APPENDIX F

VEHICLE MILES TRAVELED ASSESSMENT

LINSCOTT LAW & GREENSPAN

engineers

VEHICLE MILES TRAVELED ASSESSMENT PEDIATRIC MENTAL AND BEHAVIORAL HEALTH CAMPUS PROJECT October 2022

LLG Ref. 3-22-3603

Prepared by:

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EXECUTIVE SUMMARY

Linscott, Law & Greenspan, Engineers has prepared this Vehicle Miles Traveled Assessment for the Pediatric Mental and Behavioral Health Campus project (hereby referred to as the "Project"). The Project site is located on Birmingham Way east of Meadow Lark Drive on County of San Diego-owned land within the Serra Mesa Community Planning Area of the City of San Diego.

Based on the City of San Diego Transportation Study Manual (September 2020), the proposed Project evaluated transportation impacts under the California Environmental Quality Act using a Vehicle Miles Traveled metric, pursuant to guidance from the Governor's Office of Planning and Research in December 2018 (*Technical Advisory on Evaluating Transportation Impacts in CEQA*).

For VMT analysis purposes, the proposed Project is considered a "Commercial Employment" project-type and therefore, the baseline SANDAG Series 14 ABM 2+, Base Year 2016, Commute VMT per Employee data was reviewed. Per the SANDAG Series 14 ABM 2+ (Base Year 2016) screening map, the Commute VMT per Employee for Census Tract 87.02 is shown as 18.7 and the regional average commute VMT per employee for comparison is 18.9. Therefore, the Project site is approximately 98.9% of the regional average. Using this data, the Project does not screen out from a VMT analysis.

Since the Project did not satisfy the above screening criterion, it must evaluate the VMT produced by the Project. The Project falls under the "Commercial Employment" land use type. The Project is calculated to generate 779 daily unadjusted driveway trips. Therefore, per the TSM standards, the Project's Commute VMT per Employee will be considered the same as the Commute VMT per Employee of the census tract in which it is located (i.e. Census Tract 87.02).

As stated above, the Project is in a census tract with a 18.9 Commute VMT per Employee, or 98.9% of the regional mean. The Project would have a significant VMT impact based on the significance threshold for a "Commercial Employment" project of 15% below the regional mean Commute VMT per Employee. Therefore, mitigation is required to reduce the Project's VMT impact to the greatest extent feasible.

The Project will participate in the City of San Diego's Complete Communities: Mobility Choices Program and rely upon the Findings and Statement of Overriding Considerations (SOC) from the Complete Communities: Housing Solutions and Mobility Choices Program Final Program Environmental Impact Report (PEIR; May 2020) (SCH No. 2019060003) as mitigation to the extent feasible for its significant VMT transportation impact.

The Project will mitigate the significant VMT impact to the extent feasible through compliance with the City of San Diego's Complete Communities: Mobility Choices Program (approved by the City Council on November 9, 2020). The Project is located in Mobility Zone 2. Mitigation will be provision of VMT Reduction Measures totaling at least 5 points per the City of San Diego's Land Development Manual Appendix T, which is required of projects located within Mobility Zone 2

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under the Complete Communities: Mobility Choices program and ordinance. The Project proposes to provide the following VMT Reduction Measures:

- The Project will provide an on-site bicycle repair station (1.5 points)
- The Project will install five (5) electric bicycle charging stations (2 points)
- The Project will provide short-term bicycle parking spaces, at least 10% beyond minimum requirements (1.5 points)

The Project's proposed VMT Reduction Measures total 5 points, which meets the minimum 5 points required to opt into the City of San Diego's Complete Communities Mobility Choices Program and rely upon the Findings and SOC's from the Complete Communities: Housing Solutions and Mobility Choices Final PEIR.

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VEHICLE MILES TRAVELED ASSESSMENT PEDIATRIC MENTAL AND BEHAVIORAL HEALTH CAMPUS October 2022

1.0 INTRODUCTION

Linscott, Law & Greenspan, Engineers (LLG) has prepared this Vehicle Miles Traveled (VMT) Assessment for the Pediatric Mental and Behavioral Health Campus (MBH) Project (hereby referred to as the "Project"). The Project site is located on Birmingham Way east of Meadow Lark Drive on County of San Diego-owned land within the Serra Mesa Community Planning Area of the City of San Diego.

This VMT Assessment has been prepared to evaluate the effects of the Project using VMT, as proposed by the California Governor's Office of Planning and Research (OPR) to implement California State Law Senate Bill (SB) 743. The analysis methodology contained in this report utilizes the City of San Diego's latest Transportation Study Manual (September 2020).

The report is organized as follows:

Section 1.0	Introduction
Section 2.0	Project Description and Trip Generation
Section 3.0	Report Approach
Section 4.0	VMT Significance Criteria & Methodology
Section 5.0	Project VMT Assessment
Section 6.0	VMT Impact Summary and Implementation

2.0 PROJECT DESCRIPTION

2.1 Project Location

The Project site is located on Birmingham Way east of Meadow Lark Drive on County of San Diego-owned land within the City of San Diego, south of the Interstate (I)-805 and State Route (SR) 163 freeway interchange in the Serra Mesa Community Planning Area. The Project site is located along Birmingham Way on the San Diego Youth Transition Center (YTC) —formerly the Juvenile Justice Center (JJC) — and is adjacent to the Rady Children's Hospital-San Diego (RCHSD) and Sharp Memorial Hospital campuses.

Figure 2–1 shows the vicinity map. *Figure 2–2* shows a more detailed Project area map.

2.2 Project Description

The Project includes the construction of two new patient care buildings totaling approximately 93,000 square feet (SF). These are the Outpatient Psychiatric Clinic and the Inpatient Acute Psychiatric Hospital.

The approximately 11,000-SF Outpatient Psychiatric Clinic would provide outpatient services, administration and academic services, clinical ancillary services, and facility support services. It is expected to serve approximately 72 patients per day in two 36-patient blocks. The facility would be constructed on the north-central area of the Project site and would be a one-story building.

The approximately 82,000-SF Inpatient Acute Psychiatric Hospital would include the Acute Psychiatric Unit and the Crisis Stabilization Unit with a combined total of 84 beds. The Acute Psychiatric Hospital would include up to 60 beds, all in private rooms and in five 12-bed neighborhoods. The Crisis Stabilization Unit within the hospital would include 24 beds in two 12-bed neighborhoods. This building would be constructed on the eastern portion of the Project site and would be a four-story building.

Construction of the Project is expected to take 24 to 30 months. Construction would begin with demolition of the surface parking lot and is expected to start in 2024, with the Opening Year considered as Year 2027.

Figure 2–3 depicts the conceptual site plan.

2.3 Project Trip Generation

Table 2–1 summarizes the Project's estimated trip generation. As shown in *Table 2–1*, the Project is estimated to generate approximately 779 Average Daily Trips (ADT) with 62 AM peak hour trips (46 inbound / 16 outbound) and 78 PM peak hour trips (23 inbound / 55 outbound).

The trip generation calculations for the outpatient uses were based on the "Medical Office" trip rates found in the City of San Diego *Trip Generation Manual (May 2003)*. Specifically, half of the City's "Medical Office" driveway trip rate was assumed based on the Project's proposed uses. This is a conservative assumption because the Project's outpatient use is expected to serve approximately 72

patients per day in two 36-patient blocks. Assuming each patient generates two (2) ADT (in and out of the site) equates to 144 ADT. A very conservative estimate of one health care worker for each of the patients in the 36-patient block results in an additional 72 ADT (assuming each health care worker generates two (2) ADT), for a total of 216 ADT. Therefore, the 275 ADT calculated for the outpatient facility is a conservative estimate.

There are no published trip rates for inpatient behavioral hospitals in the City's *Trip Generation Manual* or in the SANDAG or ITE trip generation publications. Therefore, the trip generation calculations for the Project's inpatient uses were based on a trip generation study conducted by LLG in 2021 (included in *Appendix A*). This comprehensive study included five (5) behavioral health hospitals with nine (9) days of counts at each location, and resulted in a calculated trip rate of approximately six (6) ADT per bed.

		Daily Trip Ends (ADT)			AM Peak Hour			PM Peak Hour					
Land Use	Quantity					Volume				Volume		e	
		Rate ^a	Volume	% of 1 ADT	In:Out Split	In	Out	Total	% of ADT	In:Out Split	In	Out	Total
Inpatient Facility	84 Beds	6/Bed ^b	504	9%	70:30	32	13	45	10%	30:70	15	35	50
Outpatient Facility	11 KSF	25/KSF ^c	275	6%	80:20	14	3	17	10%	30:70	8	20	28
Total Proposed Trips	-	-	779	-	-	46	16	62	-	-	23	55	78

TABLE 2–1 PROJECT TRIP GENERATION

Footnotes:

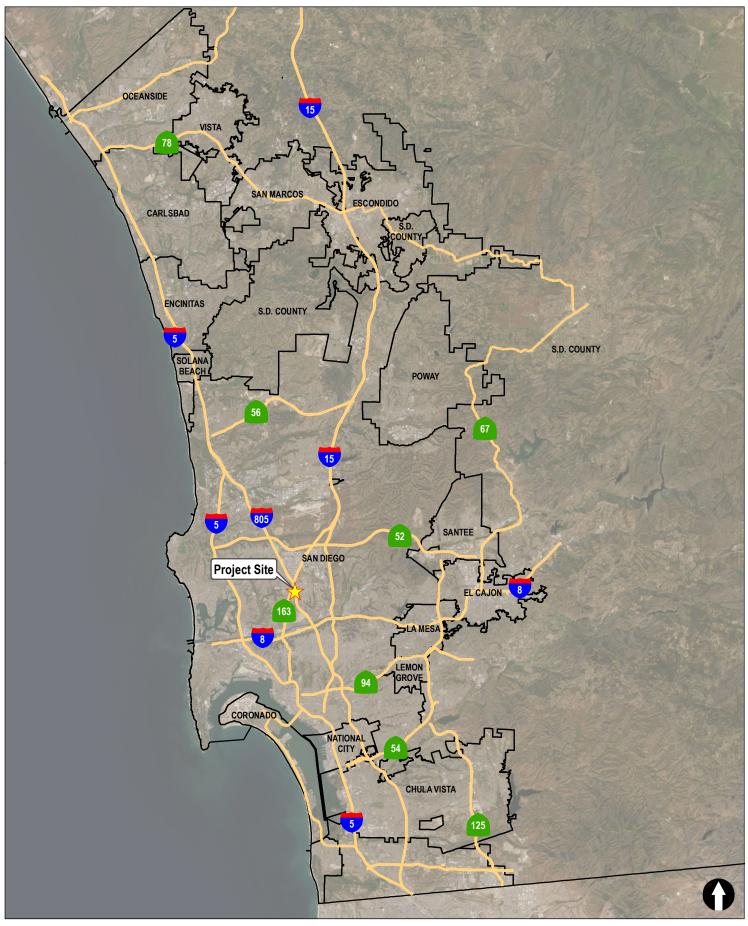
a. Trip rates based on the Trip Generation Manual, City of San Diego, May 2003.

b. Trip rate based on a Trip Generation Study conducted by LLG in 2021 focusing on Inpatient Behavioral Hospital related land uses. This study resulted in a land use specific trip rate of 6 ADT/Bed.

c. Half of the City's Medical Office Driveway Trip Rate assumed based on the proposed uses. This is a conservative assumption because the Project's Outpatient use is expected to serve approximately 72 patients per day in two 36-patient blocks. Assuming each patient generates two (2) ADT (in and out of the site) equates to 144 ADT. A very conservative estimate of one health care worker for each of the patients in the 36-patient block results in an additional 72 ADT (assuming each health care worker generates two (2) ADT), for a total of 216 ADT. Therefore, the 275 ADT calculated for the Outpatient facility is a conservative estimate.

d. KSF - 1,000 Square Feet.

Pediatric Mental and Behavioral Health Project



GREENSPAN

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Figure 2-1

Vicinity Map

Pediatric Mental and Behavioral Health Campus

engineer

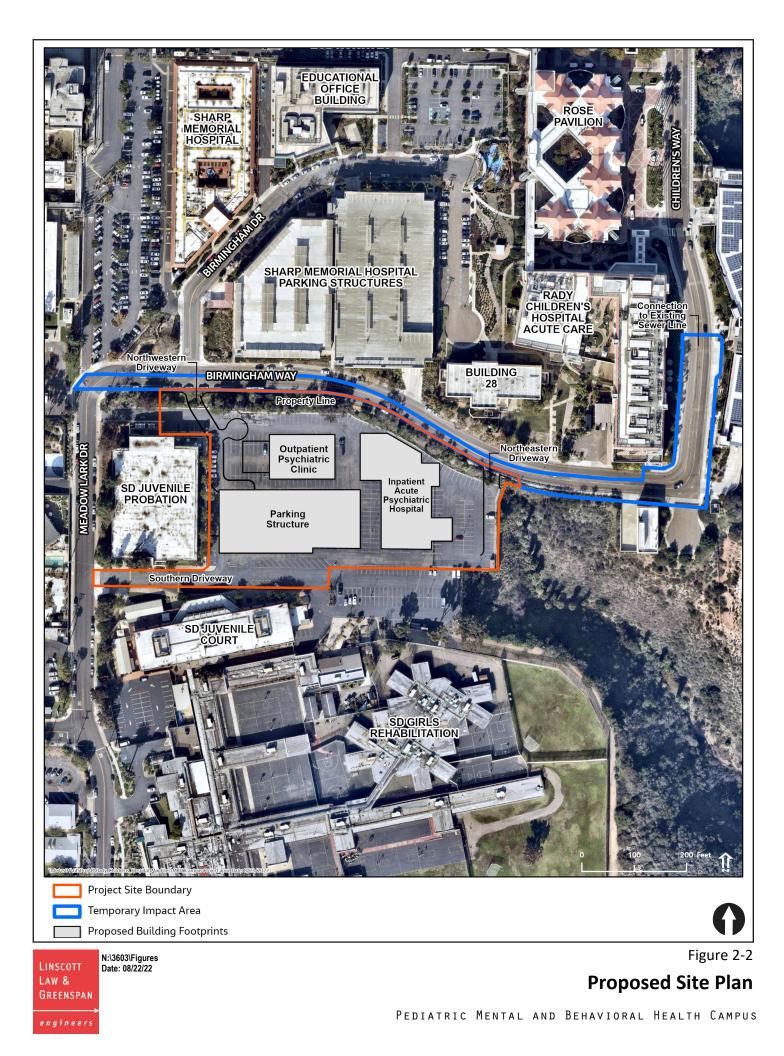
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Figure 2-2
Project Area Map

PEDIATRIC MENTAL AND BEHAVIORAL HEALTH CAMPUS



3.0 REPORT APPROACH

3.1 VMT Background

VMT is defined as the "amount and distance of automobile travel attributable to a project" per California Environmental Quality Act (CEQA) Guidelines Section 15064.3. VMT is a measure of the use and efficiency of the transportation network as well land uses in a region. VMT is calculated based on individual vehicle trips generated and their associated trip lengths. VMT accounts for two-way (roundtrip) travel and is estimated for a typical weekday for the purposes of measuring transportation impacts.

3.2 Vehicle Miles Traveled

The potential transportation impacts of the proposed Project are based on VMT to satisfy the CEQA guidelines through SB 743. Public Resources Code section 20199, enacted pursuant to SB 743, identifies VMT as an appropriate metric for measuring transportation impacts along with the elimination of auto delay/ Level of Service (LOS) for CEQA purposes statewide, effective July 1, 2020. The justification for this paradigm shift is that auto delay/LOS impacts may lead to improvements that increase roadway capacity and therefore sometimes induce more traffic and greenhouse gas emissions. In contrast, constructing projects in VMT-efficient locations assists California in meeting greenhouse gas emissions targets. Therefore, consistent with SB 743 and CEQA Guidelines 15064.3, the CEQA significance determination for the Project is based only on VMT and not on LOS.

4.0 VMT SIGNIFICANCE CRITERIA & METHODOLOGY

4.1 Local / Regional Agency Transition to SB743

The County of San Diego does not currently have published VMT analysis guidelines. A Transportation Study Manual (TSM) has been published by the City of San Diego on September 29, 2020 and was adopted by City Council on November 9, 2020 as part of the Complete Communities: Mobility Choices program. Given that the City of San Diego has developed significance thresholds and technical methodologies, the TSM was utilized for this report.

4.2 Significance Criteria

According to the City of San Diego's TSM, the transportation VMT thresholds of significance are shown in *Table 4–1*. Since this proposed Project is considered 100% commercial employment, the Commute VMT/Employee threshold applies as shown below.

Land Use Type ¹	Thresholds for Determination of a Significant Transportation VMT Impact ²
Commercial Employment	15% below regional average ³
Commercial Employment	Commute VMT/Employee

 TABLE 4–1

 VMT Significance Thresholds

Source: Table 3: Transportation VMT Thresholds of Significance by Land Use per the TSM, September 2020 *Footnotes:*

1. See *Appendix B* of the TSM for specific land use designations.

2. Projects that exceed these thresholds would have a significant impact.

3. The regional average and total regional VMT are determined using the SANDAG Regional Travel Demand Model.

4.3 Project-Specific Significance Threshold

The project-specific significance threshold for the Project is comprised of the following two components, and each are explained in detail below.

- City of San Diego Screening Criteria
- VMT Analysis Methodology

4.3.1 City of San Diego Screening Criteria

According to the TSM, a project that meets at least one of the following screening criteria would have less than significant VMT impact due to project characteristics and/or location.

- 1. **Residential or Commercial Project Located in a VMT Efficient Area:** The project is a residential or commercial employment project located in a VMT efficient area (15% or more below the base year average household VMT/capita or VMT/employee) based on the applicable location-based screening map produced by SANDAG.
- 2. Industrial Project Located in a VMT Efficient Area: The project is an industrial employment project located in VMT efficient area (in an area with average or below average

base year VMT/employee) based on the applicable location-based screening map produced by SANDAG.

- 3. **Small Project:** The project is a small project defined as generating less than 300 daily unadjusted driveway trips using the City of San Diego trip generation rates/procedures.
- 4. Locally Serving Retail/Recreational Project: The project is a locally serving retail/recreational project defined as having 100,000 square feet gross floor area or less and demonstrates through a market area study that the market capture area for the project is approximately three miles (or less) and serves a population of roughly 25,000 people or less. Locally serving retail is consistent with the definitions of Neighborhood Shopping Center in the San Diego Municipal Code Land Development Code Trip Generation Manual. Locally serving recreation is consistent with the land uses listed in Appendix B of the TSM, given that it meets the square footage and market capture area above. Adding retail/recreation square footage (even if it is 100,000 square feet gross floor area or less) to an existing regional retail shopping area is **not** screened out.
- 5. Locally Serving Public Facility: The project is a locally serving public facility defined as a public facility that serves the surrounding community or a public facility that is a passive use. The following are considered locally serving public facilities: transit centers, public schools, libraries, post offices, park-and-ride lots, police and fire facilities, and government offices. Passive public uses include communication and utility buildings, water sanitation, and waste management.
 - 6. Affordable Housing: The project has access to transit* and is wholly or has a portion that meets one of the following criteria: is affordable to persons with a household income equal to or less than 50% of the area median income (as defined by California Health and Safety Code Section 50093), housing for senior citizens [as defined in Section 143.0720I], housing for transitional foster youth, disabled veterans, or homeless persons [as defined in 143.0720(f)]. The units shall remain deed restricted for a period of at least 55 years. The project shall provide no more than the minimum amount of parking per unit, per San Diego Municipal Code Section 143.0744. Only the portion of the project that meets the above criteria is screened out. For example, if the project is 100 units with ten deed-restricted affordable housing units, transportation VMT analysis would not be necessary for the ten affordable units but would be necessary for the remaining 90 units (unless they meet one of the other screening criteria). For purposes of applying the small project screening criteria, the applicant would only include the trip generation for the non-affordable housing portion of the project (since the affordable housing portion is screened out).

*Access to transit is defined as transit being located within a reasonable walking distance (1/2 mile) from the project driveway.

7. **Mixed-Use Project Screening Considerations:** The project's individual land uses should be compared to the screening criteria above. It is possible for some of the mixed-use project's land uses to be screened out and some to require further analysis. For purposes of applying

the small project screening criteria, the applicant would only include the trip generation for portions of the project that are not screened out based on other screening criteria. For example, if a project includes residential and retail, and the retail component was screened out because it is locally serving; only the trip generation of the residential portion would be used to determine if the project meets the definition of a small project.

8. **Redevelopment Project Screening Considerations:** The project is a redevelopment project that demonstrates that the proposed project's total project VMT is less than the existing land use's total VMT. Exception: If a project replaces affordable housing (either deed restricted or other types of affordable housing) with a smaller number of moderate-income or high-income residential units, the project is not screened out and must analyze VMT impacts per *Table 3* of the TSM.

4.3.2 Analysis Methodology

If a project is not screened out using City criteria, the following methodology for completing the VMT analysis should be performed. Per the TSM, for commercial employment projects that are expected to generate less than 2,400 daily unadjusted driveway trips, the project can use the SANDAG Regional Travel Demand Model to calculate the project's Commute VMT per Employee. By utilizing the SANDAG screening map, the Commute VMT per Employee can be observed at both the regional and census tract level. Definitions of these efficiency metrics are described below per the TSM:

Commute VMT per Employee: Includes all vehicle-based employee trips grouped and summed to the work location of individuals on the trip. This includes all work-related trips. The VMT for each work location is then summed for all work locations in a particular census tract and divided by the number of employees of that census tract to arrive at Commute VMT per employee.

Table 4–2 further details the SANDAG methodology based on the land use per the TSM.

Land Use Type	Analysis Methodology
Commercial	For projects that generate less than 2,400 daily unadjusted driveway trips: Identify the location of the project on the SANDAG Employee VMT/Employee map. The project's Employee VMT/Employee will be considered the same as the Employee VMT/Employee of the census tract it is located in. Compare the project's Employee VMT/Employee to the threshold to determine if the impact is significant OR input the project into the SANDAG Regional Travel Demand Model to determine the project's Employee VMT/Employee.
Employment	For projects that generate greater than 2,400 daily unadjusted driveway trips: Input the project into the SANDAG Regional Travel Demand Model for SANDAG to provide the project's Employee VMT/Employee. To perform the analysis, all project land uses should be inputted, and the VMT/Employee should be determined using the same method/scripts that SANDAG utilizes to develop the SANDAG Employee VMT/Employee maps.

 TABLE 4–2

 TRANSPORTATION VMT ANALYSIS METHODOLOGY BY LAND USE

Source: City of San Diego TSM (September 2020) Table 4: Transportation VMT Analysis Methodology by Land Use

5.0 PROJECT VMT ASSESSMENT

5.1 TSM Screening Criteria

Based on the screening criteria described in *Section 4.3.1*, the Project does not screen out from a VMT analysis as detailed below. *Table 5–1* summarizes the Project applicability of the TSM screening criteria.

Screening Criteria ¹	Applicable to the Project?	Project Screen out?
1. Residential or Commercial Project Located in a VMT Efficient Area	Yes	No
2. Industrial Project Located in a VMT Efficient Area	No	
3. Small Project	No	
4. Locally Serving Retail/Recreational Project	No	
5. Locally Serving Public Facility	No	
6. Affordable Housing	No	
7. Mixed-Use Project Screening Considerations	No	
8. Redevelopment Project Screening Considerations	No	

 TABLE 5–1

 VMT Screening Criteria – Project Applicability

Footnotes:

1. According to the TSM, September 2020.

Screening Criteria 1:

<u>Residential or Commercial Project Located in a VMT Efficient Area:</u> "The project is a residential or commercial employment project located in a VMT efficient area (15% or more below the base year average household VMT/capita or VMT/employee) based on the applicable location-based screening map produced by SANDAG."

Result:

The proposed Project is a commercial employment project, however, per the SANDAG Series 14 ABM 2+ (Base Year 2016) screening map, the Commute VMT per Employee for Census Tract 87.02 is shown as 18.7 and the regional average commute VMT per employee for comparison is 18.9. Therefore, the Project site is approximately 98.9% of the regional average. Using this data, the Project does not screen out from a VMT analysis. *Appendix B* contains excerpts of the SANDAG screening map.

5.2 Project VMT Assessment

Since the Project did not satisfy the above screening criterion, it must evaluate the VMT produced by the Project. As shown in *Table 4–1* earlier in this report, the Project falls under the "Commercial Employment" land use type. As shown in *Table 2–1*, the Project is calculated to generate 779 daily

unadjusted driveway trips. Therefore, per the TSM standards, the Project's Commute VMT per Employee is considered the same as the Commute VMT per Employee of the census tract in which it is located (i.e. Census Tract 87.02).

Per the SANDAG Series 14 ABM 2+ Model Base Year 2016 available on the website¹, the Project site is located in Census Tract 87.02 with a Commute VMT per Employee of 18.7. The regional average Commute VMT per Employee is 18.9 miles and the 85% regional VMT threshold is calculated as 16.07 miles. The Project's Commute VMT per Employee shown to be 98.9% of the regional average, which is higher than the 85% significance threshold. Therefore, based on the significance criteria, the Project is calculated to result in a significant transportation impact.

Table 5–2 shows the results of the VMT assessment comparison.

Scenario	Regional Baseline VMT (miles)	Significance Threshold (miles)	Project Commute VMT per Employee (miles)	Percentage of Regional Average	Transportation Impact? (Over Threshold)
Proposed Project	18.9	16.1	18.7	98.9%	Yes

TABLE 5–2 PROJECT VMT FINDINGS

 $^{^{1}\} https://sandag.maps.arcgis.com/apps/webappviewer/index.html?id=bb8f938b625c40cea14c825835519a2b$

6.0 VMT ASSESSMENT SUMMARY AND MITIGATION

6.1 VMT Assessment Summary

The Project was determined to have a significant VMT impact using the methodology applied from the City of San Diego TSM, September 2020. The Project's Commute VMT per Employee was determined to be 18.7, which is 98.9% of the regional average Commute VMT per Employee of 18.9 miles.

6.2 Mitigation

The Project will participate in the City of San Diego's Complete Communities: Mobility Choices Program and rely upon the Findings and Statement of Overriding Considerations (SOC) from the Complete Communities: Housing Solutions and Mobility Choices Program Final Program Environmental Impact Report (PEIR; May 2020) (SCH No. 2019060003) as mitigation to the extent feasible for its significant VMT transportation impact.

The San Diego Municipal Code Ordinance Number O-21274, adopted on December 9, 2020, provides the development regulations for the Mobility Choices portion of the Complete Communities program. According to the ordinance, the Project is located in Mobility Zone 2, which means it is located either partially or entirely within a Transit Priority Area. The Project's location on the City's Complete Communities Mobility Zones map is included in *Appendix C*.

SDMC Section 143.1103(b) states that all development located within Mobility Zone 2 is required to provide VMT Reduction Measures in accordance with the City of San Diego's Land Development Manual Appendix T. The City of San Diego's Land Development Manual Appendix T includes a list of VMT Reduction Measures, each of which are given an assigned point value per unit of measure. Per SDMC Section 143.1103(b), developments in Mobility Zone 2 are required to provide VMT Reduction Measures totaling at least 5 points or may pay the Active Transportation In Lieu Fee instead of providing the VMT Reduction Measures.

The Project will provide measures as required by the ordinance that add up to at least 5 points as identified in the City of San Diego's Land Development Manual Appendix T. The Project will provide the following measures described in *Table 6–1* below. As shown in *Table 6–1*, the Project's proposed VMT Reduction Measures total to 5 points, which meets the minimum 5 points required to opt in. Therefore, the Project will mitigate its significant VMT transportation impact to the extent feasible by opting into the City of San Diego's Complete Communities Mobility Choices Program and relying upon the Findings and SOC's from the Complete Communities: Housing Solutions and Mobility Choices Final PEIR.

Category	Measures	Points
	The Project will provide an on-site bicycle repair station	1.5
Bicycle Supportive	The Project will install five (5) electric bicycle charging stations.	2
Measures	The Project will provide short-term bicycle parking spaces, at least 10% beyond minimum requirements.	1.5

 TABLE 6–1

 MOBILITY CHOICES VMT REDUCTION MEASURES

TECHNICAL APPENDICES TO THE VMT STUDY PREPARED FOR THE: PEDIATRIC MENTAL AND BEHAVIORAL HEALTH CAMPUS October 2022

LLG Ref. 3-22-3603

Linscott, Law & Greenspan, Engineers 4542 Ruffner Street Suite 100 San Diego, CA 92111 858.300.8800 T 858.300.8810 F www.llgengineers.com

APPENDIX A

BEHAVIORAL HEALTH TRIP GENERATION STUDY

January 27, 2021

Mr. Scott Barker City of Chula Vista 276 Fourth Avenue Chula Vista, California 91910

LLG Reference: 3-18-3022

Subject: Eastlake Behavioral Hospital, Trip Generation Study

Dear Scott:

N:\3022\Trip Gen\Trip Generation Study.docx

Linscott, Law & Greenspan, Engineers (LLG) completed a traffic study for the subject project that has been approved by the City and that was part of the CEQA process. The project is a 120-bed hospital to be located at the termius of Showroom Place, north of Fenton Street in the City of Chula Vista. The traffic study used the SANDAG Trip Rate for "General Hospitals" since a rate for "Behavioral Hospitals" does not exist.

In order to forecast a more accurate trip rate for the project (to be used outside of the CEQA world), LLG commissioned a nine (9) day traffic count (3 successive weeks of Tuesday – Thursday counts) at five west coast Behavioral Hospitals with similar characteristics to the proposed Chula Vista location. *Table A* shows a summary of the 5 Behavioral Hospitals, including the location, number of beds, and dates counted. All counts were conducted with video technology. *Appendix A* contains aerials and details of each hospital site.

Table B shows that results of the counts. The highest ADT per bed rate was calculated to be 7.86 and the lowest 3.22. The average trip rate was 5.68 ADT per bed. *Appendix B* contains the detailed trip calculations for each hospital.

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Engineers & Planners Traffic Transportation Parking

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Philip M. Linscott, PE (1924-2000) William A. Law, PE (1921-2018) Jack M. Greenspan, PE (Ret.) Paul W. Wilkinson, PE (Ret.) John P. Keating, PE David S. Shender, PE John A. Boarman, PE Clare M. Look-Jaeger, PE Richard E. Barretto, PE Keil D. Maberry, PE Walter B. Musial, PE An LG2WB Company Founded 1966 Mr. Scott Barker January 27, 2021 Page 2

engineers

In summary, there are no published trip rates for Behavioral Hospitals in SANDAG or ITE publications. Therefore, a comprehensive study of 5 locations with 9 days of counts at each location was conducted and a trip rate of 5.68 ADT per bed was calculated. LLG believes this is an accurate rate to be used for the purpose of fee calculations. It is not proposed to use this trip rate in the CEQA traffic study.

Please call me if you have any questions.

Sincerely, Linscott, Law & Greenspan, Engineers

John Boarman, P.E. Principal California Registration: C50033

JB:wcs cc: File

Table A
Behavioral Health Hospital Sites

Hospital	Address	City	Number of Beds	Dates Counted (2020)	
1. Pacific Grove Behavioral Health Hospital	5900 Stockton Avenue	Riverside, CA	62	10/27-10/29, 11/10-11/13, 11/17-11/19	
2. Oasis Behavioral Health Hospital	2190 N. Grace Boulevard	90 N. Grace Boulevard Chandler, AZ		10/27-10/29, 11/10-11/13, 11/17-11/19	
3. Sonora Behavioral Health Hospital	6050 N. Corona Road	Tucson,AZ	140	10/27-10/29, 11/10-11/13, 11/17-11/19	
4. San Jose Behavioral Health Hospital	455 Silicon Valley Boulevard	San Jose, CA	80	10/27-10/29, 11/10-11/13, 11/17-11/19	
5. Cascade Behavioral Health Hospital	12844 Military Road S.	Tukwila, AZ	137	10/27-10/29, 11/10-11/13, 11/17-11/19	

1/28/2021

Table BBehavioral Health HospitalsTrip Generation Summary

	Hospital	Location	# of Beds	Avera	Trip Rate		
	nospital	Location	# OI Deus	Entering	Exiting	Total	
1	Pacific Coast Hospital	Riverside, CA	62	190	191	381	6.14
2	Oasis Behavioral Health Hospital	Chandler, AZ	146	326	323	649	4.44
3	Sonora Behavioral Health Hospital	Tucson, AZ	140	225	226	451	3.22
4	San Jose Behavioral Health Hospital	San Jose, CA	80	267	270	538	6.72
5	Cascade Behavioral Health Hospital	Tukwila, WA	137	540	537	1,077	7.86

Average Trip Rate 5.68

APPENDIX A

BEHAVIORAL HOSPITAL SITES

Pacific Grove Behavioral Health Hospital – Riverside, CA

Address: 5900 Brockton Ave, Riverside, CA 92506



Oasis Behavioral Health Hospital – Chandler, AZ

Address: 2190 N Grace Blvd, Chandler, AZ 85225



Sonora Behavioral Health Hospital – Tucson, AZ

Address: 6050 N Corona Rd, Tucson, AZ 85704



San Jose Behavioral Health Hospital – San Jose, CA

Address: 455 Silicon Valley Blvd, San Jose, CA 95138



Cascade Behavioral Health Hospital – Tukwila, WA

Address: 12844 Military Rd S, Tukwila, WA 98168



APPENDIX B

TRIP CALCULATIONS PER SITE

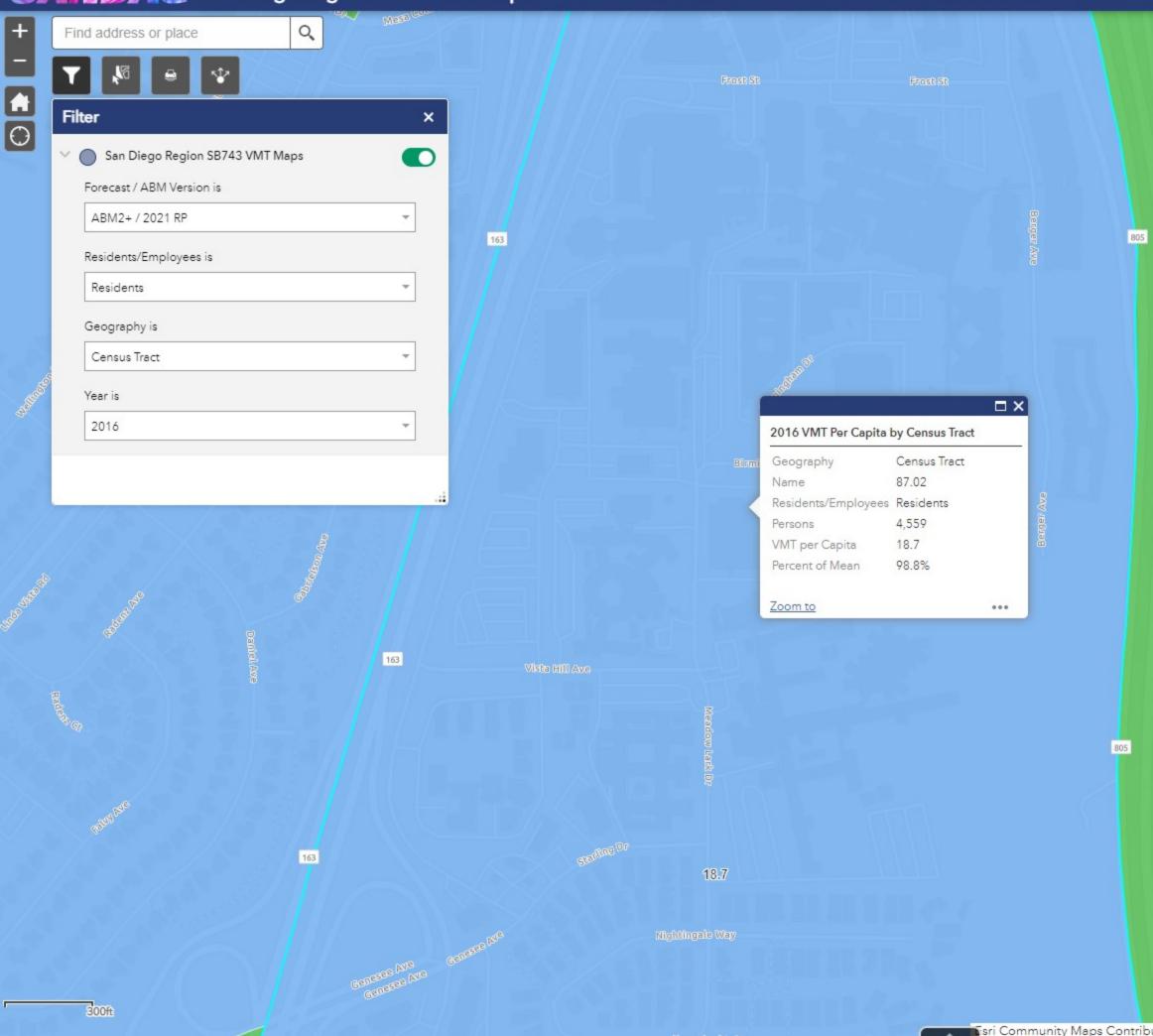
	E	Eastlake Beha	vioral Health	1		1								
		Trip Generatio	on Calculation											
									Drive	way Raw D	ata			
					Average	27-Oct	28-Oct	29-Oct	10-Nov	12-Nov	13-Nov	17-Nov	18-Nov	19-Nov
				Entering	139	122	139	138	132	140	140	139	156	147
			Driveway 1	Existing	128	107	123	134	119	121	136	137	145	130
				Total	267	229	262	272	251	261	276	276	301	277
1	Pacific Coast Hospital			Entering	51	42	43	64	50	53	59	53	46	50
		Riverside, CA	Driveway 2	Existing	63	54	63	67	65	62	64	62	65	61
-				Total	114	96	106	131	115	115	123	115	111	111
				Entering	190	164	182	202	182	193	199	192	202	197
			Total Site	Existing	191	161	186	201	184	183	200	199	210	191
				Total	381	325	368	403	366	376	399	391	412	388
				Number of Beds	62	-								
				Trip Rate per bed	6.14	4								
					A	27.0.1	20.0.1	20.0.1	10 No.	42 No.	12 No.	47 No.	10 No.	40 No.
				Entering	Average 326	27-Oct 352	28-Oct 315	29-Oct 344	10-Nov 312	12-Nov 337	13-Nov 334	17-Nov 316	18-Nov 306	19-Nov 314
			Driveway 1	Entering Existing	320		315		312	337	338 338	315	306	314 318
2		Chandler, AZ		Total	649	331 683	321 636	346 690	308 620	335 672	338 672	305 621	306 612	632
	Oasis Behavioral Health Hospital		Total Site	Entering	326	352	315	3 44	312	337	334	316	306	632 314
				Existing	323	331	321	344 346	308	335	334 338	305	306	314 318
				Total	649	683	636	690	620	555 672	556 672	621	612	632
				Number of Beds	146	085	030	090	020	072	072	021	012	032
				Trip Rate per bed	4.44	1								
				inpitate per bed		-								
					Average	27-Oct	28-Oct	29-Oct	9-Nov	10-Nov	12-Nov	17-Nov	18-Nov	19-Nov
	Sonora Behavioral Health Hospital	Tuscon, AZ		Entering	38	42	31	34	35	36	38	38	40	49
			Driveway 1	Existing	61	65	68	50	58	54	49	70	66	71
				Total	99	107	99	84	93	90	87	108	106	120
			Driveway 2	Entering	187	176	209	180	182	176	173	193	187	208
2				Existing	165	161	165	169	158	158	163	158	164	185
3				Total	352	337	374	349	340	334	336	351	351	393
				Entering	225	218	240	214	217	212	211	231	227	257
			Total Site	Existing	226	226	233	219	216	212	212	228	230	256
				Total	451	444	473	433	433	424	423	459	457	513
				Number of Beds	140									
				Trip Rate per bed	3.22	4								
							20 2 ·	20 C i	40.55	40.55	40		40.55	40.55
				Entoring	Average	27-Oct	28-Oct	29-Oct	10-Nov	12-Nov 257	13-Nov	17-Nov 207	18-Nov	19-Nov 253
			Driveway 1	Entering Existing	231 91	224 99	215 86	230 117	246 94	257 98	212 83	207 84	236 86	253 75
			Driveway 1	Ŭ	322		86 301		94 340	98 355	83 295	84 291	322	75 328
		-	Driveway 2	Total Entering	322	323 37	28	347 41	340 39	355	295 34	35	322 35	328 39
	San Jose Behavioral			Existing	179	37 175	28 162	41 173	39 190	38 191	34 171	35 162	35 182	39 206
4	Health Hospital	San Jose, CA	Driveway 2	Total	215	212	162 190	173 214	190 229	191 229	171 205	162 197	182 217	206 245
	Health Hospital	L		TULAI	213		190	214	229	223	205	121	21/	243

1	1	1				1								
				Entering	267	261	243	271	285	295	246	242	271	292
			Total Site	Existing	270	274	248	290	284	289	254	246	268	281
				Total	538	535	491	561	569	584	500	488	539	573
				Number of Beds	80									
				Trip Rate per bed	6.72									
					Average	4-Nov	5-Nov	9-Nov	10-Nov	12-Nov	17-Nov	18-Nov	19-Nov	
				Entering	36	36	42	32	35	39	38	28	40	
	Cascade Behavioral	Tukwila, WA	Driveway 1	Existing	78	71	78	77	81	74	82	76	86	
				Total	114	107	120	109	116	113	120	104	126	
			Driveway 2	Entering	231	209	227	235	217	228	242	239	250	
5				Existing	175	161	180	173	168	187	174	181	178	
				Total	406	370	407	408	385	415	416	420	428	
			Driveway 3	Entering	26	17	25	23	28	27	30	29	25	
				Existing	24	16	24	33	19	25	27	25	23	
				Total	50	33	49	56	47	52	57	54	48	
				Entering	13	13	12	19	14	9	14	14	5	
	Health Hospital		Driveway 4	Existing	243	291	219	316	282	230	257	128	223	
				Total	256	304	231	335	296	239	271	142	228	
				Entering	235	238	198	275	243	205	234	293	194	
			Driveway 5	Existing	16	14	12	28	14	12	14	20	17	
				Total	251	252	210	303	257	217	248	313	211	
				Entering	540	513	504	584	537	508	558	603	514	
			Total Site	Existing	537	553	513	627	564	528	554	430	527	
				Total	1,077	1,066	1,017	1,211	1,101	1,036	1,112	1,033	1,041	
				Number of Beds	137	1								
				Trip Rate per bed	7.86	1								

APPENDIX B EXCERPT FROM SANDAG SB 743 SERIES 14 ABM 2+ BASE YEAR 2016 VMT MAP

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SAMDAG San Diego Region SB743 VMT Maps





Map Legend / Disclaimer

Map Legend

Percent of Mean

More than 125% of Regional Mean
100% to 125% of Regional Mean
 85% to 100% of Regional Mean
50% to 85% of Regional Mean
Less than 50% of Regional Mean
No Data
Not Enough Data

Current Data

- 2016 ABM2+ / 2021 RP (Scenario ID 458) Regional Mean = 18.9 VMT per Resident Regional Mean = 18.9 VMT per Employee
- 2025 ABM2+ / 2021 RP (Scenario ID 462) Regional Mean = 17.7 VMT per Resident Regional Mean = 17.0 VMT per Employee
- 2035 ABM2+ / 2021 RP (Scenario ID 475) Regional Mean = 16.6 VMT per Resident Regional Mean = 15.3 VMT per Employee
- 2050 ABM2+ / 2021 RP (Scenario ID 459) Regional Mean = 16.0 VMT per Resident Regional Mean = 14.3 VMT per Employee

Archived Data

2016 - ABM2 / 2019 RTP (Scenario ID 434) Regional Mean = 19.0 VMT per Resident Regional Mean = 27.2 VMT per Employee

Disclaimer

The maps provided by SANDAG are an interpretation of the Senate Bill 743 Technical Advisory guidelines published by the California Office of Planning and Research and are provided as a resource to the jurisdictions in the San Diego region to use as they see fit. Users of the data should exercise their professional judgment in reviewing, evaluating and analyzing VMT reduction estimate results from the tool. Each agency should consult with CEQA experts and legal counsel regarding their own CEQA practices and updates to local policies. Refer to full disclaimer and additional information relating to the use of the SB 743 VMT Map Web Application.

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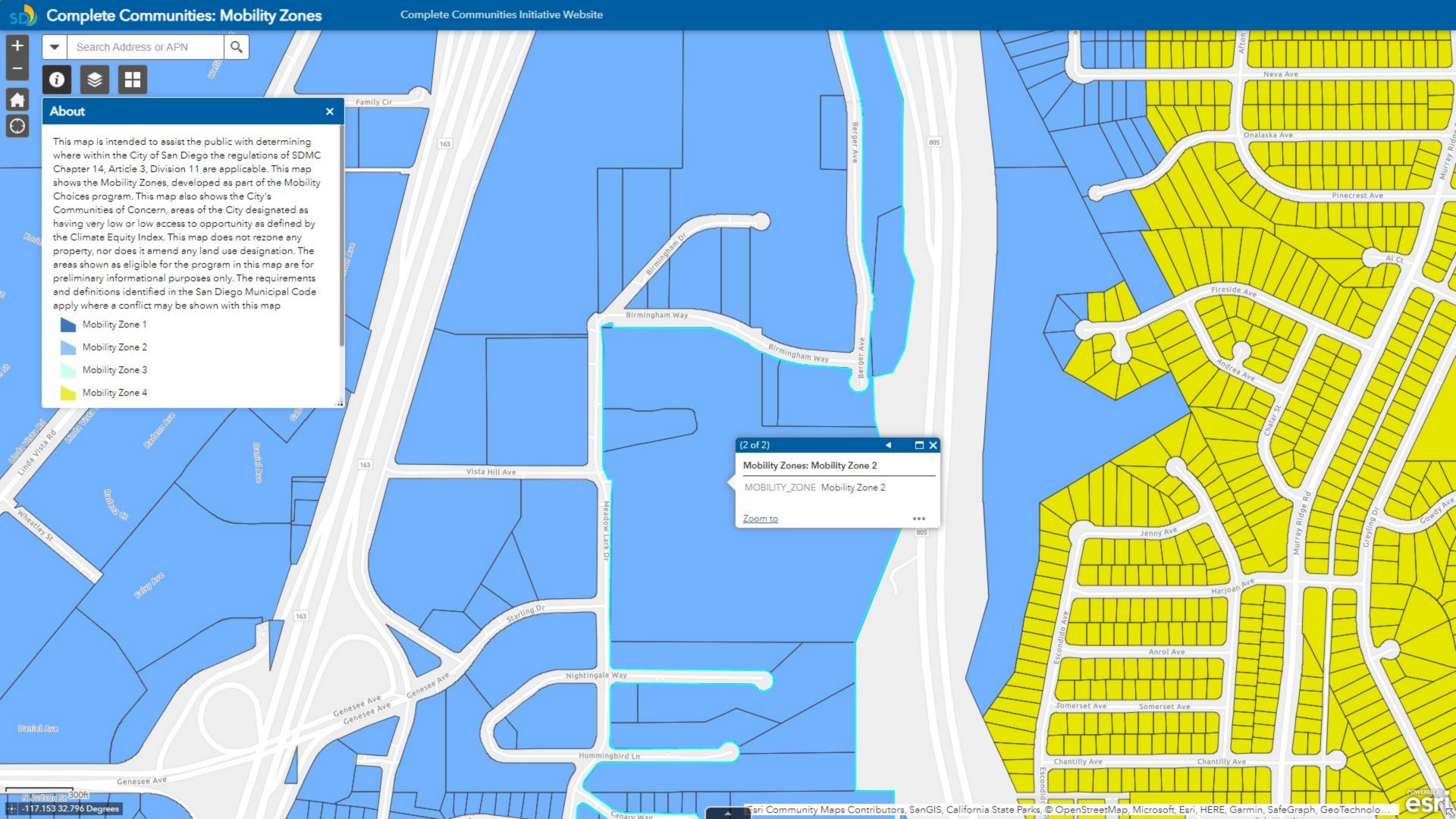
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APPENDIX C

EXCERPT FROM CITY OF SAN DIEGO'S COMPLETE COMMUNITIES MOBILITY ZONES MAP



END OF APPENDICES

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