 | 0.1 | 0.1 | 1.1 | 1.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.5 | 0.0 | 0.0 | 0.0 | 3.8 | 3.6 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 63.2 | 0.0 | 0.1 | 0.1 | 4.3 | 4.6 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 136 | | 1195 | | | 1333 |
| Approach Delay, s/veh | 63.2 | | 0.1 | | | 4.4 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 103.5 | | | 103.5 | 16.5 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 2.0 | | | 16.2 | 11.3 |
| Green Ext Time (p_c), s | | 10.5 | | | 13.6 | 0.3 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 5.5 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|-------|------|------|------|------|------|
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 231 | 156 | 24 | 867 | 1231 | 53 |
| Future Volume (veh/h) | 231 | 156 | 24 | 867 | 1231 | 53 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 373 | 252 | 26 | 942 | 1338 | 58 |
| Peak Hour Factor | 0.62 | 0.62 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 219 | 148 | 67 | 2257 | 2473 | 1103 |
| Arrive On Green | 0.22 | 0.22 | 0.70 | 0.70 | 1.00 | 1.00 |
| Sat Flow, veh/h | 1011 | 683 | 50 | 3329 | 3647 | 1585 |
| Grp Volume(v), veh/h | 626 | 0 | 493 | 475 | 1338 | 58 |
| Grp Sat Flow(s),veh/h/ln | 1697 | 0 | 1677 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 26.0 | 0.0 | 0.0 | 15.2 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 26.0 | 0.0 | 13.1 | 15.2 | 0.0 | 0.0 |
| Prop In Lane | 0.60 | 0.40 | 0.05 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 368 | 0 | 1198 | 1125 | 2473 | 1103 |
| V/C Ratio(X) | 1.70 | 0.00 | 0.41 | 0.42 | 0.54 | 0.05 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1198 | 1125 | 2473 | 1103 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.83 | 0.83 |
| Uniform Delay (d), s/veh | 47.0 | 0.0 | 7.5 | 7.9 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 327.7 | 0.0 | 1.0 | 1.2 | 0.7 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.5 | 0.0 | 5.0 | 5.1 | 0.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 374.7 | 0.0 | 8.6 | 9.0 | 0.7 | 0.1 |
| LnGrp LOS | F | | A | A | A | A |
| Approach Vol, veh/h | 626 | | | 968 | 1396 | |
| Approach Delay, s/veh | 374.7 | | | 8.8 | 0.7 | |
| Approach LOS | F | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 89.0 | | 31.0 | | 89.0 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 17.2 | | 28.0 | | 2.0 |
| Green Ext Time (p_c), s | | 8.2 | | 0.0 | | 15.4 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 81.6 | | | |
| HCM 7th LOS | | | F | | | |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | ↗ | | ↕ | ↗ |
| Traffic Volume (veh/h) | 10 | 2 | 12 | 19 | 7 | 24 | 9 | 573 | 9 | 6 | 683 | 9 |
| Future Volume (veh/h) | 10 | 2 | 12 | 19 | 7 | 24 | 9 | 573 | 9 | 6 | 683 | 9 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 11 | 2 | 13 | 21 | 8 | 26 | 10 | 623 | 10 | 7 | 742 | 10 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 45 | 8 | 53 | 74 | 28 | 91 | 97 | 1223 | 563 | 93 | 1231 | 563 |
| Arrive On Green | 0.06 | 0.06 | 0.06 | 0.11 | 0.11 | 0.11 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| Sat Flow, veh/h | 712 | 129 | 842 | 647 | 246 | 801 | 16 | 3445 | 1585 | 9 | 3467 | 1585 |
| Grp Volume(v), veh/h | 26 | 0 | 0 | 55 | 0 | 0 | 338 | 295 | 10 | 401 | 348 | 10 |
| Grp Sat Flow(s),veh/h/ln | 1683 | 0 | 0 | 1694 | 0 | 0 | 1844 | 1617 | 1585 | 1859 | 1617 | 1585 |
| Q Serve(g_s), s | 0.6 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 5.8 | 0.2 | 0.0 | 7.2 | 0.2 |
| Cycle Q Clear(g_c), s | 0.6 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 5.8 | 5.8 | 0.2 | 7.1 | 7.2 | 0.2 |
| Prop In Lane | 0.42 | | 0.50 | 0.38 | | 0.47 | 0.03 | | 1.00 | 0.02 | | 1.00 |
| Lane Grp Cap(c), veh/h | 105 | 0 | 0 | 193 | 0 | 0 | 746 | 574 | 563 | 750 | 574 | 563 |
| V/C Ratio(X) | 0.25 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.45 | 0.51 | 0.02 | 0.53 | 0.61 | 0.02 |
| Avail Cap(c_a), veh/h | 996 | 0 | 0 | 919 | 0 | 0 | 2532 | 2193 | 2149 | 2579 | 2193 | 2149 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.1 | 0.0 | 0.0 | 16.5 | 0.0 | 0.0 | 10.3 | 10.3 | 8.5 | 10.7 | 10.7 | 8.5 |
| Incr Delay (d2), s/veh | 1.2 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.4 | 0.7 | 0.0 | 0.6 | 1.0 | 0.0 |
| 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 | 0.2 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 1.8 | 1.6 | 0.0 | 2.2 | 2.0 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 19.3 | 0.0 | 0.0 | 17.3 | 0.0 | 0.0 | 10.7 | 11.0 | 8.5 | 11.3 | 11.8 | 8.5 |
| LnGrp LOS | B | | | B | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 26 | | | 55 | | | 643 | | | 759 | |
| Approach Delay, s/veh | | 19.3 | | | 17.3 | | | 10.8 | | | 11.5 | |
| Approach LOS | | B | | | B | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 21.4 | | 10.6 | | 21.4 | | 8.5 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 7.8 | | 3.2 | | 9.2 | | 2.6 | | | | |
| Green Ext Time (p_c), s | | 4.3 | | 0.2 | | 5.2 | | 0.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 11.6 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 3 | 19 | 11 | 597 | 692 | 11 |
| Future Vol, veh/h | 3 | 19 | 11 | 597 | 692 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 3 | 0 | 0 | 3 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 21 | 12 | 649 | 752 | 12 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1104 | 379 | 767 | 0 | - | 0 |
| Stage 1 | 755 | - | - | - | - | - |
| Stage 2 | 348 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 205 | 619 | 842 | - | - | - |
| Stage 1 | 425 | - | - | - | - | - |
| Stage 2 | 686 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 201 | 617 | 840 | - | - | - |
| Mov Cap-2 Maneuver | 201 | - | - | - | - | - |
| Stage 1 | 416 | - | - | - | - | - |
| Stage 2 | 684 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|------|----|
| HCM Control Delay, s/v | 12.88 | 0.32 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 65 | - | 481 | - | - |
| HCM Lane V/C Ratio | 0.014 | - | 0.05 | - | - |
| HCM Control Delay (s/veh) | 9.3 | 0.2 | 12.9 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 11 | 31 | 573 | 0 | 15 | 709 |
| Future Vol, veh/h | 11 | 31 | 573 | 0 | 15 | 709 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 12 | 34 | 623 | 0 | 16 | 771 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1044 | 314 | 0 | 0 | 626 | 0 |
| Stage 1 | 626 | - | - | - | - | - |
| Stage 2 | 418 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 225 | 681 | - | - | 952 | - |
| Stage 1 | 495 | - | - | - | - | - |
| Stage 2 | 632 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 219 | 679 | - | - | 949 | - |
| Mov Cap-2 Maneuver | 219 | - | - | - | - | - |
| Stage 1 | 494 | - | - | - | - | - |
| Stage 2 | 619 | - | - | - | - | - |

| Approach | WB | NB | SB |
|-----------------------------|----|----|------|
| HCM Control Delay, s/v14.17 | | 0 | 0.37 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 438 | 75 |
| HCM Lane V/C Ratio | - | - | 0.104 | 0.017 |
| HCM Control Delay (s/veh) | - | - | 14.2 | 8.9 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0.1 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Y | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 7 | 11 | 4 | 576 | 698 | 12 |
| Future Vol, veh/h | 7 | 11 | 4 | 576 | 698 | 12 |
| Conflicting Peds, #/hr | 0 | 0 | 4 | 0 | 0 | 4 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 12 | 4 | 626 | 759 | 13 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1084 | 383 | 776 | 0 | - | 0 |
| Stage 1 | 763 | - | - | - | - | - |
| Stage 2 | 322 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 211 | 615 | 836 | - | - | - |
| Stage 1 | 421 | - | - | - | - | - |
| Stage 2 | 707 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 208 | 612 | 833 | - | - | - |
| Mov Cap-2 Maneuver | 208 | - | - | - | - | - |
| Stage 1 | 417 | - | - | - | - | - |
| Stage 2 | 705 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|------|----|
| HCM Control Delay, s/v15.92 | | 0.12 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 25 | - | 349 | - | - |
| HCM Lane V/C Ratio | 0.005 | - | 0.056 | - | - |
| HCM Control Delay (s/veh) | 9.3 | 0.1 | 15.9 | - | - |
| HCM Lane LOS | A | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 12 | 35 | 542 | 16 | 18 | 708 |
| Future Vol, veh/h | 12 | 35 | 542 | 16 | 18 | 708 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 8 | 8 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 38 | 589 | 17 | 20 | 770 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1021 | 303 | 0 | 0 | 615 | 0 |
| Stage 1 | 597 | - | - | - | - | - |
| Stage 2 | 424 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 232 | 693 | - | - | 961 | - |
| Stage 1 | 513 | - | - | - | - | - |
| Stage 2 | 628 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | |
| Mov Cap-1 Maneuver | 225 | 688 | - | - | 954 | - |
| Mov Cap-2 Maneuver | 225 | - | - | - | - | - |
| Stage 1 | 509 | - | - | - | - | - |
| Stage 2 | 612 | - | - | - | - | - |

| Approach | WB | NB | SB |
|-----------------------------|----|----|------|
| HCM Control Delay, s/v14.01 | | 0 | 0.43 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 451 | 89 |
| HCM Lane V/C Ratio | - | - | 0.113 | 0.021 |
| HCM Control Delay (s/veh) | - | - | 14 | 8.9 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.1 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|-------|------|------|-------|------|
| Lane Configurations | ↵ | | ↑↑ | ↱ | | ↱↱ |
| Traffic Volume (veh/h) | 92 | 31 | 543 | 40 | 14 | 708 |
| Future Volume (veh/h) | 92 | 31 | 543 | 40 | 14 | 708 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 100 | 34 | 590 | 43 | 15 | 770 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 121 | 41 | 2906 | 1296 | 60 | 2784 |
| Arrive On Green | 0.09 | 0.09 | 0.82 | 0.82 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1280 | 435 | 3647 | 1585 | 35 | 3490 |
| Grp Volume(v), veh/h | 135 | 0 | 590 | 43 | 416 | 369 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 0 | 1777 | 1585 | 1823 | 1617 |
| Q Serve(g_s), s | 9.2 | 0.0 | 4.4 | 0.6 | 0.0 | 6.5 |
| Cycle Q Clear(g_c), s | 9.2 | 0.0 | 4.4 | 0.6 | 6.3 | 6.5 |
| Prop In Lane | 0.74 | 0.25 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 164 | 0 | 2906 | 1296 | 1522 | 1322 |
| V/C Ratio(X) | 0.82 | 0.00 | 0.20 | 0.03 | 0.27 | 0.28 |
| Avail Cap(c_a), veh/h | 374 | 0 | 2906 | 1296 | 1522 | 1322 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.94 | 0.94 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.3 | 0.0 | 2.4 | 2.0 | 2.6 | 2.6 |
| Incr Delay (d2), s/veh | 9.9 | 0.0 | 0.1 | 0.0 | 0.4 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.5 | 0.0 | 1.1 | 0.1 | 1.8 | 1.6 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 63.2 | 0.0 | 2.5 | 2.1 | 3.0 | 3.1 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 135 | | 633 | | | 785 |
| Approach Delay, s/veh | 63.2 | | 2.5 | | | 3.1 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 103.6 | | | 103.6 | 16.4 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 6.4 | | | 8.5 | 11.2 |
| Green Ext Time (p_c), s | | 4.6 | | | 5.6 | 0.3 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 8.1 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|------|-------|------|------|------|-------|
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 82 | 57 | 73 | 502 | 704 | 100 |
| Future Volume (veh/h) | 82 | 57 | 73 | 502 | 704 | 100 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 89 | 62 | 79 | 546 | 765 | 109 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 106 | 74 | 299 | 2043 | 2863 | 1277 |
| Arrive On Green | 0.11 | 0.11 | 0.81 | 0.81 | 1.00 | 1.00 |
| Sat Flow, veh/h | 993 | 692 | 323 | 2620 | 3647 | 1585 |
| Grp Volume(v), veh/h | 152 | 0 | 280 | 345 | 765 | 109 |
| Grp Sat Flow(s),veh/h/ln | 1696 | 0 | 1241 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 10.6 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 10.6 | 0.0 | 4.1 | 6.3 | 0.0 | 0.0 |
| Prop In Lane | 0.59 | 0.41 | 0.28 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 181 | 0 | 1038 | 1303 | 2863 | 1277 |
| V/C Ratio(X) | 0.84 | 0.00 | 0.27 | 0.27 | 0.27 | 0.09 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1038 | 1303 | 2863 | 1277 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.33 | 1.33 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.95 | 0.95 |
| Uniform Delay (d), s/veh | 52.6 | 0.0 | 2.7 | 2.9 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 9.9 | 0.0 | 0.6 | 0.5 | 0.2 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.0 | 0.0 | 1.3 | 1.7 | 0.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 62.5 | 0.0 | 3.3 | 3.4 | 0.2 | 0.1 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 152 | | | 625 | 874 | |
| Approach Delay, s/veh | 62.5 | | | 3.3 | 0.2 | |
| Approach LOS | E | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 102.2 | | 17.8 | | 102.2 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 8.3 | | 12.6 | | 2.0 |
| Green Ext Time (p_c), s | | 4.9 | | 0.3 | | 6.7 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 7.1 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕↕ | ↗ | | ↕↕ | ↗ |
| Traffic Volume (veh/h) | 19 | 4 | 26 | 30 | 7 | 22 | 10 | 939 | 39 | 25 | 1256 | 18 |
| Future Volume (veh/h) | 19 | 4 | 26 | 30 | 7 | 22 | 10 | 939 | 39 | 25 | 1256 | 18 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 21 | 4 | 28 | 33 | 8 | 24 | 11 | 1021 | 42 | 27 | 1365 | 20 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 61 | 12 | 82 | 90 | 22 | 65 | 59 | 1818 | 839 | 70 | 1789 | 839 |
| Arrive On Green | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 |
| Sat Flow, veh/h | 665 | 127 | 886 | 870 | 211 | 633 | 11 | 3436 | 1585 | 30 | 3382 | 1585 |
| Grp Volume(v), veh/h | 53 | 0 | 0 | 65 | 0 | 0 | 548 | 484 | 42 | 736 | 656 | 20 |
| Grp Sat Flow(s),veh/h/ln | 1678 | 0 | 0 | 1713 | 0 | 0 | 1830 | 1617 | 1585 | 1795 | 1617 | 1585 |
| Q Serve(g_s), s | 2.0 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 13.9 | 0.9 | 2.3 | 22.2 | 0.4 |
| Cycle Q Clear(g_c), s | 2.0 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 13.5 | 13.9 | 0.9 | 21.4 | 22.2 | 0.4 |
| Prop In Lane | 0.40 | | 0.53 | 0.51 | | 0.37 | 0.02 | | 1.00 | 0.04 | | 1.00 |
| Lane Grp Cap(c), veh/h | 155 | 0 | 0 | 177 | 0 | 0 | 1021 | 855 | 839 | 1003 | 855 | 839 |
| V/C Ratio(X) | 0.34 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.54 | 0.57 | 0.05 | 0.73 | 0.77 | 0.02 |
| Avail Cap(c_a), veh/h | 583 | 0 | 0 | 546 | 0 | 0 | 1487 | 1289 | 1263 | 1462 | 1289 | 1263 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.3 | 0.0 | 0.0 | 28.8 | 0.0 | 0.0 | 10.8 | 10.9 | 7.9 | 12.6 | 12.9 | 7.8 |
| Incr Delay (d2), s/veh | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.4 | 0.6 | 0.0 | 1.1 | 1.6 | 0.0 |
| 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 | 0.0 | 1.0 | 0.0 | 0.0 | 4.7 | 4.2 | 0.3 | 7.5 | 6.9 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 30.6 | 0.0 | 0.0 | 30.1 | 0.0 | 0.0 | 11.3 | 11.5 | 7.9 | 13.7 | 14.5 | 7.8 |
| LnGrp LOS | C | | | C | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 53 | | | 65 | | | 1074 | | | 1412 | |
| Approach Delay, s/veh | | 30.6 | | | 30.1 | | | 11.2 | | | 14.0 | |
| Approach LOS | | C | | | C | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 43.5 | | 13.1 | | 43.5 | | 12.4 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 15.9 | | 4.4 | | 24.2 | | 4.0 | | | | |
| Green Ext Time (p_c), s | | 8.4 | | 0.2 | | 12.3 | | 0.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 13.6 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.1 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 12 | 30 | 13 | 989 | 1270 | 19 |
| Future Vol, veh/h | 12 | 30 | 13 | 989 | 1270 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 9 | 0 | 0 | 9 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 33 | 14 | 1075 | 1380 | 21 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1955 | 699 | 1410 | 0 | - | 0 |
| Stage 1 | 1389 | - | - | - | - | - |
| Stage 2 | 566 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 56 | 382 | 480 | - | - | - |
| Stage 1 | 196 | - | - | - | - | - |
| Stage 2 | 532 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 53 | 379 | 476 | - | - | - |
| Mov Cap-2 Maneuver | 53 | - | - | - | - | - |
| Stage 1 | 186 | - | - | - | - | - |
| Stage 2 | 527 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|------|----|
| HCM Control Delay, s/v44.01 | | 0.69 | 0 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|------|-----|-------|-----|-----|
| Capacity (veh/h) | 47 | - | 137 | - | - |
| HCM Lane V/C Ratio | 0.03 | - | 0.334 | - | - |
| HCM Control Delay (s/veh) | 12.8 | 0.5 | 44 | - | - |
| HCM Lane LOS | B | A | E | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 1.3 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.3 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 12 | 25 | 971 | 23 | 34 | 1295 |
| Future Vol, veh/h | 12 | 25 | 971 | 23 | 34 | 1295 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 27 | 1055 | 25 | 37 | 1408 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1833 | 528 | 0 | 0 | 1080 |
| Stage 1 | 1055 | - | - | - | - |
| Stage 2 | 778 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 68 | 495 | - | - | 641 |
| Stage 1 | 296 | - | - | - | - |
| Stage 2 | 414 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 61 | 495 | - | - | 641 |
| Mov Cap-2 Maneuver | 61 | - | - | - | - |
| Stage 1 | 296 | - | - | - | - |
| Stage 2 | 374 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 37.57 | 0 | 1.24 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 150 | 92 |
| HCM Lane V/C Ratio | - | - | 0.268 | 0.058 |
| HCM Control Delay (s/veh) | - | - | 37.6 | 11 |
| HCM Lane LOS | - | - | E | B |
| HCM 95th %tile Q(veh) | - | - | 1 | 0.2 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 6 | 19 | 13 | 990 | 1260 | 21 |
| Future Vol, veh/h | 6 | 19 | 13 | 990 | 1260 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 14 | 0 | 0 | 14 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 21 | 14 | 1076 | 1370 | 23 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1950 | 699 | 1406 | 0 | - | 0 |
| Stage 1 | 1384 | - | - | - | - | - |
| Stage 2 | 566 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 56 | 382 | 481 | - | - | - |
| Stage 1 | 198 | - | - | - | - | - |
| Stage 2 | 531 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 53 | 377 | 475 | - | - | - |
| Mov Cap-2 Maneuver | 53 | - | - | - | - | - |
| Stage 1 | 187 | - | - | - | - | - |
| Stage 2 | 524 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|------|----|
| HCM Control Delay, s/v | 33.79 | 0.69 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|------|-----|-------|-----|-----|
| Capacity (veh/h) | 47 | - | 152 | - | - |
| HCM Lane V/C Ratio | 0.03 | - | 0.179 | - | - |
| HCM Control Delay (s/veh) | 12.8 | 0.5 | 33.8 | - | - |
| HCM Lane LOS | B | A | D | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.6 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.2 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | ↘ | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 8 | 19 | 972 | 36 | 39 | 1276 |
| Future Vol, veh/h | 8 | 19 | 972 | 36 | 39 | 1276 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 7 | 7 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 9 | 21 | 1057 | 39 | 42 | 1387 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1842 | 535 | 0 | 0 | 1103 |
| Stage 1 | 1064 | - | - | - | - |
| Stage 2 | 778 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 67 | 490 | - | - | 629 |
| Stage 1 | 293 | - | - | - | - |
| Stage 2 | 413 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 59 | 486 | - | - | 625 |
| Mov Cap-2 Maneuver | 59 | - | - | - | - |
| Stage 1 | 291 | - | - | - | - |
| Stage 2 | 368 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 3.71 | 0 | 1.46 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|------|-------|
| Capacity (veh/h) | - | - | 154 | 107 |
| HCM Lane V/C Ratio | - | - | 0.19 | 0.068 |
| HCM Control Delay (s/veh) | - | - | 33.7 | 11.2 |
| HCM Lane LOS | - | - | D | B |
| HCM 95th %tile Q(veh) | - | - | 0.7 | 0.2 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|-------|------|------|-------|------|
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Volume (veh/h) | 57 | 27 | 1024 | 149 | 25 | 1252 |
| Future Volume (veh/h) | 57 | 27 | 1024 | 149 | 25 | 1252 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 62 | 29 | 1113 | 162 | 27 | 1361 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 78 | 37 | 3002 | 1339 | 61 | 2815 |
| Arrive On Green | 0.07 | 0.07 | 1.00 | 1.00 | 0.84 | 0.84 |
| Sat Flow, veh/h | 1156 | 541 | 3647 | 1585 | 36 | 3418 |
| Grp Volume(v), veh/h | 92 | 0 | 1113 | 162 | 726 | 662 |
| Grp Sat Flow(s),veh/h/ln | 1715 | 0 | 1777 | 1585 | 1752 | 1617 |
| Q Serve(g_s), s | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 12.9 |
| Cycle Q Clear(g_c), s | 6.3 | 0.0 | 0.0 | 0.0 | 11.8 | 12.9 |
| Prop In Lane | 0.67 | 0.32 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 116 | 0 | 3002 | 1339 | 1511 | 1366 |
| V/C Ratio(X) | 0.79 | 0.00 | 0.37 | 0.12 | 0.48 | 0.48 |
| Avail Cap(c_a), veh/h | 372 | 0 | 3002 | 1339 | 1511 | 1366 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.33 | 1.33 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.69 | 0.69 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 55.1 | 0.0 | 0.0 | 0.0 | 2.4 | 2.5 |
| Incr Delay (d2), s/veh | 11.3 | 0.0 | 0.2 | 0.1 | 1.1 | 1.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.1 | 0.0 | 0.1 | 0.0 | 2.9 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 66.4 | 0.0 | 0.2 | 0.1 | 3.5 | 3.7 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 92 | | 1275 | | | 1388 |
| Approach Delay, s/veh | 66.4 | | 0.2 | | | 3.6 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 106.9 | | | 106.9 | 13.1 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 2.0 | | | 14.9 | 8.3 |
| Green Ext Time (p_c), s | | 11.8 | | | 14.8 | 0.2 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 4.1 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|-------|------|------|------|------|------|
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 239 | 162 | 25 | 910 | 1282 | 59 |
| Future Volume (veh/h) | 239 | 162 | 25 | 910 | 1282 | 59 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 260 | 176 | 27 | 989 | 1393 | 64 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 219 | 148 | 66 | 2251 | 2473 | 1103 |
| Arrive On Green | 0.22 | 0.22 | 0.70 | 0.70 | 1.00 | 1.00 |
| Sat Flow, veh/h | 1010 | 683 | 49 | 3320 | 3647 | 1585 |
| Grp Volume(v), veh/h | 437 | 0 | 516 | 500 | 1393 | 64 |
| Grp Sat Flow(s),veh/h/ln | 1697 | 0 | 1667 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 26.0 | 0.0 | 0.0 | 16.3 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 26.0 | 0.0 | 13.9 | 16.3 | 0.0 | 0.0 |
| Prop In Lane | 0.59 | 0.40 | 0.05 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 368 | 0 | 1192 | 1125 | 2473 | 1103 |
| V/C Ratio(X) | 1.19 | 0.00 | 0.43 | 0.44 | 0.56 | 0.06 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1192 | 1125 | 2473 | 1103 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.83 | 0.83 |
| Uniform Delay (d), s/veh | 47.0 | 0.0 | 7.7 | 8.0 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 108.9 | 0.0 | 1.1 | 1.3 | 0.8 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 12.1 | 0.0 | 5.4 | 5.5 | 0.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 155.9 | 0.0 | 8.8 | 9.3 | 0.8 | 0.1 |
| LnGrp LOS | F | | A | A | A | A |
| Approach Vol, veh/h | 437 | | | 1016 | 1457 | |
| Approach Delay, s/veh | 155.9 | | | 9.1 | 0.7 | |
| Approach LOS | F | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 89.0 | | 31.0 | | 89.0 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 18.3 | | 28.0 | | 2.0 |
| Green Ext Time (p_c), s | | 8.8 | | 0.0 | | 16.6 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 27.0 | | | |
| HCM 7th LOS | | | C | | | |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕↕ | ↗ | | ↕↕ | ↗ |
| Traffic Volume (veh/h) | 8 | 1 | 10 | 18 | 3 | 23 | 8 | 566 | 8 | 5 | 677 | 5 |
| Future Volume (veh/h) | 8 | 1 | 10 | 18 | 3 | 23 | 8 | 566 | 8 | 5 | 677 | 5 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 11 | 1 | 14 | 24 | 4 | 31 | 9 | 615 | 9 | 5 | 720 | 5 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.75 | 0.75 | 0.75 | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 44 | 4 | 56 | 82 | 14 | 106 | 97 | 1192 | 548 | 93 | 1200 | 548 |
| Arrive On Green | 0.06 | 0.06 | 0.06 | 0.12 | 0.12 | 0.12 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 |
| Sat Flow, veh/h | 708 | 64 | 901 | 682 | 114 | 881 | 15 | 3450 | 1585 | 6 | 3474 | 1585 |
| Grp Volume(v), veh/h | 26 | 0 | 0 | 59 | 0 | 0 | 334 | 290 | 9 | 388 | 337 | 5 |
| Grp Sat Flow(s),veh/h/ln | 1673 | 0 | 0 | 1678 | 0 | 0 | 1848 | 1617 | 1585 | 1862 | 1617 | 1585 |
| Q Serve(g_s), s | 0.6 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 5.8 | 0.2 | 0.0 | 6.9 | 0.1 |
| Cycle Q Clear(g_c), s | 0.6 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 5.7 | 5.8 | 0.2 | 6.9 | 6.9 | 0.1 |
| Prop In Lane | 0.42 | | 0.54 | 0.41 | | 0.53 | 0.03 | | 1.00 | 0.01 | | 1.00 |
| Lane Grp Cap(c), veh/h | 105 | 0 | 0 | 201 | 0 | 0 | 730 | 559 | 548 | 734 | 559 | 548 |
| V/C Ratio(X) | 0.25 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.46 | 0.52 | 0.02 | 0.53 | 0.60 | 0.01 |
| Avail Cap(c_a), veh/h | 997 | 0 | 0 | 917 | 0 | 0 | 2561 | 2209 | 2165 | 2610 | 2209 | 2165 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.0 | 0.0 | 0.0 | 16.2 | 0.0 | 0.0 | 10.5 | 10.5 | 8.7 | 10.9 | 10.9 | 8.7 |
| Incr Delay (d2), s/veh | 1.2 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.4 | 0.8 | 0.0 | 0.6 | 1.0 | 0.0 |
| 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 | 0.2 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 1.8 | 1.6 | 0.0 | 2.2 | 1.9 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 19.2 | 0.0 | 0.0 | 17.0 | 0.0 | 0.0 | 10.9 | 11.3 | 8.7 | 11.5 | 11.9 | 8.7 |
| LnGrp LOS | B | | | B | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 26 | | | 59 | | | 633 | | | 730 | |
| Approach Delay, s/veh | | 19.2 | | | 17.0 | | | 11.1 | | | 11.7 | |
| Approach LOS | | B | | | B | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 20.9 | | 10.8 | | 20.9 | | 8.5 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 7.8 | | 3.3 | | 8.9 | | 2.6 | | | | |
| Green Ext Time (p_c), s | | 4.2 | | 0.2 | | 5.0 | | 0.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 11.8 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 1 | 17 | 10 | 590 | 686 | 9 |
| Future Vol, veh/h | 1 | 17 | 10 | 590 | 686 | 9 |
| Conflicting Peds, #/hr | 0 | 0 | 3 | 0 | 0 | 3 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 1 | 18 | 11 | 641 | 746 | 10 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1091 | 376 | 758 | 0 | - | 0 |
| Stage 1 | 749 | - | - | - | - | - |
| Stage 2 | 342 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 209 | 622 | 849 | - | - | - |
| Stage 1 | 428 | - | - | - | - | - |
| Stage 2 | 691 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 205 | 620 | 846 | - | - | - |
| Mov Cap-2 Maneuver | 205 | - | - | - | - | - |
| Stage 1 | 420 | - | - | - | - | - |
| Stage 2 | 689 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|------|------|----|
| HCM Control Delay, s/v | 11.7 | 0.29 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 60 | - | 557 | - | - |
| HCM Lane V/C Ratio | 0.013 | - | 0.035 | - | - |
| HCM Control Delay (s/veh) | 9.3 | 0.1 | 11.7 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 10 | 30 | 561 | 0 | 29 | 687 |
| Future Vol, veh/h | 10 | 30 | 561 | 0 | 29 | 687 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 73 | 73 | 91 | 91 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 14 | 41 | 616 | 0 | 32 | 747 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1056 | 311 | 0 | 0 | 619 | 0 |
| Stage 1 | 619 | - | - | - | - | - |
| Stage 2 | 436 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 221 | 685 | - | - | 957 | - |
| Stage 1 | 499 | - | - | - | - | - |
| Stage 2 | 619 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | |
| Mov Cap-1 Maneuver | 211 | 683 | - | - | 954 | - |
| Mov Cap-2 Maneuver | 211 | - | - | - | - | - |
| Stage 1 | 498 | - | - | - | - | - |
| Stage 2 | 593 | - | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 14.4 | 0 | 0.69 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 438 | 146 |
| HCM Lane V/C Ratio | - | - | 0.125 | 0.033 |
| HCM Control Delay (s/veh) | - | - | 14.4 | 8.9 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.1 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.2 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 5 | 9 | 3 | 564 | 677 | 8 |
| Future Vol, veh/h | 5 | 9 | 3 | 564 | 677 | 8 |
| Conflicting Peds, #/hr | 0 | 0 | 4 | 0 | 0 | 4 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 5 | 10 | 3 | 613 | 736 | 9 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1053 | 372 | 749 | 0 | - | 0 |
| Stage 1 | 740 | - | - | - | - | - |
| Stage 2 | 313 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 222 | 625 | 856 | - | - | - |
| Stage 1 | 433 | - | - | - | - | - |
| Stage 2 | 714 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 219 | 623 | 853 | - | - | - |
| Mov Cap-2 Maneuver | 219 | - | - | - | - | - |
| Stage 1 | 429 | - | - | - | - | - |
| Stage 2 | 712 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|------|----|
| HCM Control Delay, s/v14.99 | | 0.09 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 19 | - | 375 | - | - |
| HCM Lane V/C Ratio | 0.004 | - | 0.041 | - | - |
| HCM Control Delay (s/veh) | 9.2 | 0 | 15 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.1 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 13 | 34 | 524 | 21 | 17 | 691 |
| Future Vol, veh/h | 13 | 34 | 524 | 21 | 17 | 691 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 8 | 8 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 77 | 77 | 92 | 92 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 17 | 44 | 570 | 23 | 18 | 743 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 986 | 293 | 0 | 0 | 600 | 0 |
| Stage 1 | 578 | - | - | - | - | - |
| Stage 2 | 408 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 245 | 704 | - | - | 973 | - |
| Stage 1 | 524 | - | - | - | - | - |
| Stage 2 | 640 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 237 | 698 | - | - | 965 | - |
| Mov Cap-2 Maneuver | 237 | - | - | - | - | - |
| Stage 1 | 520 | - | - | - | - | - |
| Stage 2 | 625 | - | - | - | - | - |

| Approach | WB | NB | SB |
|-----------------------------|----|----|------|
| HCM Control Delay, s/v14.15 | | 0 | 0.41 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 454 | 86 |
| HCM Lane V/C Ratio | - | - | 0.134 | 0.019 |
| HCM Control Delay (s/veh) | - | - | 14.2 | 8.8 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.5 | 0.1 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | ↵ | | ↕ | ↗ | | ↕ |
| Traffic Volume (veh/h) | 90 | 30 | 530 | 39 | 13 | 692 |
| Future Volume (veh/h) | 90 | 30 | 530 | 39 | 13 | 692 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 150 | 50 | 564 | 41 | 14 | 752 |
| Peak Hour Factor | 0.60 | 0.60 | 0.94 | 0.94 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 173 | 58 | 2767 | 1234 | 56 | 2658 |
| Arrive On Green | 0.13 | 0.13 | 0.78 | 0.78 | 0.78 | 0.78 |
| Sat Flow, veh/h | 1290 | 430 | 3647 | 1585 | 32 | 3499 |
| Grp Volume(v), veh/h | 201 | 0 | 564 | 41 | 407 | 359 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 0 | 1777 | 1585 | 1829 | 1617 |
| Q Serve(g_s), s | 13.7 | 0.0 | 5.0 | 0.7 | 0.0 | 7.6 |
| Cycle Q Clear(g_c), s | 13.7 | 0.0 | 5.0 | 0.7 | 7.4 | 7.6 |
| Prop In Lane | 0.75 | 0.25 | | 1.00 | 0.03 | |
| Lane Grp Cap(c), veh/h | 231 | 0 | 2767 | 1234 | 1455 | 1259 |
| V/C Ratio(X) | 0.87 | 0.00 | 0.20 | 0.03 | 0.28 | 0.29 |
| Avail Cap(c_a), veh/h | 375 | 0 | 2767 | 1234 | 1455 | 1259 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.91 | 0.91 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 50.9 | 0.0 | 3.5 | 3.0 | 3.8 | 3.8 |
| Incr Delay (d2), s/veh | 11.7 | 0.0 | 0.2 | 0.0 | 0.5 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 6.7 | 0.0 | 1.5 | 0.2 | 2.4 | 2.2 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 62.6 | 0.0 | 3.6 | 3.1 | 4.2 | 4.4 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 201 | | 605 | | | 766 |
| Approach Delay, s/veh | 62.6 | | 3.6 | | | 4.3 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 98.9 | | | 98.9 | 21.1 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 7.0 | | | 9.6 | 15.7 |
| Green Ext Time (p_c), s | | 4.4 | | | 5.5 | 0.4 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 11.5 | | | |
| HCM 7th LOS | | | B | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|------|------|------|------|------|------|
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 79 | 54 | 71 | 490 | 689 | 94 |
| Future Volume (veh/h) | 79 | 54 | 71 | 490 | 689 | 94 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 127 | 87 | 77 | 533 | 749 | 102 |
| Peak Hour Factor | 0.62 | 0.62 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 145 | 99 | 286 | 1963 | 2730 | 1218 |
| Arrive On Green | 0.14 | 0.14 | 0.77 | 0.77 | 1.00 | 1.00 |
| Sat Flow, veh/h | 1002 | 687 | 323 | 2640 | 3647 | 1585 |
| Grp Volume(v), veh/h | 215 | 0 | 276 | 334 | 749 | 102 |
| Grp Sat Flow(s),veh/h/ln | 1697 | 0 | 1261 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 14.9 | 0.0 | 0.0 | 7.2 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 14.9 | 0.0 | 4.8 | 7.2 | 0.0 | 0.0 |
| Prop In Lane | 0.59 | 0.40 | 0.28 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 245 | 0 | 1007 | 1242 | 2730 | 1218 |
| V/C Ratio(X) | 0.88 | 0.00 | 0.27 | 0.27 | 0.27 | 0.08 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1007 | 1242 | 2730 | 1218 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.33 | 1.33 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.93 | 0.93 |
| Uniform Delay (d), s/veh | 50.3 | 0.0 | 3.8 | 4.1 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 14.6 | 0.0 | 0.7 | 0.5 | 0.2 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 7.4 | 0.0 | 1.7 | 2.1 | 0.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 64.9 | 0.0 | 4.5 | 4.6 | 0.2 | 0.1 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 215 | | | 610 | 851 | |
| Approach Delay, s/veh | 64.9 | | | 4.5 | 0.2 | |
| Approach LOS | E | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 97.7 | | 22.3 | | 97.7 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 9.2 | | 16.9 | | 2.0 |
| Green Ext Time (p_c), s | | 4.8 | | 0.4 | | 6.4 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 10.1 | | | |
| HCM 7th LOS | | | B | | | |

HCM 7th TWSC
8: Driveway 1 & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|----------|------|------|----------|----------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | T | | | T | T | |
| Traffic Vol, veh/h | 14 | 15 | 2 | 36 | 4 | 2 |
| Future Vol, veh/h | 14 | 15 | 2 | 36 | 4 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 16 | 2 | 39 | 4 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 32 | 0 | 67 23 |
| Stage 1 | - | - | - | - | 23 - |
| Stage 2 | - | - | - | - | 43 - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | - | - | 1581 | - | 938 1053 |
| Stage 1 | - | - | - | - | 999 - |
| Stage 2 | - | - | - | - | 979 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1581 | - | 937 1053 |
| Mov Cap-2 Maneuver | - | - | - | - | 937 - |
| Stage 1 | - | - | - | - | 999 - |
| Stage 2 | - | - | - | - | 978 - |

| Approach | EB | WB | NB |
|------------------------|----|------|------|
| HCM Control Delay, s/v | 0 | 0.38 | 8.73 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 973 | - | - | 95 | - |
| HCM Lane V/C Ratio | 0.007 | - | - | 0.001 | - |
| HCM Control Delay (s/veh) | 8.7 | - | - | 7.3 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

HCM 7th TWSC
 9: Inglewood Ave & Driveway 2

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | T | | | T |
| Traffic Vol, veh/h | 14 | 16 | 551 | 9 | 9 | 668 |
| Future Vol, veh/h | 14 | 16 | 551 | 9 | 9 | 668 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 17 | 599 | 10 | 10 | 726 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 986 | 304 | 0 | 0 | 609 | 0 |
| Stage 1 | 604 | - | - | - | - | - |
| Stage 2 | 383 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 245 | 692 | - | - | 966 | - |
| Stage 1 | 508 | - | - | - | - | - |
| Stage 2 | 659 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 242 | 692 | - | - | 966 | - |
| Mov Cap-2 Maneuver | 242 | - | - | - | - | - |
| Stage 1 | 508 | - | - | - | - | - |
| Stage 2 | 651 | - | - | - | - | - |

| Approach | WB | NB | SB |
|-----------------------------|----|----|------|
| HCM Control Delay, s/v15.67 | | 0 | 0.22 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|------|
| Capacity (veh/h) | - | - | 370 | 48 |
| HCM Lane V/C Ratio | - | - | 0.088 | 0.01 |
| HCM Control Delay (s/veh) | - | - | 15.7 | 8.8 |
| HCM Lane LOS | - | - | C | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | 4 | 4 | | 4 | |
| Traffic Vol, veh/h | 6 | 32 | 45 | 2 | 3 | 2 |
| Future Vol, veh/h | 6 | 32 | 45 | 2 | 3 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 35 | 49 | 2 | 3 | 2 |

| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 51 | 0 | - | 0 | 98 |
| Stage 1 | - | - | - | - | 50 |
| Stage 2 | - | - | - | - | 48 |
| Critical Hdwy | 4.12 | - | - | - | 6.42 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 |
| Pot Cap-1 Maneuver | 1555 | - | - | - | 901 |
| Stage 1 | - | - | - | - | 972 |
| Stage 2 | - | - | - | - | 975 |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 1555 | - | - | - | 897 |
| Mov Cap-2 Maneuver | - | - | - | - | 897 |
| Stage 1 | - | - | - | - | 968 |
| Stage 2 | - | - | - | - | 975 |

| Approach | EB | WB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 1.16 | 0 | 8.84 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|---------------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 284 | - | - | - | 942 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.006 |
| HCM Control Delay (s/veh) | 7.3 | 0 | - | - | 8.8 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0 |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕ | ↗ | | ↕ | ↗ |
| Traffic Volume (veh/h) | 16 | 3 | 23 | 29 | 2 | 21 | 9 | 912 | 38 | 24 | 1224 | 13 |
| Future Volume (veh/h) | 16 | 3 | 23 | 29 | 2 | 21 | 9 | 912 | 38 | 24 | 1224 | 13 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 23 | 4 | 32 | 39 | 3 | 28 | 10 | 991 | 41 | 26 | 1302 | 14 |
| Peak Hour Factor | 0.71 | 0.71 | 0.71 | 0.75 | 0.75 | 0.75 | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.94 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 65 | 11 | 90 | 103 | 8 | 74 | 59 | 1759 | 810 | 71 | 1729 | 810 |
| Arrive On Green | 0.10 | 0.10 | 0.10 | 0.11 | 0.11 | 0.11 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 | 0.51 |
| Sat Flow, veh/h | 653 | 114 | 908 | 947 | 73 | 680 | 10 | 3444 | 1585 | 30 | 3386 | 1585 |
| Grp Volume(v), veh/h | 59 | 0 | 0 | 70 | 0 | 0 | 533 | 468 | 41 | 702 | 626 | 14 |
| Grp Sat Flow(s),veh/h/ln | 1674 | 0 | 0 | 1701 | 0 | 0 | 1837 | 1617 | 1585 | 1798 | 1617 | 1585 |
| Q Serve(g_s), s | 2.2 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 13.5 | 0.9 | 1.7 | 20.9 | 0.3 |
| Cycle Q Clear(g_c), s | 2.2 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 13.1 | 13.5 | 0.9 | 20.0 | 20.9 | 0.3 |
| Prop In Lane | 0.39 | | 0.54 | 0.56 | | 0.40 | 0.02 | | 1.00 | 0.04 | | 1.00 |
| Lane Grp Cap(c), veh/h | 166 | 0 | 0 | 184 | 0 | 0 | 993 | 826 | 810 | 974 | 826 | 810 |
| V/C Ratio(X) | 0.36 | 0.00 | 0.00 | 0.38 | 0.00 | 0.00 | 0.54 | 0.57 | 0.05 | 0.72 | 0.76 | 0.02 |
| Avail Cap(c_a), veh/h | 596 | 0 | 0 | 555 | 0 | 0 | 1528 | 1319 | 1293 | 1497 | 1319 | 1293 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 28.4 | 0.0 | 0.0 | 28.0 | 0.0 | 0.0 | 11.3 | 11.4 | 8.3 | 12.9 | 13.2 | 8.1 |
| Incr Delay (d2), s/veh | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.5 | 0.6 | 0.0 | 1.0 | 1.5 | 0.0 |
| 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 | 0.0 | 1.1 | 0.0 | 0.0 | 4.6 | 4.1 | 0.3 | 7.1 | 6.5 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 29.6 | 0.0 | 0.0 | 29.2 | 0.0 | 0.0 | 11.7 | 12.0 | 8.3 | 13.9 | 14.6 | 8.2 |
| LnGrp LOS | C | | | C | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 59 | | | 70 | | | 1042 | | | 1342 | |
| Approach Delay, s/veh | | 29.6 | | | 29.2 | | | 11.7 | | | 14.2 | |
| Approach LOS | | C | | | C | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 41.4 | | 13.3 | | 41.4 | | 12.7 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 15.5 | | 4.6 | | 22.9 | | 4.2 | | | | |
| Green Ext Time (p_c), s | | 8.0 | | 0.3 | | 11.6 | | 0.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 14.0 | | | | | | | | | |
| HCM 7th LOS | | | B | | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 9 | 27 | 12 | 960 | 1237 | 16 |
| Future Vol, veh/h | 9 | 27 | 12 | 960 | 1237 | 16 |
| Conflicting Peds, #/hr | 0 | 0 | 9 | 0 | 0 | 9 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 29 | 13 | 1043 | 1345 | 17 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1901 | 681 | 1371 | 0 | - | 0 |
| Stage 1 | 1354 | - | - | - | - | - |
| Stage 2 | 548 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 61 | 393 | 497 | - | - | - |
| Stage 1 | 205 | - | - | - | - | - |
| Stage 2 | 543 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 58 | 389 | 492 | - | - | - |
| Mov Cap-2 Maneuver | 58 | - | - | - | - | - |
| Stage 1 | 196 | - | - | - | - | - |
| Stage 2 | 539 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|-------|-----|----|
| HCM Control Delay, s/v | 34.78 | 0.6 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 44 | - | 159 | - | - |
| HCM Lane V/C Ratio | 0.026 | - | 0.245 | - | - |
| HCM Control Delay (s/veh) | 12.5 | 0.5 | 34.8 | - | - |
| HCM Lane LOS | B | A | D | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.9 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.5 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 11 | 22 | 940 | 22 | 43 | 1252 |
| Future Vol, veh/h | 11 | 22 | 940 | 22 | 43 | 1252 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 73 | 73 | 91 | 91 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 30 | 1033 | 24 | 47 | 1361 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1807 | 516 | 0 | 0 | 1057 |
| Stage 1 | 1033 | - | - | - | - |
| Stage 2 | 774 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 70 | 504 | - | - | 654 |
| Stage 1 | 304 | - | - | - | - |
| Stage 2 | 415 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 62 | 504 | - | - | 654 |
| Mov Cap-2 Maneuver | 62 | - | - | - | - |
| Stage 1 | 304 | - | - | - | - |
| Stage 2 | 368 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|------|----|-----|
| HCM Control Delay, s/v | 39.1 | 0 | 1.5 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 150 | 120 |
| HCM Lane V/C Ratio | - | - | 0.302 | 0.071 |
| HCM Control Delay (s/veh) | - | - | 39.1 | 10.9 |
| HCM Lane LOS | - | - | E | B |
| HCM 95th %tile Q(veh) | - | - | 1.2 | 0.2 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Y | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 3 | 16 | 12 | 958 | 1218 | 16 |
| Future Vol, veh/h | 3 | 16 | 12 | 958 | 1218 | 16 |
| Conflicting Peds, #/hr | 0 | 0 | 14 | 0 | 0 | 14 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 17 | 13 | 1041 | 1324 | 17 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1885 | 676 | 1355 | 0 | - | 0 |
| Stage 1 | 1338 | - | - | - | - | - |
| Stage 2 | 547 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 62 | 396 | 503 | - | - | - |
| Stage 1 | 209 | - | - | - | - | - |
| Stage 2 | 544 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 58 | 391 | 497 | - | - | - |
| Mov Cap-2 Maneuver | 58 | - | - | - | - | - |
| Stage 1 | 199 | - | - | - | - | - |
| Stage 2 | 537 | - | - | - | - | - |

| Approach | EB | NB | SB |
|------------------------|------|-----|----|
| HCM Control Delay, s/v | 4.42 | 0.6 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 45 | - | 206 | - | - |
| HCM Lane V/C Ratio | 0.026 | - | 0.1 | - | - |
| HCM Control Delay (s/veh) | 12.4 | 0.4 | 24.4 | - | - |
| HCM Lane LOS | B | A | C | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.3 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.2 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 8 | 18 | 936 | 39 | 38 | 1236 |
| Future Vol, veh/h | 8 | 18 | 936 | 39 | 38 | 1236 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 7 | 7 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 77 | 77 | 92 | 92 | 93 | 93 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 23 | 1017 | 42 | 41 | 1329 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1771 | 516 | 0 | 0 | 1067 |
| Stage 1 | 1024 | - | - | - | - |
| Stage 2 | 746 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 74 | 504 | - | - | 649 |
| Stage 1 | 307 | - | - | - | - |
| Stage 2 | 429 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 66 | 501 | - | - | 645 |
| Mov Cap-2 Maneuver | 66 | - | - | - | - |
| Stage 1 | 305 | - | - | - | - |
| Stage 2 | 386 | - | - | - | - |

| Approach | WB | NB | SB |
|-----------------------------|----|----|------|
| HCM Control Delay, s/v32.06 | | 0 | 1.33 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 166 | 107 |
| HCM Lane V/C Ratio | - | - | 0.203 | 0.063 |
| HCM Control Delay (s/veh) | - | - | 32.1 | 11 |
| HCM Lane LOS | - | - | D | B |
| HCM 95th %tile Q(veh) | - | - | 0.7 | 0.2 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|-------|------|------|-------|------|
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Volume (veh/h) | 55 | 26 | 989 | 145 | 24 | 1213 |
| Future Volume (veh/h) | 55 | 26 | 989 | 145 | 24 | 1213 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 92 | 43 | 1052 | 154 | 26 | 1318 |
| Peak Hour Factor | 0.60 | 0.60 | 0.94 | 0.94 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 111 | 52 | 2902 | 1294 | 60 | 2731 |
| Arrive On Green | 0.10 | 0.10 | 1.00 | 1.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1160 | 542 | 3647 | 1585 | 35 | 3430 |
| Grp Volume(v), veh/h | 136 | 0 | 1052 | 154 | 704 | 640 |
| Grp Sat Flow(s),veh/h/ln | 1715 | 0 | 1777 | 1585 | 1763 | 1617 |
| Q Serve(g_s), s | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 14.4 |
| Cycle Q Clear(g_c), s | 9.3 | 0.0 | 0.0 | 0.0 | 13.3 | 14.4 |
| Prop In Lane | 0.68 | 0.32 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 165 | 0 | 2902 | 1294 | 1471 | 1320 |
| V/C Ratio(X) | 0.83 | 0.00 | 0.36 | 0.12 | 0.48 | 0.48 |
| Avail Cap(c_a), veh/h | 372 | 0 | 2902 | 1294 | 1471 | 1320 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.33 | 1.33 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.31 | 0.31 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.3 | 0.0 | 0.0 | 0.0 | 3.2 | 3.3 |
| Incr Delay (d2), s/veh | 10.0 | 0.0 | 0.1 | 0.1 | 1.1 | 1.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.5 | 0.0 | 0.0 | 0.0 | 3.9 | 3.7 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 63.2 | 0.0 | 0.1 | 0.1 | 4.4 | 4.6 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 136 | | 1206 | | | 1344 |
| Approach Delay, s/veh | 63.2 | | 0.1 | | | 4.5 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 103.5 | | | 103.5 | 16.5 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 2.0 | | | 16.4 | 11.3 |
| Green Ext Time (p_c), s | | 10.7 | | | 13.8 | 0.3 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 5.5 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|-------|------|------|------|------|------|
| Lane Configurations | Y | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 231 | 156 | 24 | 877 | 1242 | 57 |
| Future Volume (veh/h) | 231 | 156 | 24 | 877 | 1242 | 57 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 373 | 252 | 26 | 953 | 1350 | 62 |
| Peak Hour Factor | 0.62 | 0.62 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 219 | 148 | 66 | 2257 | 2473 | 1103 |
| Arrive On Green | 0.22 | 0.22 | 0.70 | 0.70 | 1.00 | 1.00 |
| Sat Flow, veh/h | 1011 | 683 | 49 | 3329 | 3647 | 1585 |
| Grp Volume(v), veh/h | 626 | 0 | 499 | 480 | 1350 | 62 |
| Grp Sat Flow(s),veh/h/ln | 1697 | 0 | 1677 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 26.0 | 0.0 | 0.0 | 15.4 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 26.0 | 0.0 | 13.3 | 15.4 | 0.0 | 0.0 |
| Prop In Lane | 0.60 | 0.40 | 0.05 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 368 | 0 | 1198 | 1125 | 2473 | 1103 |
| V/C Ratio(X) | 1.70 | 0.00 | 0.42 | 0.43 | 0.55 | 0.06 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1198 | 1125 | 2473 | 1103 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.83 | 0.83 |
| Uniform Delay (d), s/veh | 47.0 | 0.0 | 7.6 | 7.9 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 327.7 | 0.0 | 1.1 | 1.2 | 0.7 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.5 | 0.0 | 5.1 | 5.2 | 0.2 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 374.7 | 0.0 | 8.6 | 9.1 | 0.7 | 0.1 |
| LnGrp LOS | F | | A | A | A | A |
| Approach Vol, veh/h | 626 | | | 979 | 1412 | |
| Approach Delay, s/veh | 374.7 | | | 8.9 | 0.7 | |
| Approach LOS | F | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 89.0 | | 31.0 | | 89.0 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 17.4 | | 28.0 | | 2.0 |
| Green Ext Time (p_c), s | | 8.3 | | 0.0 | | 15.6 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 80.9 | | | |
| HCM 7th LOS | | | F | | | |

HCM 7th TWSC
8: Driveway 1 & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|----------|------|------|----------|----------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | T | | | T | T | |
| Traffic Vol, veh/h | 55 | 10 | 2 | 30 | 3 | 1 |
| Future Vol, veh/h | 55 | 10 | 2 | 30 | 3 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 60 | 11 | 2 | 33 | 3 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | Minor2 | Minor3 |
|----------------------|--------|--------|--------|--------|--------|
| Conflicting Flow All | 0 | 0 | 71 | 0 | 102 |
| Stage 1 | - | - | - | - | 65 |
| Stage 2 | - | - | - | - | 37 |
| Critical Hdwy | - | - | 4.12 | - | 6.42 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 |
| Pot Cap-1 Maneuver | - | - | 1530 | - | 896 |
| Stage 1 | - | - | - | - | 957 |
| Stage 2 | - | - | - | - | 986 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1530 | - | 895 |
| Mov Cap-2 Maneuver | - | - | - | - | 895 |
| Stage 1 | - | - | - | - | 957 |
| Stage 2 | - | - | - | - | 984 |

| Approach | EB | WB | NB |
|------------------------|----|------|------|
| HCM Control Delay, s/v | 0 | 0.46 | 8.94 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 919 | - | - | 113 | - |
| HCM Lane V/C Ratio | 0.005 | - | - | 0.001 | - |
| HCM Control Delay (s/veh) | 8.9 | - | - | 7.4 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

HCM 7th TWSC
9: Inglewood Ave & Driveway 2

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | TB | | | TB |
| Traffic Vol, veh/h | 9 | 11 | 959 | 6 | 6 | 1212 |
| Future Vol, veh/h | 9 | 11 | 959 | 6 | 6 | 1212 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 12 | 1042 | 7 | 7 | 1317 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1717 | 524 | 0 | 0 | 1049 |
| Stage 1 | 1046 | - | - | - | - |
| Stage 2 | 672 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 81 | 498 | - | - | 659 |
| Stage 1 | 299 | - | - | - | - |
| Stage 2 | 469 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 80 | 498 | - | - | 659 |
| Mov Cap-2 Maneuver | 80 | - | - | - | - |
| Stage 1 | 299 | - | - | - | - |
| Stage 2 | 462 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 33.5 | 0 | 0.21 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|------|
| Capacity (veh/h) | - | - | 148 | 18 |
| HCM Lane V/C Ratio | - | - | 0.147 | 0.01 |
| HCM Control Delay (s/veh) | - | - | 33.5 | 10.5 |
| HCM Lane LOS | - | - | D | B |
| HCM 95th %tile Q(veh) | - | - | 0.5 | 0 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | 4 | 4 | | 4 | |
| Traffic Vol, veh/h | 4 | 73 | 25 | 1 | 2 | 1 |
| Future Vol, veh/h | 4 | 73 | 25 | 1 | 2 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 79 | 27 | 1 | 2 | 1 |

| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 28 | 0 | - | 0 | 116 28 |
| Stage 1 | - | - | - | - | 28 - |
| Stage 2 | - | - | - | - | 88 - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | 1585 | - | - | - | 880 1048 |
| Stage 1 | - | - | - | - | 995 - |
| Stage 2 | - | - | - | - | 935 - |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 1585 | - | - | - | 878 1048 |
| Mov Cap-2 Maneuver | - | - | - | - | 878 - |
| Stage 1 | - | - | - | - | 992 - |
| Stage 2 | - | - | - | - | 935 - |

| Approach | EB | WB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 0.38 | 0 | 8.89 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|---------------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 94 | - | - | - | 928 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.004 |
| HCM Control Delay (s/veh) | 7.3 | 0 | - | - | 8.9 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0 |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕↕ | ↗ | | ↕↕ | ↗ |
| Traffic Volume (veh/h) | 10 | 2 | 12 | 19 | 7 | 24 | 9 | 594 | 9 | 6 | 707 | 9 |
| Future Volume (veh/h) | 10 | 2 | 12 | 19 | 7 | 24 | 9 | 594 | 9 | 6 | 707 | 9 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 11 | 2 | 13 | 21 | 8 | 26 | 10 | 646 | 10 | 7 | 768 | 10 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 44 | 8 | 53 | 73 | 28 | 91 | 95 | 1252 | 576 | 92 | 1260 | 576 |
| Arrive On Green | 0.06 | 0.06 | 0.06 | 0.11 | 0.11 | 0.11 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 | 0.36 |
| Sat Flow, veh/h | 712 | 129 | 842 | 647 | 246 | 801 | 15 | 3446 | 1585 | 8 | 3467 | 1585 |
| Grp Volume(v), veh/h | 26 | 0 | 0 | 55 | 0 | 0 | 350 | 306 | 10 | 415 | 360 | 10 |
| Grp Sat Flow(s),veh/h/ln | 1683 | 0 | 0 | 1694 | 0 | 0 | 1844 | 1617 | 1585 | 1859 | 1617 | 1585 |
| Q Serve(g_s), s | 0.6 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 0.0 | 6.1 | 0.2 | 0.0 | 7.5 | 0.2 |
| Cycle Q Clear(g_c), s | 0.6 | 0.0 | 0.0 | 1.2 | 0.0 | 0.0 | 6.1 | 6.1 | 0.2 | 7.5 | 7.5 | 0.2 |
| Prop In Lane | 0.42 | | 0.50 | 0.38 | | 0.47 | 0.03 | | 1.00 | 0.02 | | 1.00 |
| Lane Grp Cap(c), veh/h | 105 | 0 | 0 | 192 | 0 | 0 | 760 | 588 | 576 | 764 | 588 | 576 |
| V/C Ratio(X) | 0.25 | 0.00 | 0.00 | 0.29 | 0.00 | 0.00 | 0.46 | 0.52 | 0.02 | 0.54 | 0.61 | 0.02 |
| Avail Cap(c_a), veh/h | 980 | 0 | 0 | 904 | 0 | 0 | 2491 | 2157 | 2114 | 2537 | 2157 | 2114 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 18.4 | 0.0 | 0.0 | 16.8 | 0.0 | 0.0 | 10.3 | 10.3 | 8.4 | 10.7 | 10.7 | 8.4 |
| Incr Delay (d2), s/veh | 1.2 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.4 | 0.7 | 0.0 | 0.6 | 1.0 | 0.0 |
| 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 | 0.2 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 1.9 | 1.7 | 0.0 | 2.4 | 2.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 19.6 | 0.0 | 0.0 | 17.6 | 0.0 | 0.0 | 10.7 | 11.0 | 8.4 | 11.3 | 11.8 | 8.4 |
| LnGrp LOS | B | | | B | | | B | B | A | B | B | A |
| Approach Vol, veh/h | 26 | | 55 | | | | 666 | | | 785 | | |
| Approach Delay, s/veh | 19.6 | | 17.6 | | | | 10.8 | | | 11.5 | | |
| Approach LOS | B | | B | | | | B | | | B | | |
| Timer - Assigned Phs | 2 | | 4 | | | | 6 | | | 8 | | |
| Phs Duration (G+Y+Rc), s | 22.0 | | 10.7 | | | | 22.0 | | | 8.6 | | |
| Change Period (Y+Rc), s | 7.0 | | 6.0 | | | | 7.0 | | | 6.0 | | |
| Max Green Setting (Gmax), s | 55.0 | | 22.0 | | | | 55.0 | | | 24.0 | | |
| Max Q Clear Time (g_c+I1), s | 8.1 | | 3.2 | | | | 9.5 | | | 2.6 | | |
| Green Ext Time (p_c), s | 4.5 | | 0.2 | | | | 5.5 | | | 0.1 | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | 11.6 | | | | | | | | | |
| HCM 7th LOS | | | B | | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Y | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 3 | 19 | 11 | 618 | 716 | 11 |
| Future Vol, veh/h | 3 | 19 | 11 | 618 | 716 | 11 |
| Conflicting Peds, #/hr | 0 | 0 | 3 | 0 | 0 | 3 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 3 | 21 | 12 | 672 | 778 | 12 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1141 | 392 | 793 | 0 | - | 0 |
| Stage 1 | 781 | - | - | - | - | - |
| Stage 2 | 360 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 194 | 607 | 824 | - | - | - |
| Stage 1 | 412 | - | - | - | - | - |
| Stage 2 | 677 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 190 | 605 | 821 | - | - | - |
| Mov Cap-2 Maneuver | 190 | - | - | - | - | - |
| Stage 1 | 403 | - | - | - | - | - |
| Stage 2 | 675 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|------|----|
| HCM Control Delay, s/v13.15 | | 0.33 | 0 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 63 | - | 466 | - | - |
| HCM Lane V/C Ratio | 0.015 | - | 0.051 | - | - |
| HCM Control Delay (s/veh) | 9.4 | 0.2 | 13.1 | - | - |
| HCM Lane LOS | A | A | B | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 11 | 35 | 589 | 0 | 30 | 718 |
| Future Vol, veh/h | 11 | 35 | 589 | 0 | 30 | 718 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 12 | 38 | 640 | 0 | 33 | 780 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1099 | 323 | 0 | 0 | 643 | 0 |
| Stage 1 | 643 | - | - | - | - | - |
| Stage 2 | 455 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 207 | 673 | - | - | 938 | - |
| Stage 1 | 485 | - | - | - | - | - |
| Stage 2 | 605 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 197 | 671 | - | - | 935 | - |
| Mov Cap-2 Maneuver | 197 | - | - | - | - | - |
| Stage 1 | 484 | - | - | - | - | - |
| Stage 2 | 578 | - | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 14.57 | 0 | 0.72 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 426 | 144 |
| HCM Lane V/C Ratio | - | - | 0.117 | 0.035 |
| HCM Control Delay (s/veh) | - | - | 14.6 | 9 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.1 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.3 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | Y | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 7 | 11 | 4 | 592 | 707 | 12 |
| Future Vol, veh/h | 7 | 11 | 4 | 592 | 707 | 12 |
| Conflicting Peds, #/hr | 0 | 0 | 4 | 0 | 0 | 4 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 12 | 4 | 643 | 768 | 13 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1103 | 388 | 786 | 0 | - | 0 |
| Stage 1 | 772 | - | - | - | - | - |
| Stage 2 | 330 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 206 | 610 | 829 | - | - | - |
| Stage 1 | 416 | - | - | - | - | - |
| Stage 2 | 700 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 203 | 608 | 826 | - | - | - |
| Mov Cap-2 Maneuver | 203 | - | - | - | - | - |
| Stage 1 | 412 | - | - | - | - | - |
| Stage 2 | 698 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|------|----|
| HCM Control Delay, s/v16.16 | | 0.12 | 0 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|-------|-----|-------|-----|-----|
| Capacity (veh/h) | 24 | - | 342 | - | - |
| HCM Lane V/C Ratio | 0.005 | - | 0.057 | - | - |
| HCM Control Delay (s/veh) | 9.4 | 0.1 | 16.2 | - | - |
| HCM Lane LOS | A | A | C | - | - |
| HCM 95th %tile Q(veh) | 0 | - | 0.2 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 14 | 35 | 551 | 22 | 18 | 722 |
| Future Vol, veh/h | 14 | 35 | 551 | 22 | 18 | 722 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 8 | 8 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 38 | 599 | 24 | 20 | 785 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1038 | 307 | 0 | 0 | 631 | 0 |
| Stage 1 | 607 | - | - | - | - | - |
| Stage 2 | 432 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 226 | 688 | - | - | 948 | - |
| Stage 1 | 507 | - | - | - | - | - |
| Stage 2 | 623 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | |
| Mov Cap-1 Maneuver | 219 | 683 | - | - | 940 | - |
| Mov Cap-2 Maneuver | 219 | - | - | - | - | - |
| Stage 1 | 503 | - | - | - | - | - |
| Stage 2 | 606 | - | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 14.68 | 0 | 0.44 |
| HCM LOS | B | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 425 | 88 |
| HCM Lane V/C Ratio | - | - | 0.125 | 0.021 |
| HCM Control Delay (s/veh) | - | - | 14.7 | 8.9 |
| HCM Lane LOS | - | - | B | A |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.1 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|-------|------|------|-------|------|
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Volume (veh/h) | 92 | 31 | 558 | 40 | 14 | 724 |
| Future Volume (veh/h) | 92 | 31 | 558 | 40 | 14 | 724 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 100 | 34 | 607 | 43 | 15 | 787 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 121 | 41 | 2906 | 1296 | 59 | 2785 |
| Arrive On Green | 0.09 | 0.09 | 0.82 | 0.82 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1280 | 435 | 3647 | 1585 | 34 | 3491 |
| Grp Volume(v), veh/h | 135 | 0 | 607 | 43 | 425 | 377 |
| Grp Sat Flow(s),veh/h/ln | 1728 | 0 | 1777 | 1585 | 1823 | 1617 |
| Q Serve(g_s), s | 9.2 | 0.0 | 4.5 | 0.6 | 0.0 | 6.6 |
| Cycle Q Clear(g_c), s | 9.2 | 0.0 | 4.5 | 0.6 | 6.4 | 6.6 |
| Prop In Lane | 0.74 | 0.25 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 164 | 0 | 2906 | 1296 | 1522 | 1322 |
| V/C Ratio(X) | 0.82 | 0.00 | 0.21 | 0.03 | 0.28 | 0.28 |
| Avail Cap(c_a), veh/h | 374 | 0 | 2906 | 1296 | 1522 | 1322 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.94 | 0.94 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 53.3 | 0.0 | 2.4 | 2.0 | 2.6 | 2.6 |
| Incr Delay (d2), s/veh | 9.9 | 0.0 | 0.2 | 0.0 | 0.5 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 4.5 | 0.0 | 1.1 | 0.1 | 1.8 | 1.7 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 63.2 | 0.0 | 2.6 | 2.1 | 3.0 | 3.1 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 135 | | 650 | | | 802 |
| Approach Delay, s/veh | 63.2 | | 2.5 | | | 3.1 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 103.6 | | | 103.6 | 16.4 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 6.5 | | | 8.6 | 11.2 |
| Green Ext Time (p_c), s | | 4.8 | | | 5.8 | 0.3 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 8.0 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|------|-------|------|------|------|-------|
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 82 | 57 | 73 | 517 | 720 | 100 |
| Future Volume (veh/h) | 82 | 57 | 73 | 517 | 720 | 100 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 89 | 62 | 79 | 562 | 783 | 109 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 106 | 74 | 292 | 2049 | 2863 | 1277 |
| Arrive On Green | 0.11 | 0.11 | 0.81 | 0.81 | 1.00 | 1.00 |
| Sat Flow, veh/h | 993 | 692 | 315 | 2628 | 3647 | 1585 |
| Grp Volume(v), veh/h | 152 | 0 | 286 | 355 | 783 | 109 |
| Grp Sat Flow(s),veh/h/ln | 1696 | 0 | 1241 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 10.6 | 0.0 | 0.0 | 6.6 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 10.6 | 0.0 | 4.2 | 6.6 | 0.0 | 0.0 |
| Prop In Lane | 0.59 | 0.41 | 0.28 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 181 | 0 | 1038 | 1303 | 2863 | 1277 |
| V/C Ratio(X) | 0.84 | 0.00 | 0.28 | 0.27 | 0.27 | 0.09 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1038 | 1303 | 2863 | 1277 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.33 | 1.33 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.95 | 0.95 |
| Uniform Delay (d), s/veh | 52.6 | 0.0 | 2.7 | 2.9 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 9.9 | 0.0 | 0.7 | 0.5 | 0.2 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 5.0 | 0.0 | 1.3 | 1.7 | 0.1 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 62.5 | 0.0 | 3.3 | 3.4 | 0.2 | 0.1 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 152 | | | 641 | 892 | |
| Approach Delay, s/veh | 62.5 | | | 3.4 | 0.2 | |
| Approach LOS | E | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 102.2 | | 17.8 | | 102.2 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 8.6 | | 12.6 | | 2.0 |
| Green Ext Time (p_c), s | | 5.1 | | 0.3 | | 6.9 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 7.0 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th TWSC
8: Driveway 1 & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|----------|------|------|----------|----------|------|
| Int Delay, s/veh | 0.8 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | T | | | T | T | |
| Traffic Vol, veh/h | 15 | 15 | 2 | 42 | 4 | 2 |
| Future Vol, veh/h | 15 | 15 | 2 | 42 | 4 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 16 | 16 | 2 | 46 | 4 | 2 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 0 | 0 | 33 | 0 | 74 |
| Stage 1 | - | - | - | - | 24 |
| Stage 2 | - | - | - | - | 50 |
| Critical Hdwy | - | - | 4.12 | - | 6.42 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 |
| Pot Cap-1 Maneuver | - | - | 1579 | - | 929 |
| Stage 1 | - | - | - | - | 998 |
| Stage 2 | - | - | - | - | 972 |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1579 | - | 928 |
| Mov Cap-2 Maneuver | - | - | - | - | 928 |
| Stage 1 | - | - | - | - | 998 |
| Stage 2 | - | - | - | - | 971 |

| Approach | EB | WB | NB |
|------------------------|----|------|------|
| HCM Control Delay, s/v | 0 | 0.33 | 8.75 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 966 | - | - | 82 | - |
| HCM Lane V/C Ratio | 0.007 | - | - | 0.001 | - |
| HCM Control Delay (s/veh) | 8.8 | - | - | 7.3 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

HCM 7th TWSC
9: Inglewood Ave & Driveway 2

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | T | | | T |
| Traffic Vol, veh/h | 14 | 16 | 580 | 9 | 9 | 698 |
| Future Vol, veh/h | 14 | 16 | 580 | 9 | 9 | 698 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 15 | 17 | 630 | 10 | 10 | 759 |

| Major/Minor | Minor1 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|------|---|
| Conflicting Flow All | 1034 | 320 | 0 | 0 | 640 | 0 |
| Stage 1 | 635 | - | - | - | - | - |
| Stage 2 | 399 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 | - |
| Pot Cap-1 Maneuver | 228 | 676 | - | - | 940 | - |
| Stage 1 | 490 | - | - | - | - | - |
| Stage 2 | 647 | - | - | - | - | - |
| Platoon blocked, % | | | - | - | | - |
| Mov Cap-1 Maneuver | 225 | 676 | - | - | 940 | - |
| Mov Cap-2 Maneuver | 225 | - | - | - | - | - |
| Stage 1 | 490 | - | - | - | - | - |
| Stage 2 | 638 | - | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 16.38 | 0 | 0.23 |
| HCM LOS | C | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|------|
| Capacity (veh/h) | - | - | 349 | 46 |
| HCM Lane V/C Ratio | - | - | 0.093 | 0.01 |
| HCM Control Delay (s/veh) | - | - | 16.4 | 8.9 |
| HCM Lane LOS | - | - | C | A |
| HCM 95th %tile Q(veh) | - | - | 0.3 | 0 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | 4 | 1 | | Y | |
| Traffic Vol, veh/h | 6 | 34 | 47 | 2 | 3 | 2 |
| Future Vol, veh/h | 6 | 34 | 47 | 2 | 3 | 2 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 37 | 51 | 2 | 3 | 2 |

| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 53 | 0 | - | 0 | 102 |
| Stage 1 | - | - | - | - | 52 |
| Stage 2 | - | - | - | - | 50 |
| Critical Hdwy | 4.12 | - | - | - | 6.42 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 |
| Pot Cap-1 Maneuver | 1552 | - | - | - | 896 |
| Stage 1 | - | - | - | - | 970 |
| Stage 2 | - | - | - | - | 972 |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 1552 | - | - | - | 892 |
| Mov Cap-2 Maneuver | - | - | - | - | 892 |
| Stage 1 | - | - | - | - | 966 |
| Stage 2 | - | - | - | - | 972 |

| Approach | EB | WB | SB |
|------------------------|-----|----|------|
| HCM Control Delay, s/v | 1.1 | 0 | 8.86 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|---------------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 270 | - | - | - | 938 |
| HCM Lane V/C Ratio | 0.004 | - | - | - | 0.006 |
| HCM Control Delay (s/veh) | 7.3 | 0 | - | - | 8.9 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0 |

HCM 7th Signalized Intersection Summary

1: Inglewood Ave & 132nd St

08/16/2024



| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↕ | | | ↕ | | | ↕↕ | ↗ | | ↕↕ | ↗ |
| Traffic Volume (veh/h) | 19 | 4 | 26 | 30 | 7 | 22 | 10 | 953 | 39 | 25 | 1272 | 18 |
| Future Volume (veh/h) | 19 | 4 | 26 | 30 | 7 | 22 | 10 | 953 | 39 | 25 | 1272 | 18 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width 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 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 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 | 21 | 4 | 28 | 33 | 8 | 24 | 11 | 1036 | 42 | 27 | 1383 | 20 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 61 | 12 | 82 | 89 | 22 | 65 | 58 | 1832 | 845 | 69 | 1802 | 845 |
| Arrive On Green | 0.09 | 0.09 | 0.09 | 0.10 | 0.10 | 0.10 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 |
| Sat Flow, veh/h | 665 | 127 | 886 | 870 | 211 | 633 | 11 | 3436 | 1585 | 30 | 3381 | 1585 |
| Grp Volume(v), veh/h | 53 | 0 | 0 | 65 | 0 | 0 | 556 | 491 | 42 | 745 | 665 | 20 |
| Grp Sat Flow(s),veh/h/ln | 1678 | 0 | 0 | 1713 | 0 | 0 | 1830 | 1617 | 1585 | 1794 | 1617 | 1585 |
| Q Serve(g_s), s | 2.1 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 14.2 | 0.9 | 2.6 | 22.7 | 0.4 |
| Cycle Q Clear(g_c), s | 2.1 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 13.8 | 14.2 | 0.9 | 22.0 | 22.7 | 0.4 |
| Prop In Lane | 0.40 | | 0.53 | 0.51 | | 0.37 | 0.02 | | 1.00 | 0.04 | | 1.00 |
| Lane Grp Cap(c), veh/h | 154 | 0 | 0 | 176 | 0 | 0 | 1028 | 862 | 845 | 1010 | 862 | 845 |
| V/C Ratio(X) | 0.34 | 0.00 | 0.00 | 0.37 | 0.00 | 0.00 | 0.54 | 0.57 | 0.05 | 0.74 | 0.77 | 0.02 |
| Avail Cap(c_a), veh/h | 577 | 0 | 0 | 540 | 0 | 0 | 1471 | 1274 | 1249 | 1446 | 1274 | 1249 |
| 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 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 29.7 | 0.0 | 0.0 | 29.2 | 0.0 | 0.0 | 10.8 | 10.9 | 7.8 | 12.7 | 12.9 | 7.7 |
| Incr Delay (d2), s/veh | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.4 | 0.6 | 0.0 | 1.2 | 1.7 | 0.0 |
| 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 | 0.0 | 1.1 | 0.0 | 0.0 | 4.8 | 4.3 | 0.3 | 7.7 | 7.1 | 0.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 31.0 | 0.0 | 0.0 | 30.5 | 0.0 | 0.0 | 11.3 | 11.5 | 7.8 | 13.9 | 14.6 | 7.7 |
| LnGrp LOS | C | | | C | | | B | B | A | B | B | A |
| Approach Vol, veh/h | | 53 | | | 65 | | | 1089 | | | 1430 | |
| Approach Delay, s/veh | | 31.0 | | | 30.5 | | | 11.2 | | | 14.1 | |
| Approach LOS | | C | | | C | | | B | | | B | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 | | 8 | | | | |
| Phs Duration (G+Y+Rc), s | | 44.2 | | 13.2 | | 44.2 | | 12.4 | | | | |
| Change Period (Y+Rc), s | | 7.0 | | 6.0 | | 7.0 | | 6.0 | | | | |
| Max Green Setting (Gmax), s | | 55.0 | | 22.0 | | 55.0 | | 24.0 | | | | |
| Max Q Clear Time (g_c+I1), s | | 16.2 | | 4.5 | | 24.7 | | 4.1 | | | | |
| Green Ext Time (p_c), s | | 8.5 | | 0.2 | | 12.5 | | 0.2 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 7th Control Delay, s/veh | | | | 13.7 | | | | | | | | |
| HCM 7th LOS | | | | B | | | | | | | | |

HCM 7th TWSC
2: Inglewood Ave & 133rd Street

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.1 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 12 | 30 | 13 | 1003 | 1286 | 19 |
| Future Vol, veh/h | 12 | 30 | 13 | 1003 | 1286 | 19 |
| Conflicting Peds, #/hr | 0 | 0 | 9 | 0 | 0 | 9 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 33 | 14 | 1090 | 1398 | 21 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1980 | 708 | 1427 | 0 | - | 0 |
| Stage 1 | 1407 | - | - | - | - | - |
| Stage 2 | 573 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 54 | 377 | 472 | - | - | - |
| Stage 1 | 192 | - | - | - | - | - |
| Stage 2 | 527 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 51 | 374 | 468 | - | - | - |
| Mov Cap-2 Maneuver | 51 | - | - | - | - | - |
| Stage 1 | 182 | - | - | - | - | - |
| Stage 2 | 523 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|-----|----|
| HCM Control Delay, s/v45.94 | | 0.7 | 0 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|------|-----|-------|-----|-----|
| Capacity (veh/h) | 46 | - | 132 | - | - |
| HCM Lane V/C Ratio | 0.03 | - | 0.345 | - | - |
| HCM Control Delay (s/veh) | 12.9 | 0.5 | 45.9 | - | - |
| HCM Lane LOS | B | A | E | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 1.4 | - | - |

HCM 7th TWSC
3: Inglewood Ave & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.6 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 12 | 28 | 982 | 23 | 44 | 1301 |
| Future Vol, veh/h | 12 | 28 | 982 | 23 | 44 | 1301 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 13 | 30 | 1067 | 25 | 48 | 1414 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1870 | 534 | 0 | 0 | 1092 |
| Stage 1 | 1067 | - | - | - | - |
| Stage 2 | 803 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 64 | 491 | - | - | 635 |
| Stage 1 | 292 | - | - | - | - |
| Stage 2 | 401 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 56 | 491 | - | - | 635 |
| Mov Cap-2 Maneuver | 56 | - | - | - | - |
| Stage 1 | 292 | - | - | - | - |
| Stage 2 | 352 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 39.41 | 0 | 1.62 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 147 | 118 |
| HCM Lane V/C Ratio | - | - | 0.295 | 0.075 |
| HCM Control Delay (s/veh) | - | - | 39.4 | 11.1 |
| HCM Lane LOS | - | - | E | B |
| HCM 95th %tile Q(veh) | - | - | 1.2 | 0.2 |

HCM 7th TWSC
4: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.7 | | | | | |
| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Vol, veh/h | 6 | 19 | 13 | 1001 | 1266 | 21 |
| Future Vol, veh/h | 6 | 19 | 13 | 1001 | 1266 | 21 |
| Conflicting Peds, #/hr | 0 | 0 | 14 | 0 | 0 | 14 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | 25 |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 7 | 21 | 14 | 1088 | 1376 | 23 |

| Major/Minor | Minor2 | Major1 | Major2 | | | |
|----------------------|--------|--------|--------|---|---|---|
| Conflicting Flow All | 1962 | 702 | 1413 | 0 | - | 0 |
| Stage 1 | 1390 | - | - | - | - | - |
| Stage 2 | 572 | - | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | 4.14 | - | - | - |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | 2.22 | - | - | - |
| Pot Cap-1 Maneuver | 55 | 381 | 478 | - | - | - |
| Stage 1 | 196 | - | - | - | - | - |
| Stage 2 | 528 | - | - | - | - | - |
| Platoon blocked, % | | | | - | - | - |
| Mov Cap-1 Maneuver | 51 | 375 | 472 | - | - | - |
| Mov Cap-2 Maneuver | 51 | - | - | - | - | - |
| Stage 1 | 185 | - | - | - | - | - |
| Stage 2 | 521 | - | - | - | - | - |

| Approach | EB | NB | SB |
|-----------------------------|----|-----|----|
| HCM Control Delay, s/v34.33 | | 0.7 | 0 |
| HCM LOS | D | | |

| Minor Lane/Major Mvmt | NBL | NBT | EBLn1 | SBT | SBR |
|---------------------------|------|-----|-------|-----|-----|
| Capacity (veh/h) | 46 | - | 150 | - | - |
| HCM Lane V/C Ratio | 0.03 | - | 0.182 | - | - |
| HCM Control Delay (s/veh) | 12.9 | 0.5 | 34.3 | - | - |
| HCM Lane LOS | B | A | D | - | - |
| HCM 95th %tile Q(veh) | 0.1 | - | 0.6 | - | - |

HCM 7th TWSC
5: Inglewood Ave & 134th St

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 1.3 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Vol, veh/h | 9 | 19 | 978 | 40 | 39 | 1285 |
| Future Vol, veh/h | 9 | 19 | 978 | 40 | 39 | 1285 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 7 | 7 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | 25 | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 21 | 1063 | 43 | 42 | 1397 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1853 | 539 | 0 | 0 | 1114 |
| Stage 1 | 1070 | - | - | - | - |
| Stage 2 | 783 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 65 | 487 | - | - | 623 |
| Stage 1 | 291 | - | - | - | - |
| Stage 2 | 411 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 58 | 484 | - | - | 619 |
| Mov Cap-2 Maneuver | 58 | - | - | - | - |
| Stage 1 | 289 | - | - | - | - |
| Stage 2 | 365 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 36.7 | 0 | 1.48 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|-------|
| Capacity (veh/h) | - | - | 144 | 106 |
| HCM Lane V/C Ratio | - | - | 0.212 | 0.069 |
| HCM Control Delay (s/veh) | - | - | 36.7 | 11.2 |
| HCM Lane LOS | - | - | E | B |
| HCM 95th %tile Q(veh) | - | - | 0.8 | 0.2 |

HCM 7th Signalized Intersection Summary

6: Inglewood Ave & 135th St

08/16/2024



| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|------------------------------|------|-------|------|------|-------|------|
| Lane Configurations | W | | ↑↑ | ↑ | | ↑↑ |
| Traffic Volume (veh/h) | 57 | 27 | 1034 | 149 | 25 | 1263 |
| Future Volume (veh/h) | 57 | 27 | 1034 | 149 | 25 | 1263 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | | 1.00 | 1.00 | |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 62 | 29 | 1124 | 162 | 27 | 1373 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 78 | 37 | 3002 | 1339 | 61 | 2815 |
| Arrive On Green | 0.07 | 0.07 | 1.00 | 1.00 | 0.84 | 0.84 |
| Sat Flow, veh/h | 1156 | 541 | 3647 | 1585 | 35 | 3418 |
| Grp Volume(v), veh/h | 92 | 0 | 1124 | 162 | 732 | 668 |
| Grp Sat Flow(s),veh/h/ln | 1715 | 0 | 1777 | 1585 | 1751 | 1617 |
| Q Serve(g_s), s | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 13.1 |
| Cycle Q Clear(g_c), s | 6.3 | 0.0 | 0.0 | 0.0 | 12.0 | 13.1 |
| Prop In Lane | 0.67 | 0.32 | | 1.00 | 0.04 | |
| Lane Grp Cap(c), veh/h | 116 | 0 | 3002 | 1339 | 1510 | 1366 |
| V/C Ratio(X) | 0.79 | 0.00 | 0.37 | 0.12 | 0.48 | 0.49 |
| Avail Cap(c_a), veh/h | 372 | 0 | 3002 | 1339 | 1510 | 1366 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.33 | 1.33 | 1.00 | 1.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 0.69 | 0.69 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 55.1 | 0.0 | 0.0 | 0.0 | 2.4 | 2.5 |
| Incr Delay (d2), s/veh | 11.3 | 0.0 | 0.2 | 0.1 | 1.1 | 1.3 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 3.1 | 0.0 | 0.1 | 0.0 | 3.0 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 66.4 | 0.0 | 0.2 | 0.1 | 3.5 | 3.7 |
| LnGrp LOS | E | | A | A | A | A |
| Approach Vol, veh/h | 92 | | 1286 | | | 1400 |
| Approach Delay, s/veh | 66.4 | | 0.2 | | | 3.6 |
| Approach LOS | E | | A | | | A |
| Timer - Assigned Phs | | 2 | | | 6 | 8 |
| Phs Duration (G+Y+Rc), s | | 106.9 | | | 106.9 | 13.1 |
| Change Period (Y+Rc), s | | 5.5 | | | 5.5 | 5.0 |
| Max Green Setting (Gmax), s | | 83.5 | | | 83.5 | 26.0 |
| Max Q Clear Time (g_c+I1), s | | 2.0 | | | 15.1 | 8.3 |
| Green Ext Time (p_c), s | | 12.0 | | | 15.1 | 0.2 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 4.1 | | | |
| HCM 7th LOS | | | A | | | |

HCM 7th Signalized Intersection Summary

7: Inglewood Ave & 135th St

08/16/2024



| Movement | EBL | EBR | NBL | NBT | SBT | SBR |
|------------------------------|-------|------|------|------|------|------|
| Lane Configurations | W | | | ↑↑ | ↑↑ | ↑ |
| Traffic Volume (veh/h) | 239 | 162 | 25 | 920 | 1293 | 55 |
| Future Volume (veh/h) | 239 | 162 | 25 | 920 | 1293 | 55 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 |
| Lane Width Adj. | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Ped-Bike Adj(A_pbT) | 1.00 | 1.00 | 1.00 | | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 260 | 176 | 27 | 1000 | 1405 | 60 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 219 | 148 | 65 | 2252 | 2473 | 1103 |
| Arrive On Green | 0.22 | 0.22 | 0.70 | 0.70 | 1.00 | 1.00 |
| Sat Flow, veh/h | 1010 | 683 | 48 | 3322 | 3647 | 1585 |
| Grp Volume(v), veh/h | 437 | 0 | 522 | 505 | 1405 | 60 |
| Grp Sat Flow(s),veh/h/ln | 1697 | 0 | 1668 | 1617 | 1777 | 1585 |
| Q Serve(g_s), s | 26.0 | 0.0 | 0.0 | 16.6 | 0.0 | 0.0 |
| Cycle Q Clear(g_c), s | 26.0 | 0.0 | 14.1 | 16.6 | 0.0 | 0.0 |
| Prop In Lane | 0.59 | 0.40 | 0.05 | | | 1.00 |
| Lane Grp Cap(c), veh/h | 368 | 0 | 1193 | 1125 | 2473 | 1103 |
| V/C Ratio(X) | 1.19 | 0.00 | 0.44 | 0.45 | 0.57 | 0.05 |
| Avail Cap(c_a), veh/h | 368 | 0 | 1193 | 1125 | 2473 | 1103 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 |
| Upstream Filter(I) | 1.00 | 0.00 | 1.00 | 1.00 | 0.83 | 0.83 |
| Uniform Delay (d), s/veh | 47.0 | 0.0 | 7.7 | 8.1 | 0.0 | 0.0 |
| Incr Delay (d2), s/veh | 108.9 | 0.0 | 1.2 | 1.3 | 0.8 | 0.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%),veh/ln | 12.1 | 0.0 | 5.5 | 5.6 | 0.3 | 0.0 |
| Unsig. Movement Delay, s/veh | | | | | | |
| LnGrp Delay(d), s/veh | 155.9 | 0.0 | 8.9 | 9.4 | 0.8 | 0.1 |
| LnGrp LOS | F | | A | A | A | A |
| Approach Vol, veh/h | 437 | | | 1027 | 1465 | |
| Approach Delay, s/veh | 155.9 | | | 9.1 | 0.8 | |
| Approach LOS | F | | | A | A | |
| Timer - Assigned Phs | | 2 | | 4 | | 6 |
| Phs Duration (G+Y+Rc), s | | 89.0 | | 31.0 | | 89.0 |
| Change Period (Y+Rc), s | | 5.5 | | 5.0 | | 5.5 |
| Max Green Setting (Gmax), s | | 83.5 | | 26.0 | | 83.5 |
| Max Q Clear Time (g_c+I1), s | | 18.6 | | 28.0 | | 2.0 |
| Green Ext Time (p_c), s | | 9.0 | | 0.0 | | 16.9 |
| Intersection Summary | | | | | | |
| HCM 7th Control Delay, s/veh | | | 26.8 | | | |
| HCM 7th LOS | | | C | | | |

HCM 7th TWSC
8: Driveway 1 & 133rd St

08/16/2024

| Intersection | | | | | | |
|--------------------------|----------|------|------|----------|----------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBT | EBR | WBL | WBT | NBL | NBR |
| Lane Configurations | T | | | T | T | |
| Traffic Vol, veh/h | 57 | 10 | 2 | 37 | 3 | 1 |
| Future Vol, veh/h | 57 | 10 | 2 | 37 | 3 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | 0 | - | - | 0 | 0 | - |
| Grade, % | 0 | - | - | 0 | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 62 | 11 | 2 | 40 | 3 | 1 |

| Major/Minor | Major1 | Major2 | Minor1 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 0 | 0 | 73 | 0 | 112 67 |
| Stage 1 | - | - | - | - | 67 - |
| Stage 2 | - | - | - | - | 45 - |
| Critical Hdwy | - | - | 4.12 | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | - | - | 2.218 | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | - | - | 1527 | - | 885 996 |
| Stage 1 | - | - | - | - | 955 - |
| Stage 2 | - | - | - | - | 978 - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | - | - | 1527 | - | 883 996 |
| Mov Cap-2 Maneuver | - | - | - | - | 883 - |
| Stage 1 | - | - | - | - | 955 - |
| Stage 2 | - | - | - | - | 976 - |

| Approach | EB | WB | NB |
|------------------------|----|------|------|
| HCM Control Delay, s/v | 0 | 0.38 | 8.98 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | NBLn1 | EBT | EBR | WBL | WBT |
|---------------------------|-------|-----|-----|-------|-----|
| Capacity (veh/h) | 909 | - | - | 92 | - |
| HCM Lane V/C Ratio | 0.005 | - | - | 0.001 | - |
| HCM Control Delay (s/veh) | 9 | - | - | 7.4 | 0 |
| HCM Lane LOS | A | - | - | A | A |
| HCM 95th %tile Q(veh) | 0 | - | - | 0 | - |

HCM 7th TWSC
 9: Inglewood Ave & Driveway 2

08/16/2024

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.4 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | | T | | | T |
| Traffic Vol, veh/h | 9 | 11 | 1003 | 6 | 6 | 1260 |
| Future Vol, veh/h | 9 | 11 | 1003 | 6 | 6 | 1260 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | - | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 10 | 12 | 1090 | 7 | 7 | 1370 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|------|
| Conflicting Flow All | 1791 | 548 | 0 | 0 | 1097 |
| Stage 1 | 1093 | - | - | - | - |
| Stage 2 | 698 | - | - | - | - |
| Critical Hdwy | 6.84 | 6.94 | - | - | 4.14 |
| Critical Hdwy Stg 1 | 5.84 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.84 | - | - | - | - |
| Follow-up Hdwy | 3.52 | 3.32 | - | - | 2.22 |
| Pot Cap-1 Maneuver | 72 | 480 | - | - | 632 |
| Stage 1 | 283 | - | - | - | - |
| Stage 2 | 455 | - | - | - | - |
| Platoon blocked, % | | | - | - | - |
| Mov Cap-1 Maneuver | 71 | 480 | - | - | 632 |
| Mov Cap-2 Maneuver | 71 | - | - | - | - |
| Stage 1 | 283 | - | - | - | - |
| Stage 2 | 447 | - | - | - | - |

| Approach | WB | NB | SB |
|------------------------|-------|----|------|
| HCM Control Delay, s/v | 37.16 | 0 | 0.23 |
| HCM LOS | E | | |

| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
|---------------------------|-----|----------|-------|------|
| Capacity (veh/h) | - | - | 133 | 17 |
| HCM Lane V/C Ratio | - | - | 0.163 | 0.01 |
| HCM Control Delay (s/veh) | - | - | 37.2 | 10.8 |
| HCM Lane LOS | - | - | E | B |
| HCM 95th %tile Q(veh) | - | - | 0.6 | 0 |

| Intersection | | | | | | |
|--------------------------|------|------|------|------|------|------|
| Int Delay, s/veh | 0.5 | | | | | |
| Movement | EBL | EBT | WBT | WBR | SBL | SBR |
| Lane Configurations | | 4 | 4 | | 4 | |
| Traffic Vol, veh/h | 4 | 75 | 27 | 1 | 2 | 1 |
| Future Vol, veh/h | 4 | 75 | 27 | 1 | 2 | 1 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 0 | 0 | 0 |
| Sign Control | Free | Free | Free | Free | Stop | Stop |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | - | - | - | - | 0 | - |
| Veh in Median Storage, # | - | 0 | 0 | - | 0 | - |
| Grade, % | - | 0 | 0 | - | 0 | - |
| Peak Hour Factor | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 2 | 2 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 4 | 82 | 29 | 1 | 2 | 1 |

| Major/Minor | Major1 | Major2 | Minor2 | | |
|----------------------|--------|--------|--------|---|-------------|
| Conflicting Flow All | 30 | 0 | - | 0 | 120 30 |
| Stage 1 | - | - | - | - | 30 - |
| Stage 2 | - | - | - | - | 90 - |
| Critical Hdwy | 4.12 | - | - | - | 6.42 6.22 |
| Critical Hdwy Stg 1 | - | - | - | - | 5.42 - |
| Critical Hdwy Stg 2 | - | - | - | - | 5.42 - |
| Follow-up Hdwy | 2.218 | - | - | - | 3.518 3.318 |
| Pot Cap-1 Maneuver | 1582 | - | - | - | 875 1045 |
| Stage 1 | - | - | - | - | 993 - |
| Stage 2 | - | - | - | - | 933 - |
| Platoon blocked, % | | - | - | - | |
| Mov Cap-1 Maneuver | 1582 | - | - | - | 873 1045 |
| Mov Cap-2 Maneuver | - | - | - | - | 873 - |
| Stage 1 | - | - | - | - | 990 - |
| Stage 2 | - | - | - | - | 933 - |

| Approach | EB | WB | SB |
|------------------------|------|----|------|
| HCM Control Delay, s/v | 0.37 | 0 | 8.91 |
| HCM LOS | | | A |

| Minor Lane/Major Mvmt | EBL | EBT | WBT | WBR | SBLn1 |
|---------------------------|-------|-----|-----|-----|-------|
| Capacity (veh/h) | 91 | - | - | - | 924 |
| HCM Lane V/C Ratio | 0.003 | - | - | - | 0.004 |
| HCM Control Delay (s/veh) | 7.3 | 0 | - | - | 8.9 |
| HCM Lane LOS | A | A | - | - | A |
| HCM 95th %tile Q(veh) | 0 | - | - | - | 0 |

Appendix D – Cumulative Projects List

| No. | ITE # | Project Name | Address | Unit | Qty | Daily | AM Peak Hour | | | PM Peak Hour | | |
|-----|-------|--------------|---|------|-----|-------|--------------|------|-------|--------------|------|-------|
| | | | | | | | IN | OUT | TOTAL | IN | OUT | TOTAL |
| 1 | 210 | Detached ADU | 5170 W 131st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 2 | 210 | Detached ADU | 5107 W 129th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 3 | 210 | Detached ADU | 5328 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 4 | 210 | Detached ADU | 4840 W 133rd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 5 | 210 | Detached ADU | 4833 W 134th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 6 | 210 | Detached ADU | 4829 W 134th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 7 | 210 | Detached ADU | 5100 W 139th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 8 | 210 | Detached ADU | 5013 W 132nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 9 | 210 | Detached ADU | 4829 W 137th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 10 | 210 | Detached ADU | 4881 W 139th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 11 | 210 | Detached ADU | 5522 W 119th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 12 | 210 | Detached ADU | 5521 W 119th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 13 | 210 | Detached ADU | 5519 W 120th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 14 | 210 | Detached ADU | 5506 W 117th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 15 | 210 | Detached ADU | 5322 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 16 | 210 | Detached ADU | 5501 W 119th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 17 | 210 | Detached ADU | 5152 W 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 18 | 210 | Detached ADU | 13511 S Shoup Avenue, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 19 | 210 | Detached ADU | 5445 W 117th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 20 | 210 | Detached ADU | 5403 W 119th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 21 | 210 | Detached ADU | 5448 W 118th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 22 | 210 | Detached ADU | 4823 141st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 23 | 210 | Detached ADU | 5361 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 24 | 210 | Detached ADU | 4871 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 25 | 210 | Detached ADU | 5173 W 133rd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 26 | 210 | Detached ADU | 5318 W 119th Place, Inglewood CA 90304 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 27 | 210 | Detached ADU | 5156 W 134th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 28 | 210 | Detached ADU | 5443 W 120th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 29 | 210 | Detached ADU | 4817 W 134th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 30 | 210 | Detached ADU | 5036 W 123rd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 31 | 210 | Detached ADU | 5027 W 135th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 32 | 210 | Detached ADU | 5011 W 122nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 33 | 210 | Detached ADU | 4869 W 142nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 34 | 210 | Detached ADU | 13518 Ocean Gate Avenue, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |

| | | | | | | | | | | | | |
|----|-----|--------------|--|----|---|---|------|------|-----|------|------|------|
| 35 | 210 | Detached ADU | 5501 W 118th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 36 | 210 | Detached ADU | 5425 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 37 | 210 | Detached ADU | 5319 W 123rd Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 38 | 210 | Detached ADU | 4929 W 129th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 39 | 210 | Detached ADU | 5322 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 40 | 210 | Detached ADU | 5401 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 41 | 210 | Detached ADU | 5007 W 131st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 42 | 210 | Detached ADU | 5118 W 124th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 43 | 210 | Detached ADU | 5508 W 118th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 44 | 210 | Detached ADU | 4847 W 137th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 45 | 210 | Detached ADU | 5017 W 122nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 46 | 210 | Detached ADU | 5455 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 47 | 210 | Detached ADU | 5001 W 138th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 48 | 210 | Detached ADU | 5103 Stacy Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 49 | 210 | Detached ADU | 4812 W 138th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 50 | 210 | Detached ADU | 4818 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 51 | 210 | Detached ADU | 4875 W 138th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 52 | 210 | Detached ADU | 5026 W 141st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 53 | 210 | Detached ADU | 12108 S La Cienega Boulevard, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 54 | 210 | Detached ADU | 5106 W 131st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 55 | 210 | Detached ADU | 4864 W 134th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 56 | 210 | Detached ADU | 4871 W 137th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 57 | 210 | Detached ADU | 13100 S Shoup Avenue, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 58 | 210 | Detached ADU | 4852 131st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 59 | 210 | Detached ADU | 5506 W 123rd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 60 | 210 | Detached ADU | 5319 W 122nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 61 | 210 | Detached ADU | 14127 S Shoup Avenue, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 62 | 210 | Detached ADU | 5158 W 141st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 63 | 210 | Detached ADU | 4817 W 134th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 64 | 210 | Detached ADU | 13811 S Inglewood Avenue, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 65 | 210 | Detached ADU | 5354 W 118th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 66 | 210 | Detached ADU | 5103 W 137th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 67 | 210 | Detached ADU | 5135 W 138th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 68 | 210 | Detached ADU | 5424 W 120th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 69 | 210 | Detached ADU | 5164 W 139th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 70 | 210 | Detached ADU | 5501 W 119th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |

| | | | | | | | | | | | | |
|-----|-----|--------------|--|----|---|---|------|------|------|------|------|------|
| 71 | 210 | Detached ADU | 5345 W 118th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 72 | 210 | Detached ADU | 5017 W 123rd Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 73 | 210 | Detached ADU | 5239 W 120th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 74 | 210 | Detached ADU | 5028 W 135th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 75 | 210 | Detached ADU | 5407 W 117th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 76 | 210 | Detached ADU | 4828 W 134th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 77 | 210 | Detached ADU | 14107 Ocean Gate Avenue, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 78 | 210 | Detached ADU | 5526 W 118th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 79 | 210 | Detached ADU | 4907 W 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 80 | 210 | Detached ADU | 5034 W 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 81 | 210 | Detached ADU | 5106 W 136th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 82 | 210 | Detached ADU | 4916 W 137th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 83 | 210 | Detached ADU | 4928 W 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 84 | 210 | Detached ADU | 5012 W 137th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 85 | 210 | Detached ADU | 5045 W 126th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 86 | 210 | Detached ADU | 4848 W 135th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 87 | 210 | Detached ADU | 4844 W 132nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 88 | 215 | Attached ADU | 5540 W 124th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 89 | 210 | Detached ADU | 5102 W 123rd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 90 | 210 | Detached ADU | 4847 W 139th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 91 | 210 | Detached ADU | 5245 Pacific Concourse Drive, Los Angeles CA 90045 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 92 | 210 | Detached ADU | 5315 W 126th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 93 | 210 | Detached ADU | 5037 W 124th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 94 | 210 | Detached ADU | 5408 W 118th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 95 | 210 | Detached ADU | 4939 W 138th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 96 | 210 | Detached ADU | 4914 W 132nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 97 | 215 | Attached ADU | 5256 W 123rd Place, Hawthorne CA 90250 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 98 | 215 | Attached ADU | 5247 W 124th Place, Hawthorne CA 90250 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 99 | 210 | Detached ADU | 5445 W 117th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 100 | 210 | Detached ADU | 4819 W 137th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 101 | 210 | Detached ADU | 5342 W 126th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 102 | 210 | Detached ADU | 5230 Pacific Concourse Drive, Los Angeles CA 90045 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 103 | 210 | Detached ADU | 11819 Judah Avenue, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 104 | 210 | Detached ADU | 5133 W 131st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 105 | 210 | Detached ADU | 5447 W 123rd Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |

| | | | | | | | | | | | | |
|--------------|---------|---------------------------|--|----|---|--------------|-----------|-----------|-----------|-----------|-----------|------------|
| 106 | 210+215 | Attached and Detached ADU | 5313 W 120th Street, Inglewood CA 90304 | DU | 1 | 17 | 0.33 | 0.85 | 1.18 | 0.92 | 0.59 | 1.51 |
| 107 | 210 | Detached ADU | 4902 W 132nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 108 | 210+215 | Attached and Detached ADU | 14113 S Shoup Avenue, Hawthorne CA 90250 | DU | 1 | 17 | 0.33 | 0.85 | 1.18 | 0.92 | 0.59 | 1.51 |
| 109 | 210 | Detached ADU | 4841 W 137th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 110 | 210 | Detached ADU | 5523 W 119th Place, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 111 | 210 | Detached ADU | 4943 W 141st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 112 | 210 | Detached ADU | 5457 W 117th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 113 | 215 | Detached ADU | 5131 W 140th Street, Hawthorne CA 90250 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 114 | 210 | Detached ADU | 5179 W 137th Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 115 | 215 | Detached ADU | 4871 W 137th Street, Hawthorne CA 90250 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 116 | 210 | Detached ADU | 4864 129th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 117 | 210 | Detached ADU | 5443 W 120th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 118 | 210 | Detached ADU | 5257 W 123rd Place, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 119 | 215 | Attached ADU | 4881 W 134th Street, Hawthorne CA 90250 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 120 | 210 | Detached ADU | 4861 W 134th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 121 | 210 | Detached ADU | 4841 W 134th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 122 | 210 | Detached ADU | 5442 W 119th Street, Inglewood CA 90304 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 123 | 210 | Detached ADU | 4918 W 141st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 124 | 215 | Attached ADU | 4877 W 134th Street, Hawthorne CA 90250 | DU | 1 | 7 | 0.15 | 0.33 | 0.48 | 0.33 | 0.25 | 0.57 |
| 125 | 210 | Detached ADU | 5146 W 132nd Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 126 | 210 | Detached ADU | 5123 W 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 127 | 210 | Detached ADU | 4903 W 141st Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 128 | 210 | Detached ADU | 5002 W 129th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 129 | 210 | Detached ADU | 4906 W 130th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 130 | 210 | Detached ADU | 5030 W 140th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| 131 | 210 | Detached ADU | 5156 W 134th Street, Hawthorne CA 90250 | DU | 1 | 9 | 0.18 | 0.52 | 0.7 | 0.59 | 0.35 | 0.94 |
| Total | | | | | | 1,234 | 24 | 67 | 91 | 76 | 45 | 122 |

Appendix E – VMT Calculator

PROJECT NAME McDonalds
LOCATION Hawthorne
ANALYSIS YEAR 2024

Project Land Uses & Intensities

| ITE Trip Gen Land Use | Qty. | Units | Per Capita/ Employee VMT | VMT With Mitigation | Total VMT | Threshold | Significant Impact |
|------------------------------------|-------|-------------|--------------------------------|------------------------|--------------|-----------|-----------------------|
| 934 - Fast-Food Restaurant w/ D.T. | 3.781 | 1,000 Sq Ft | 15.74 | 15.74 | 616.2 | 18.67 | No |
| Total | | | 15.74 | 15.74 | 616.2 | | |

Land Use Parcel Selection



APN: 404-201-102-6

Total Emissions Estimates

| Pollutant | Mobile | Mitigation | With Mitigation | Non Mobile | Total |
|----------------|--------|------------|-----------------|------------|-------|
| CO (lb/day) | 0 | 0 | 0 | 0 | 0 |
| ROG (lb/day) | 0 | 0 | 0 | 0 | 0 |
| NOX (lb/day) | 0 | 0 | 0 | 0 | 0 |
| SOX (lb/day) | 0 | 0 | 0 | 0 | 0 |
| PM2.5 (lb/day) | 0 | 0 | 0 | 0 | 0 |
| PM10 (lb/day) | 0 | 0 | 0 | 0 | 0 |
| CO2 (mt/year) | 0 | 0 | 0 | 0 | 0 |

Project Presumptions of Less than Significant Impact

- Within a 1/2 mile of Major Transit Stop
- Less than 110 Trips per Day

934 - Fast-Food Restaurant w/ D.T.

Land Use Metrics

| Metric | Project | Mitigation | With Mitigation |
|-------------|---------|------------|-----------------|
| HBW VMT/Emp | 15.7 | 0 | 15.7 |
| Daily Trips | 1781 | 0 | 0 |

Land Use Emission Estimates

| Pollutant | Project | Mitigation | With Mitigation | Non Mobile | Total |
|----------------|---------|------------|-----------------|------------|-------|
| CO (lb/day) | 0 | 0 | 0 | 0 | 0 |
| ROG (lb/day) | 0 | 0 | 0 | 0 | 0 |
| NOX (lb/day) | 0 | 0 | 0 | 0 | 0 |
| SOX (lb/day) | 0 | 0 | 0 | 0 | 0 |
| PM2.5 (lb/day) | 0 | 0 | 0 | 0 | 0 |
| PM10 (lb/day) | 0 | 0 | 0 | 0 | 0 |
| CO2 (mt/year) | 0 | 0 | 0 | 0 | 0 |

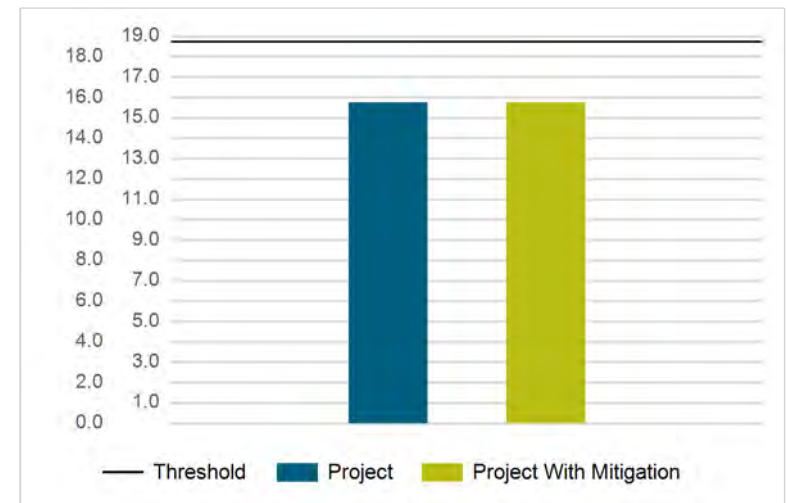
Selected TDM

| TDM | Input | Result |
|-----------------------------|-------|--------|
| No TDM strategies selected. | | |

Land Use Presumptions of Less than Significant Impact

- Affordable Housing
- Local Serving Land Use

HBW VMT/Emp



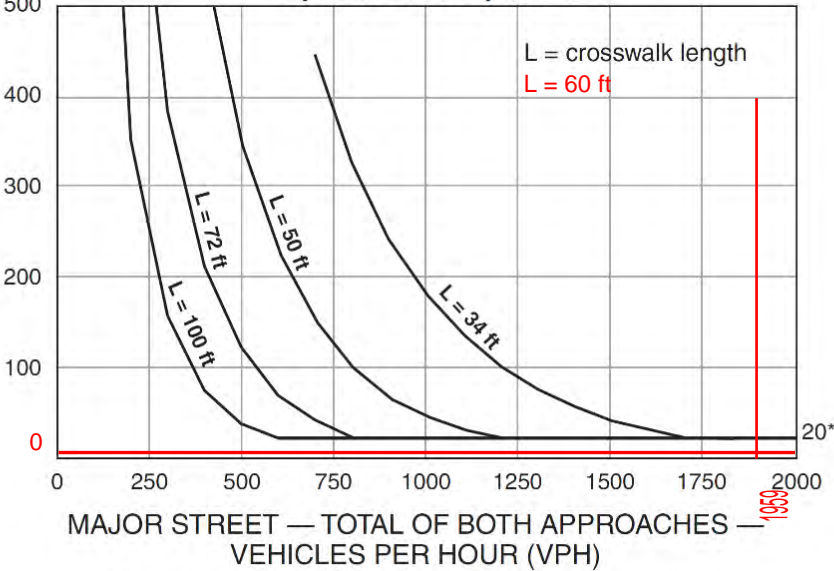
Regional Avg: 21.97

Threshold (15% below Average): 18.67

Appendix F: CA MUTCD PHB Guidelines

Speeds of 35 mph or less

TOTAL OF ALL
PEDESTRIANS CROSSING
THE MAJOR STREET - PEDESTRIANS
PER HOUR (PPH)



* Note: 20 pph applies as the lower threshold volume