# Appendix K: Isochrone Methodology and Analysis - Existing Condition (2019)

| To:      | San Diego Association of Governments and Caltrans District 11                      |
|----------|--|
| From:    | North County Comprehensive Multimodal Corridor Plan (CMCP) Project Team            |
| Date:    | October 2022   |
| Subject: | North County Comprehensive Multimodal Corridor Plan (CMCP) – Isochrone<br>Analysis |

## **Overview**

The North County Comprehensive Multimodal Corridor Plan (CMCP) will identify integrated transportation solutions that enhance the way people travel throughout North County.

An isochrone is a visualization tool—a geographic shape—that shows the area a traveler can reach within a travel time limit from a specific point of origin. For instance, an isochrone can show the maximum area that can be reached within 30 minutes of a specific location using transit or walking and transit. A series of 30-minute and 60-minute isochrone sheds have been developed and analyzed for the North County Study Area during the PM peak. The isochrone analysis will be valuable in understanding how far existing users of North County can travel utilizing the existing transportation network. This appendix details the methodology and analysis of 13 isochrone origins in the North County study area.

## Methodology

## **STEP 1: ISOCHRONE ORIGIN SELECTION**

Isochrone sheds were developed for the following 13 isochrone origins:

- Barham Dr and Campus Way
- Camp Pendleton Gate (Vandergrift)
- Carlsbad Blvd and Carlsbad Village Dr
- College Blvd and SR 76
- Faraday Ave and El Camino Real
- Felicita Ave and Centre City Pkwy
- Maple St and W Grand Ave
- Oceanside Blvd and Avenida del Oro
- Poinsettia Ave and Business Park Dr
- Via Vera Cruz and San Marcos Blvd
- Vista Village Dr and Santa Fe Ave
- West Lake Dr and San Marcos Blvd
- Wisconsin Ave and Coast Highway



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## **STEP 2: ISOCHRONE DEVELOPMENT**

To develop the transit-walk isochrone sheds, the following parameters were used:

- Time Limit
  - o **30-minute**
  - o 60-minute
- Time Period<sup>1</sup>
  - o PM Peak (4:30 PM, 4:40 PM, 4:50 PM)
- Mode
  - $\circ$   $\,$  Walk and transit
  - Transportation Network<sup>2</sup>
    - o North County Transit District General Transit Feed Specification (GTFS) Feeds
    - Underlying Travel Network from OpenStreetMap

Using the parameters indicated above, three isochrones were developed for each isochrone origin at each specified time limit and period, creating a total of 12 isochrones for each origin. The isochrones for each time period varied in size due to alignment with the specific service times within the GTFS Feed. To understand and analyze the variability in transit access, a high likelihood and low likelihood isochrone was mapped for each origin point:

- The **High Likelihood** isochrone represents the overlap between the isochrones generated for each peak period and most accurately reflects a user's reach within a 30-minute travel period
- The **Low Likelihood** isochrone represents how far a user could go if they began their trip at a time that is more aligned with North County's existing transportation network schedule.

To develop the auto isochrone shed, the following parameters were used:

- Time Limit
  - $\circ$  30-minute
  - o 60-minute
- Time Period
  - PM Peak (4:30 PM)

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- Mode
  - o Auto

Using the parameters indicated above, one isochrone was developed for each isochrone origin at each specified time limit and period. The isochrones were generated using HERE's Real-Time Traffic.



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<sup>&</sup>lt;sup>1</sup> The travel shed process using the GTFS network requires specific time inputs. To better understand the transit network throughout the peak period, three time periods during peak travel times were used to develop the travel sheds.

<sup>&</sup>lt;sup>2</sup> Note that the transportation network for the isochrone analysis does not include Amtrak services.

## **STEP 3: REACH ANALYSIS**

To understand the destinations within reach for each isochrone origin, the number of users (people), destinations, jobs, housing units, seniors, People of Color, and low-income households were calculated for each isochrone shed.

- Destination Points from SANDAG's Places Shapefile
- Jobs (census block group level) from LEHD LODES Dataset (2018)
- Demographic information (census block group level) from American Community Survey (ACS) 2019 5-Year Estimates
- DS39 demographic information (TAZ level) developed by SANDAG

To capture the number of destinations, people, and jobs accessible within each travel shed, the points and centroids of block groups and TAZs were joined to each isochrone shed. The data for each isochrone shed is summarized in the Isochrone Analysis and Findings section below.

## **Isochrone Analysis and Findings**

This section contains the analysis of the smallest reach and largest reach isochrones generated for each origin point for a 30-minute and 60-minute travel time limit at PM peak. The analysis of each isochrone origin contains a map showing the travel sheds generated and a table summarizing the reach analysis for each isochrone.

The large variation between each of the categories analyzed as part of the reach analysis shows that infrequent transit time significantly impacts a user's accessibility to destinations, housing, and jobs.

## SUMMARY OF 30-MINUTE ISOCHRONE REACH ANALYSIS

**Table 1** summarizes the average of destinations, housing units, jobs, and housing units reached for each of the isochrone origins at 30 minutes and **Table 2** summarizes the variation between the smallest and largest 30-minute isochrones generated for each isochrone origin for various reach factors. The table also displays a ranking for the level of variation for each reach analysis. The highest ranking (1) represents the isochrone origin that generated travel sheds with the greatest number of destinations, housing units, jobs, or population reached or the largest variation for each factor.

#### Destinations

Across all the 30-minute isochrones generated, the high likelihood isochrones reach an average of 63 destinations. The Vista Village Dr and Santa Fe Ave origin point generates isochrones that cover the largest number of destinations (139), while the Camp Pendleton Gate (Vandergrift) origin point generates isochrones that cover the smallest number of destinations (3).

The average variation for destinations within reach between each set of 30-minute isochrones generated is 55. The isochrones generated for Vista Village Dr and Santa Fe Ave resulted in the largest variation for destinations, with the low likelihood isochrone encompassing 244 destinations and the high likelihood isochrone encompassing 139 destinations. Excluding Camp Pendleton (Vandergrift), the isochrones generated for Felicita and Centre City Pkwy resulted in the smallest variation for destinations with the low likelihood isochrone encompassing 93 destinations and the high likelihood isochrone encompassing 66 destinations.



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### Housing Units

Across all the 30-minute isochrones generated, the high likelihood isochrones reach an of 7,348 housing units. The Maple St and W Grand Ave isochrone origin generates isochrones that cover the largest number of housing units (20,974), while the Faraday Ave and El Camino Real isochrone origin generates isochrones that cover the smallest number of housing units (1,399).

The average variation for housing units within reach between each set of 30-minute isochrones generated is 9,517. The isochrones generated for Oceanside Blvd. and Avenida del Oro resulted in the largest variation for housing units, with the high likelihood isochrone encompassing 4,804 housing units and the low likelihood isochrone encompassing 21,537 housing units. Excluding Camp Pendleton (Vandergrift), the isochrones generated for Barham Drive and Campus Way resulted in the smallest variation for housing units with the high likelihood isochrone encompassing 1,912 housing units and the low likelihood isochrone encompassing 5,357 housing units.

#### Jobs

Across all the 30-minute isochrones generated, an average of 7,348 jobs can be reached. The Maple St and W Grand Ave isochrone origin generates isochrones that cover the largest number of jobs (26,937), while the Camp Pendleton (Vandergrift) isochrone origin generates isochrones that cover the smallest number of jobs (1,014).

The average variation for jobs within reach between each set of 30-minute isochrones generated is 15,334. The isochrones generated for Maple St and W Grand Ave resulted in the largest variation for jobs reached, with the high likelihood isochrone encompassing 26,937 jobs and the low likelihood isochrone encompassing 43,274 jobs. Excluding Camp Pendleton (Vandergrift), the isochrones generated for College Blvd. and SR 76 resulted in the smallest variation for jobs with the high likelihood isochrone encompassing 3,953 jobs and the low likelihood isochrone encompassing 11,987 jobs.

#### Population

Across all the 30-minute isochrones generated, an average of 21,442 people can be reached. The Maple St and W Grand Ave isochrone origin generates isochrones that reach the largest number of people (68,945), while the Camp Pendleton (Vandergrift) isochrone origin generates isochrones that reach the smallest number of people (3,437).

The average variation for the population within reach between each set of 30-minute isochrones generated is 25,591. The isochrones generated for Vista Village Dr and Santa Fe Ave resulted in the largest variation for population, with the high likelihood isochrone including 56,779 people and low likelihood isochrone including 103,452 people. Excluding Camp Pendleton (Vandergrift), the isochrones generated for Barham Drive and Campus Way resulted in the smallest variation for population with the high likelihood isochrone including 15,875 people.





| Origin   | Destinations<br>Reached | Rank | Housing<br>Units <sup>1</sup><br>Reached | Rank | Jobs <sup>2</sup><br>Reached | Rank | Population <sup>1</sup><br>Reached | Rank |
|--|-------------------------|------|--|------|------------------------------|------|------------------------------------|------|
| Barham Dr<br>and Campus<br>Way                               | 51                      | 8    | 1,912                                    | 12   | 15,037                       | 8    | 6,050                              | 11   |
| Camp<br>Pendleton<br>Gate<br>(Vandergrift)                   | 3                       | 13   | 2,017                                    | 11   | 1,014                        | 13   | 3,437                              | 13   |
| Carlsbad Blvd<br>and Carlsbad<br>Village Dr                  | 56                      | 6    | 7,846                                    | 4    | 12,780                       | 10   | 14,697                             | 7    |
| College Blvd<br>and SR 76                                    | 30                      | 11   | 7,490                                    | 6    | 3,953                        | 12   | 26,112                             | 4    |
| Faraday Ave<br>and El Camino<br>Real                         | 35                      | 10   | 1,399                                    | 13   | 22,844                       | 2    | 3,911                              | 12   |
| Felicita Ave<br>and Centre<br>City Pkwy                      | 66                      | 4    | 7,749                                    | 5    | 11,312                       | 11   | 24,830                             | 5    |
| Maple St and<br>W Grand Ave                                  | 136                     | 2    | 20,974                                   | 1    | 26,937                       | 1    | 68,945                             | 1    |
| Oceanside<br>Blvd and<br>Avenida del<br>Oro                  | 56                      | 7    | 4,804                                    | 7    | 13,645                       | 9    | 15,852                             | 6    |
| Poinsettia Ave<br>and Business<br>Park Dr                    | 29                      | 12   | 3,636                                    | 8    | 21,485                       | 3    | 9,434                              | 9    |
| Via Vera Cruz<br>and San<br>Marcos Blvd                      | 65                      | 5    | 3,507                                    | 9    | 16,048                       | 6    | 9,116                              | 10   |
| Vista Village<br>Dr and Santa<br>Fe Ave                      | 139                     | 1    | 17,099                                   | 2    | 15,140                       | 7    | 56,779                             | 2    |
| West Lake Dr<br>and San<br>Marcos Blvd                       | 39                      | 9    | 3,122                                    | 10   | 16,653                       | 5    | 11,675                             | 8    |
| Wisconsin Ave<br>and Coast<br>Highway<br>Sources: (1) Americ | 115                     | 3    | 13,974                                   | 3    | 19,959                       | 4    | 27,906                             | 3    |

Sources: (1) American Community Survey (ACS) 2019 5-Year Estimates (2) LEHD LODES Dataset (2018)





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Table 2: Summary of Reach Analysis Variation (30-Minute Isochrones)

| Isochrone<br>Origin  | Destination<br>Variation | Rank | Housing <sup>1</sup><br>Variation | Rank | Jobs <sup>2</sup><br>Variation | Rank | Populati<br>on <sup>1</sup><br>Variation | Rank |
|--|--------------------------|------|-----------------------------------|------|--------------------------------|------|--|------|
| Barham Dr<br>and Campus<br>Way                             | 43                       | 9    | 3,445                             | 12   | 18,136                         | 5    | 9,825                                    | 12   |
| Camp<br>Pendleton<br>Gate*<br>(Vandergrift)                | -                        | 13   | -                                 | 13   | 334                            | 13   | -  | 13   |
| Carlsbad Blvd<br>and Carlsbad<br>Village Dr                | 69                       | 4    | 12,832                            | 5    | 9,582                          | 10   | 25,567                                   | 8    |
| College Blvd<br>and SR 76                                  | 37                       | 11   | 13,707                            | 3    | 8,034                          | 11   | 34,662                                   | 4    |
| Faraday Ave<br>and El Camino<br>Real                       | 40                       | 10   | 11,685                            | 7    | 29,117                         | 2    | 28,523                                   | 6    |
| Felicita Ave<br>and Centre<br>City Pkwy                    | 27                       | 12   | 4,132                             | 11   | 5,258                          | 12   | 11,407                                   | 11   |
| Maple St and<br>W Grand Ave                                | 52                       | 7    | 12,990                            | 4    | 16,337                         | 6    | 37,793                                   | 3    |
| Oceanside<br>Blvd and<br>Avenida del<br>Oro                | 96                       | 2    | 16,733                            | 1    | 18,289                         | 4    | 46,010                                   | 2    |
| Poinsettia Ave<br>and Business<br>Park Dr                  | 85                       | 3    | 9,956                             | 8    | 23,930                         | 3    | 27,728                                   | 7    |
| Via Vera Cruz<br>and San<br>Marcos Blvd                    | 43                       | 8    | 6,570                             | 9    | 14,704                         | 7    | 19,218                                   | 9    |
| Vista Village<br>Dr and Santa<br>Fe Ave                    | 105                      | 1    | 14,167                            | 2    | 29,748                         | 1    | 46,673                                   | 1    |
| West Lake Dr<br>and San<br>Marcos Blvd                     | 56                       | 6    | 4,748                             | 10   | 13,051                         | 8    | 13,268                                   | 10   |
| Wisconsin Ave<br>and Coast<br>Highway<br>Note: *Due to the | 56                       | 5    | 12,761                            | 6    | 12,823                         | 9    | 32,010                                   | 5    |

Note: \*Due to the presence/size of the military base, limited data surrounding the base, and small size of isochrones generated, the lack of variation in the reach analysis does not indicate that the base has more consistent transit facilities.

Sources: (1) American Community Survey (ACS) 2019 5-Year Estimates (2) LEHD LODES Dataset (2018)



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## SUMMARY OF 60-MINUTE ISOCHRONE REACH ANALYSIS

**Table 3** summarizes the average of destinations, housing units, jobs, and housing units reached for each of the isochrone origins at 60 minutes.

**Table** 4 summarizes the variation between the smallest and largest 60-minute isochrones generated for each isochrone origin for various reach factors. The table also displays a ranking for the level of variation for each reach analysis. The highest ranking (1) represents the isochrone origin that generated travel sheds with the greatest number of destinations, housing units, jobs, or population reached or the largest variation for each factor.

#### **Destinations**

Across all the 60-minute isochrones generated, the high likelihood isochrones reach an average of 289 destinations. The Vista Village Dr and Santa Fe Ave origin point generates isochrones that cover the largest number of destinations (505), while the Camp Pendleton (Vandergrift) origin point generates isochrones that cover the smallest number of destinations (3).

The average variation for destinations within reach between each set of 60-minute isochrones generated is 161. The isochrones generated for Barham Drive and Campus Way resulted in the largest variation for destinations, with the high likelihood isochrone encompassing 357 destinations and the low likelihood isochrone encompassing 620 destinations. Excluding Camp Pendleton (Vandergrift), the isochrones generated for Carlsbad Blvd. and Carlsbad Village Dr resulted in the smallest variation for destinations with the high likelihood isochrone encompassing 187 destinations and the low likelihood isochrone encompassing 272 destinations.

#### **Housing Units**

Across all the 60-minute isochrones generated, the high likelihood isochrones reach an average of 46,129 housing units. The Vista Village Dr and Santa Fe Ave isochrone origin generates isochrones that cover the largest number of housing units (88,903), while the Camp Pendleton (Vandergrift) isochrone origin generates isochrones that covers the smallest number of housing units (2,017).

The average variation for housing units within reach between each set of 60-minute isochrones generated is 33,096. The isochrones generated for Barham Drive and Campus Way resulted in the largest variation for housing units, with the high likelihood isochrone encompassing 36,870 housing units and the low likelihood isochrone encompassing 93,851 housing units. Excluding Camp Pendleton (Vandergrift), the isochrones generated for College Blvd. and SR 76 resulted in the smallest variation for housing units with the high likelihood isochrone encompassing 57,015 housing units and the low likelihood isochrone encompassing 73,765 housing units.

#### Jobs

Across all the 60-minute isochrones generated, the high likelihood isochrones reach an average of 73,487 jobs. The Vista Village Dr and Santa Fe Ave origin point generates isochrones that cover the largest number of jobs (118,454), while the Camp Pendleton (Vandergrift) origin point generates isochrones that cover the smallest number of jobs (1,651).

The average variation for destinations within reach between each set of 60-minute isochrones generated is 49,781. The isochrones generated for Barham Drive and Campus Way resulted in the largest variation for jobs reached, with the high likelihood isochrone encompassing 99,971 jobs and the low likelihood isochrone encompassing 170,876 jobs. Excluding Camp Pendleton (Vandergrift), the



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isochrones generated for College Blvd. and SR 76 origin point resulted in the smallest variation for jobs with the high likelihood isochrone encompassing 290 jobs and the low likelihood isochrone encompassing 388 jobs.

#### **Population**

Across all the 60-minute isochrones generated, the high likelihood isochrones reach an average of 132,890 people. The Vista Village Dr and Santa Fe Ave origin point generates isochrones that reach the largest number of people (259,472), while the Camp Pendleton (Vandergrift) origin point generates isochrones that reach the smallest number of people (3,437).

The average variation for the population within reach between each set of 60-minute isochrones generated is 93,062. The isochrones generated for Barham Drive and Campus Way resulted in the largest variation for population, with the high likelihood isochrone including 115,032 people and the low likelihood isochrone including 290,693 people. Excluding Camp Pendleton (Vandergrift), the isochrones generated for College Blvd. and SR 76 resulted in the smallest variation for population with the high likelihood isochrone including 172,492 people and the low likelihood isochrone including 214,453 people.



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| Isochrone<br>Origin                         | Destinations<br>Reached | Rank | Housing<br>Units <sup>1</sup><br>Reached | Rank | Jobs <sup>2</sup><br>Reached | Rank | Population <sup>1</sup><br>Reached | Rank |
|---|-------------------------|------|--|------|------------------------------|------|------------------------------------|------|
| Barham Dr<br>and Campus<br>Way              | 357                     | 4    | 36,870                                   | 7    | 99,971                       | 4    | 115,032                            | 7    |
| Camp<br>Pendleton<br>Gate<br>(Vandergrift)  | 3                       | 13   | 2,017                                    | 13   | 1,651                        | 13   | 3,437                              | 13   |
| Carlsbad Blvd<br>and Carlsbad<br>Village Dr | 187                     | 10   | 34,289                                   | 9    | 43,041                       | 12   | 74,682                             | 11   |
| College Blvd<br>and SR 76                   | 290                     | 8    | 57,015                                   | 4    | 51,485                       | 10   | 172,492                            | 4    |
| Faraday Ave<br>and El Camino<br>Real        | 131                     | 12   | 30,454                                   | 12   | 74,930                       | 8    | 71,717                             | 12   |
| Felicita Ave<br>and Centre<br>City Pkwy     | 171                     | 11   | 34,103                                   | 11   | 48,383                       | 11   | 107,204                            | 10   |
| Maple St and<br>W Grand Ave                 | 306                     | 7    | 52,906                                   | 5    | 78,535                       | 5    | 164,770                            | 5    |
| Oceanside<br>Blvd and<br>Avenida del<br>Oro | 499                     | 2    | 81,402                                   | 2    | 103,537                      | 3    | 232,128                            | 2    |
| Poinsettia Ave<br>and Business<br>Park Dr   | 247                     | 9    | 34,997                                   | 8    | 74,852                       | 9    | 108,512                            | 8    |
| Via Vera Cruz<br>and San<br>Marcos Blvd     | 404                     | 3    | 42,776                                   | 6    | 108,593                      | 2    | 137,030                            | 6    |
| Vista Village<br>Dr and Santa<br>Fe Ave     | 505                     | 1    | 88,903                                   | 1    | 118,454                      | 1    | 259,472                            | 1    |
| West Lake Dr<br>and San<br>Marcos Blvd      | 323                     | 6    | 34,190                                   | 10   | 75,234                       | 7    | 108,152                            | 9    |
| Wisconsin Ave<br>and Coast<br>Highway       | 333                     | 5    | 69,761                                   | 3    | 76,671                       | 6    | 172,937                            | 3    |

Sources: (1) American Community Survey (ACS) 2019 5-Year Estimates (2) LEHD LODES Dataset (2018)





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Table 4: Summary of Reach Analysis Variation (60-Minute Isochrones)

| Isochrone Origin   | Destination<br>Variation | Rank | Housing <sup>1</sup><br>Variation | Rank | Jobs <sup>2</sup><br>Variation | Rank | Population <sup>1</sup><br>Variation | Rank |
|--|--------------------------|------|-----------------------------------|------|--------------------------------|------|--------------------------------------|------|
| Barham Dr and<br>Campus Way                                    | 263                      | 1    | 56,981                            | 1    | 70,905                         | 3    | 175,661                              | 1    |
| Camp<br>Pendleton<br>Gate<br>(Vandergrift)                     | 86                       | 12   | 11,521                            | 13   | 13,153                         | 13   | 23,584                               | 13   |
| Carlsbad Blvd<br>and Carlsbad<br>Village Dr                    | 85                       | 13   | 30,878                            | 7    | 41,069                         | 10   | 70,305                               | 10   |
| College Blvd<br>and SR 76                                      | 98                       | 11   | 16,750                            | 12   | 17,052                         | 12   | 41,961                               | 12   |
| Faraday Ave<br>and El Camino<br>Real                           | 107                      | 10   | 30,718                            | 8    | 33,908                         | 11   | 71,470                               | 9    |
| Felicita Ave<br>and Centre City<br>Pkwy                        | 151                      | 8    | 30,048                            | 9    | 54,186                         | 6    | 87,113                               | 8    |
| Maple St and<br>W Grand Ave                                    | 183                      | 6    | 29,408                            | 10   | 45,876                         | 9    | 90,991                               | 7    |
| Oceanside Blvd<br>and Avenida<br>del Oro                       | 153                      | 7    | 36,253                            | 5    | 47,005                         | 8    | 97,443                               | 6    |
| Poinsettia Ave<br>and Business<br>Park Dr                      | 108                      | 9    | 20,408                            | 11   | 50,133                         | 7    | 47,896                               | 11   |
| Via Vera Cruz<br>and San<br>Marcos Blvd                        | 210                      | 4    | 53,522                            | 2    | 60,172                         | 5    | 156,695                              | 2    |
| Vista Village Dr<br>and Santa Fe<br>Ave                        | 231                      | 2    | 39,828                            | 4    | 66,037                         | 4    | 118,986                              | 4    |
| West Lake Dr<br>and San<br>Marcos Blvd                         | 215                      | 3    | 41,389                            | 3    | 72,974                         | 2    | 130,164                              | 3    |
| Wisconsin Ave<br>and Coast<br>Highway<br>Sources: (1) American | 199                      | 5    | 32,544                            | 6    | 74,678                         | 1    | 97,538                               | 5    |

Sources: (1) American Community Survey (ACS) 2019 5-Year Estimates (2) LEHD LODES Dataset (2018)

### BARHAM DR AND CAMPUS WAY

Figure 1: Barham Dr and Campus Way, 30-Minute Travel Sheds at PM Peak





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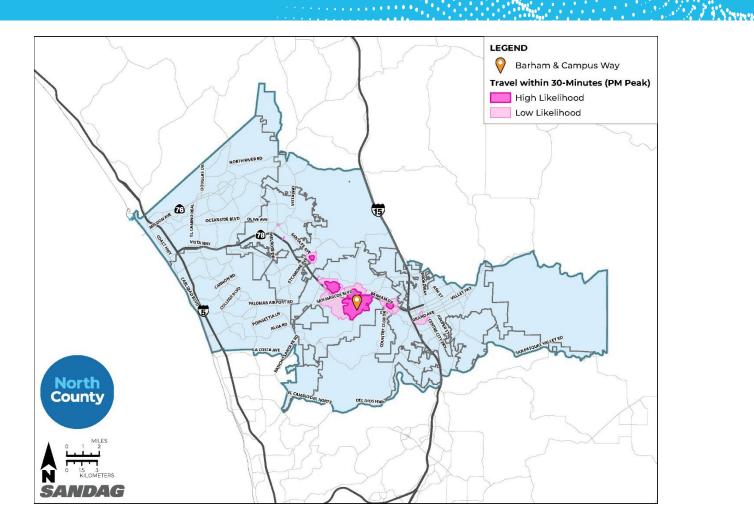
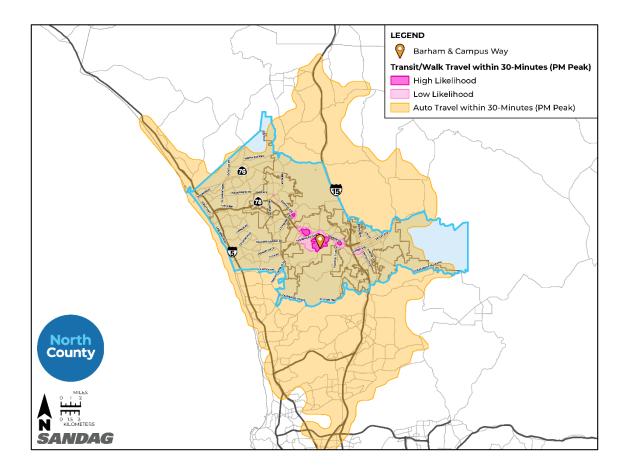






Figure 2: Barham Dr and Campus Way, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak





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| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|-------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,522             | 51                           | 94                          | 43        |
| ACS/LEHD Lodes<br>Estimates             |                   |                              |                             |           |
| Housing Units <sup>2</sup>              | 407,371           | 1,912                        | 5,357                       | 3,445     |
| Jobs <sup>3</sup>                       | 623,255           | 15,037                       | 33,173                      | 18,136    |
| Low-Income <sup>2</sup> *               | 95,213            | 882                          | 2,050                       | 1,168     |
| Senior (65+) <sup>2</sup>               | 175,100           | 262                          | 1,596                       | 1,334     |
| Senior (75+) <sup>2</sup>               | 73,345            | 115                          | 785                         | 670       |
| People of Color <sup>2</sup>            | 583,658           | 5,270                        | 11,178                      | 5,908     |
| Total Population <sup>2</sup>           | 1,195,379         | 6,050                        | 15,875                      | 9,825     |
| DS39 Estimates <sup>4</sup>             |                   |                              |                             |           |
| Housing Units                           | 411,723           | 4,168                        | 9,004                       | 4,836     |
| Jobs                                    | 652,939           | 13,665                       | 34,104                      | 20,439    |
| Low-Income                              | 315,938           | 5,464                        | 12,720                      | 7,256     |
| Senior (75+)                            | 71,218            | 692                          | 1,413                       | 721       |
| People of Color                         | 579,603           | 6,286                        | 17,256                      | 10,970    |
| Total Population                        | 1,197,604         | 12,818                       | 28,536                      | 15,718    |

Table 5: Isochrone Summary - Barham Dr and Campus Way (30-Minute)

Notes: \*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





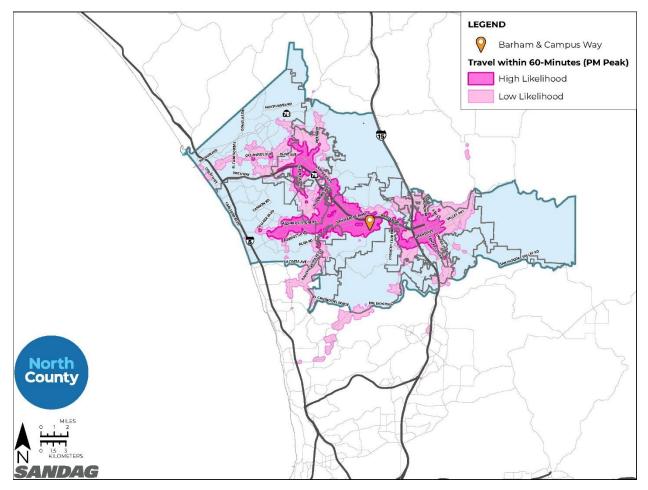


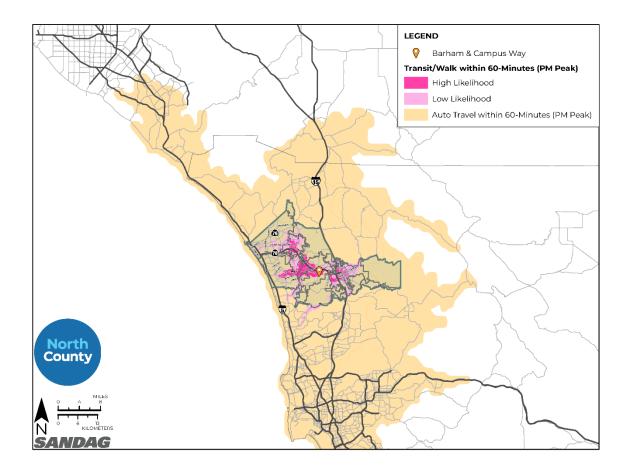
Figure 3: Barham Dr and Campus Way, 60-Minute Travel Sheds at PM Peak



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Figure 4: Barham Dr and Campus Way, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak







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| Characteristic<br>Within<br>Travel Shed | Auto Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|-----------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 19,933                      | 357                          | 620                         | 263       |
| ACS/LEHD Lodes<br>Estimates             |                             |                              |                             |           |
| Housing Units <sup>2</sup>              | 1,081,827                   | 36,870                       | 93,851                      | 56,981    |
| Jobs <sup>3</sup>                       | 1,413,481                   | 99,971                       | 170,876                     | 70,905    |
| Low-Income <sup>2*</sup>                | 309,635                     | 14,883                       | 31,860                      | 16,977    |
| Senior (65+) <sup>2</sup>               | 435,477                     | 11,882                       | 33,126                      | 21,244    |
| Senior (75+) <sup>2</sup>               | 186,256                     | 5,498                        | 14,443                      | 8,945     |
| People of Color <sup>2</sup>            | 1,705,827                   | 82,303                       | 188,051                     | 105,748   |
| Total Population <sup>2</sup>           | 3,165,907                   | 115,032                      | 290,693                     | 175,661   |
| DS39 Estimates <sup>4</sup>             |                             |                              |                             |           |
| Housing Units                           | 1,098,879                   | 39,981                       | 107,886                     | 67,905    |
| Jobs                                    | 1,594,192                   | 112,440                      | 193,332                     | 80,892    |
| Low-Income                              | 1,001,572                   | 56,289                       | 127,898                     | 71,609    |
| Senior (75+)                            | 182,640                     | 6,765                        | 17,998                      | 11,233    |
| People of Color                         | 1,694,566                   | 78,301                       | 192,275                     | 113,974   |
| Total Population                        | 3,145,633                   | 124,887                      | 326,191                     | 201,304   |

Table 6: Isochrone Summary - Barham Dr and Campus Way (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included.

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).

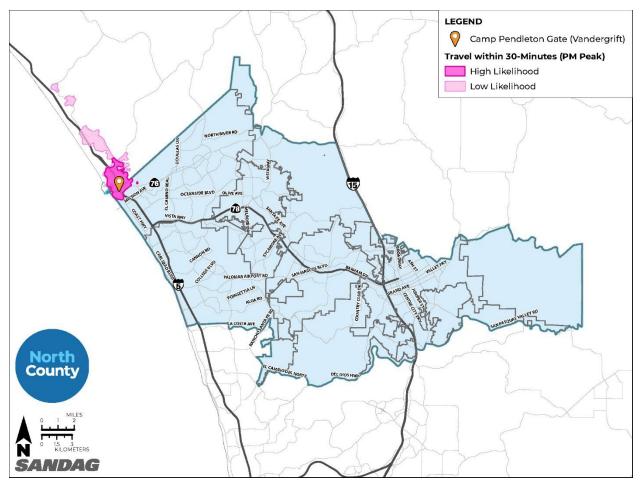


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## CAMP PENDLETON GATE (VANDERGRIFT)

Figure 5: Camp Pendleton Gate (Vandergrift), 30-Minute Travel Sheds at PM Peak



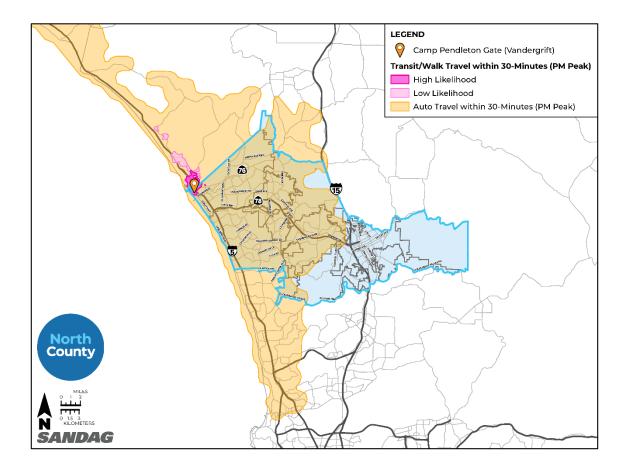


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1 States

Figure 6: Camp Pendleton Gate (Vandergrift), 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>+</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation** |
|---|--------------------------------|------------------------------|-----------------------------|-------------|
| Destinations <sup>1</sup>               | 1,230                          | 3                            | 3                           | -           |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |             |
| Housing Units <sup>2</sup>              | 243,565                        | 2,017                        | 2,017                       | -           |
| Jobs <sup>3</sup>                       | 395,903                        | 1,014                        | 1,348                       | 334         |
| Low-Income <sup>2</sup> *               | 60,509                         | 391                          | 391                         | -           |
| Senior (65+) <sup>2</sup>               | 103,761                        | 558                          | 558                         | -           |
| Senior (75+) <sup>2</sup>               | 44,184                         | 184                          | 184                         | -           |
| People of Color <sup>2</sup>            | 315,262                        | 1,564                        | 1,564                       | -           |
| Total Population <sup>2</sup>           | 711,744                        | 3,437                        | 3,437                       | -           |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |             |
| Housing Units                           | 251,591                        | 937                          | 937                         | -           |
| Jobs                                    | 425,838                        | 659                          | 659                         | -           |
| Low-Income                              | 216,454                        | 788                          | 788                         | -           |
| Senior (75+)                            | 44,190                         | 132                          | 132                         | -           |
| People of Color                         | 326,732                        | 1,279                        | 1,279                       | -           |
| Total Population                        | 729,333                        | 2,512                        | 2,512                       | -           |

Table 7: Isochrone Summary - Camp Pendleton Gate (Vandergrift) (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included.

\*Low-Income ACS data collected at the household level. \*\*Due to the presence/size of the military base, limited data surrounding the base, and small size of isochrones generated, the lack of variation in the reach analysis does not indicate that the base has more consistent transit facilities.

Sources: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





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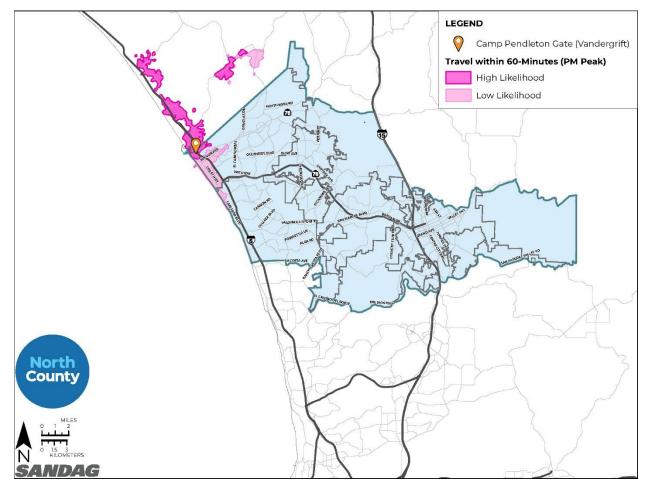


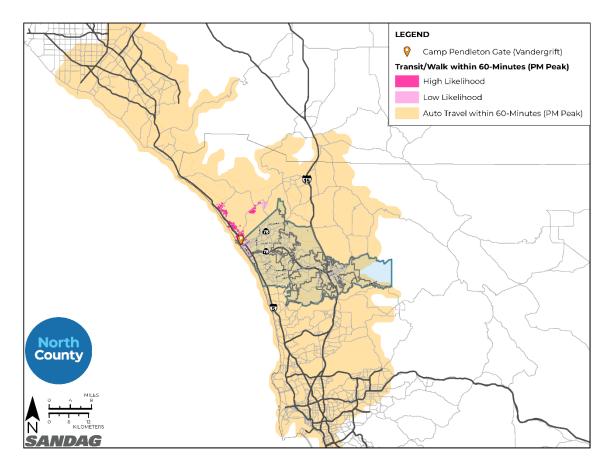
Figure 7: Camp Pendleton Gate (Vandergrift), 60-Minute Travel Sheds at PM Peak



North County

1 Same









27 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation** |
|---|--------------------------------|------------------------------|-----------------------------|-------------|
| Destinations <sup>1</sup>               | 17,155                         | 3                            | 89                          | 86          |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |             |
| Housing Units <sup>2</sup>              | 922,387                        | 2,017                        | 13,538                      | 11,521      |
| Jobs <sup>3</sup>                       | 1,305,599                      | 1,651                        | 14,804                      | 13,153      |
| Low-Income <sup>2</sup> *               | 261,996                        | 391                          | 4,247                       | 3,856       |
| Senior (65+) <sup>2</sup>               | 358,911                        | 558                          | 3,933                       | 3,375       |
| Senior (75+) <sup>2</sup>               | 154,250                        | 184                          | 1,556                       | 1,372       |
| People of Color <sup>2</sup>            | 1,308,136                      | 1,564                        | 14,429                      | 12,865      |
| Total Population <sup>2</sup>           | 2,623,596                      | 3,437                        | 27,021                      | 23,584      |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |             |
| Housing Units                           | 937,278                        | 937                          | 13,530                      | 12,593      |
| Jobs                                    | 1,483,648                      | 659                          | 13,484                      | 12,825      |
| Low-Income                              | 831,886                        | 788                          | 12,065                      | 11,277      |
| Senior (75+)                            | 155,239                        | 132                          | 1,821                       | 1,689       |
| People of Color                         | 1,314,043                      | 1,279                        | 16,088                      | 14,809      |
| Total Population                        | 2,631,776                      | 2,512                        | 30,716                      | 28,204      |

Table 8: Isochrone Summary - Camp Pendleton Gate (Vandergrift) (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included.

\*Low-Income ACS data collected at the household level. \*\*Due to the presence/size of the military base, limited data surrounding the base, and small size of isochrones generated, the lack of variation in the reach analysis does not indicate that the base has more consistent transit facilities.

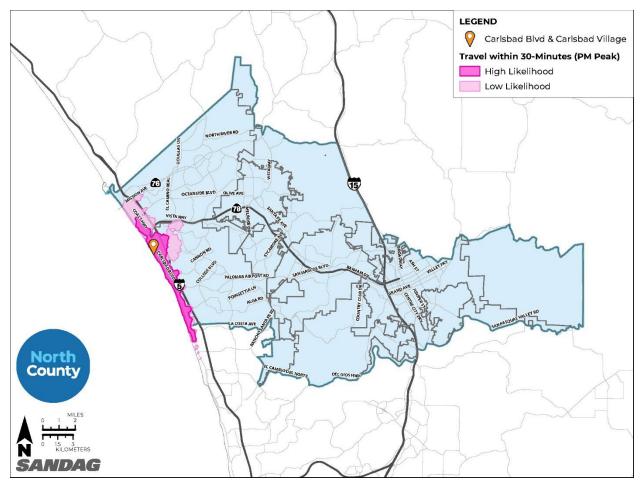
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



North County

### CARLSBAD BLVD AND CARLSBAD VILLAGE

Figure 9: Carlsbad Blvd and Carlsbad Village, 30-Minute Travel Sheds at PM Peak



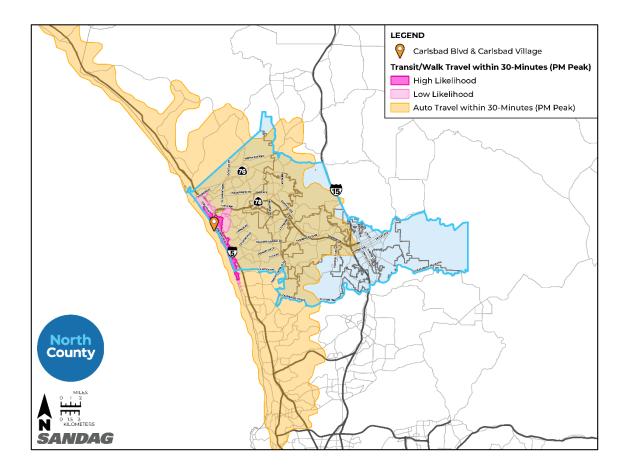


JUNE 2023

North County

1 Same

Figure 10: Carlsbad Blvd and Carlsbad Village, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,372                          | 56                           | 125                         | 69        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 276,864                        | 7,846                        | 20,678                      | 12,832    |
| Jobs <sup>3</sup>                       | 464,850                        | 12,780                       | 22,362                      | 9,582     |
| Low-Income <sup>2</sup> *               | 67,785                         | 1,903                        | 5,239                       | 3,336     |
| Senior (65+) <sup>2</sup>               | 113,797                        | 2,682                        | 6,188                       | 3,506     |
| Senior (75+) <sup>2</sup>               | 48,216                         | 1,162                        | 2,516                       | 1,354     |
| People of Color <sup>2</sup>            | 359,323                        | 4,907                        | 14,987                      | 10,080    |
| Total Population <sup>2</sup>           | 801,359                        | 14,697                       | 40,264                      | 25,567    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 281,104                        | 7,566                        | 19,508                      | 11,942    |
| Jobs                                    | 496,269                        | 10,986                       | 26,915                      | 15,929    |
| Low-Income                              | 229,440                        | 3,461                        | 11,919                      | 8,458     |
| Senior (75+)                            | 49,396                         | 1,134                        | 2,889                       | 1,755     |
| People of Color                         | 363,776                        | 4,869                        | 16,280                      | 11,411    |
| Total Population                        | 805,396                        | 15,919                       | 42,809                      | 26,890    |

Table 9: Isochrone Summary - Carlsbad Blvd and Carlsbad Village (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included.

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



JUNE 2023



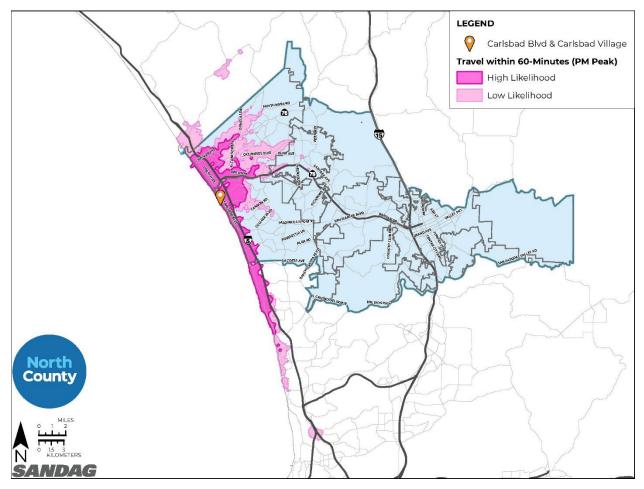


Figure 11: Carlsbad Blvd and Carlsbad Village, 60-Minute Travel Sheds at PM Peak

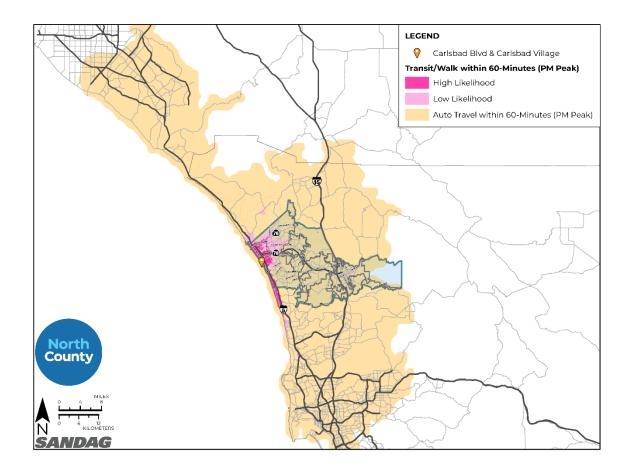


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1 Same

Figure 12: Carlsbad Blvd and Carlsbad Village, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak







11 Same

| Table 10: Isochrone Summary - Car | Isbad Blvd and Carlsbad | Village (60-Minute) |
|-----------------------------------|-------------------------|---------------------|
|-----------------------------------|-------------------------|---------------------|

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone⁺ | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 18,219             | 187                          | 272                         | 85        |
| ACS/LEHD Lodes<br>Estimates             |                    |                              |                             |           |
| Housing Units <sup>2</sup>              | 987,833            | 34,289                       | 65,167                      | 30,878    |
| Jobs <sup>3</sup>                       | 1,343,541          | 43,041                       | 84,110                      | 41,069    |
| Low-Income <sup>2</sup> *               | 280,568            | 9,214                        | 17,521                      | 8,307     |
| Senior (65+) <sup>2</sup>               | 391,750            | 10,626                       | 23,706                      | 13,080    |
| Senior (75+) <sup>2</sup>               | 168,112            | 4,281                        | 9,643                       | 5,362     |
| People of Color <sup>2</sup>            | 1,458,466          | 31,348                       | 61,248                      | 29,900    |
| Total Population <sup>2</sup>           | 2,842,204          | 74,682                       | 144,987                     | 70,305    |
| DS39 Estimates <sup>4</sup>             |                    |                              |                             |           |
| Housing Units                           | 1,001,615          | 37,399                       | 66,144                      | 28,745    |
| Jobs                                    | 1,537,113          | 51,295                       | 90,572                      | 39,277    |
| Low-Income                              | 905,509            | 24,484                       | 46,533                      | 22,049    |
| Senior (75+)                            | 166,703            | 5,584                        | 10,620                      | 5,036     |
| People of Color                         | 1,456,670          | 34,167                       | 66,593                      | 32,426    |
| Total Population                        | 2,838,266          | 85,621                       | 158,100                     | 72,479    |

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included.

\*Low-Income ACS data collected at the household level.

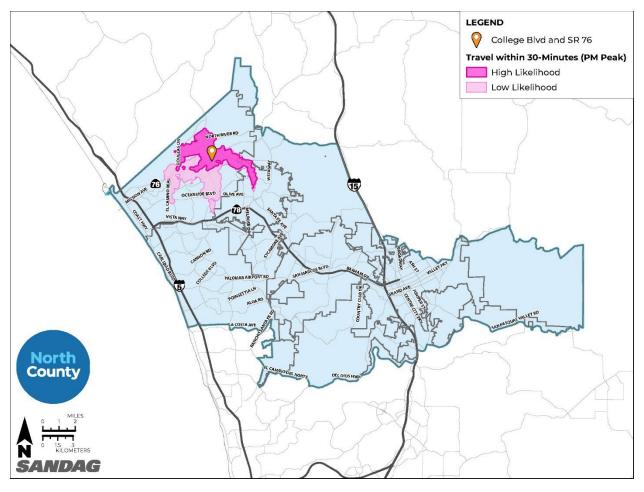
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





## COLLEGE BLVD AND SR 76

Figure 13: College Blvd and SR 76, 30-Minute Travel Sheds at PM Peak



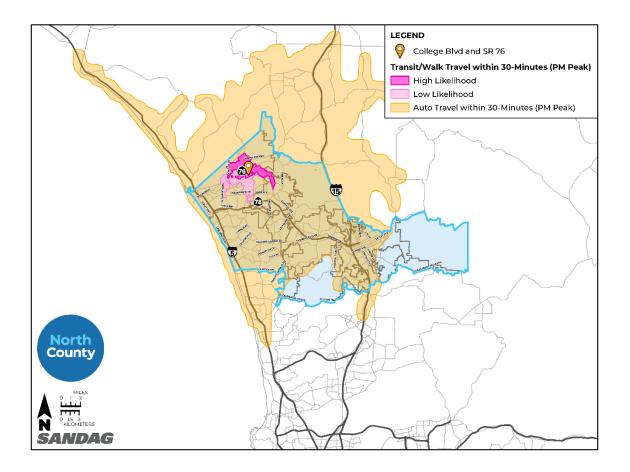


JUNE 2023

North County

1 Street

Figure 14: College Blvd and SR 76, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak







1 Same

Table 11: Isochrone Summary - College Blvd and SR 76 (30-Minute)

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,008                          | 30                           | 67                          | 37        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 271,374                        | 7,490                        | 21,197                      | 13,707    |
| Jobs <sup>3</sup>                       | 316,244                        | 3,953                        | 11,987                      | 8,034     |
| Low-Income <sup>2</sup> *               | 74,076                         | 1,384                        | 6,046                       | 4,662     |
| Senior (65+) <sup>2</sup>               | 122,812                        | 2,733                        | 9,247                       | 6,514     |
| Senior (75+) <sup>2</sup>               | 53,371                         | 975                          | 3,833                       | 2,858     |
| People of Color <sup>2</sup>            | 384,395                        | 17,376                       | 35,527                      | 18,151    |
| Total Population <sup>2</sup>           | 795,817                        | 26,112                       | 60,774                      | 34,662    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 284,108                        | 9,394                        | 22,794                      | 13,400    |
| Jobs                                    | 355,409                        | 4,130                        | 12,178                      | 8,048     |
| Low-Income                              | 269,175                        | 8,420                        | 20,682                      | 12,262    |
| Senior (75+)                            | 51,917                         | 1,540                        | 4,111                       | 2,571     |
| People of Color                         | 402,806                        | 16,859                       | 35,291                      | 18,432    |
| Total Population                        | 834,551                        | 27,823                       | 63,675                      | 35,852    |

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

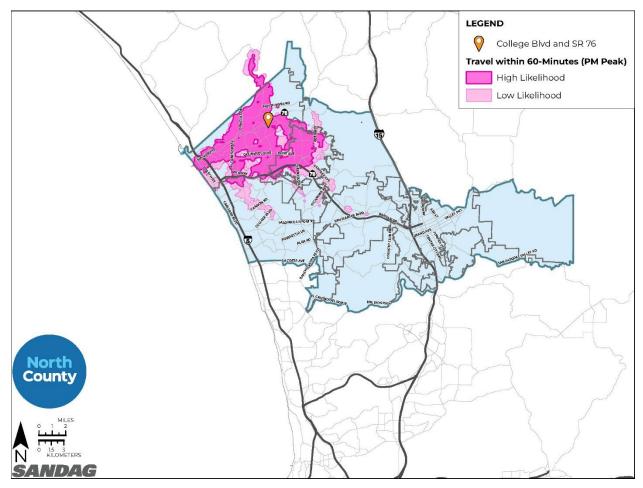
\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





Figure 15: College Blvd and SR 76, 60-Minute Travel Sheds at PM Peak

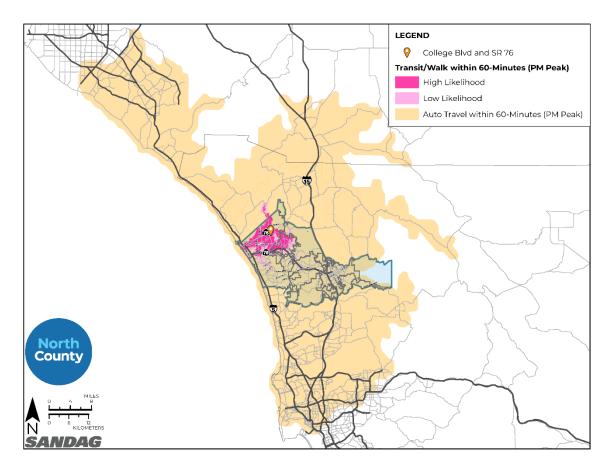






1 Same

Figure 16: College Blvd and SR 76, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak







27 Same

Table 12: Isochrone Summary - College Blvd and SR 76 (60-Minute)

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 15,612                         | 290                          | 388                         | 98        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 815,649                        | 57,015                       | 73,765                      | 16,750    |
| Jobs <sup>3</sup>                       | 1,223,454                      | 51,485                       | 68,537                      | 17,052    |
| Low-Income <sup>2</sup> *               | 218,317                        | 17,398                       | 22,032                      | 4,634     |
| Senior (65+) <sup>2</sup>               | 313,485                        | 20,148                       | 27,179                      | 7,031     |
| Senior (75+) <sup>2</sup>               | 134,059                        | 7,783                        | 11,146                      | 3,363     |
| People of Color <sup>2</sup>            | 1,060,241                      | 111,970                      | 130,088                     | 18,118    |
| Total Population <sup>2</sup>           | 2,267,476                      | 172,492                      | 214,453                     | 41,961    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 827,855                        | 58,181                       | 79,374                      | 21,193    |
| Jobs                                    | 1,322,751                      | 52,578                       | 69,254                      | 16,676    |
| Low-Income                              | 660,085                        | 64,760                       | 81,785                      | 17,025    |
| Senior (75+)                            | 137,077                        | 9,530                        | 13,123                      | 3,593     |
| People of Color                         | 1,068,281                      | 104,399                      | 129,724                     | 25,325    |
| Total Population                        | 2,271,411                      | 171,070                      | 227,596                     | 56,526    |

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).

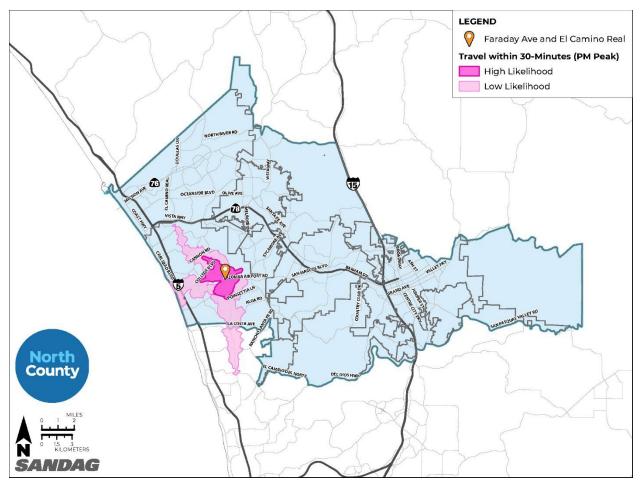


JUNE 2023

North County

### FARADAY AVE AND EL CAMINO REAL

Figure 17: Faraday Ave and El Camino Real, 30-Minute Travel Sheds at PM Peak



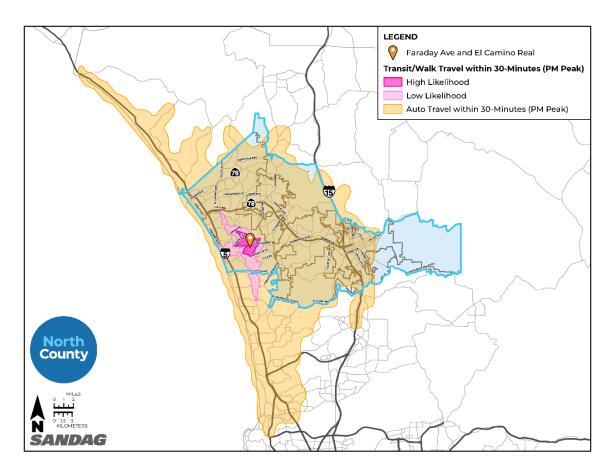


JUNE 2023

North County

Street.









1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,465                          | 35                           | 75                          | 40        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 310,425                        | 1,399                        | 13,084                      | 11,685    |
| Jobs <sup>3</sup>                       | 494,420                        | 22,844                       | 51,961                      | 29,117    |
| Low-Income <sup>2</sup> *               | 80,018                         | 504                          | 2,421                       | 1,917     |
| Senior (65+) <sup>2</sup>               | 130,644                        | 308                          | 6,124                       | 5,816     |
| Senior (75+) <sup>2</sup>               | 56,273                         | 146                          | 2,750                       | 2,604     |
| People of Color <sup>2</sup>            | 422,518                        | 2,494                        | 8,804                       | 6,310     |
| Total Population <sup>2</sup>           | 888,821                        | 3,911                        | 32,434                      | 28,523    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 318,488                        | 252                          | 11,815                      | 11,563    |
| Jobs                                    | 519,768                        | 25,305                       | 53,403                      | 28,098    |
| Low-Income                              | 283,223                        | 131                          | 4,950                       | 4,819     |
| Senior (75+)                            | 55,430                         | 44                           | 1,994                       | 1,950     |
| People of Color                         | 441,705                        | 195                          | 9,155                       | 8,960     |
| Total Population                        | 927,635                        | 628                          | 29,349                      | 28,721    |

Table 13: Isochrone Summary - Faraday Ave and El Camino Real (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



North County

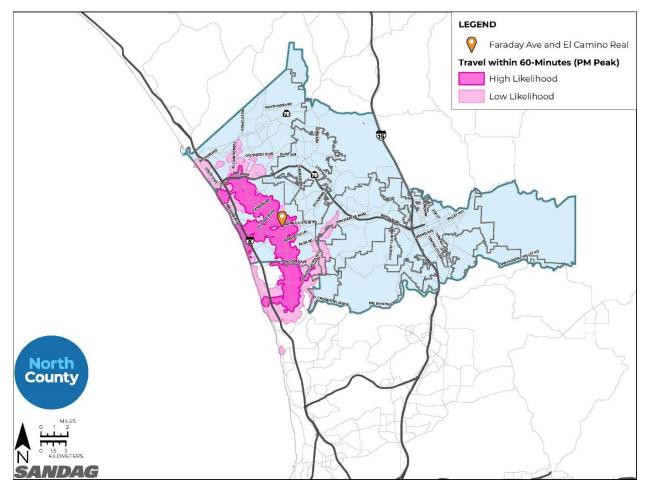


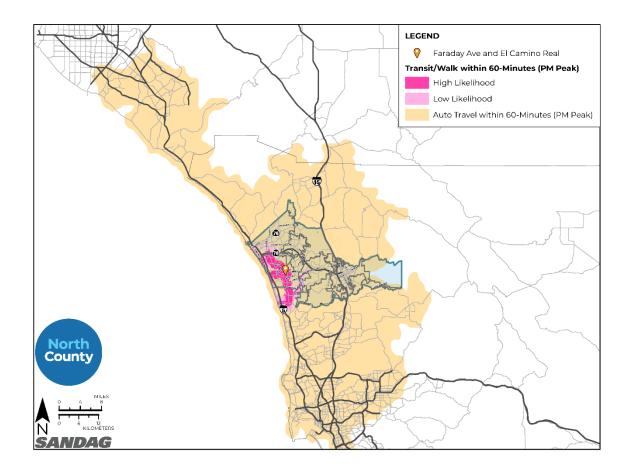
Figure 19: Faraday Ave and El Camino Real, 60-Minute Travel Sheds at PM Peak



North County

1 Same

Figure 20: Faraday Ave and El Camino Real, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

27 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 17,832                         | 131                          | 238                         | 107       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 959,249                        | 30,454                       | 61,172                      | 30,718    |
| Jobs <sup>3</sup>                       | 1,326,906                      | 74,930                       | 108,838                     | 33,908    |
| Low-Income <sup>2*</sup>                | 272,822                        | 5,414                        | 12,675                      | 7,261     |
| Senior (65+) <sup>2</sup>               | 377,606                        | 12,784                       | 24,772                      | 11,988    |
| Senior (75+) <sup>2</sup>               | 162,344                        | 5,370                        | 10,264                      | 4,894     |
| People of Color <sup>2</sup>            | 1,388,851                      | 19,097                       | 42,299                      | 23,202    |
| Total Population <sup>2</sup>           | 2,746,423                      | 71,717                       | 143,187                     | 71,470    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 973,890                        | 28,818                       | 67,706                      | 38,888    |
| Jobs                                    | 1,498,791                      | 76,298                       | 109,764                     | 33,466    |
| Low-Income                              | 865,711                        | 12,017                       | 34,944                      | 22,927    |
| Senior (75+)                            | 161,848                        | 4,786                        | 11,044                      | 6,258     |
| People of Color                         | 1,389,191                      | 20,153                       | 53,859                      | 33,706    |
| Total Population                        | 2,740,930                      | 69,598                       | 164,204                     | 94,606    |

Table 14: Isochrone Summary - Faraday Ave and El Camino Real (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

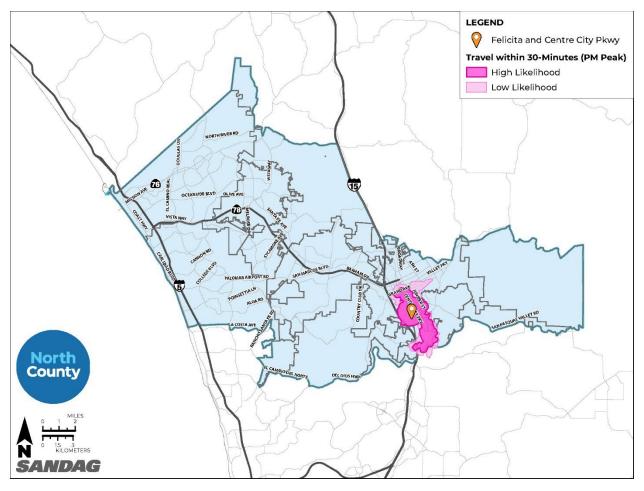
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





# FELICITA AVE AND CENTRE CITY PKWY

Figure 21: Felicita and Centre City Pkwy, 30-Minute Travel Sheds at PM Peak



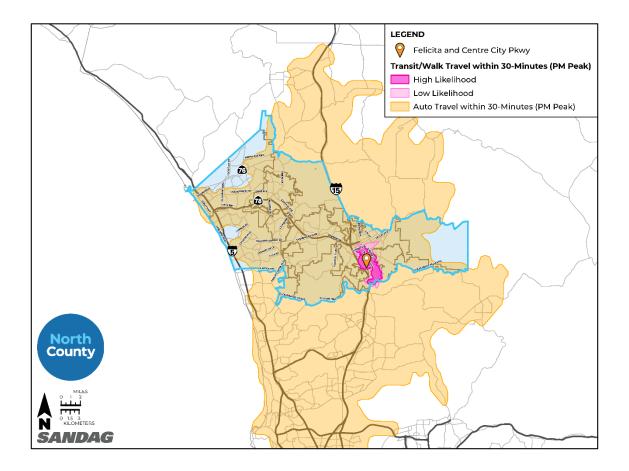


JUNE 2023

North County

A Street

Figure 22: Felicita and Centre City Pkwy, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak







1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>+</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 2,286                          | 66                           | 93                          | 27        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 506,789                        | 7,749                        | 11,881                      | 4,132     |
| Jobs <sup>3</sup>                       | 900,137                        | 11,312                       | 16,570                      | 5,258     |
| Low-Income <sup>2</sup> *               | 120,062                        | 2,634                        | 4,466                       | 1,832     |
| Senior (65+) <sup>2</sup>               | 207,275                        | 2,220                        | 3,299                       | 1,079     |
| Senior (75+) <sup>2</sup>               | 88,578                         | 1,001                        | 1,457                       | 456       |
| People of Color <sup>2</sup>            | 688,971                        | 16,750                       | 24,442                      | 7,692     |
| Total Population <sup>2</sup>           | 1,440,529                      | 24,830                       | 36,237                      | 11,407    |
| DS39 Estimates4                         |                                |                              |                             |           |
| Housing Units                           | 516,698                        | 6,901                        | 12,706                      | 5,805     |
| Jobs                                    | 926,960                        | 12,530                       | 19,191                      | 6,661     |
| Low-Income                              | 380,468                        | 8,530                        | 17,132                      | 8,602     |
| Senior (75+)                            | 87,549                         | 1,045                        | 1,953                       | 908       |
| People of Color                         | 690,885                        | 13,712                       | 25,992                      | 12,280    |
| Total Population                        | 1,453,997                      | 21,996                       | 40,103                      | 18,107    |

Table 15: Isochrone Summary - Felicita Ave and Centre City Pkwy (30-Minute)

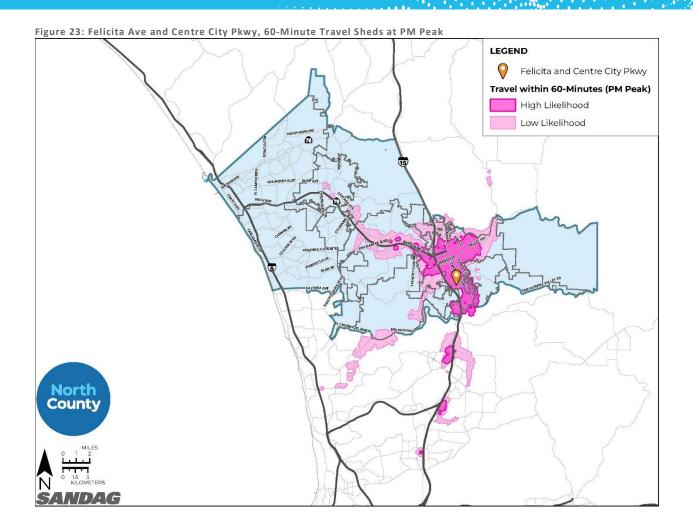
Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



North County

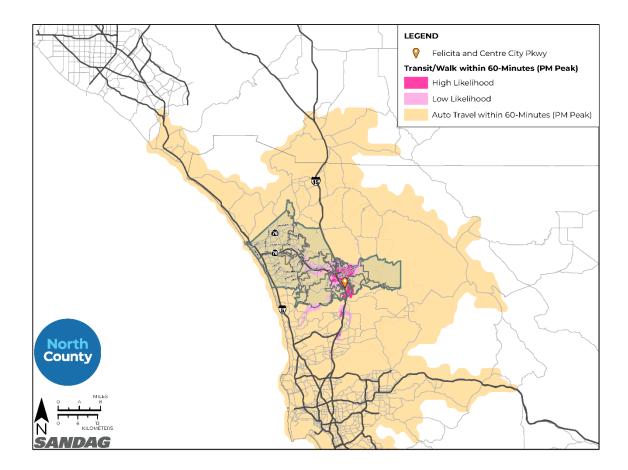






1 Same

Figure 24: Felicita and Centre City Pkwy, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

19 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 20,945                         | 171                          | 322                         | 151       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 1,114,675                      | 34,103                       | 64,151                      | 30,048    |
| Jobs <sup>3</sup>                       | 1,436,617                      | 48,383                       | 102,569                     | 54,186    |
| Low-Income <sup>2</sup> *               | 316,162                        | 13,422                       | 21,318                      | 7,896     |
| Senior (65+) <sup>2</sup>               | 447,259                        | 11,304                       | 22,673                      | 11,369    |
| Senior (75+) <sup>2</sup>               | 189,790                        | 5,414                        | 10,633                      | 5,219     |
| People of Color <sup>2</sup>            | 1,788,866                      | 74,828                       | 126,599                     | 51,771    |
| Total Population <sup>2</sup>           | 3,281,368                      | 107,204                      | 194,317                     | 87,113    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 1,123,674                      | 30,388                       | 68,961                      | 38,573    |
| Jobs                                    | 1,622,378                      | 58,139                       | 110,848                     | 52,709    |
| Low-Income                              | 1,021,858                      | 47,335                       | 82,814                      | 35,479    |
| Senior (75+)                            | 186,270                        | 4,786                        | 11,424                      | 6,638     |
| People of Color                         | 1,750,919                      | 66,239                       | 127,489                     | 61,250    |
| Total Population                        | 3,225,309                      | 97,438                       | 208,081                     | 110,643   |

Table 16: Isochrone Summary - Felicita Ave and Centre City Pkwy (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

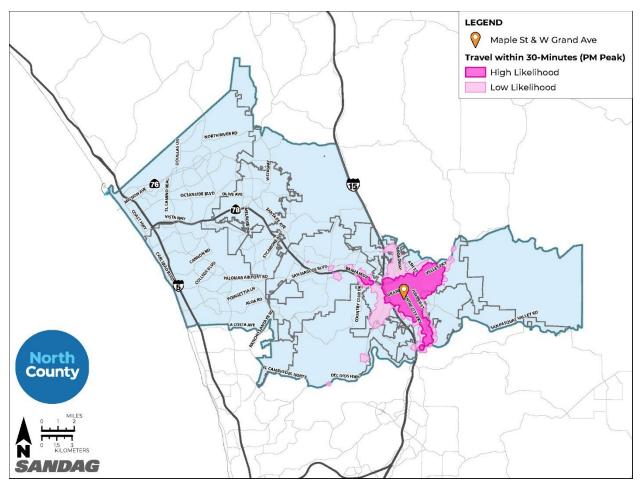
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





# MAPLE ST AND GRAND AVE

Figure 25: Maple St and W Grand Ave, 30-Minute Travel Sheds at PM Peak

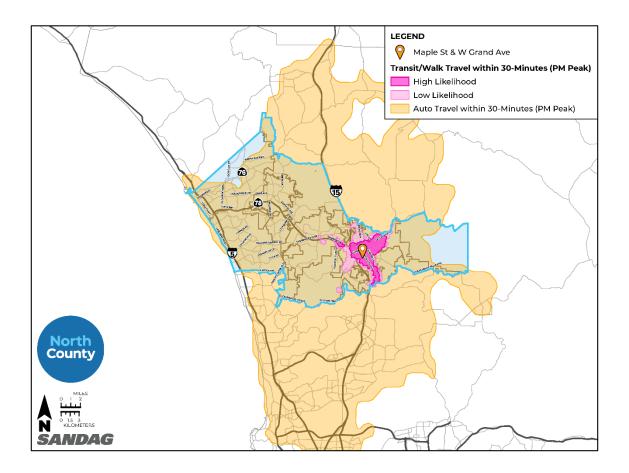




North County

1 Street

Figure 26: Maple St and W Grand Ave, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 2,060                          | 136                          | 188                         | 52        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 460,531                        | 20,974                       | 33,964                      | 12,990    |
| Jobs <sup>3</sup>                       | 795,144                        | 26,937                       | 43,274                      | 16,337    |
| Low-Income <sup>2</sup> *               | 108,540                        | 9,357                        | 13,686                      | 4,329     |
| Senior (65+) <sup>2</sup>               | 193,330                        | 6,115                        | 11,235                      | 5,120     |
| Senior (75+) <sup>2</sup>               | 81,859                         | 2,893                        | 5,329                       | 2,436     |
| People of Color <sup>2</sup>            | 651,779                        | 52,275                       | 75,461                      | 23,186    |
| Total Population <sup>2</sup>           | 1,336,804                      | 68,945                       | 106,738                     | 37,793    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 471,159                        | 22,861                       | 35,613                      | 12,752    |
| Jobs                                    | 815,355                        | 31,788                       | 49,537                      | 17,749    |
| Low-Income                              | 358,700                        | 38,509                       | 53,290                      | 14,781    |
| Senior (75+)                            | 81,262                         | 3,499                        | 5,594                       | 2,095     |
| People of Color                         | 655,244                        | 53,319                       | 74,894                      | 21,575    |
| Total Population                        | 1,354,691                      | 74,351                       | 112,135                     | 37,784    |

Table 17: Isochrone Summary - Maple St and W Grand Ave (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

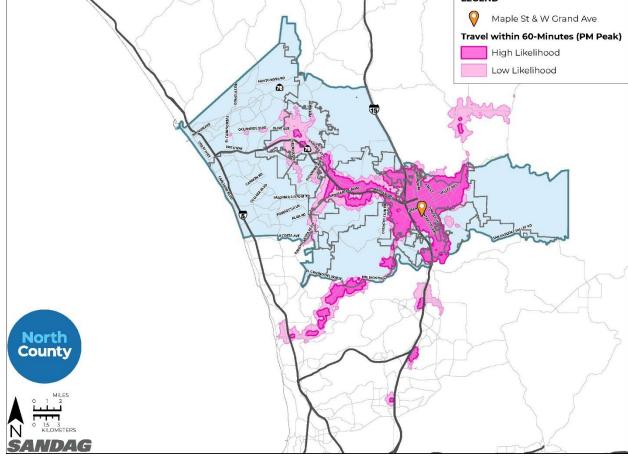
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimate (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).







Figure 27: Maple St and W Grand Ave, 60-Minute Travel Sheds at PM Peak

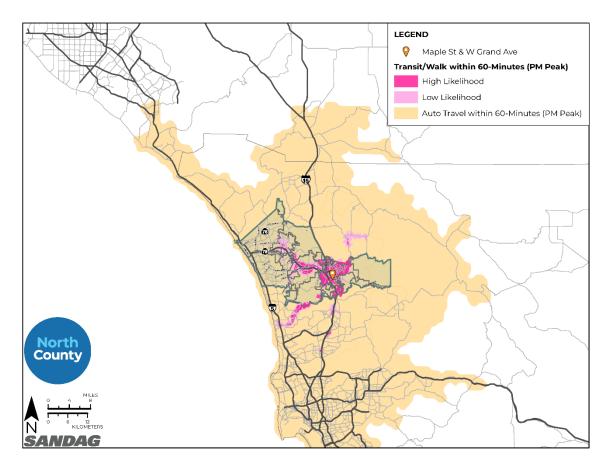






1 Same









27 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 20,696                         | 306                          | 489                         | 183       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 1,111,242                      | 52,906                       | 82,314                      | 29,408    |
| Jobs <sup>3</sup>                       | 1,429,336                      | 78,535                       | 124,411                     | 45,876    |
| Low-Income <sup>2</sup> *               | 315,197                        | 19,123                       | 27,503                      | 8,380     |
| Senior (65+) <sup>2</sup>               | 445,208                        | 18,349                       | 28,407                      | 10,058    |
| Senior (75+) <sup>2</sup>               | 189,285                        | 8,565                        | 12,983                      | 4,418     |
| People of Color <sup>2</sup>            | 1,785,510                      | 114,218                      | 167,621                     | 53,403    |
| Total Population <sup>2</sup>           | 3,270,774                      | 164,770                      | 255,761                     | 90,991    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 1,121,598                      | 56,984                       | 93,490                      | 36,506    |
| Jobs                                    | 1,613,531                      | 93,327                       | 137,712                     | 44,385    |
| Low-Income                              | 1,020,593                      | 76,012                       | 111,494                     | 35,482    |
| Senior (75+)                            | 185,888                        | 9,082                        | 15,819                      | 6,737     |
| People of Color                         | 1,748,334                      | 112,997                      | 169,403                     | 56,406    |
| Total Population                        | 3,219,150                      | 176,903                      | 282,720                     | 105,817   |

Table 18: Isochrone Summary - Maple St and W Grand Ave (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

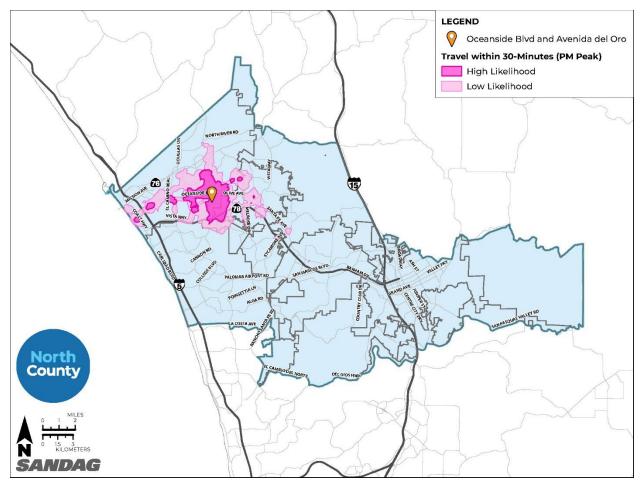
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





## OCEANSIDE BLVD AND AVENIDA DEL ORO

Figure 29: Oceanside Blvd and Avenida del Oro, 30-Minute Travel Sheds at PM Peak



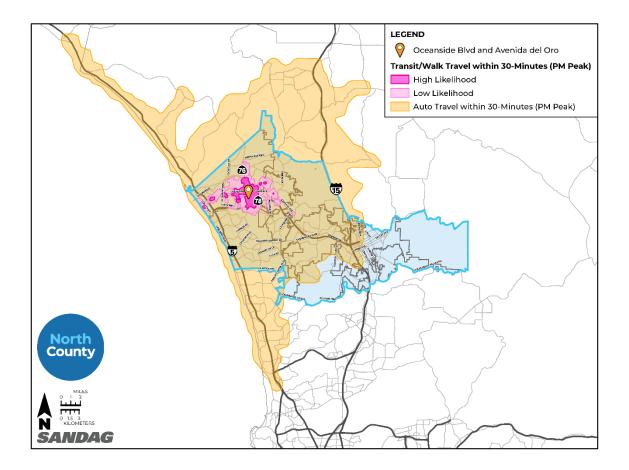


JUNE 2023

North County

Street.

Figure 30: Oceanside Blvd and Avenida del Oro, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

1 Same

| Table 19: Isochrone Summary - O | ceanside Blvd and | Avenida del Oro | (30-Minute) |
|---------------------------------|-------------------|-----------------|-------------|
|---------------------------------|-------------------|-----------------|-------------|

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 936                            | 56                           | 152                         | 96        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 257,621                        | 4,804                        | 21,537                      | 16,733    |
| Jobs <sup>3</sup>                       | 321,033                        | 13,645                       | 31,934                      | 18,289    |
| Low-Income <sup>2</sup> *               | 67,943                         | 1,282                        | 6,710                       | 5,428     |
| Senior (65+) <sup>2</sup>               | 114,571                        | 1,589                        | 8,308                       | 6,719     |
| Senior (75+) <sup>2</sup>               | 49,359                         | 739                          | 3,477                       | 2,738     |
| People of Color <sup>2</sup>            | 344,277                        | 10,146                       | 37,721                      | 27,575    |
| Total Population <sup>2</sup>           | 759,059                        | 15,852                       | 61,862                      | 46,010    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 260,746                        | 7,010                        | 31,919                      | 24,909    |
| Jobs                                    | 350,370                        | 15,961                       | 32,646                      | 16,685    |
| Low-Income                              | 228,728                        | 7,928                        | 33,399                      | 25,471    |
| Senior (75+)                            | 47,735                         | 1,059                        | 5,012                       | 3,953     |
| People of Color                         | 342,084                        | 13,611                       | 52,691                      | 39,080    |
| Total Population                        | 751,131                        | 21,226                       | 91,829                      | 70,603    |

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



JUNE 2023



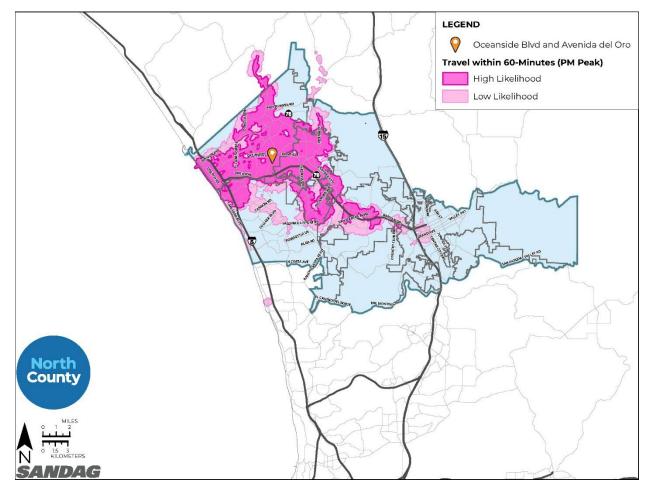


Figure 31: Oceanside Blvd and Avenida del Oro, 60-Minute Travel Sheds at PM Peak

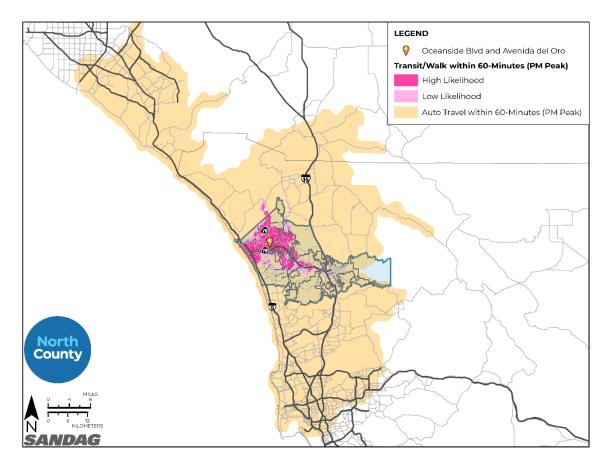


NORTH COUNTY CMCP | FINAL JUNE 2023



1 Same









27 Same

| Table 20: Isochrone Summary - Oceansi | de Blvd and Avenida del Oro (60-Minute) |
|---------------------------------------|---|
|---------------------------------------|---|

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 16,159                         | 499                          | 652                         | 153       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 855,189                        | 96,637                       | 96,285                      | -352      |
| Jobs <sup>3</sup>                       | 1,248,552                      | 81,402                       | 117,655                     | 36,253    |
| Low-Income <sup>2</sup> *               | 235,431                        | 103,537                      | 150,542                     | 47,005    |
| Senior (65+) <sup>2</sup>               | 328,944                        | 24,186                       | 34,697                      | 10,511    |
| Senior (75+) <sup>2</sup>               | 140,836                        | 29,252                       | 44,593                      | 15,341    |
| People of Color <sup>2</sup>            | 1,162,729                      | 12,330                       | 19,145                      | 6,815     |
| Total Population <sup>2</sup>           | 2,406,257                      | 135,892                      | 187,024                     | 51,132    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 866,413                        | 89,598                       | 124,988                     | 35,390    |
| Jobs                                    | 1,407,456                      | 106,955                      | 166,726                     | 59,771    |
| Low-Income                              | 737,829                        | 90,155                       | 122,620                     | 32,465    |
| Senior (75+)                            | 143,164                        | 14,784                       | 21,048                      | 6,264     |
| People of Color                         | 1,165,237                      | 140,562                      | 189,218                     | 48,656    |
| Total Population                        | 2,410,423                      | 254,674                      | 351,012                     | 96,338    |

Notes: *†*Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

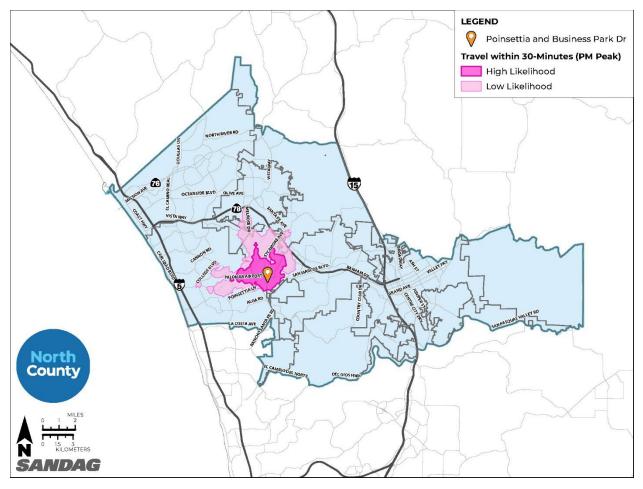
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





#### POINSETTIA AVE AND BUSINESS PARK DR

Figure 33: Poinsettia Ave and Business Park Dr, 30-Minute Travel Sheds at PM Peak



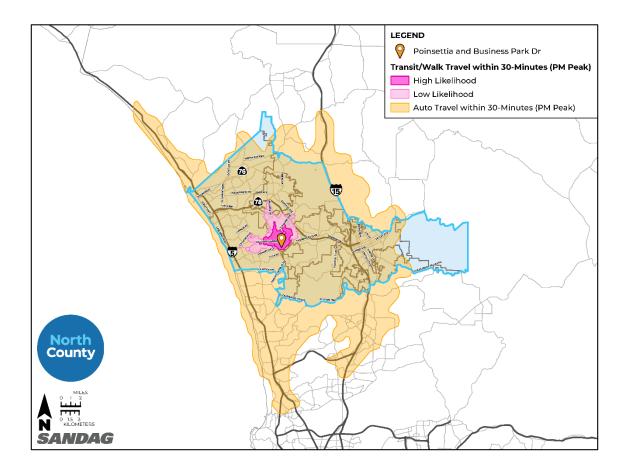


JUNE 2023

North County

1 States

Figure 34: Poinsettia Ave and Business Park Dr, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak







1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,347                          | 29                           | 114                         | 85        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 332,583                        | 3,636                        | 13,592                      | 9,956     |
| Jobs <sup>3</sup>                       | 440,508                        | 21,485                       | 45,415                      | 23,930    |
| Low-Income <sup>2</sup> *               | 81,800                         | 989                          | 4,058                       | 3,069     |
| Senior (65+) <sup>2</sup>               | 145,702                        | 2,060                        | 5,688                       | 3,628     |
| Senior (75+) <sup>2</sup>               | 62,393                         | 730                          | 2,438                       | 1,708     |
| People of Color <sup>2</sup>            | 457,224                        | 2,785                        | 17,590                      | 14,805    |
| Total Population <sup>2</sup>           | 963,352                        | 9,434                        | 37,162                      | 27,728    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 336,321                        | 1,866                        | 13,206                      | 11,340    |
| Jobs                                    | 471,797                        | 21,742                       | 57,396                      | 35,654    |
| Low-Income                              | 282,260                        | 1,220                        | 11,022                      | 9,802     |
| Senior (75+)                            | 59,623                         | 301                          | 2,660                       | 2,359     |
| People of Color                         | 461,497                        | 2,299                        | 16,529                      | 14,230    |
| Total Population                        | 977,789                        | 5,202                        | 36,568                      | 31,366    |

Table 21: Isochrone Summary - Poinsettia Ave and Business Park Dr (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





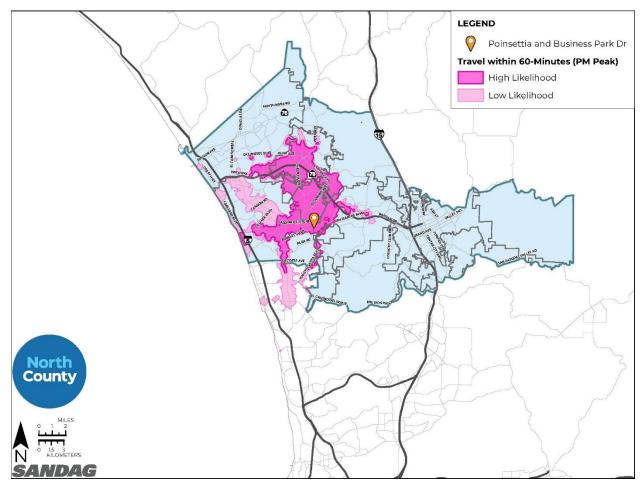


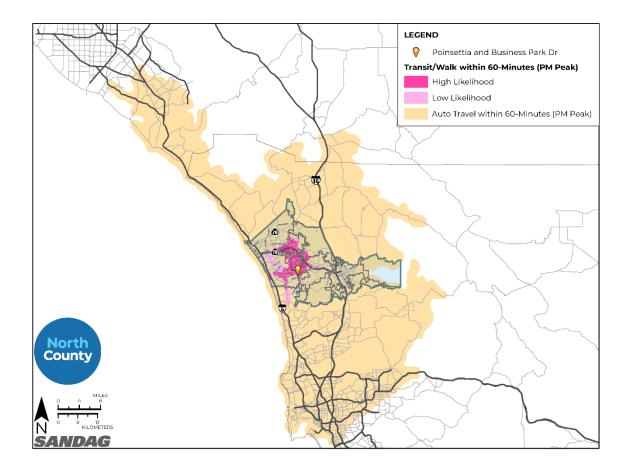
Figure 35: Poinsettia Ave and Business Park Dr, 60-Minute Travel Sheds at PM Peak



North County

1 Same

Figure 36: Poinsettia Ave and Business Park Dr, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

11 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 17,332                         | 247                          | 355                         | 108       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 918,265                        | 34,997                       | 55,405                      | 20,408    |
| Jobs <sup>3</sup>                       | 1,297,069                      | 74,852                       | 124,985                     | 50,133    |
| Low-Income <sup>2</sup> *               | 258,363                        | 9,742                        | 14,896                      | 5,154     |
| Senior (65+) <sup>2</sup>               | 358,793                        | 12,910                       | 22,128                      | 9,218     |
| Senior (75+) <sup>2</sup>               | 153,825                        | 5,595                        | 10,159                      | 4,564     |
| People of Color <sup>2</sup>            | 1,285,031                      | 63,149                       | 80,584                      | 17,435    |
| Total Population <sup>2</sup>           | 2,613,071                      | 108,512                      | 156,408                     | 47,896    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 929,056                        | 37,205                       | 62,614                      | 25,409    |
| Jobs                                    | 1,453,282                      | 78,571                       | 129,650                     | 51,079    |
| Low-Income                              | 805,627                        | 40,356                       | 56,420                      | 16,064    |
| Senior (75+)                            | 154,009                        | 6,565                        | 11,015                      | 4,450     |
| People of Color                         | 1,280,632                      | 62,395                       | 85,845                      | 23,450    |
| Total Population                        | 2,595,612                      | 111,122                      | 175,355                     | 64,233    |

Table 22: Isochrone Summary - Poinsettia Ave and Business Park Dr (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).

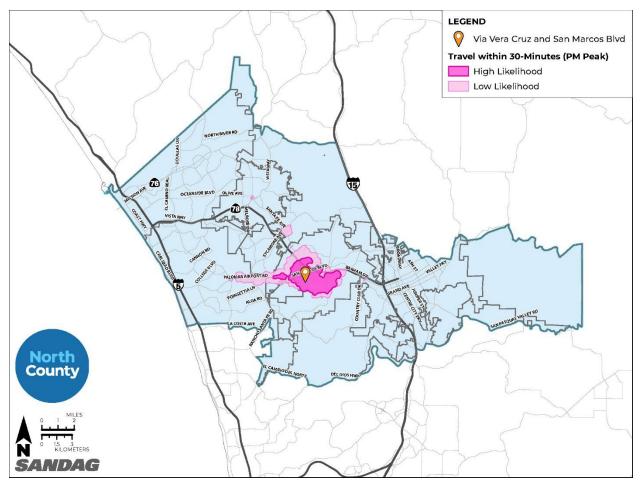


JUNE 2023

North County

## VIA VERA CRUZ AND SAN MARCOS BLVD

Figure 37: Via Vera Cruz and San Marcos Blvd, 30-Minute Travel Sheds at PM Peak

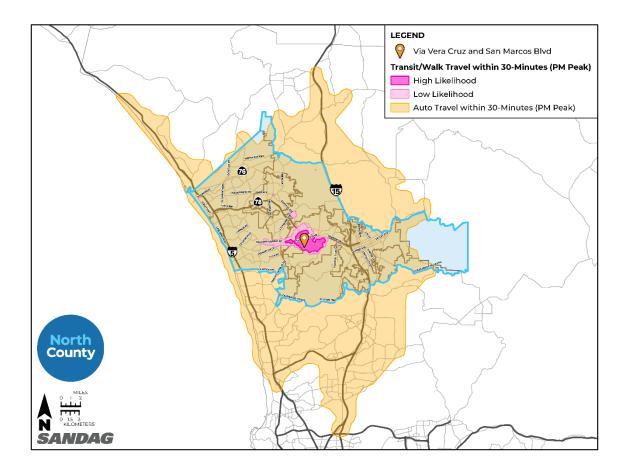




North County

Street.

Figure 38: Via Vera Cruz and San Marcos Blvd, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak







1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,368                          | 65                           | 108                         | 43        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 389,967                        | 3,507                        | 10,077                      | 6,570     |
| Jobs <sup>3</sup>                       | 456,737                        | 16,048                       | 30,752                      | 14,704    |
| Low-Income <sup>2</sup> *               | 91,073                         | 1,388                        | 3,516                       | 2,128     |
| Senior (65+) <sup>2</sup>               | 169,767                        | 1,126                        | 4,846                       | 3,720     |
| Senior (75+) <sup>2</sup>               | 71,107                         | 531                          | 2,292                       | 1,761     |
| People of Color <sup>2</sup>            | 553,557                        | 5,801                        | 17,324                      | 11,523    |
| Total Population <sup>2</sup>           | 1,144,171                      | 9,116                        | 28,334                      | 19,218    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 393,877                        | 5,911                        | 12,967                      | 7,056     |
| Jobs                                    | 483,092                        | 16,259                       | 34,288                      | 18,029    |
| Low-Income                              | 305,332                        | 7,609                        | 15,805                      | 8,196     |
| Senior (75+)                            | 68,485                         | 1,046                        | 2,489                       | 1,443     |
| People of Color                         | 549,036                        | 9,003                        | 21,856                      | 12,853    |
| Total Population                        | 1,144,950                      | 17,992                       | 39,130                      | 21,138    |

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





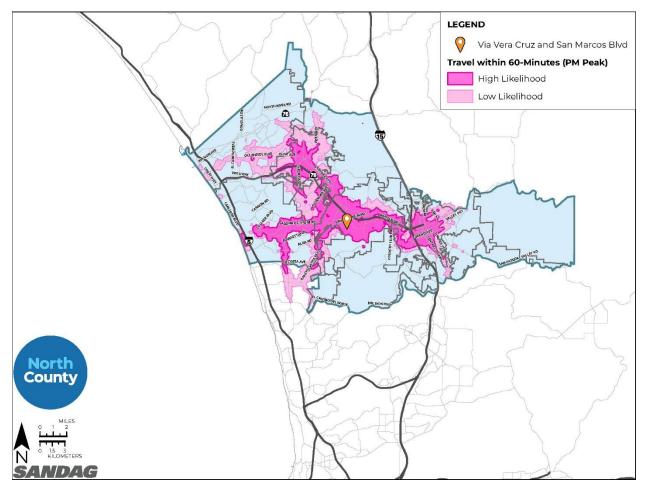


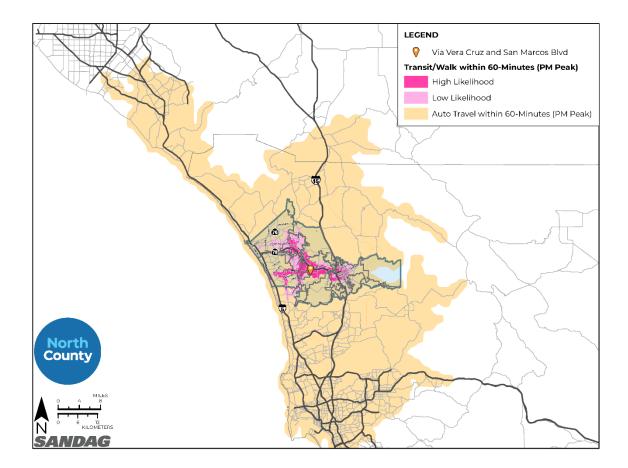
Figure 39: Via Vera Cruz and San Marcos Blvd, 60-Minute Travel Sheds at PM Peak



North County

1 Same

Figure 40: Via Vera Cruz and San Marcos Blvd, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

11 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 19,012                         | 404                          | 614                         | 210       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 1,023,420                      | 42,776                       | 96,298                      | 53,522    |
| Jobs <sup>3</sup>                       | 1,365,330                      | 108,593                      | 168,765                     | 60,172    |
| Low-Income <sup>2</sup> *               | 290,231                        | 16,390                       | 29,816                      | 13,426    |
| Senior (65+) <sup>2</sup>               | 408,567                        | 14,087                       | 33,295                      | 19,208    |
| Senior (75+) <sup>2</sup>               | 174,684                        | 6,381                        | 14,415                      | 8,034     |
| People of Color <sup>2</sup>            | 1,532,830                      | 95,944                       | 182,524                     | 86,580    |
| Total Population <sup>2</sup>           | 2,960,964                      | 137,030                      | 293,725                     | 156,695   |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 1,036,427                      | 50,227                       | 107,851                     | 57,624    |
| Jobs                                    | 1,542,499                      | 120,553                      | 186,258                     | 65,705    |
| Low-Income                              | 926,705                        | 68,735                       | 123,737                     | 55,002    |
| Senior (75+)                            | 172,788                        | 8,291                        | 17,723                      | 9,432     |
| People of Color                         | 1,519,241                      | 98,385                       | 186,359                     | 87,974    |
| Total Population                        | 2,936,076                      | 156,975                      | 324,039                     | 167,064   |

Table 24: Isochrone Summary - Via Vera Cruz and San Marcos Blvd (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).

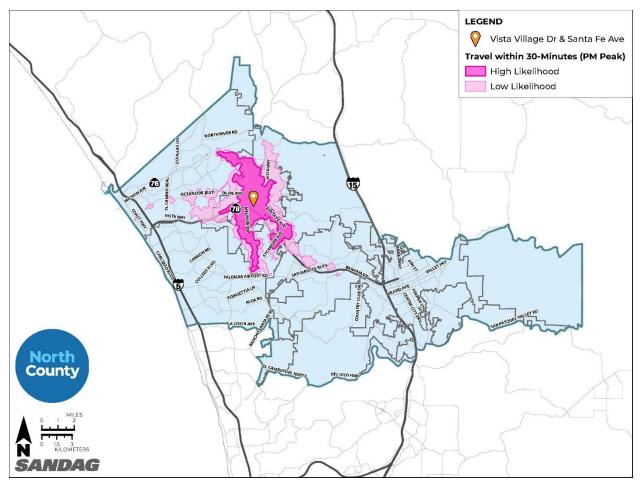


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North County

## VISTA VILLAGE DR AND SANTA FE AVE

Figure 41: Vista Village Dr and Santa Fe Ave, 30-Minute Travel Sheds at PM Peak



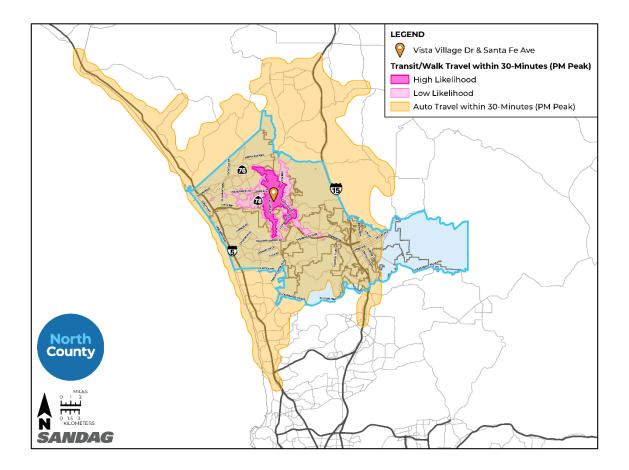


JUNE 2023

North County

Street.

Figure 42: Vista Village Dr and Santa Fe Ave, 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak





North County

1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,059                          | 139                          | 244                         | 105       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 287,844                        | 17,099                       | 31,266                      | 14,167    |
| Jobs <sup>3</sup>                       | 357,777                        | 15,140                       | 44,888                      | 29,748    |
| Low-Income <sup>2</sup> *               | 76,321                         | 4,933                        | 8,946                       | 4,013     |
| Senior (65+) <sup>2</sup>               | 130,752                        | 4,913                        | 9,312                       | 4,399     |
| Senior (75+) <sup>2</sup>               | 56,639                         | 1,960                        | 3,664                       | 1,704     |
| People of Color <sup>2</sup>            | 395,142                        | 36,730                       | 67,168                      | 30,438    |
| Total Population <sup>2</sup>           | 836,334                        | 56,779                       | 103,452                     | 46,673    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 299,981                        | 15,787                       | 38,010                      | 22,223    |
| Jobs                                    | 386,616                        | 16,663                       | 46,080                      | 29,417    |
| Low-Income                              | 271,870                        | 21,107                       | 45,438                      | 24,331    |
| Senior (75+)                            | 54,623                         | 2,498                        | 6,437                       | 3,939     |
| People of Color                         | 411,808                        | 33,092                       | 71,035                      | 37,943    |
| Total Population                        | 872,851                        | 51,837                       | 118,070                     | 66,233    |

Table 25: Isochrone Summary - Vista Village Dr and Santa Fe Ave (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



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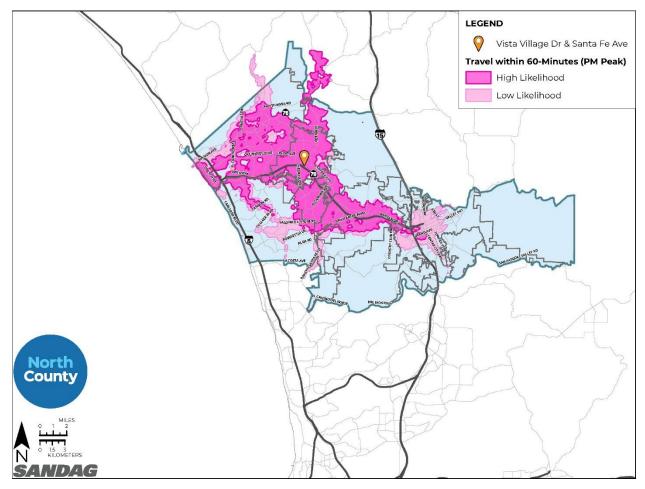


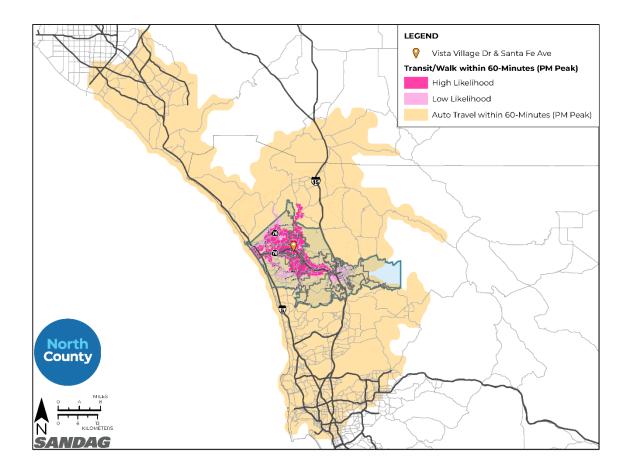
Figure 43: Vista Village Dr and Santa Fe Ave, 60-Minute Travel Sheds at PM Peak



North County

1 Same

Figure 44: Vista Village Dr and Santa Fe Ave, 60-Minute Transit/Walk and Auto Travel Sheds at PM Peak







27 Shaw

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 16,367                         | 505                          | 736                         | 231       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 863,300                        | 88,903                       | 128,731                     | 39,828    |
| Jobs <sup>3</sup>                       | 1,254,482                      | 118,454                      | 184,491                     | 66,037    |
| Low-Income <sup>2</sup> *               | 237,834                        | 26,521                       | 40,393                      | 13,872    |
| Senior (65+) <sup>2</sup>               | 333,407                        | 33,160                       | 47,647                      | 14,487    |
| Senior (75+) <sup>2</sup>               | 142,981                        | 13,777                       | 20,594                      | 6,817     |
| People of Color <sup>2</sup>            | 1,176,006                      | 154,216                      | 230,355                     | 76,139    |
| Total Population <sup>2</sup>           | 2,431,923                      | 259,472                      | 378,458                     | 118,986   |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 874,439                        | 91,946                       | 143,209                     | 51,263    |
| Jobs                                    | 1,394,844                      | 128,140                      | 205,286                     | 77,146    |
| Low-Income                              | 735,131                        | 97,557                       | 156,360                     | 58,803    |
| Senior (75+)                            | 144,602                        | 15,892                       | 24,144                      | 8,252     |
| People of Color                         | 1,174,731                      | 150,284                      | 235,692                     | 85,408    |
| Total Population                        | 2,424,683                      | 265,815                      | 415,310                     | 149,495   |

Table 26: Isochrone Summary - Vista Village Dr and Santa Fe Ave (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).

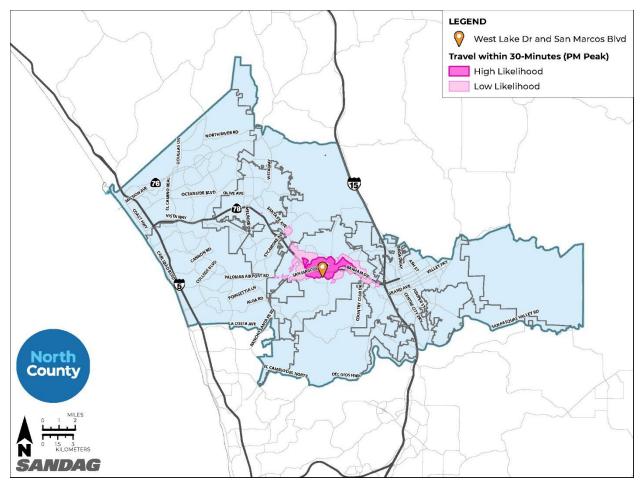


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North County

## WEST LAKE DR AND SAN MARCOS BLVD

Figure 45: West Lake Dr and San Marcos Blvd: 30-Minute Travel Sheds at PM Peak



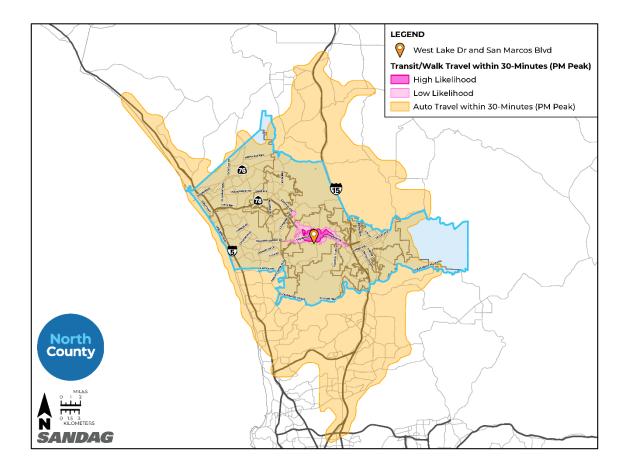


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North County

Street.

Figure 46: West Lake Dr and San Marcos Blvd: 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak







1 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,384                          | 39                           | 95                          | 56        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 390,347                        | 3,122                        | 7,870                       | 4,748     |
| Jobs <sup>3</sup>                       | 471,683                        | 16,653                       | 29,704                      | 13,051    |
| Low-Income <sup>2</sup> *               | 91,371                         | 1,236                        | 3,038                       | 1,802     |
| Senior (65+) <sup>2</sup>               | 170,998                        | 616                          | 2,148                       | 1,532     |
| Senior (75+) <sup>2</sup>               | 71,657                         | 254                          | 984                         | 730       |
| People of Color <sup>2</sup>            | 554,427                        | 10,157                       | 18,873                      | 8,716     |
| Total Population <sup>2</sup>           | 1,147,163                      | 11,675                       | 24,943                      | 13,268    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 393,178                        | 3,433                        | 8,222                       | 4,789     |
| Jobs                                    | 509,309                        | 13,199                       | 32,109                      | 18,910    |
| Low-Income                              | 306,471                        | 6,135                        | 13,169                      | 7,034     |
| Senior (75+)                            | 68,429                         | 480                          | 1,162                       | 682       |
| People of Color                         | 551,181                        | 9,451                        | 19,110                      | 9,659     |
| Total Population                        | 1,144,996                      | 11,678                       | 27,256                      | 15,578    |

Table 27: Isochrone Summary - West Lake Dr and San Marcos Blvd (30-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





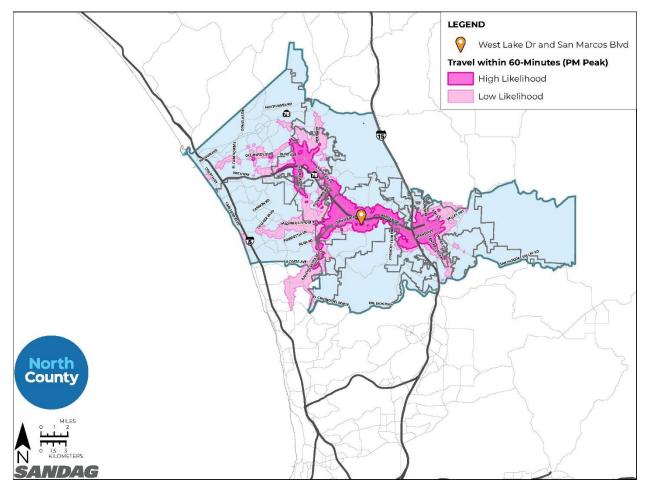


Figure 47: West Lake Dr and San Marcos Blvd: 60-Minute Travel Sheds at PM Peak



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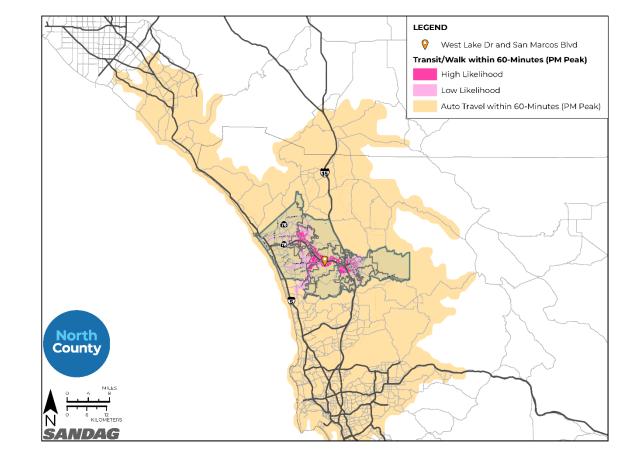


Figure 48: West Lake Dr and San Marcos Blvd: 30-Minute Transit/Walk and Auto Travel Sheds at PM Peak



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| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 19,239                         | 323                          | 538                         | 215       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 1,035,658                      | 34,190                       | 75,579                      | 41,389    |
| Jobs <sup>3</sup>                       | 1,377,327                      | 75,234                       | 148,208                     | 72,974    |
| Low-Income <sup>2</sup> *               | 293,875                        | 14,677                       | 25,615                      | 10,938    |
| Senior (65+) <sup>2</sup>               | 415,025                        | 11,211                       | 26,227                      | 15,016    |
| Senior (75+) <sup>2</sup>               | 177,739                        | 5,250                        | 11,495                      | 6,245     |
| People of Color <sup>2</sup>            | 1,565,709                      | 80,380                       | 155,856                     | 75,476    |
| Total Population <sup>2</sup>           | 3,001,511                      | 108,152                      | 238,316                     | 130,164   |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 1,050,625                      | 37,503                       | 80,818                      | 43,315    |
| Jobs                                    | 1,552,667                      | 86,582                       | 167,112                     | 80,530    |
| Low-Income                              | 943,135                        | 57,796                       | 102,364                     | 44,568    |
| Senior (75+)                            | 175,030                        | 6,163                        | 12,996                      | 6,833     |
| People of Color                         | 1,557,955                      | 80,765                       | 152,631                     | 71,866    |
| Total Population                        | 2,983,257                      | 120,164                      | 250,247                     | 130,083   |

Table 28: Isochrone Summary - West Lake Dr and San Marcos Blvd (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

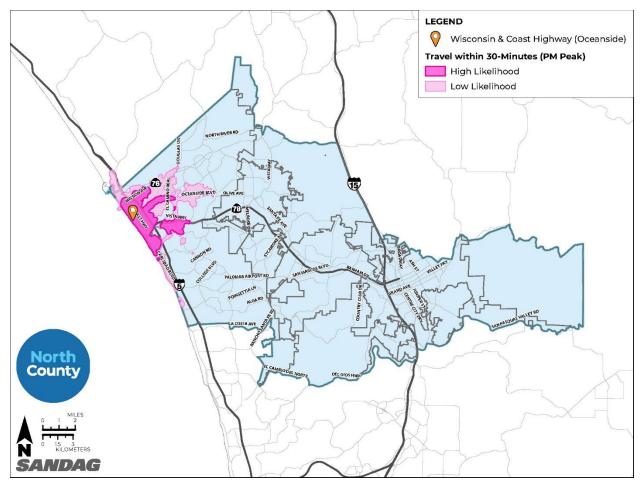
Source: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





## WISCONSIN AVE AND COAST HIGHWAY

Figure 49: Wisconsin Ave and Coast Highway, 30-Minute Travel Sheds at PM Peak

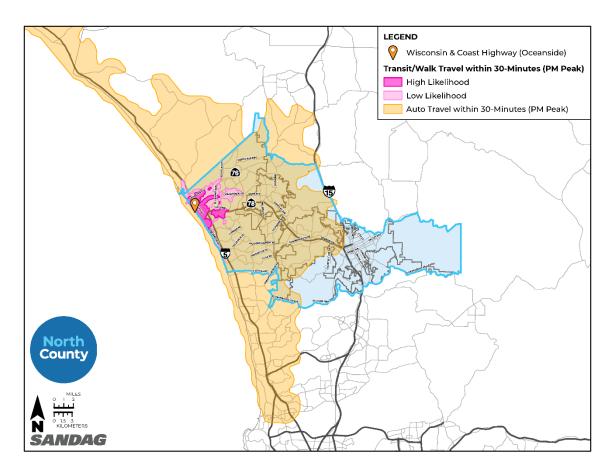




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| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 1,245                          | 115                          | 171                         | 56        |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 257,365                        | 13,974                       | 26,735                      | 12,761    |
| Jobs <sup>3</sup>                       | 418,174                        | 19,959                       | 32,782                      | 12,823    |
| Low-Income <sup>2</sup> *               | 64,496                         | 4,206                        | 8,825                       | 4,619     |
| Senior (65+) <sup>2</sup>               | 106,865                        | 4,116                        | 8,781                       | 4,665     |
| Senior (75+) <sup>2</sup>               | 45,443                         | 1,692                        | 3,523                       | 1,831     |
| People of Color <sup>2</sup>            | 333,879                        | 12,680                       | 31,292                      | 18,612    |
| Total Population <sup>2</sup>           | 745,561                        | 27,906                       | 59,916                      | 32,010    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 264,107                        | 17,153                       | 26,312                      | 9,159     |
| Jobs                                    | 440,427                        | 19,716                       | 33,132                      | 13,416    |
| Low-Income                              | 224,426                        | 14,364                       | 21,398                      | 7,034     |
| Senior (75+)                            | 45,874                         | 2,406                        | 3,774                       | 1,368     |
| People of Color                         | 345,499                        | 19,763                       | 30,503                      | 10,740    |
| Total Population                        | 761,605                        | 40,435                       | 62,794                      | 22,359    |

Table 29: Isochrone Summary - Wisconsin Ave and Coast Highway (30-Minute)

Notes: \*Low-Income ACS data collected at the household level.

Sources: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).





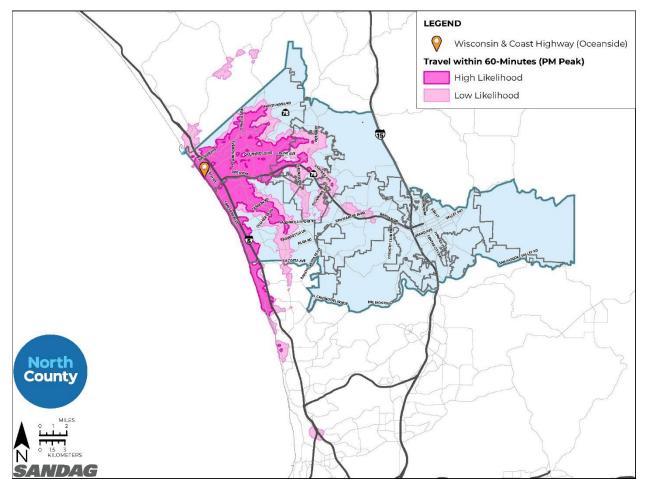


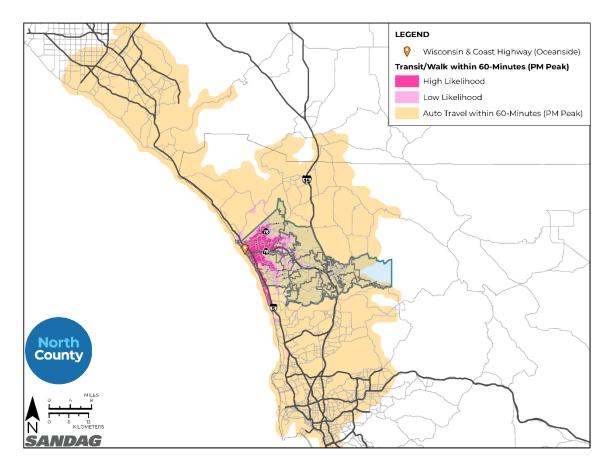
Figure 51: Wisconsin Ave and Coast Highway, 60-Minute Travel Sheds at PM Peak



North County

1 Same









27 Same

| Characteristic<br>Within<br>Travel Shed | Auto<br>Isochrone <sup>†</sup> | High Likelihood<br>Isochrone | Low Likelihood<br>Isochrone | Variation |
|---|--------------------------------|------------------------------|-----------------------------|-----------|
| Destinations <sup>1</sup>               | 17,340                         | 333                          | 532                         | 199       |
| ACS/LEHD Lodes<br>Estimates             |                                |                              |                             |           |
| Housing Units <sup>2</sup>              | 937,531                        | 69,761                       | 102,305                     | 32,544    |
| Jobs <sup>3</sup>                       | 1,313,603                      | 76,671                       | 151,349                     | 74,678    |
| Low-Income <sup>2</sup> *               | 266,489                        | 20,209                       | 28,659                      | 8,450     |
| Senior (65+) <sup>2</sup>               | 367,201                        | 26,392                       | 37,337                      | 10,945    |
| Senior (75+) <sup>2</sup>               | 158,010                        | 11,324                       | 15,776                      | 4,452     |
| People of Color <sup>2</sup>            | 1,343,660                      | 86,863                       | 143,389                     | 56,526    |
| Total Population <sup>2</sup>           | 2,674,198                      | 172,937                      | 270,475                     | 97,538    |
| DS39 Estimates <sup>4</sup>             |                                |                              |                             |           |
| Housing Units                           | 951,701                        | 72,042                       | 114,319                     | 42,277    |
| Jobs                                    | 1,491,089                      | 87,542                       | 162,827                     | 75,285    |
| Low-Income                              | 848,407                        | 57,762                       | 97,752                      | 39,990    |
| Senior (75+)                            | 157,865                        | 11,801                       | 18,854                      | 7,053     |
| People of Color                         | 1,346,452                      | 88,254                       | 150,894                     | 62,640    |
| Total Population                        | 2,676,478                      | 183,759                      | 303,861                     | 120,102   |

Table 30: Isochrone Summary - Wisconsin Ave and Coast Highway (60-Minute)

Notes: <sup>†</sup>Reach analysis only uses data from the San Diego region, data for auto isochrones extending beyond the region's boundary was not included

\*Low-Income ACS data collected at the household level.

Sources: (1) SANGIS/Places Shapefile (2) American Community Survey (ACS) 2019 5-Year Estimates (3) LEHD LODES Dataset (2018) (4) SANDAG DS39 Forecast Estimates 2016 Baseline (2021).



