

Memorandum

Date: January 9, 2024

To: Patty Anders, Planning Manager, Policy & Housing Development Service Department, City of Encinitas

From: Katy Cole, Maddie Hasani; Fehr & Peers

Subject: City of Encinitas Transportation Modeling Considerations and Results

SD22-0437

This memorandum provides a comprehensive overview of the travel demand modeling options and analysis conducted for the City of Encinitas. The purpose of this analysis is to forecast Vehicle Miles Traveled (VMT) for various planning projects within the City. In addition to VMT analysis, this memo also provides Level of Service (LOS) analysis for roadway segments within the City and estimates travel mode share for each model scenario. This report details the methods and tools under consideration, presents the results of the analysis, and outlines the scope of work associated with the currently favored method.

Selecting a Transportation Modeling Tool/Method

Fehr & Peers began collaborating with the City of Encinitas on methods for forecasting VMT in 2023. The modeling would support the following City planning efforts:

- General Plan Mobility Element Update
- Climate Action Plan Updates

Since evaluating the transportation conditions associated with these efforts requires updating residential land use assumptions for the entire City (to ensure that the correct land use is reflected in the analysis), using the SANDAG regional travel demand model was deemed the most appropriate tool.

Background on the SANDAG Model

The following provides an overview of SANDAG Model versions and history. This information provides context for selecting the appropriate version of the model for use on the City of Encinitas projects:

- The SANDAG Model goes through major version changes every time a new SANDAG Regional Plan is adopted. The most recent model version is the "Activity Based Model 2+" (ABM2+), which is the model that includes a scenario for the December 2021 SANDAG Regional Plan/Sustainable Community Strategy (SCS).



- The previous version of the SANDAG Model, “Activity Based Model 2” (ABM2) had limited functionality because it was an interim version that SANDAG prepared only for the Federal Regional Transportation Plan. A fundamental limitation with ABM2 is that a user is unable to make land uses changes in the model (in other words, the land use file is locked and can’t be edited). Custom modeling is not available using ABM2 so it was not considered for this project.
- On September 23, 2022, the SANDAG Board directed SANDAG staff to remove the “road user charge” from the 2021 Regional Plan and prepare a focused amendment to the 2021 Regional Plan. This direction requires significant revisions to the SANDAG 2021 Regional Plan model to remove the road user charge policy. Removing the road user charge results in regional VMT increasing (because removal of the charge results in the cost of driving going down).
- As part of the SANDAG 2021 Regional Plan EIR SANDAG modeled several alternatives. The Regional Plan No Build Alternative (Model Land Use Data Set 41¹) best represents reasonably foreseeable conditions. Specifically, it doesn’t include the road user charge and only includes regional transportation investments that are funded, under construction, have environmental clearance, or are otherwise reasonably foreseeable. It does not include the major transportation investments outlined in the Regional Plan because the fundings of these project’s are not guaranteed. The Data Set (DS) 41 version of the model was used as the basis for modeling performed for the City of Encinitas. **Table 1** provides a summary comparison of the Regional Plan “build” and “no build” alternatives.
- An overarching consideration is that the SANDAG model is a large tool that requires specialized expertise and significant computer processing power. The model can’t be run on a standard computer, and it takes several days to completely run. Therefore, it can be cumbersome and time consuming to use.

Fehr & Peers performed a detailed review of the SANDAG model assumptions including residential and employment land uses as well as policy to provide data for deciding the preferred option for performing the modeling. **Table 1** summarizes the options considered.

¹ ABM2+ Version 14.2.2, Series 14 Forecast, Scenario ID 469, September 2021.

Note that Data Set 41 is the most recent version of Data Set 39 which was used for the SANDAG 2021 Regional Plan EIR Alternative 2 Analysis.



Table 1: SANDAG Modeling Options Considered

| Option | Land Use Summary | Model Policy/Other Inputs |
|--------------------------------------|--|--|
| Dataset 41 - DS41 (No Build) | Has land use assumptions consistent with City's land use inputs (unmodified by SANDAG) | No build scenario does not include the road user charge. More consistent with the City's general plan than DS 42 Includes roadway investments that are reasonably foreseeable such as projects that are funded, under construction, or have environmental clearance. Inconsistent with the adopted 2021 Regional Plan |
| Dataset 42 - DS42 (Build, Vision) | SANDAG adjusted City's land use inputs to direct land use to mobility hubs and to increase land use density. Represents the 2021 Regional Plan and Sustainable Community Strategy (CSC) | Build scenario includes road user charge. Consistent with the adopted 2021 Regional Plan Includes the "5-Big Moves" policy changes and major infrastructure investments. |

Source: Fehr & Peers, 2023

After evaluating the options and their respective land use and policy assumptions, the City staff opted to use the No build DS41. This option aligns most closely with the City's General Plan, it does not include the road user charge policy (which SANDAG has been directed to remove), and it includes reasonably foreseeable transportation investments. By selecting this option, the team was able to update and refine the City's land use assumptions while also factoring in regional transportation network investments and policies. Overall, this approach provided the most reasonable conditions for evaluating VMT/GHG.



Analysis Scenarios

The project encompasses three distinct scenarios, each with its specific purpose. In the process of crafting these scenarios, we collaborated closely with SANDAG staff to obtain off-the-shelf model files that encompassed the model inputs and outputs for the years 2016 and 2050, particularly pertaining to DS41.

Furthermore, the project commenced at the point when the City was due to evaluate the SANDAG ABM Series 15 land use assumptions. These assumptions are integral to the newest version of the ABM that SANDAG is currently in the process of preparing. If discrepancies arose between these assumptions and the City's Housing Element or General Plan, we refined the Series 15 data to align with the City's assumptions. These updates were then shared with SANDAG to incorporate them into the development of the Series 15 model.

Here is an overview of the three scenarios:

Existing Baseline 2016 w/Adopted Housing Elements

In the process of developing the housing unit data for this particular scenario, we received multiple data sources that reflected the existing scenario, including the following sources, all organized by parcels within the City:

- Up-to-date data on current housing sites.
- Recently approved development projects spanning the past few years.

This data was consolidated based on location to the corresponding Master Geographic Reference Area (MGRA), which serves as the geographic boundary utilized by the SANDAG ABM model for housing and land use inputs. In instances where the City did not provide any land use data for specific parcels, we used the Series 15 land use data that was shared with us from SANDAG modeling team.

Future Baseline 2050 w/Adopted Housing Elements (No Project Alternative)

For this scenario, we obtained the following data from the City:

- Additional housing expected to be built by 2050.
- City's Housing Element land use data, including developments expected to be completed by 2050.
- Any potential development projects, aside from the Housing Element project, set to be completed by 2050.

These three sources of data were provided based on parcel boundaries. We added them to the Baseline 2016 scenario land uses. That total was then compared with the 2050 Series 15 data. For MGRAs where the City didn't provide land use data for specific parcels or where the Series 15 data indicated higher values compared to the City-provided data, we chose to adopt the Series 15 data to maintain a conservative approach. Otherwise, Baseline 2016 land use plus City land use data totals were used.



Future Baseline 2050 w/Adopted Housing Elements and Mobility Element (with Project Alternative)

This scenario includes housing assumptions identical to the previous 2050 scenario, with the addition of roadway network adjustments. These adjustments encompass reductions in speed limits and the number of lanes, aligning with the City's Mobility Element.



VMT Analysis & Results

As mentioned earlier, we employed the SANDAG ABM2+ model DS41 (*ABM2+ Version 14.2.2, Series 14 Forecast, Scenario ID 469, September 2021*). We integrated all the updates to land use and network data into each model scenario year. After running each model scenario, we took the model's outputs and post-processed them to compute three VMT metrics: total VMT, VMT per capita, and VMT per employee. The City's CAP project analysis used the total VMT metric, while the City's Mobility Element project analysis relied on VMT per Capita and VMT per Employee metrics.

Total VMT

Total VMT was determined through the application of the CAP method, which takes into account all internal VMT, half of the internal to external VMT, and half of the external to internal VMT as informed by the model data. For each project scenario, total VMT was calculated multiplying the origin-destination matrices (representing the number of trips between two Traffic Analysis Zones or TAZs) by the skim matrices (representing the length of trips between two TAZs). The results are summarized in **Table 2**.


| | | |
|---|---|--|
| <p>Total VMT Generated (CAP)</p> | <p>All vehicle-trips are traced to the zone or zones of study. This includes internal to internal (II), 1/2 internal to external (IX), and 1/2 external to internal (XI) trips. May use final assignment origin-destination (OD) trip tables or production (P) and attraction (A) estimates multiplied by distance skims. When the model has multiple assignment periods, OD trip tables and congested skims from each period should be used.</p> |  |
|---|---|--|

Table 2: Total VMT Summary

| Scenario | VMT |
|--|-----------|
| Existing Baseline 2016 w/Adopted Housing Elements | 1,441,692 |
| Future Baseline 2050 w/Adopted Housing Elements | 1,730,272 |
| Future Baseline 2050 w/Adopted Housing Elements and Mobility Element | 1,727,015 |

Source: SANDAG, Fehr & Peers 2023

VMT per Capita

VMT per capita includes all VMT generated by residents of a City or region, encompassing the entire population. This metric is calculated by dividing the total daily VMT generated by residents of the City or region by the total population of that City or region, as shown in **Table 3**.



The VMT generated by residents includes the distance covered by all trips made by City of Encinitas residents and SANDAG residents in a day. These trips include journeys from home to work, home to shopping, shopping to home, and so forth. The data for these trips is found in three model output files: individualTrips, jointTrips, and internalExternalTrips.

The count of residents living within the City or region is calculated based on the households data input into the model, which includes total number of residents in each household.


| | | | |
|-------------------------------------|------------------|--|---|
| <p>Residential VMT per resident</p> | <p>ABM, TOUR</p> | <ul style="list-style-type: none"> • All automobile (i.e., passenger cars and light-duty trucks) vehicle-trips are traced back to the residence of the trip-maker, even non-home-based trips. • Not applicable for trip-based models since non-home-based (NHB) trips aren't tied to the households making them. • Can be calculated either by averaging the daily VMT of all residents or by calculating total VMT, counting total residents, and dividing. • Allocation of responsibility within a jurisdiction (e.g., cities within a county) is straight-forward, since each trip is attached to a resident and each resident has a single home location. • Requires household size determination, which can be subject to debate for different housing types (i.e., single-family, multi-family, and age-qualified housing products). • Commercial vehicle trips are not included. • A related metric is residential VMT per household – denominator is the total number of households instead of the total number of residents. The benefit of this metric form is that it doesn't require an estimate of household size. |  |
|-------------------------------------|------------------|--|---|

Table 3: City-wide and Regional VMT per Capita Summary

| Scenario | City of Encinitas | | | Regional | | |
|--|-------------------|---------------------------|------------------|-----------|---------------------------|------------------|
| | Resident | VMT Generated by Resident | VMT per Resident | Resident | VMT Generated by Resident | VMT per Resident |
| Existing Baseline 2016 w/Adopted Housing Elements | 76,408 | 1,636,436 | 21.4 | 3,729,813 | 61,529,037 | 18.8 |
| Future Baseline 2050 w/Adopted Housing Elements | 82,672 | 1,787,803 | 21.6 | 3,286,077 | 60,835,945 | 18.5 |
| Future Baseline 2050 w/Adopted Housing Elements and Mobility Element | 82,672 | 1,785,819 | 21.6 | 3,286,077 | 60,935,163 | 18.5 |

Source: SANDAG, Fehr & Peers 2023



VMT per Employee

VMT per employee provides an estimate of the work-related VMT generated by employees throughout an entire City or region. This metric is calculated by dividing the total daily VMT generated by city-wide employees and regional employees by the total number of employees of the City and region, as shown in **Table 4**.

The VMT generated by employees working within the City of Encinitas or SANDAG region includes total distance of trips from home to work, work to school pick up, work to home, etc. These trips can be found in the individualTrips which is one of the model outputs. The number of employee working within the City or region can be calculated from the model output file: wsLocResults_3. Note that it includes employees working from home.

The count of employees working within the City/region was calculated using the model output file: wsLocResults_3. It's important to note that this count includes employees working from home as well.

| | | | |
|--|------------------|--|--|
| <p>Work Tour VMT per employee</p> | <p>ABM, TOUR</p> | <ul style="list-style-type: none"> All automobile trips which are part of home-work tours or work-based tours are counted. Calculations include intermediate stops, even if not home or work end. Allocation of responsibility within a jurisdiction is straight-forward, since each tour or half-tour should be attached to a specific workplace. Commercial vehicle trips are not included. | |
|--|------------------|--|--|

Table 4: Regional VMT per Employee Summary

| Scenario | City of Encinitas | | | Regional | | |
|--|-------------------|---------------------------|------------------|-----------|---------------------------|------------------|
| | Employee | VMT Generated by Employee | VMT per Employee | Employee | VMT Generated by Employee | VMT per Employee |
| Existing Baseline 2016 w/Adopted Housing Elements | 29,260 | 590,302 | 20.2 | 1,545,309 | 29,329,598 | 19.0 |
| Future Baseline 2050 w/Adopted Housing Elements | 24,106 | 455,148 | 18.9 | 1,548,347 | 28,544,165 | 18.4 |
| Future Baseline 2050 w/Adopted Housing Elements and Mobility Element | 23,985 | 444,405 | 18.5 | 1,548,347 | 28,582,728 | 18.4 |

Source: SANDAG, Fehr & Peers 2023



Updated VMT Maps for City's Guideline

The VMT maps for the City have been updated to incorporate the results of the new model runs for both existing and future year scenarios. These maps are shown on **Figure 1** through **Figure 6**, offering a comprehensive overview of the VMT per Capita and VMT per Employee metrics categorized by TAZ. It's important to clarify that VMT per Capita is associated with the TAZ where residents' homes are located, while VMT per Employee is associated with the TAZ where employees work. In the case of employees working from home, their home TAZ is assumed to be their work TAZ.

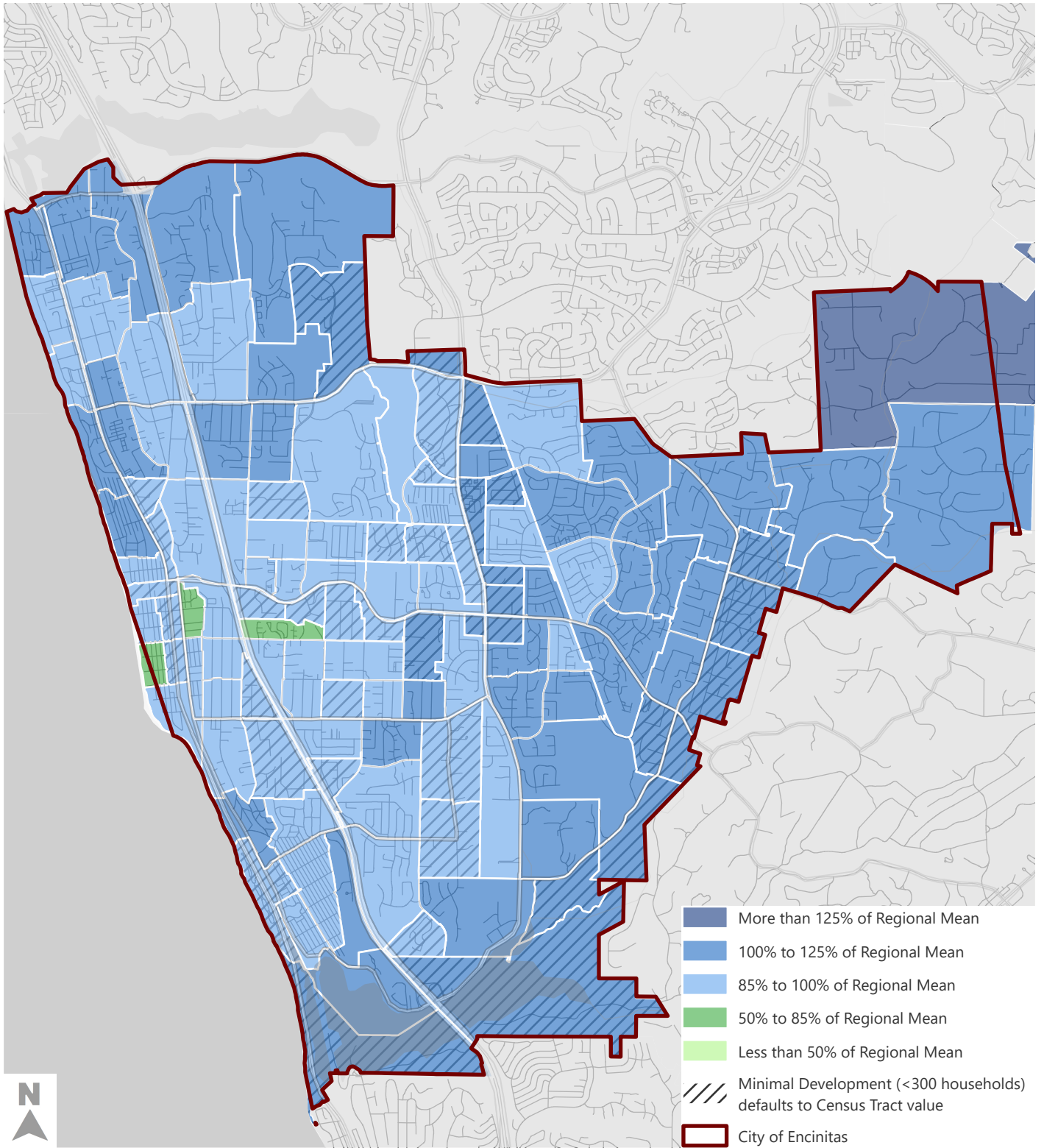


Figure 1

2016 Vehicle Miles Traveled (VMT) per Capita by TAZ Comparison to City-wide Average (21.4 VMT/Capita)



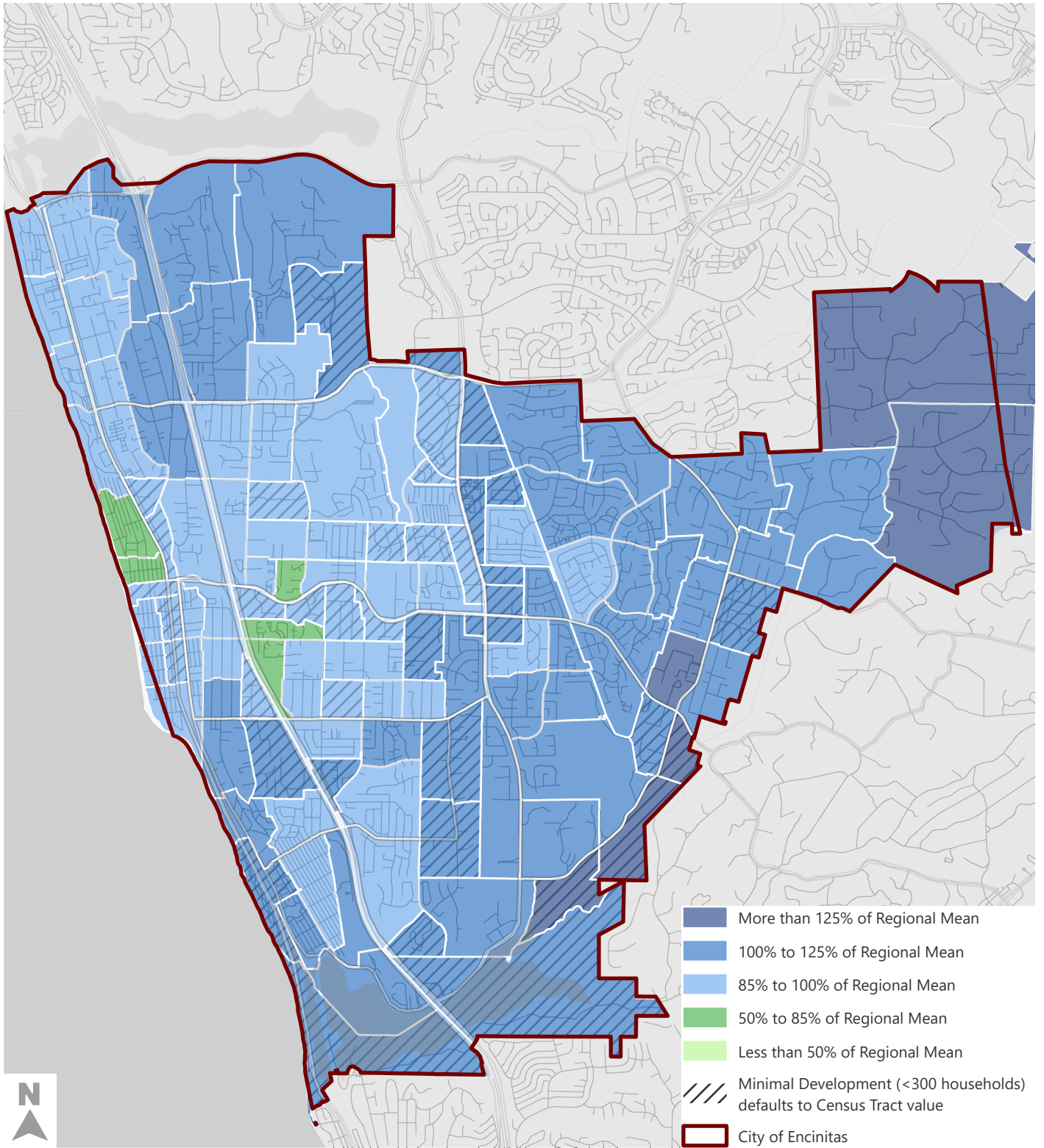


Figure 2

2050 Vehicle Miles Traveled (VMT) per Capita by TAZ
Comparison to City-wide Average (21.6 VMT/Capita)



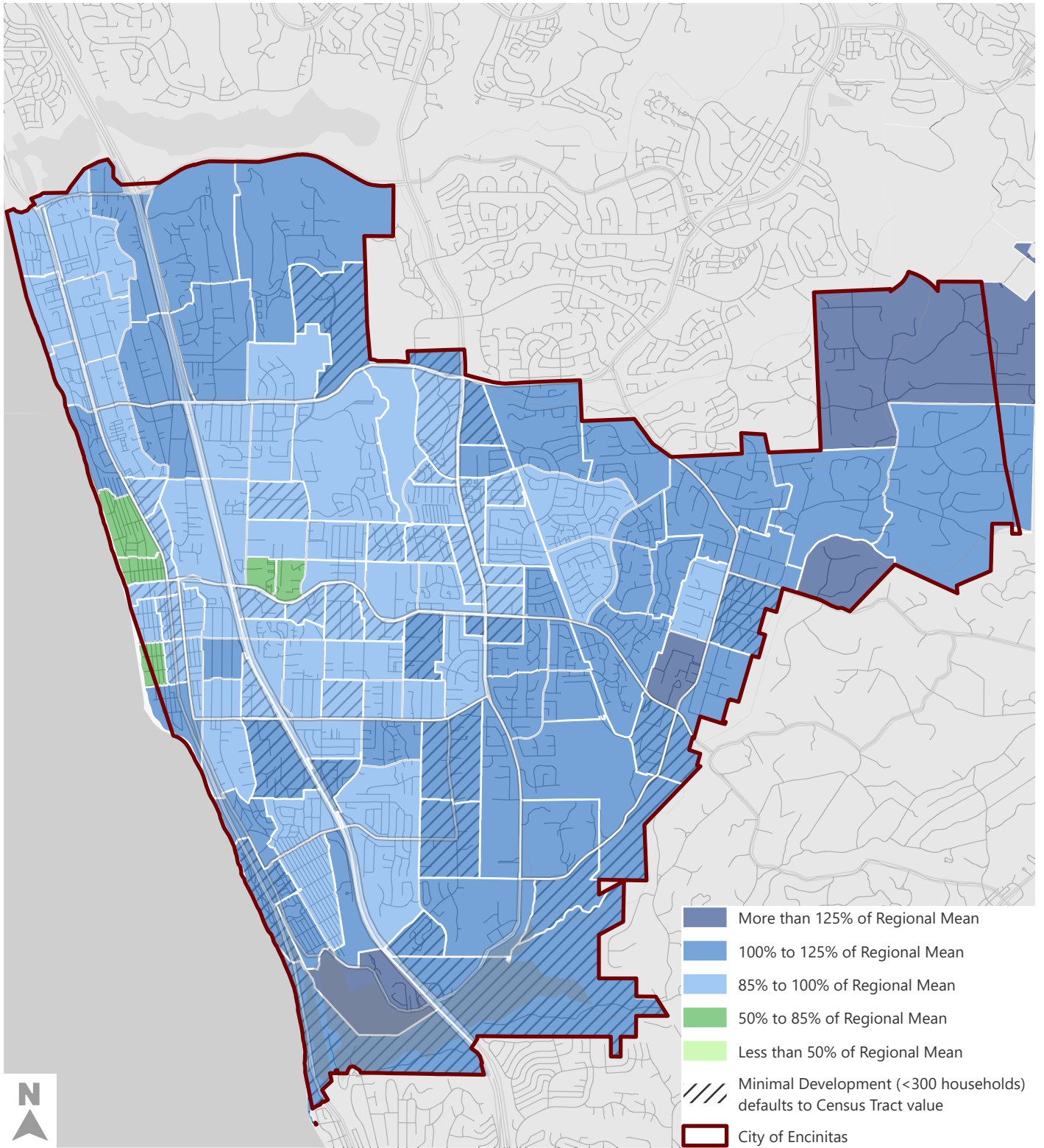


Figure 3

2050 Vehicle Miles Traveled (VMT) per Capita by TAZ Comparison to City-wide Average (21.6 VMT/Capita)



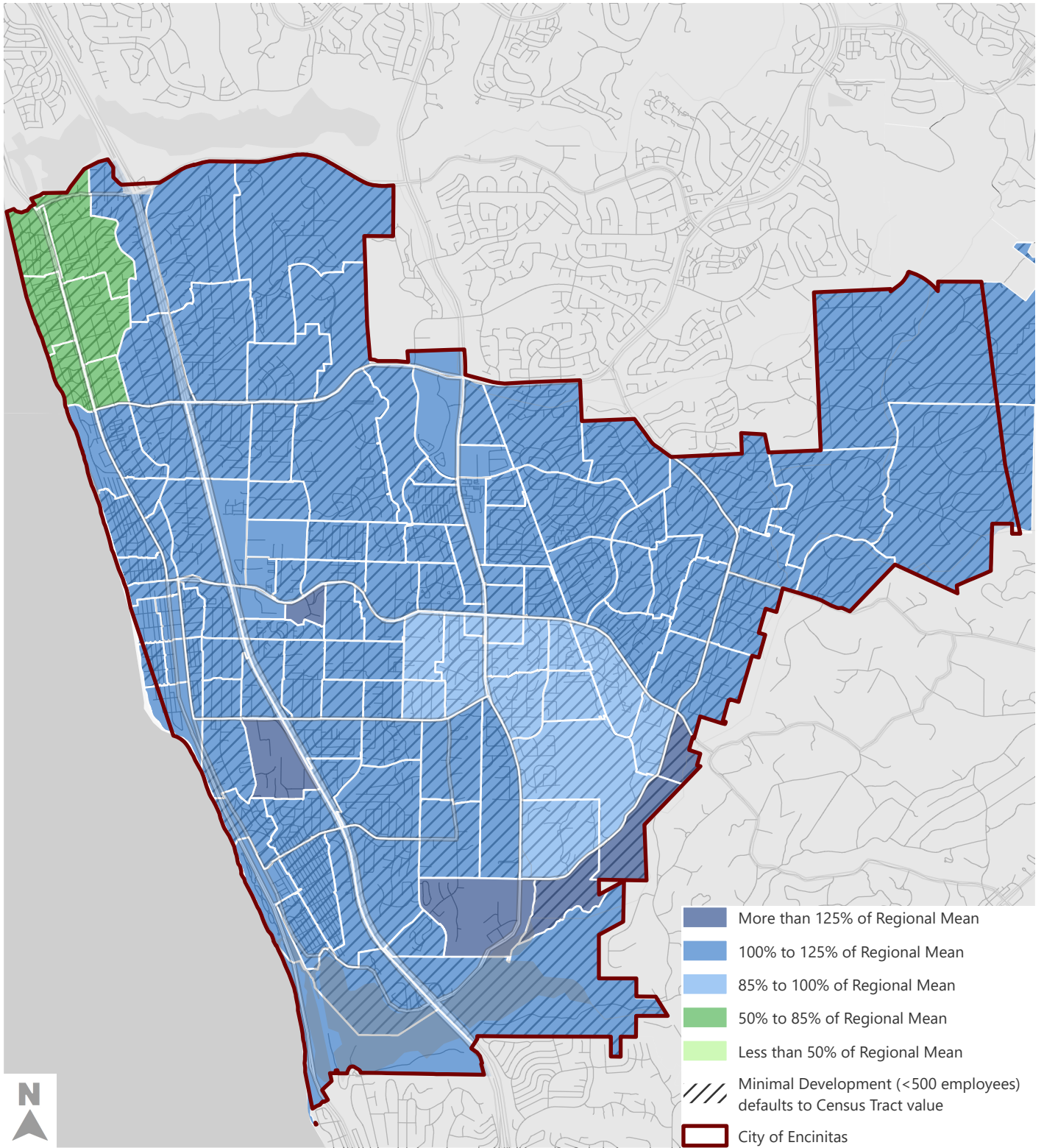


Figure 4

2016 Vehicle Miles Traveled (VMT) per Employee by TAZ Comparison to Regional Average (19.0 VMT/Employee)



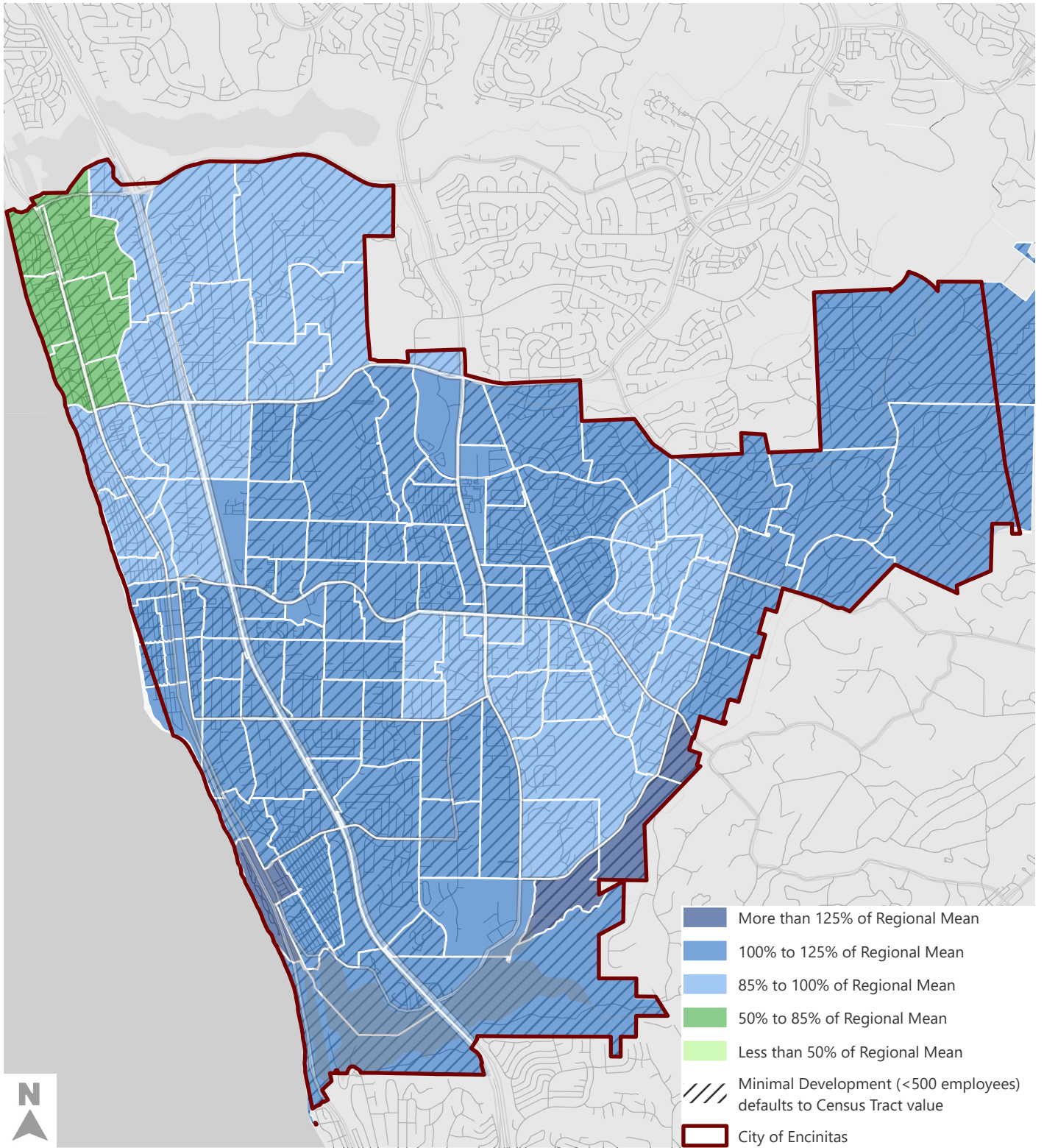


Figure 5

2050 Vehicle Miles Traveled (VMT) per Employee by TAZ
Comparison to Regional Average (18.4 VMT/Employee)



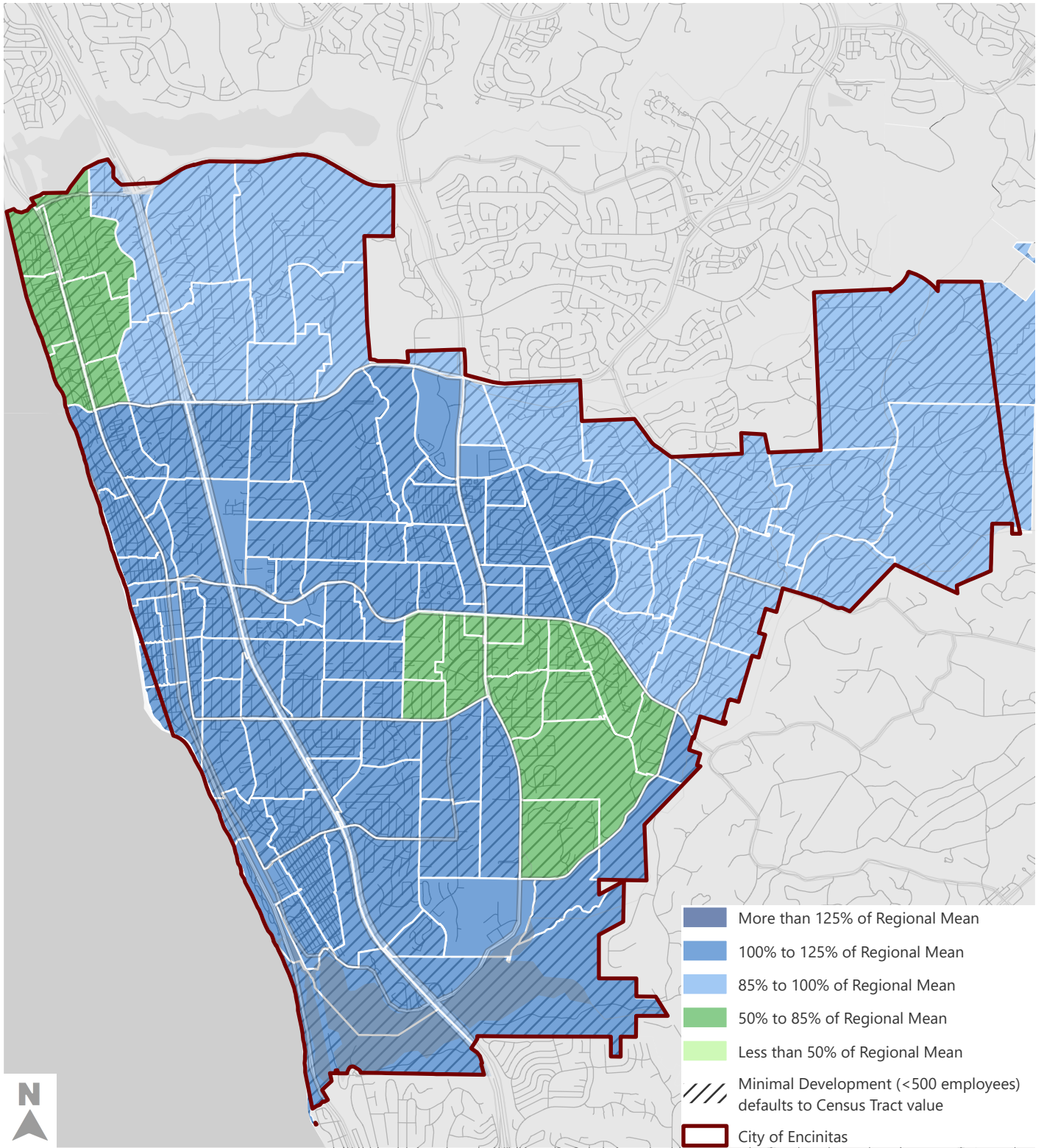


Figure 6

2050 Vehicle Miles Traveled (VMT) per Employee by TAZ Comparison to Regional Average (18.4 VMT/Employee)





Mode Share Analysis & Results

The mode share calculations are based on three primary outputs of the SANDAG ABM2+ model, which are outlined as follows:

- *Individual Trips*: These are trips taken by individuals solely within the SANDAG region.
- *Joint Trips*: These are trips within the SANDAG region where a group of people travel together, such as a family trip within the City.
- *IE Trips*: These represent trips that originate in the SANDAG region but conclude outside its boundaries.

The mode share includes the total number of trips originating and/or ending within a particular geography. The cumulative mode share was computed for both the entire region and the City of Encinitas for the three project scenarios. The resulting data has been summarized in **Table 5**, **Table 6**, and **Table 7** for your reference.

Table 5: Mode Share Results - Existing Baseline 2016 w/Adopted Housing Elements

| Modes | Regional | City of Encinitas |
|--------------------------|-----------|-------------------|
| Drive Alone | 6,193,216 | 167,172 |
| Shared Ride 2 | 3,394,604 | 68,255 |
| Shared Ride 3+ | 2,727,764 | 55,625 |
| Bike | 116,026 | 8,229 |
| Walk | 958,536 | 17,828 |
| Micro-Mobility | 12,928 | 26 |
| TNC | 69,549 | 1,876 |
| School Bus | 139,342 | 3,060 |
| Taxi | 4,569 | 60 |
| Walk to Transit | 178,614 | 1,587 |
| TNC to Transit | 551 | 6 |
| Kiss and Ride to Transit | 24,800 | 422 |
| Park and Ride to Transit | 12,759 | 304 |

Source: SANDAG, Fehr & Peers 2023



Table 6: Mode Share Results - Future Baseline 2050 w/Adopted Housing Elements

| Modes | Regional | City of Encinitas |
|--------------------------|-----------|-------------------|
| Drive Alone | 6,132,788 | 180,711 |
| Shared Ride 2 | 3,403,251 | 74,746 |
| Shared Ride 3+ | 2,731,667 | 59,298 |
| Bike | 117,790 | 8,667 |
| Walk | 1,038,559 | 19,164 |
| Micro-Mobility | 14,644 | 26 |
| TNC | 71,965 | 2,127 |
| School Bus | 141,458 | 3,492 |
| Taxi | 4,641 | 55 |
| Walk to Transit | 182,561 | 1,859 |
| TNC to Transit | 538 | 4 |
| Kiss and Ride to Transit | 29,758 | 539 |
| Park and Ride to Transit | 14,699 | 480 |

Source: SANDAG, Fehr & Peers 2023

Table 7: Mode Share Results - Future Baseline 2050 w/Adopted Housing Elements and Mobility Element

| Modes | Regional | City of Encinitas |
|--------------------------|-----------|-------------------|
| Drive Alone | 6,143,076 | 180,264 |
| Shared Ride 2 | 3,408,644 | 74,930 |
| Shared Ride 3+ | 2,739,219 | 60,014 |
| Bike | 117,072 | 8,558 |
| Walk | 1,035,345 | 19,232 |
| Micro-Mobility | 14,597 | 25 |
| TNC | 70,737 | 2,109 |
| School Bus | 140,758 | 3,556 |
| Taxi | 4,520 | 36 |
| Walk to Transit | 178,979 | 1,835 |
| TNC to Transit | 510 | 10 |
| Kiss and Ride to Transit | 29,839 | 613 |
| Park and Ride to Transit | 14,689 | 532 |

Source: SANDAG, Fehr & Peers 2023



Roadway LOS Analysis & Results

The LOS analysis was conducted to evaluate the performance of the Mobility Element roadways within the City, employing the roadway characteristics provided by the City and adhering to the LOS threshold established by the City. The City's roadway ADT data was directly extracted from the model link outputs, with "HwyLoad" being the specific file name used for reading ADT. This comprehensive analysis was carried out across the three scenarios, allowing for an examination of roadway performance under varying conditions. The results of this analysis are summarized in **Table 8**, **Table 9**, and **Table 10**.



Table 8: Roadway LOS Results - Existing Baseline 2016 w/Adopted Housing Elements

| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|---------------------|------------------------|------------------------|----------------------------------|--------------------|-------|--------|--------|-----------------|
| 1 | Balour Dr | Encinitas Blvd | Melba Rd | Suburban Collector | Collector | 2 | None | 12,484 | LOS F |
| 2 | Balour Dr | Melba Rd | Santa Fe Dr | Suburban Collector | Collector | 2 | None | 7,992 | LOS E |
| 3 | Birmingham Dr | San Elijo Ave | Carol View Dr | Urban Village Collector | Collector | 2 | None | 13,188 | LOS F |
| 4 | Birmingham Dr | Carol View Dr | Villa Cardiff Dr | Urban Village Collector | Collector | 2 | None | 14,902 | LOS F |
| 5 | Birmingham Dr | Villa Cardiff Dr | Lake Dr | Suburban Collector | Collector | 2 | None | 8,075 | LOS E |
| 6 | Bonita Dr | Requeza St | Melba Rd | Residential Neighborway | Local | 2 | None | 1,396 | LOS C or Better |
| 7 | Bonita Dr | Melba Rd | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 1,469 | LOS C or Better |
| 8 | Cerro St | Encinitas Blvd | Avenida De Las Adelsas | Residential Neighborway | Local | 2 | Median | 2,172 | LOS C or Better |
| 9 | Cerro St | Avenida De Las Adelsas | S El Camino Real | Residential Neighborway | Local | 2 | TWLTL | 2,272 | LOS C or Better |
| 10 | Chesterfield Dr | S Coast Highway 101 | Oxford Ave | Residential Neighborway | Local | 4 | None | 5,414 | LOS C or Better |
| 11 | Chesterfield Dr* | Oxford Ave | Edinburg Ave | Residential Neighborway | Local | 2 | None | 488 | LOS C or Better |
| 12 | Clark Ave | Leucadia Blvd | Puebla St | Residential Neighborway | Local | 2 | None | 1,922 | LOS C or Better |
| 13 | Cornish Dr | E D St | San Elijo Ave | Residential Neighborway | Local | 2 | None | 726 | LOS C or Better |
| 14 | Crest Dr | Santa Fe Dr | Melba Rd | Residential Neighborway | Local | 2 | None | 648 | LOS C or Better |
| 15 | E D St | S Coast Highway 101 | Stratford Dr | Residential Neighborway | Local | 2 | None | 1,422 | LOS C or Better |
| 16 | E F St | S Vulcan Ave | Cornish Dr | Suburban Collector | Collector | 2 | None | 1,327 | LOS C or Better |
| 17 | E Glaucus St | N Vulcan Ave | Hygeia Ave | Residential Neighborway | Local | 2 | None | 1,336 | LOS C or Better |
| 18 | E Glaucus St | Hygeia Ave | Hymettus Ave | Residential Neighborway | Local | 2 | None | 1,694 | LOS C or Better |
| 19 | E Glaucus St | Hymettus Ave | Orpheus Ave | Residential Neighborway | Local | 2 | None | 338 | LOS C or Better |
| 20 | Edinburg Ave* | Liverpool Dr | Chesterfield Dr | Residential Neighborway | Local | 2 | None | 520 | LOS C or Better |
| 21 | El Camino Del Norte | City Boundary | Rancho Santa Fe Rd | Rural Collector | Collector | 2 | None | 8,658 | LOS E |
| 22 | El Camino Real | City Boundary | Leucadia Blvd | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 27,171 | LOS C or Better |
| 23 | El Camino Real | Leucadia Blvd | Encinitas Blvd | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 32,179 | LOS C or Better |
| 24 | El Camino Real | Encinitas Blvd | Crest Dr | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 29,418 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|----------------|-----------------------------------|---------------------|-------------------------------------|--------------------|-------|--------|--------|-----------------|
| 25 | El Camino Real | Crest Dr | Manchester Ave | Suburban Connector (Prime Arterial) | Prime Arterial | 6 | TWLTL | 27,052 | LOS C or Better |
| 26 | El Portal St* | La Mesa Ave | La Veta Ave | Residential Neighborway | Local | 2 | None | 799 | LOS C or Better |
| 27 | El Portal St* | La Veta Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,236 | LOS C or Better |
| 28 | Encinitas Blvd | N Coast Highway 101 | I-5 | Suburban Connector (Major Arterial) | Major Arterial | 4 | TWLTL | 26,988 | LOS E |
| 29 | Encinitas Blvd | I-5 | Calle Magdalena | Suburban Connector (Major Arterial) | Major Arterial | 6 | Median | 31,317 | LOS C or Better |
| 30 | Encinitas Blvd | Calle Magdalena | Westlake St | Suburban Connector (Major Arterial) | Major Arterial | 6 | Median | 24,308 | LOS C or Better |
| 31 | Encinitas Blvd | Westlake St | N El Camino Real | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 21,665 | LOS C or Better |
| 32 | Encinitas Blvd | N El Camino Real | Rancho Santa Fe Rd | Suburban Connector (Major Arterial) | Major Arterial | 4 | TWLTL | 21,144 | LOS D |
| 33 | Garden View Rd | City Limits | El Camino Real | Suburban Collector | Collector | 4 | Median | 9,031 | LOS C or Better |
| 34 | Garden View Rd | El Camino Real | Garden View Ct | Suburban Collector | Collector | 4 | TWLTL | 8,966 | LOS C or Better |
| 35 | Garden View Rd | Garden View Ct | Glen Arbor Dr | Suburban Collector | Collector | 2 | None | 6,312 | LOS D |
| 36 | Glen Arbor Dr | Garden View Rd | Willowspring Dr | Residential Neighborway | Local | 1 | None | 1,513 | LOS C or Better |
| 37 | Glen Arbor Dr | Willowspring Dr | Mountain Vista Dr | Residential Neighborway | Local | 1 | None | 622 | LOS C or Better |
| 38 | Glen Arbor Dr | Mountain Vista Dr | N Willowspring Dr | Residential Neighborway | Local | 1 | None | 465 | LOS C or Better |
| 39 | Grandview St* | Neptune Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,258 | LOS C or Better |
| 40 | Hymettus Ave | E Glaucus St | E Glaucus St | Residential Neighborway | Local | 2 | None | 768 | LOS C or Better |
| 41 | La Costa Ave | N Coast Highway 101/Carlsbad Blvd | Piraeus St | Urban Village Collector | Collector | 2 | None | 18,077 | LOS F |
| 42 | La Costa Ave | Piraeus St | City Boundary | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 35,416 | LOS E |
| 43 | Lake Dr | Santa Fe Dr | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,296 | LOS D |
| 44 | Leucadia Blvd | N Coast Highway 101 | Orpheus Ave | Urban Village Collector | Collector | 2 | TWLTL | 6,005 | LOS C or Better |
| 45 | Leucadia Blvd | Orpheus Ave | N El Camino Real | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 22,800 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|---------------------|--------------------|--------------------|--|--------------------|-------|--------|--------|-----------------|
| 46 | Liverpool Dr* | Edinburg Ave | Mackinnon Ave | Residential Neighborway | Local | 2 | None | 368 | LOS C or Better |
| 47 | Lone Jack Rd | Rancho Santa Fe Rd | Lone Hill Ln | Residential Neighborway | Local | 2 | None | 4,380 | LOS C or Better |
| 48 | Mackinnon Ave | Santa Fe Dr | I-Villa Cardiff Dr | Suburban Collector | Collector | 2 | None | 8,969 | LOS E |
| 49 | Mackinnon Ave | Villa Cardiff Dr | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,303 | LOS D |
| 50 | Mackinnon Ave | Birmingham Dr | Liverpool Dr | Residential Neighborway | Local | 2 | None | 4,273 | LOS C or Better |
| 51 | Manchester Ave | Rossini Dr | San Elijo Ave | Residential Neighborway | Local | 2 | None | 1,076 | LOS C or Better |
| 52 | Manchester Ave | San Elijo Ave | I-5 | Urban Village Collector | Collector | 2 | None | 6,164 | LOS D |
| 53 | Manchester Ave | I-5 | El Camino Real | Suburban Connector (Prime Arterial) | Prime Arterial | 4 | None | 30,008 | LOS F |
| 54 | Manchester Ave | El Camino Real | Encinitas Blvd | Rural Collector | Collector | 2 | None | 7,776 | LOS E |
| 55 | Melba Rd | Cornish Dr | Stratford Dr | Residential Neighborway | Local | 2 | None | 994 | LOS C or Better |
| 56 | Melba Rd | Regal Rd | Bonita Dr | Residential Neighborway | Local | 2 | None | 2,045 | LOS C or Better |
| 57 | Melba Rd | Bonita Dr | Balour Dr | Residential Neighborway | Local | 2 | None | 3,031 | LOS C or Better |
| 58 | Melba Rd | Balour Dr | Crest Dr | Residential Neighborway | Local | 2 | None | 1,011 | LOS C or Better |
| 59 | Montgomery Ave | Rossini Dr | Westminster Rd | Residential Neighborway | Local | 2 | None | 3,005 | LOS C or Better |
| 60 | Mountain Vista Dr | N El Camino Real | Village Park Way | Suburban Collector | Collector | 2 | TWLTL | 5,518 | LOS C or Better |
| 61 | Mountain Vista Dr | Village Park Way | Glen Arbor Dr | Suburban Collector | Collector | 2 | TWLTL | 1,028 | LOS C or Better |
| 62 | Mountain Vista Dr | Glen Arbor Dr | N Willowspring Dr | Suburban Collector | Collector | 2 | TWLTL | 713 | LOS C or Better |
| 63 | Mozart Ave* | Montgomery Ave | San Elijo Ave | Residential Neighborway | Local | 2 | None | 265 | LOS C or Better |
| 64 | N Coast Highway 101 | La Costa Ave | Encinitas Blvd | Coast Highway 101 Urban Village Corridor | Major Arterial | 2 | Median | 14,276 | LOS C or Better |
| 65 | N El Portal St* | El Portal St | Neptune Ave | Residential Neighborway | Local | 2 | None | 257 | LOS C or Better |
| 66 | N Vulcan Ave | La Costa Ave | Encinitas Blvd | Urban Village Collector | Collector | 2 | None | 6,440 | LOS D |
| 67 | Nardo Rd | Requeza St | Santa Fe Dr | Suburban Collector | Collector | 2 | None | 3,146 | LOS C or Better |
| 68 | Neptune Ave* | Grandview St | Sylvia St | Residential Neighborway | Local | 1 | None | 832 | LOS C or Better |
| 69 | Olivenhain Rd | N El Camino Real | City Boundary | Suburban Connector (Major Arterial) | Major Arterial | 5 | Median | 38,672 | LOS D |
| 70 | Orpheus Ave | E Glaucus Rd | N Vulcan Ave | Residential Neighborway | Local | 2 | None | 2,342 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|----------------------|---------------------------------|---------------------------------|--|--------------------|-------|--------|--------|-----------------|
| 71 | Piraeus St | Glaucus St | Leucadia Blvd | Suburban Collector | Collector | 2 | None | 3,352 | LOS C or Better |
| 72 | Puebla St* | Clark Ave | Del Rio Ave | Residential Neighborway | Local | 2 | None | 210 | LOS C or Better |
| 73 | Puebla St | Del Rio Ave | Saxony Rd | Residential Neighborway | Local | 2 | None | 958 | LOS C or Better |
| 74 | Quail Gardens Dr | Swallowtail Blvd | Encinitas Blvd | Suburban Collector | Collector | 2 | Median | 7,028 | LOS C or Better |
| 75 | Quail Hollow Dr | Saxony Rd | Swallowtail Blvd | Suburban Collector | Collector | 2 | None | 1,595 | LOS C or Better |
| 76 | Rancho Santa Fe Rd | N City Boundary | El Camino del Norte | Rural Collector | Collector | 2 | None | 17,459 | LOS F |
| 77 | Rancho Santa Fe Rd | El Camino del Norte | Manchester Ave | Rural Collector | Collector | 2 | None | 13,736 | LOS F |
| 78 | Regal Rd | Requeza St | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 7,109 | LOS D |
| 79 | Requeza St | Nardo Rd | Dead End | Residential Neighborway | Local | 2 | None | 1,053 | LOS C or Better |
| 80 | Requeza St | Cornish Dr | I-5 | Suburban Collector | Collector | 2 | None | 2,322 | LOS C or Better |
| 81 | Requeza St | I-5 | Nardo Rd | Suburban Collector | Collector | 2 | None | 4,222 | LOS C or Better |
| 82 | Rossini Dr* | Montgomery Ave | Manchester Ave | Residential Neighborway | Local | 2 | None | 401 | LOS C or Better |
| 83 | S Coast Highway 101 | Encinitas Blvd | W F St | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | None | 15,520 | LOS C or Better |
| 84 | S Coast Highway 101 | W F St | W K St | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | TWLTL | 10,856 | LOS C or Better |
| 85 | S Coast Highway 101 | W K St | San Elijo State Beach/Verdi Ave | Coast Highway 101 Urban Village Corridor | Major Arterial | 2 | Median | 12,259 | LOS C or Better |
| 86 | S Coast Highway 101 | San Elijo State Beach/Verdi Ave | City Boundary | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | Median | 20,720 | LOS C or Better |
| 87 | S El Portal St* | El Portal St | Neptune Ave | Residential Neighborway | Local | 2 | None | 286 | LOS C or Better |
| 88 | S Rancho Santa Fe Rd | Encinitas Blvd | City Boundary | Rural Collector | Collector | 2 | None | 25,916 | LOS F |
| 89 | S San Elijo Ave | Santa Fe Dr | Cornish Dr | Urban Village Collector | Collector | 2 | None | 2,860 | LOS C or Better |
| 90 | S Vulcan Ave | E St | Encinitas Blvd | Urban Village Collector | Collector | 4 | None | 13,360 | LOS C or Better |
| 91 | S Vulcan Ave | Encinitas Blvd | Santa Fe Dr | Urban Village Collector | Collector | 2 | None | 8,899 | LOS E |
| 92 | S Willowspring Dr | S El Camino Real | Encinitas Blvd | Residential Neighborway | Local | 2 | None | 3,497 | LOS C or Better |
| 93 | San Elijo Ave | Santa Fe Dr | Chesterfield Dr | Urban Village Collector | Collector | 2 | None | 5,936 | LOS D |
| 94 | San Elijo Ave | Chesterfield Dr | Kilkenny Dr | Urban Village Collector | Collector | 2 | None | 1,560 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|-----|------------------|-------------------|---------------------|-------------------------|--------------------|-------|--------|--------|-----------------|
| 95 | San Elijo Ave | Kilkenny Dr | Manchester Ave | Urban Village Collector | Collector | 2 | None | 1,560 | LOS C or Better |
| 96 | Santa Fe Dr | I-5 | Gardena Rd | Suburban Collector | Collector | 2 | TWLTL | 17,286 | LOS F |
| 97 | Santa Fe Dr | Gardena Rd | Nardo Rd | Suburban Collector | Collector | 2 | TWLTL | 10,039 | LOS D |
| 98 | Santa Fe Dr | Nardo Rd | Lake Dr | Suburban Collector | Collector | 2 | TWLTL | 10,619 | LOS D |
| 99 | Santa Fe Dr | Lake Dr | S El Camino Real | Suburban Collector | Collector | 2 | TWLTL | 9,132 | LOS C or Better |
| 100 | Santa Fe Dr | S San Elijo Ave | Rubenstein Ave | Urban Village Collector | Collector | 2 | None | 7,519 | LOS E |
| 101 | Santa Fe Dr | Rubenstein Ave | I-5 | Urban Village Collector | Collector | 2 | TWLTL | 11,674 | LOS D |
| 102 | Saxony Rd | La Costa Ave | Encinitas Blvd | Suburban Collector | Collector | 2 | None | 9,316 | LOS E |
| 103 | Second St | W D St | W K St | Residential Neighborway | Local | 2 | None | 4,748 | LOS C or Better |
| 104 | Stratford Dr | E D St | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 1,074 | LOS C or Better |
| 105 | Summit Ave | Santa Fe Dr | Westminster Rd | Residential Neighborway | Local | 2 | None | 1,500 | LOS C or Better |
| 106 | Sylvia St* | Neptune Ave | Third St | Residential Neighborway | Local | 2 | None | 700 | LOS C or Better |
| 107 | Third St | W K St | W B St | Residential Neighborway | Local | 2 | None | 2,577 | LOS C or Better |
| 108 | Third St | W B St | Sylvia St | Residential Neighborway | Local | 2 | None | 858 | LOS C or Better |
| 109 | Via Cantabria | Garden View Dr | Encinitas Blvd | Suburban Collector | Collector | 4 | TWLTL | 15,643 | LOS D |
| 110 | Via Molena | Via Cantabria | El Camino Real | Residential Neighborway | Local | 2 | None | 5,488 | LOS D |
| 111 | Via Montoro | El Camino Real | Via Cantabria | Residential Neighborway | Local | 2 | None | 1,539 | LOS C or Better |
| 112 | Villa Cardiff Dr | Mackinnon Ave | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,363 | LOS D |
| 113 | Village Park Way | Mountain Vista Dr | Encinitas Blvd | Suburban Collector | Collector | 4 | Median | 7,629 | LOS C or Better |
| 114 | W B St | Third St | N Coast Highway 101 | Urban Village Collector | Collector | 2 | None | 5,643 | LOS D |
| 115 | W D St | Third St | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 4,478 | LOS C or Better |
| 116 | W K St | Third St | S Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,846 | LOS C or Better |
| 117 | W Leucadia Blvd | Neptune Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 685 | LOS C or Better |
| 118 | Wandering Rd | N Willowspring Dr | Mountain Vista Dr | Residential Neighborway | Local | 2 | None | 1,538 | LOS C or Better |
| 119 | Westlake St | Encinitas Blvd | Requeza St | Suburban Collector | Collector | 2 | None | 10,728 | LOS F |
| 120 | Westminster Dr | Summit Ave | Montgomery Ave | Residential Neighborway | Local | 2 | None | 1,592 | LOS C or Better |
| 121 | Willowspring Dr | Glen Arbor Dr | Glen Arbor Dr | Residential Neighborway | Local | 1 | None | 4,580 | LOS D |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|-----|-----------------|-------------------|-------------------|-------------------------|--------------------|-------|--------|-------|-----------------|
| 122 | Willowspring Dr | Glen Arbor Dr | Encinitas Blvd | Residential Neighborway | Local | 2 | None | 1,774 | LOS C or Better |
| 123 | Willowspring Dr | Garden View Rd | Glen Arbor Dr | Residential Neighborway | Local | 1 | None | 1,461 | LOS C or Better |
| 124 | Willowspring Dr | Glen Arbor Dr | Mountain Vista Dr | Residential Neighborway | Local | 2 | None | 1,617 | LOS C or Better |
| 125 | Willowspring Dr | Mountain Vista Dr | Red Gap Court | Residential Neighborway | Local | 1 | None | 641 | LOS C or Better |
| 126 | Windsor Rd | Santa Fe Dr | Munevar Rd | Residential Neighborway | Local | 2 | None | 2,275 | LOS C or Better |
| 127 | Windsor Rd | Munevar Rd | Villa Cardiff Dr | Residential Neighborway | Local | 2 | None | 2,502 | LOS C or Better |
| 128 | Woodlake Dr | Windsor Rd | Lake Dr | Residential Neighborway | Local | 2 | None | 246 | LOS C or Better |

*: ADT data was obtained through a 24-hour data collection process for these segments. This was necessary because the model does not provide ADT for some local residential roadway segments.

In the 2050np and 2050wp scenarios, the average growth rates for segments with the same classification were applied.



Table 9: Roadway LOS Results - Future Baseline 2050 w/Adopted Housing Elements

| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|---------------------|------------------------|------------------------|----------------------------------|--------------------|-------|--------|--------|-----------------|
| 1 | Balour Dr | Encinitas Blvd | Melba Rd | Suburban Collector | Collector | 2 | TWTL | 12,746 | LOS D |
| 2 | Balour Dr | Melba Rd | Santa Fe Dr | Suburban Collector | Collector | 2 | None | 7,498 | LOS D |
| 3 | Birmingham Dr | San Elijo Ave | Carol View Dr | Urban Village Collector | Collector | 2 | None | 12,298 | LOS F |
| 4 | Birmingham Dr | Carol View Dr | Villa Cardiff Dr | Urban Village Collector | Collector | 2 | None | 15,197 | LOS F |
| 5 | Birmingham Dr | Villa Cardiff Dr | Lake Dr | Suburban Collector | Collector | 2 | None | 8,257 | LOS E |
| 6 | Bonita Dr | Requeza St | Melba Rd | Residential Neighborway | Local | 2 | None | 1,388 | LOS C or Better |
| 7 | Bonita Dr | Melba Rd | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 1,857 | LOS C or Better |
| 8 | Cerro St | Encinitas Blvd | Avenida De Las Adelsas | Residential Neighborway | Local | 2 | Median | 2,967 | LOS C or Better |
| 9 | Cerro St | Avenida De Las Adelsas | S El Camino Real | Residential Neighborway | Local | 2 | TWTL | 3,017 | LOS C or Better |
| 10 | Chesterfield Dr | S Coast Highway 101 | Oxford Ave | Residential Neighborway | Local | 2 | None | 5,106 | LOS D |
| 11 | Chesterfield Dr* | Oxford Ave | Edinburg Ave | Residential Neighborway | Local | 2 | None | 489 | LOS C or Better |
| 12 | Clark Ave | Leucadia Blvd | Puebla St | Residential Neighborway | Local | 2 | None | 2,816 | LOS C or Better |
| 13 | Cornish Dr | E D St | San Elijo Ave | Residential Neighborway | Local | 2 | None | 486 | LOS C or Better |
| 14 | Crest Dr | Santa Fe Dr | Melba Rd | Residential Neighborway | Local | 2 | None | 707 | LOS C or Better |
| 15 | E D St | S Coast Highway 101 | Stratford Dr | Residential Neighborway | Local | 2 | None | 1,212 | LOS C or Better |
| 16 | E F St | S Vulcan Ave | Cornish Dr | Suburban Collector | Collector | 2 | None | 2,379 | LOS C or Better |
| 17 | E Glaucus St | N Vulcan Ave | Hygeia Ave | Residential Neighborway | Local | 2 | None | 1,332 | LOS C or Better |
| 18 | E Glaucus St | Hygeia Ave | Hymettus Ave | Residential Neighborway | Local | 2 | None | 1,705 | LOS C or Better |
| 19 | E Glaucus St | Hymettus Ave | Orpheus Ave | Residential Neighborway | Local | 2 | None | 334 | LOS C or Better |
| 20 | Edinburg Ave* | Liverpool Dr | Chesterfield Dr | Residential Neighborway | Local | 2 | None | 521 | LOS C or Better |
| 21 | El Camino Del Norte | City Boundary | Rancho Santa Fe Rd | Rural Collector | Collector | 2 | None | 8,435 | LOS E |
| 22 | El Camino Real | City Boundary | Leucadia Blvd | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 27,150 | LOS C or Better |
| 23 | El Camino Real | Leucadia Blvd | Encinitas Blvd | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 31,492 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|----------------|-----------------------------------|---------------------|-------------------------------------|--------------------|-------|--------|--------|-----------------|
| 24 | El Camino Real | Encinitas Blvd | Crest Dr | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 26,550 | LOS C or Better |
| 25 | El Camino Real | Crest Dr | Manchester Ave | Suburban Connector (Prime Arterial) | Prime Arterial | 6 | Median | 25,653 | LOS C or Better |
| 26 | El Portal St* | La Mesa Ave | La Veta Ave | Residential Neighborway | Local | 2 | None | 801 | LOS C or Better |
| 27 | El Portal St* | La Veta Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,239 | LOS C or Better |
| 28 | Encinitas Blvd | N Coast Highway 101 | I-5 | Suburban Connector (Major Arterial) | Major Arterial | 4 | TWLTL | 26,138 | LOS E |
| 29 | Encinitas Blvd | I-5 | Calle Magdalena | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 32,391 | LOS D |
| 30 | Encinitas Blvd | Calle Magdalena | Westlake St | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 26,121 | LOS C or Better |
| 31 | Encinitas Blvd | Westlake St | N El Camino Real | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 22,454 | LOS C or Better |
| 32 | Encinitas Blvd | N El Camino Real | Rancho Santa Fe Rd | Suburban Connector (Major Arterial) | Major Arterial | 4 | TWLTL | 21,192 | LOS D |
| 33 | Garden View Rd | City Limits | El Camino Real | Suburban Collector | Collector | 4 | Median | 9,352 | LOS C or Better |
| 34 | Garden View Rd | El Camino Real | Garden View Ct | Suburban Collector | Collector | 4 | TWLTL | 9,844 | LOS C or Better |
| 35 | Garden View Rd | Garden View Ct | Glen Arbor Dr | Suburban Collector | Collector | 2 | None | 6,577 | LOS D |
| 36 | Glen Arbor Dr | Garden View Rd | Willowspring Dr | Residential Neighborway | Local | 1 | None | 1,509 | LOS C or Better |
| 37 | Glen Arbor Dr | Willowspring Dr | Mountain Vista Dr | Residential Neighborway | Local | 1 | None | 653 | LOS C or Better |
| 38 | Glen Arbor Dr | Mountain Vista Dr | N Willowspring Dr | Residential Neighborway | Local | 1 | None | 402 | LOS C or Better |
| 39 | Grandview St* | Neptune Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,261 | LOS C or Better |
| 40 | Hymettus Ave | E Glaucus St | E Glaucus St | Residential Neighborway | Local | 2 | None | 713 | LOS C or Better |
| 41 | La Costa Ave | N Coast Highway 101/Carlsbad Blvd | Piraeus St | Urban Village Collector | Collector | 4 | Median | 21,354 | LOS C or Better |
| 42 | La Costa Ave | Piraeus St | City Boundary | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 37,235 | LOS E |
| 43 | Lake Dr | Santa Fe Dr | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,278 | LOS D |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|---------------------|---------------------|--------------------|--|--------------------|-------|--------|--------|-----------------|
| 44 | Leucadia Blvd | N Coast Highway 101 | Orpheus Ave | Urban Village Collector | Collector | 2 | TWLTL | 6,024 | LOS C or Better |
| 45 | Leucadia Blvd | Orpheus Ave | N El Camino Real | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 23,174 | LOS C or Better |
| 46 | Liverpool Dr* | Edinburg Ave | Mackinnon Ave | Residential Neighborway | Local | 2 | None | 369 | LOS C or Better |
| 47 | Lone Jack Rd | Rancho Santa Fe Rd | Lone Hill Ln | Residential Neighborway | Local | 2 | None | 4,540 | LOS C or Better |
| 48 | Mackinnon Ave | Santa Fe Dr | I-Villa Cardiff Dr | Suburban Collector | Collector | 2 | None | 9,100 | LOS E |
| 49 | Mackinnon Ave | Villa Cardiff Dr | Birmingham Dr | Suburban Collector | Collector | 2 | None | 4,920 | LOS C or Better |
| 50 | Mackinnon Ave | Birmingham Dr | Liverpool Dr | Residential Neighborway | Local | 2 | None | 4,501 | LOS C or Better |
| 51 | Manchester Ave | Rossini Dr | San Elijo Ave | Residential Neighborway | Local | 2 | None | 979 | LOS C or Better |
| 52 | Manchester Ave | San Elijo Ave | I-5 | Urban Village Collector | Collector | 2 | None | 5,979 | LOS D |
| 53 | Manchester Ave | I-5 | El Camino Real | Suburban Connector (Prime Arterial) | Prime Arterial | 6 | Median | 31,464 | LOS C or Better |
| 54 | Manchester Ave | El Camino Real | Encinitas Blvd | Rural Collector | Collector | 2 | None | 7,878 | LOS E |
| 55 | Melba Rd | Cornish Dr | Stratford Dr | Residential Neighborway | Local | 2 | None | 1,007 | LOS C or Better |
| 56 | Melba Rd | Regal Rd | Bonita Dr | Residential Neighborway | Local | 2 | None | 1,925 | LOS C or Better |
| 57 | Melba Rd | Bonita Dr | Balour Dr | Residential Neighborway | Local | 2 | None | 3,354 | LOS C or Better |
| 58 | Melba Rd | Balour Dr | Crest Dr | Residential Neighborway | Local | 2 | None | 644 | LOS C or Better |
| 59 | Montgomery Ave | Rossini Dr | Westminster Rd | Residential Neighborway | Local | 2 | None | 2,877 | LOS C or Better |
| 60 | Mountain Vista Dr | N El Camino Real | Village Park Way | Suburban Collector | Collector | 2 | TWLTL | 5,333 | LOS C or Better |
| 61 | Mountain Vista Dr | Village Park Way | Glen Arbor Dr | Suburban Collector | Collector | 2 | TWLTL | 1,090 | LOS C or Better |
| 62 | Mountain Vista Dr | Glen Arbor Dr | N Willowspring Dr | Suburban Collector | Collector | 2 | TWLTL | 763 | LOS C or Better |
| 63 | Mozart Ave* | Montgomery Ave | San Elijo Ave | Residential Neighborway | Local | 2 | None | 266 | LOS C or Better |
| 64 | N Coast Highway 101 | La Costa Ave | Encinitas Blvd | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | Median | 14,080 | LOS C or Better |
| 65 | N El Portal St* | El Portal St | Neptune Ave | Residential Neighborway | Local | 2 | None | 258 | LOS C or Better |
| 66 | N Vulcan Ave | La Costa Ave | Encinitas Blvd | Urban Village Collector | Collector | 2 | None | 5,745 | LOS D |
| 67 | Nardo Rd | Requeza St | Santa Fe Dr | Suburban Collector | Collector | 2 | None | 3,226 | LOS C or Better |
| 68 | Neptune Ave* | Grandview St | Sylvia St | Residential Neighborway | Local | 1 | None | 834 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|----------------------|---------------------------------|---------------------------------|--|--------------------|-------|--------|--------|-----------------|
| 69 | Olivenhain Rd | N El Camino Real | City Boundary | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 38,290 | LOS E |
| 70 | Orpheus Ave | E Glaucus Rd | N Vulcan Ave | Residential Neighborway | Local | 2 | None | 2,295 | LOS C or Better |
| 71 | Piraeus St | Glaucus St | Leucadia Blvd | Suburban Collector | Collector | 2 | None | 3,286 | LOS C or Better |
| 72 | Puebla St * | Clark Ave | Del Rio Ave | Residential Neighborway | Local | 2 | None | 211 | LOS C or Better |
| 73 | Puebla St | Del Rio Ave | Saxony Rd | Residential Neighborway | Local | 2 | None | 1,412 | LOS C or Better |
| 74 | Quail Gardens Dr | Swallowtail Blvd | Encinitas Blvd | Suburban Collector | Collector | 2 | Median | 7,482 | LOS C or Better |
| 75 | Quail Hollow Dr | Saxony Rd | Swallowtail Blvd | Suburban Collector | Collector | 2 | None | 1,698 | LOS C or Better |
| 76 | Rancho Santa Fe Rd | N City Boundary | El Camino del Norte | Rural Collector | Collector | 4 | None | 17,465 | LOS F |
| 77 | Rancho Santa Fe Rd | El Camino del Norte | Manchester Ave | Rural Collector | Collector | 2 | None | 14,162 | LOS F |
| 78 | Regal Rd | Requeza St | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 6,692 | LOS D |
| 79 | Requeza St | Nardo Rd | Dead End | Residential Neighborway | Local | 2 | None | 1,192 | LOS C or Better |
| 80 | Requeza St | Cornish Dr | I-5 | Suburban Collector | Collector | 2 | None | 2,459 | LOS C or Better |
| 81 | Requeza St | I-5 | Nardo Rd | Suburban Collector | Collector | 2 | None | 4,143 | LOS C or Better |
| 82 | Rossini Dr* | Montgomery Ave | Manchester Ave | Residential Neighborway | Local | 2 | None | 402 | LOS C or Better |
| 83 | S Coast Highway 101 | Encinitas Blvd | W F St | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | None | 14,921 | LOS C or Better |
| 84 | S Coast Highway 101 | W F St | W K St | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | TWLTL | 9,920 | LOS C or Better |
| 85 | S Coast Highway 101 | W K St | San Elijo State Beach/Verdi Ave | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | Median | 10,874 | LOS C or Better |
| 86 | S Coast Highway 101 | San Elijo State Beach/Verdi Ave | City Boundary | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | Median | 19,138 | LOS C or Better |
| 87 | S El Portal St* | El Portal St | Neptune Ave | Residential Neighborway | Local | 2 | None | 287 | LOS C or Better |
| 88 | S Rancho Santa Fe Rd | Encinitas Blvd | City Bounday | Rural Collector | Collector | 2 | None | 25,390 | LOS F |
| 89 | S San Elijo Ave | Santa Fe Dr | Cornish Dr | Urban Village Collector | Collector | 2 | None | 3,029 | LOS C or Better |
| 90 | S Vulcan Ave | E St | Encinitas Blvd | Urban Village Collector | Collector | 2 | None | 12,545 | LOS F |
| 91 | S Vulcan Ave | Encinitas Blvd | Santa Fe Dr | Urban Village Collector | Collector | 2 | None | 9,277 | LOS E |
| 92 | S Willowspring Dr | S El Camino Real | Encinitas Blvd | Residential Neighborway | Local | 2 | None | 3,434 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|-----|------------------|-------------------|---------------------|-------------------------|--------------------|-------|--------|--------|-----------------|
| 93 | San Elijo Ave | Santa Fe Dr | Chesterfield Dr | Urban Village Collector | Collector | 2 | None | 5,629 | LOS D |
| 94 | San Elijo Ave | Chesterfield Dr | Kilkenny Dr | Urban Village Collector | Collector | 2 | None | 1,376 | LOS C or Better |
| 95 | San Elijo Ave | Kilkenny Dr | Manchester Ave | Urban Village Collector | Collector | 2 | None | 1,376 | LOS C or Better |
| 96 | Santa Fe Dr | I-5 | Gardena Rd | Suburban Collector | Collector | 2 | TWLTL | 16,963 | LOS F |
| 97 | Santa Fe Dr | Gardena Rd | Nardo Rd | Suburban Collector | Collector | 2 | TWLTL | 9,325 | LOS C or Better |
| 98 | Santa Fe Dr | Nardo Rd | Lake Dr | Suburban Collector | Collector | 2 | TWLTL | 9,777 | LOS C or Better |
| 99 | Santa Fe Dr | Lake Dr | S El Camino Real | Suburban Collector | Collector | 2 | TWLTL | 8,298 | LOS C or Better |
| 100 | Santa Fe Dr | S San Elijo Ave | Rubenstein Ave | Urban Village Collector | Collector | 2 | None | 7,920 | LOS E |
| 101 | Santa Fe Dr | Rubenstein Ave | I-5 | Urban Village Collector | Collector | 2 | TWLTL | 11,714 | LOS D |
| 102 | Saxony Rd | La Costa Ave | Encinitas Blvd | Suburban Collector | Collector | 2 | None | 8,089 | LOS E |
| 103 | Second St | W D St | W K St | Residential Neighborway | Local | 2 | None | 4,557 | LOS C or Better |
| 104 | Stratford Dr | E D St | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 1,117 | LOS C or Better |
| 105 | Summit Ave | Santa Fe Dr | Westminster Rd | Residential Neighborway | Local | 2 | None | 1,395 | LOS C or Better |
| 106 | Sylvia St* | Neptune Ave | Third St | Residential Neighborway | Local | 2 | None | 702 | LOS C or Better |
| 107 | Third St | W K St | W B St | Residential Neighborway | Local | 2 | None | 2,373 | LOS C or Better |
| 108 | Third St | W B St | Sylvia St | Residential Neighborway | Local | 2 | None | 904 | LOS C or Better |
| 109 | Via Cantebria | Garden View Dr | Encinitas Blvd | Suburban Collector | Collector | 4 | TWLTL | 15,484 | LOS D |
| 110 | Via Molena | Via Cantebria | El Camino Real | Residential Neighborway | Local | 2 | None | 5,634 | LOS D |
| 111 | Via Montoro | El Camino Real | Via Cantebria | Residential Neighborway | Local | 2 | None | 1,572 | LOS C or Better |
| 112 | Villa Cardiff Dr | Mackinnon Ave | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,791 | LOS D |
| 113 | Village Park Way | Mountain Vista Dr | Encinitas Blvd | Suburban Collector | Collector | 4 | Median | 7,479 | LOS C or Better |
| 114 | W B St | Third St | N Coast Highway 101 | Urban Village Collector | Collector | 2 | None | 5,484 | LOS D |
| 115 | W D St | Third St | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 4,332 | LOS C or Better |
| 116 | W K St | Third St | S Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,612 | LOS C or Better |
| 117 | W Leucadia Blvd | Neptune Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 640 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|-----|-----------------|-------------------|-------------------|-------------------------|--------------------|-------|--------|--------|-----------------|
| 118 | Wandering Rd | N Willowspring Dr | Mountain Vista Dr | Residential Neighborway | Local | 2 | None | 1,483 | LOS C or Better |
| 119 | Westlake St | Encinitas Blvd | Requeza St | Suburban Collector | Collector | 2 | None | 10,739 | LOS F |
| 120 | Westminster Dr | Summit Ave | Montgomery Ave | Residential Neighborway | Local | 2 | None | 1,495 | LOS C or Better |
| 121 | Willowspring Dr | Glen Arbor Dr | Glen Arbor Dr | Residential Neighborway | Local | 2 | None | 4,717 | LOS C or Better |
| 122 | Willowspring Dr | Glen Arbor Dr | Encinitas Blvd | Residential Neighborway | Local | 2 | None | 1,770 | LOS C or Better |
| 123 | Willowspring Dr | Garden View Rd | Glen Arbor Dr | Residential Neighborway | Local | 1 | None | 1,447 | LOS C or Better |
| 124 | Willowspring Dr | Glen Arbor Dr | Mountain Vista Dr | Residential Neighborway | Local | 1 | None | 1,616 | LOS C or Better |
| 125 | Willowspring Dr | Mountain Vista Dr | Red Gap Court | Residential Neighborway | Local | 1 | None | 664 | LOS C or Better |
| 126 | Windsor Rd | Santa Fe Dr | Munevar Rd | Residential Neighborway | Local | 2 | None | 2,309 | LOS C or Better |
| 127 | Windsor Rd | Munevar Rd | Villa Cardiff Dr | Residential Neighborway | Local | 2 | None | 2,363 | LOS C or Better |
| 128 | Woodlake Dr | Windsor Rd | Lake Dr | Residential Neighborway | Local | 2 | None | 279 | LOS C or Better |

*: ADT data was obtained through a 24-hour data collection process for these segments. This was necessary because the model does not provide ADT for some local residential roadway segments.

In the 2050np and 2050wp scenarios, the average growth rates for segments with the same classification were applied.



Table 10: Roadway LOS Results - Future Baseline 2050 w/Adopted Housing Elements and Mobility Element

| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|---------------------|------------------------|------------------------|----------------------------------|--------------------|-------|--------|--------|-----------------|
| 1 | Balour Dr | Encinitas Blvd | Melba Rd | Suburban Collector | Collector | 2 | TWLTL | 12,747 | LOS D |
| 2 | Balour Dr | Melba Rd | Santa Fe Dr | Suburban Collector | Collector | 2 | None | 7,458 | LOS D |
| 3 | Birmingham Dr | San Elijo Ave | Carol View Dr | Urban Village Collector | Collector | 2 | None | 12,243 | LOS F |
| 4 | Birmingham Dr | Carol View Dr | Villa Cardiff Dr | Urban Village Collector | Collector | 2 | None | 15,142 | LOS F |
| 5 | Birmingham Dr | Villa Cardiff Dr | Lake Dr | Suburban Collector | Collector | 2 | None | 8,349 | LOS E |
| 6 | Bonita Dr | Requeza St | Melba Rd | Residential Neighborway | Local | 2 | None | 1,395 | LOS C or Better |
| 7 | Bonita Dr | Melba Rd | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 1,811 | LOS C or Better |
| 8 | Cerro St | Encinitas Blvd | Avenida De Las Adelsas | Residential Neighborway | Local | 2 | Median | 2,963 | LOS C or Better |
| 9 | Cerro St | Avenida De Las Adelsas | S El Camino Real | Residential Neighborway | Local | 2 | TWLTL | 2,895 | LOS C or Better |
| 10 | Chesterfield Dr | S Coast Highway 101 | Oxford Ave | Residential Neighborway | Local | 2 | None | 5,123 | LOS D |
| 11 | Chesterfield Dr* | Oxford Ave | Edinburg Ave | Residential Neighborway | Local | 2 | None | 493 | LOS C or Better |
| 12 | Clark Ave | Leucadia Blvd | Puebla St | Residential Neighborway | Local | 2 | None | 2,819 | LOS C or Better |
| 13 | Cornish Dr | E D St | San Elijo Ave | Residential Neighborway | Local | 2 | None | 465 | LOS C or Better |
| 14 | Crest Dr | Santa Fe Dr | Melba Rd | Residential Neighborway | Local | 2 | None | 649 | LOS C or Better |
| 15 | E D St | S Coast Highway 101 | Stratford Dr | Residential Neighborway | Local | 2 | None | 1,223 | LOS C or Better |
| 16 | E F St | S Vulcan Ave | Cornish Dr | Suburban Collector | Collector | 2 | None | 2,371 | LOS C or Better |
| 17 | E Glaucus St | N Vulcan Ave | Hygeia Ave | Residential Neighborway | Local | 2 | None | 1,314 | LOS C or Better |
| 18 | E Glaucus St | Hygeia Ave | Hymettus Ave | Residential Neighborway | Local | 2 | None | 1,706 | LOS C or Better |
| 19 | E Glaucus St | Hymettus Ave | Orpheus Ave | Residential Neighborway | Local | 2 | None | 357 | LOS C or Better |
| 20 | Edinburg Ave* | Liverpool Dr | Chesterfield Dr | Residential Neighborway | Local | 2 | None | 526 | LOS C or Better |
| 21 | El Camino Del Norte | City Boundary | Rancho Santa Fe Rd | Rural Collector | Collector | 2 | None | 8,282 | LOS E |
| 22 | El Camino Real | City Boundary | Leucadia Blvd | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 26,809 | LOS C or Better |
| 23 | El Camino Real | Leucadia Blvd | Encinitas Blvd | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 31,261 | LOS C or Better |
| 24 | El Camino Real | Encinitas Blvd | Crest Dr | El Camino Real Suburban Corridor | Prime Arterial | 6 | Median | 26,558 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|----------------|---------------------|---------------------|-------------------------------------|--------------------|-------|--------|--------|-----------------|
| 25 | El Camino Real | Crest Dr | Manchester Ave | Suburban Connector (Prime Arterial) | Prime Arterial | 6 | Median | 25,597 | LOS C or Better |
| 26 | El Portal St* | La Mesa Ave | La Veta Ave | Residential Neighborway | Local | 2 | None | 808 | LOS C or Better |
| 27 | El Portal St* | La Veta Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,249 | LOS C or Better |
| 28 | Encinitas Blvd | N Coast Highway 101 | I-5 | Suburban Connector (Major Arterial) | Major Arterial | 4 | TWLTL | 26,123 | LOS E |
| 29 | Encinitas Blvd | I-5 | Calle Magdalena | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 32,681 | LOS D |
| 30 | Encinitas Blvd | Calle Magdalena | Westlake St | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 26,209 | LOS C or Better |
| 31 | Encinitas Blvd | Westlake St | N El Camino Real | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 22,576 | LOS C or Better |
| 32 | Encinitas Blvd | N El Camino Real | Rancho Santa Fe Rd | Suburban Connector (Major Arterial) | Major Arterial | 4 | TWLTL | 21,278 | LOS D |
| 33 | Garden View Rd | City Limits | El Camino Real | Suburban Collector | Collector | 4 | Median | 9,501 | LOS C or Better |
| 34 | Garden View Rd | El Camino Real | Garden View Ct | Suburban Collector | Collector | 4 | TWLTL | 9,902 | LOS C or Better |
| 35 | Garden View Rd | Garden View Ct | Glen Arbor Dr | Suburban Collector | Collector | 2 | None | 6,543 | LOS D |
| 36 | Glen Arbor Dr | Garden View Rd | Willowspring Dr | Residential Neighborway | Local | 1 | None | 1,506 | LOS C or Better |
| 37 | Glen Arbor Dr | Willowspring Dr | Mountain Vista Dr | Residential Neighborway | Local | 1 | None | 639 | LOS C or Better |
| 38 | Glen Arbor Dr | Mountain Vista Dr | N Willowspring Dr | Residential Neighborway | Local | 1 | None | 399 | LOS C or Better |
| 39 | Grandview St* | Neptune Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,272 | LOS C or Better |
| 40 | Hymettus Ave | E Glaucus St | E Glaucus St | Residential Neighborway | Local | 2 | None | 746 | LOS C or Better |
| 41 | La Costa Ave | 1 | Piraeus St | Urban Village Collector | Collector | 2 | Median | 21,550 | LOS F |
| 42 | La Costa Ave | Piraeus St | City Boundary | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 37,628 | LOS E |
| 43 | Lake Dr | Santa Fe Dr | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,141 | LOS D |
| 44 | Leucadia Blvd | N Coast Highway 101 | Orpheus Ave | Urban Village Collector | Collector | 2 | TWLTL | 5,915 | LOS C or Better |
| 45 | Leucadia Blvd | Orpheus Ave | N El Camino Real | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 23,196 | LOS C or Better |
| 46 | Liverpool Dr* | Edinburg Ave | Mackinnon Ave | Residential Neighborway | Local | 2 | None | 372 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|---------------------|--------------------|--------------------|--|--------------------|-------|--------|--------|-----------------|
| 47 | Lone Jack Rd | Rancho Santa Fe Rd | Lone Hill Ln | Residential Neighborway | Local | 2 | None | 4,402 | LOS C or Better |
| 48 | Mackinnon Ave | Santa Fe Dr | I-Villa Cardiff Dr | Suburban Collector | Collector | 2 | None | 8,863 | LOS E |
| 49 | Mackinnon Ave | Villa Cardiff Dr | Birmingham Dr | Suburban Collector | Collector | 2 | None | 4,744 | LOS C or Better |
| 50 | Mackinnon Ave | Birmingham Dr | Liverpool Dr | Residential Neighborway | Local | 2 | None | 4,578 | LOS C or Better |
| 51 | Manchester Ave | Rossini Dr | San Elijo Ave | Residential Neighborway | Local | 2 | None | 943 | LOS C or Better |
| 52 | Manchester Ave | San Elijo Ave | I-5 | Urban Village Collector | Collector | 2 | None | 5,936 | LOS D |
| 53 | Manchester Ave | I-5 | El Camino Real | Suburban Connector (Prime Arterial) | Prime Arterial | 4 | Median | 31,351 | LOS C or Better |
| 54 | Manchester Ave | El Camino Real | Encinitas Blvd | Rural Collector | Collector | 2 | None | 7,825 | LOS E |
| 55 | Melba Rd | Cornish Dr | Stratford Dr | Residential Neighborway | Local | 2 | None | 1,002 | LOS C or Better |
| 56 | Melba Rd | Regal Rd | Bonita Dr | Residential Neighborway | Local | 2 | None | 1,972 | LOS C or Better |
| 57 | Melba Rd | Bonita Dr | Balour Dr | Residential Neighborway | Local | 2 | None | 3,393 | LOS C or Better |
| 58 | Melba Rd | Balour Dr | Crest Dr | Residential Neighborway | Local | 2 | None | 674 | LOS C or Better |
| 59 | Montgomery Ave | Rossini Dr | Westminster Rd | Residential Neighborway | Local | 2 | None | 2,952 | LOS C or Better |
| 60 | Mountain Vista Dr | N El Camino Real | Village Park Way | Suburban Collector | Collector | 2 | TWLTL | 5,454 | LOS C or Better |
| 61 | Mountain Vista Dr | Village Park Way | Glen Arbor Dr | Suburban Collector | Collector | 2 | TWLTL | 1,056 | LOS C or Better |
| 62 | Mountain Vista Dr | Glen Arbor Dr | N Willowspring Dr | Suburban Collector | Collector | 2 | TWLTL | 701 | LOS C or Better |
| 63 | Mozart Ave* | Montgomery Ave | San Elijo Ave | Residential Neighborway | Local | 2 | None | 268 | LOS C or Better |
| 64 | N Coast Highway 101 | La Costa Ave | Encinitas Blvd | Coast Highway 101 Urban Village Corridor | Major Arterial | 2 | Median | 14,123 | LOS C or Better |
| 65 | N El Portal St* | El Portal St | Neptune Ave | Residential Neighborway | Local | 2 | None | 260 | LOS C or Better |
| 66 | N Vulcan Ave | La Costa Ave | Encinitas Blvd | Urban Village Collector | Collector | 2 | None | 5,713 | LOS D |
| 67 | Nardo Rd | Requeza St | Santa Fe Dr | Suburban Collector | Collector | 2 | None | 3,206 | LOS C or Better |
| 68 | Neptune Ave* | Grandview St | Sylvia St | Residential Neighborway | Local | 1 | None | 841 | LOS C or Better |
| 69 | Olivenhain Rd | N El Camino Real | City Boundary | Suburban Connector (Major Arterial) | Major Arterial | 4 | Median | 38,341 | LOS E |
| 70 | Orpheus Ave | E Glaucus Rd | N Vulcan Ave | Residential Neighborway | Local | 2 | None | 2,315 | LOS C or Better |
| 71 | Piraeus St | Glaucus St | Leucadia Blvd | Suburban Collector | Collector | 2 | None | 3,278 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|----|----------------------|---------------------------------|---------------------------------|--|--------------------|-------|--------|--------|-----------------|
| 72 | Puebla St * | Clark Ave | Del Rio Ave | Residential Neighborway | Local | 2 | None | 212 | LOS C or Better |
| 73 | Puebla St | Del Rio Ave | Saxony Rd | Residential Neighborway | Local | 2 | None | 1,442 | LOS C or Better |
| 74 | Quail Gardens Dr | Swallowtail Blvd | Encinitas Blvd | Suburban Collector | Collector | 2 | Median | 7,533 | LOS C or Better |
| 75 | Quail Hollow Dr | Saxony Rd | Swallowtail Blvd | Suburban Collector | Collector | 2 | None | 1,727 | LOS C or Better |
| 76 | Rancho Santa Fe Rd | N City Boundary | El Camino del Norte | Rural Collector | Collector | 2 | None | 17,329 | LOS F |
| 77 | Rancho Santa Fe Rd | El Camino del Norte | Manchester Ave | Rural Collector | Collector | 2 | None | 14,129 | LOS F |
| 78 | Regal Rd | Requeza St | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 6,702 | LOS D |
| 79 | Requeza St | Nardo Rd | Dead End | Residential Neighborway | Local | 2 | None | 1,167 | LOS C or Better |
| 80 | Requeza St | Cornish Dr | I-5 | Suburban Collector | Collector | 2 | None | 2,427 | LOS C or Better |
| 81 | Requeza St | I-5 | Nardo Rd | Suburban Collector | Collector | 2 | None | 4,138 | LOS C or Better |
| 82 | Rossini Dr* | Montgomery Ave | Manchester Ave | Residential Neighborway | Local | 2 | None | 405 | LOS C or Better |
| 83 | S Coast Highway 101 | Encinitas Blvd | W F St | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | None | 14,843 | LOS C or Better |
| 84 | S Coast Highway 101 | W F St | W K St | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | TWLTL | 9,930 | LOS C or Better |
| 85 | S Coast Highway 101 | W K St | San Elijo State Beach/Verdi Ave | Coast Highway 101 Urban Village Corridor | Major Arterial | 2 | Median | 10,776 | LOS C or Better |
| 86 | S Coast Highway 101 | San Elijo State Beach/Verdi Ave | City Boundary | Coast Highway 101 Urban Village Corridor | Major Arterial | 4 | Median | 19,171 | LOS C or Better |
| 87 | S El Portal St* | El Portal St | Neptune Ave | Residential Neighborway | Local | 2 | None | 289 | LOS C or Better |
| 88 | S Rancho Santa Fe Rd | Encinitas Blvd | City Bounday | Rural Collector | Collector | 2 | None | 25,618 | LOS F |
| 89 | S San Elijo Ave | Santa Fe Dr | Cornish Dr | Urban Village Collector | Collector | 2 | None | 3,005 | LOS C or Better |
| 90 | S Vulcan Ave | E St | Encinitas Blvd | Urban Village Collector | Collector | 2 | None | 12,429 | LOS F |
| 91 | S Vulcan Ave | Encinitas Blvd | Santa Fe Dr | Urban Village Collector | Collector | 2 | None | 9,317 | LOS E |
| 92 | S Willowspring Dr | S El Camino Real | Encinitas Blvd | Residential Neighborway | Local | 2 | None | 3,391 | LOS C or Better |
| 93 | San Elijo Ave | Santa Fe Dr | Chesterfield Dr | Urban Village Collector | Collector | 2 | None | 5,538 | LOS D |
| 94 | San Elijo Ave | Chesterfield Dr | Kilkenny Dr | Urban Village Collector | Collector | 2 | None | 1,356 | LOS C or Better |
| 95 | San Elijo Ave | Kilkenny Dr | Manchester Ave | Urban Village Collector | Collector | 2 | None | 1,356 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|-----|------------------|-------------------|---------------------|-------------------------|--------------------|-------|--------|--------|-----------------|
| 96 | Santa Fe Dr | I-5 | Gardena Rd | Suburban Collector | Collector | 2 | TWLTL | 17,279 | LOS F |
| 97 | Santa Fe Dr | Gardena Rd | Nardo Rd | Suburban Collector | Collector | 2 | TWLTL | 9,419 | LOS C or Better |
| 98 | Santa Fe Dr | Nardo Rd | Lake Dr | Suburban Collector | Collector | 2 | TWLTL | 9,664 | LOS C or Better |
| 99 | Santa Fe Dr | Lake Dr | S El Camino Real | Suburban Collector | Collector | 2 | TWLTL | 8,211 | LOS C or Better |
| 100 | Santa Fe Dr | S San Elijo Ave | Rubenstein Ave | Urban Village Collector | Collector | 2 | None | 7,946 | LOS E |
| 101 | Santa Fe Dr | Rubenstein Ave | I-5 | Urban Village Collector | Collector | 2 | TWLTL | 11,835 | LOS D |
| 102 | Saxony Rd | La Costa Ave | Encinitas Blvd | Suburban Collector | Collector | 2 | None | 8,089 | LOS E |
| 103 | Second St | W D St | W K St | Residential Neighborway | Local | 2 | None | 4,468 | LOS C or Better |
| 104 | Stratford Dr | E D St | Santa Fe Dr | Residential Neighborway | Local | 2 | None | 1,128 | LOS C or Better |
| 105 | Summit Ave | Santa Fe Dr | Westminster Rd | Residential Neighborway | Local | 2 | None | 1,346 | LOS C or Better |
| 106 | Sylvia St* | Neptune Ave | Third St | Residential Neighborway | Local | 2 | None | 708 | LOS C or Better |
| 107 | Third St | W K St | W B St | Residential Neighborway | Local | 2 | None | 2,303 | LOS C or Better |
| 108 | Third St | W B St | Sylvia St | Residential Neighborway | Local | 2 | None | 865 | LOS C or Better |
| 109 | Via Cantabria | Garden View Dr | Encinitas Blvd | Suburban Collector | Collector | 4 | TWLTL | 15,636 | LOS D |
| 110 | Via Molena | Via Cantabria | El Camino Real | Residential Neighborway | Local | 2 | None | 5,694 | LOS D |
| 111 | Via Montoro ** | El Camino Real | Via Cantabria | Residential Neighborway | Local | 2 | None | 1,531 | LOS C or Better |
| 112 | Villa Cardiff Dr | Mackinnon Ave | Birmingham Dr | Suburban Collector | Collector | 2 | None | 5,758 | LOS D |
| 113 | Village Park Way | Mountain Vista Dr | Encinitas Blvd | Suburban Collector | Collector | 4 | Median | 7,424 | LOS C or Better |
| 114 | W B St | Third St | N Coast Highway 101 | Urban Village Collector | Collector | 2 | None | 5,379 | LOS D |
| 115 | W D St | Third St | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 4,246 | LOS C or Better |
| 116 | W K St | Third St | S Coast Highway 101 | Residential Neighborway | Local | 2 | None | 1,558 | LOS C or Better |
| 117 | W Leucadia Blvd | Neptune Ave | N Coast Highway 101 | Residential Neighborway | Local | 2 | None | 694 | LOS C or Better |
| 118 | Wandering Rd | N Willowspring Dr | Mountain Vista Dr | Residential Neighborway | Local | 2 | None | 1,493 | LOS C or Better |
| 119 | Westlake St | Encinitas Blvd | Requeza St | Suburban Collector | Collector | 2 | None | 10,816 | LOS F |
| 120 | Westminster Dr | Summit Ave | Montgomery Ave | Residential Neighborway | Local | 2 | None | 1,521 | LOS C or Better |
| 121 | Willowspring Dr | Glen Arbor Dr | Glen Arbor Dr | Residential Neighborway | Local | 2 | None | 4,644 | LOS C or Better |
| 122 | Willowspring Dr | Glen Arbor Dr | Encinitas Blvd | Residential Neighborway | Local | 2 | None | 1,757 | LOS C or Better |



| ID | Street Name | Bound 1 | Bound 2 | Classification | Vehicular Function | Lanes | Median | ADT | LOS |
|-----|-----------------|-------------------|-------------------|-------------------------|--------------------|-------|--------|-------|-----------------|
| 123 | Willowspring Dr | Garden View Rd | Glen Arbor Dr | Residential Neighborway | Local | 1 | None | 1,397 | LOS C or Better |
| 124 | Willowspring Dr | Glen Arbor Dr | Mountain Vista Dr | Residential Neighborway | Local | 1 | None | 1,595 | LOS C or Better |
| 125 | Willowspring Dr | Mountain Vista Dr | Red Gap Court | Residential Neighborway | Local | 1 | None | 657 | LOS C or Better |
| 126 | Windsor Rd | Santa Fe Dr | Munevar Rd | Residential Neighborway | Local | 2 | None | 2,300 | LOS C or Better |
| 127 | Windsor Rd | Munevar Rd | Villa Cardiff Dr | Residential Neighborway | Local | 2 | None | 2,388 | LOS C or Better |
| 128 | Woodlake Dr | Windsor Rd | Lake Dr | Residential Neighborway | Local | 2 | None | 274 | LOS C or Better |

*: ADT data was obtained through a 24-hour data collection process for these segments. This was necessary because the model does not provide ADT for some local residential roadway segments.

In the 2050np and 2050wp scenarios, the average growth rates for segments with the same classification were applied.